A NEW AND COMPLETE
DICTIONARY
OF
ARTS and SCIENCES;
COMPREHENDING ALL
The Branches of Useful Knowledge,
WITH
ACCURATE DESCRIPTIONS as well of the
various MACHINES, INSTRUMENTS, TOOLS, FIGURES,
and SCHEMES necessary for illustrating them,
AS OF
The Classes, Kinds, Preparations, and Uses of NATURAL
PRODUCTIONS, whether ANIMALS, VEGETABLES,
MINERALS, FOSSILS, or FLUIDS;
Together with
The KINGDOMS, PROVINCES, CITIES, TOWNS, and
other Remarkable Places throughout the WORLD.
Illustrated with above Three Hundred COPPER-PLATES,
curiously engraved by Mr. JEFFERYS, Geographer and Engraver to
his Royal Highness the Prince of WALES.
The Whole extracted from the Best AUTHORS in all Languages.

By a SOCIETY of GENTLEMEN.

Hec undique Gaza
Congeritur. VIRG.

VOL. I.

LONDON:
Printed for W. OWEN, at Homer's Head, in Fleet-street.
MDCCLIV.
THE
INTRODUCTION.

As mankind, at least in all the polite and civilized parts of the world, are abundantly convinced of the inestimable value of knowledge, we shall not detain the reader with needless encomiums of it; neither shall we enter upon a tedious history of the rise and progress of the several arts and sciences. It appears to us much more interesting, as well as more conducive to our present purpose, to employ the few pages allotted for an Introduction, in shewing how justly this work merits the title of a Complete Dictionary of Arts and Sciences: this we shall attempt to do, by briefly explaining the design and nature of the work, and afterwards giving a short analysis of the subject-matters contained in it.

In general, then, it is designed, and, upon examination, we are confident will be found, to be more universal and comprehensive, than any work of the like nature, hitherto published in any language: for not only are the larger branches of science, and general classes of natural objects, here explained and illustrated; but, likewise, their various subdivisions pursued throughout the most minute ramifications: thus, the properties of Points and Atoms, for instance, are by no means omitted, though contained in much narrower bounds than those of Lines, Angles, Surfaces, and Solids: here too the smallest Insects and Plants find a place, only a less one than those allotted for the description of the Elephant and Oak: in a word, it will contain, so to speak, the quintessence of literature, extracted from loads of gross materials, and especially from that chaos of words which fills up whole pages, where one paragraph might have served. But this is not all; for besides lopping off excrescences, curtailing superfluities, and wholly rejecting useless lumber, particular care has been taken to supply the deficiencies, as well as to correct what appeared to be amiss in the plan of former scientific lexicographers: hence it is that some of our articles are more full than theirs, others more concise, and a multitude of entirely new ones added; not to mention the different arrangement and disposition which obtain on many occasions. Among the new articles may be ranked most, if not all, the geographical ones, many commercial and scientific, and not a few in natural history.

This work, therefore, will make a Complete, though concise, Body of Arts and Sciences, Natural History, and Geography, disposed in the commodious form of a dictionary; concerning which form we find ourselves obliged to remark, that some have very injudiciously condemned the use of references. A thousand instances might be brought, to prove their being indispensibly necessary to the perfection of such a work: thus, under the general article Animal, after defining what is meant by the term, and distributing it into the classes Quadrupeds, Birds, Fishes, &c., the nature of a dictionary, which treats of every thing under distinct articles, makes references to these heads, for the particular description and subdivisions of each, not only useful, but an essential part of the work. On the other hand, to avoid needless repetitions, it has been judged suf-
icient, under particular articles, Horse, for example, to say that it is an animal of the class of quadrupeds, and order of the jumenta, or beasts of burden; taking care to give the characteristic peculiarities that distinguish it from all other animals, and refer to the articles Animal, Quadruped, and Jumenta, for its general and classical characters, or those it has in common with other animals of the same class and order. What has been said of Animal and Horse, will hold equally with respect to other articles; thus, from Arithmetic and Algebra we refer to Addition, Subtraction, Multiplication, &c., and from these back again to Arithmetic and Algebra, for the general account of these sciences. This double reference, like a double entry in other accounts, provides an object and from these back again to Arithmetic and Algebra, for besides this necessity of symmetry, arising from the nature of the work, the care of authors, in coining a multiplicity of names for the same object, has subjected lexicographers to the cruel and almost endless task of explaining the various terms they have used for one and the same thing. Now the only possible method of doing this in an accurate and scientific manner is to describe every such object under a select name, and refer from the other synonymous terms to that head, for the description.

It remains now to say something of the sources, whence the materials of this work have been drawn: and, indeed, these are too numerous to be particularly mentioned; all helps, from whatever quarter, having been used with the utmost freedom. Dictionaries, transactisons, memoirs, systems, commentaries, practices, and even essays, elements, and grammars have contributed their several quotas. These, like so many rich mines, have furnished ample materials for erecting this new edifice; in which, however, they are so transformed and new modelled, in order to fit them for their respective places, that it would be both tedious and useless to refer to the originals on every occasion. This, nevertheless, we have always taken care to do when necessary; never failing to point out the best authors on each art and science, and refer the curious to books where farther information on the most interesting subjects may be obtained.

With respect to the copper-plates, it is sufficient to observe, that they must greatly enhance the merit of the work; since, without them, the most accurate descriptions seldom convey such distinct ideas of things as could be wished. On the other hand, the descriptions serve to explain the copper-plates: for though the engraver has, indeed, with much ingenuity, delineated the many mathematical schemes, figures, machines, instruments, animals, plants, and other curious productions of nature, selected for the illustration and embellishment of this work; yet their properties, construction, and various uses must be learned from the description given of them under their respective articles.

Having thus, in few words, explained the design and nature of our undertaking, we shall next proceed to lay down a plan of the subject-matter: but as this is a task of no small difficulty, it will be necessary, in order to assist our own as well as the reader's imagination, to subjoin the Table or Scheme of Knowledge; by which, as by an intellectual compass, we have steered our course through the vast ocean of literature. It is constructed upon a very different plan from all that have fallen within our notice: that of Mr. Chambers has been generally disliked, as too scholastic and abstracted; and even that of the great Bacon, with all the improvements of the ingenious authors of the French Encyclopedia, is, in our opinion,
INTRODUCTION.

opinion, too complicated, inasmuch as it blends the consideration of the human soul with that of the objects of its knowledge. On this last foundation it is that the annexed general Scheme of Human Knowledge has been drawn up; which, we flatter ourselves, has the advantage of any of those before-mentioned, not only as being more simple and natural, but likewise fuller and more accurately distributed.

This scheme is branched out, first into the General and Particular objects of knowledge; under the former, or general branch, being comprehended Metaphysics, Ontology, or First Philosophy; which is again subdivided into general Pneumatology, Physics, Mathematics, Phylogeny, and Chronology: all which are either employed about the essences or general attributes of Beings, as will be explained afterwards. Under the second grand branch of knowledge are comprehended all particular objects, subdivided into Divine, Human, Natural, and Artificial; the first whereof includes all that we know about God and matters of religion; the second, all that more immediately regards Mankind, whether considered as Individuals, or Members of Society; the third, all Natural objects, from the Sun, Stars, and Planets, to the most minute Infests and Atoms of our earth; and the fourth, all works of Art; which, notwithstanding their manifest connection with the second branch, we have judged expedient to arrange under a separate and distinct class, for this reason, that as the admirable works of the great Author of nature are considered separately from Theology, so may the comparatively diminutive, though at the same time curious and useful, productions of human Art be considered separately from Mankind themselves. As to the many subdivisions of each of these larger branches, they may be seen in the scheme itself; which, being drawn up with no inconsiderable application and study, is submitted to the judgment of the learned, who at least cannot fail to approve of our endeavours to please them; since this desire, added to that of finding a cue to guide us through the intricate mazes of literature, was what set us upon compiling it.

We will now take a general survey of the arts and sciences, and, as they pass in review before us, point out the most important branches treated of under each of them; which, at the same time that it serves as a farther illustration of the Scheme here referred to, will be a brief analysis of this work.

(1) Metaphysics, Ontology, or First Philosophy, undoubtedly constitute the most sublime of all sciences, as treating of the essence and universal affections of all beings. To be a good metaphysician, one must first be a good divine, a good philosopher, and, in short, a thorough proficient in every branch of particular knowledge; he must have distinct and adequate ideas of the nature and manifold properties of beings in general; otherwise in clasping, distinguishing, and variously arranging them, he must unavoidably fall into the grossest blunders; we have, therefore, endeavoured to explain the various opinions of the learned concerning Essence, Subsistence, Cause, Effect, Possibility, Necessity, Power, Duration, Number, Finite, Infinite, Category, Predicament, Genus, Species, &c.

(2) Pneumatology, called also Pneumatics, is one great and important branch of metaphysics, which treats of spiritual beings, their powers, attributes, &c. whence arise a great many curious articles, as Spirit, God, Angel, Soul, Mind, Understanding, Idea, Perception, Judgment, Reasoning, Reflection, Sensation, &c. also Knowledge, Science, Will, Memory, Imagination, &c. all treated of in their several places.

(3) Physics,
VI

INTRODUCTION.

(3) Physics, another great branch of metaphysics, to which belongs the explanation of the general properties of corporeal beings, is subdivided into mathematics and physiology.

(4) Mathematics treat of number, figure, and magnitude; and hence the subordinate sciences arithmetic, algebra, and geometry: the great excellency of all which is owing to this, that as we have more distinct and determinate ideas of their principles, so likewise is the knowledge thence arising more precise and certain than that of most other sciences.

(5) Arithmetic is considered not only with respect to its fundamental operations, addition, subtraction, multiplication, and division; but likewise the rules of proportion, interest, fellowship, rebate and discount, tare and tret, fractions vulgar and decimal, reduction, involution, extraction of roots, alligation, progression both arithmetical and geometrical, arithmetic of infinites, logarithms, &c. of all which, both the principles and practice are explained in the most distinct manner, and illustrated by proper examples.

(6) Algebra, by some called literal or universal arithmetic, very properly occupies the next place, as serving to resolve all manner of problems by the same fundamental operations of addition, subtraction, multiplication, &c. But besides these it contains a great many others, very different from those of arithmetic; such as equation, quadratic, biquadratic, cubic, binomial, surd, construction, coefficient, limit, &c. also many in common with it, as proportion, series, approximation, involution, evolution, fraction, &c.

(7) Geometry, another most comprehensive as well as useful branch of mathematics, is considered as divided into elementary or common, and higher; the first, or elementary part, may be conveniently subdivided into, 1. Planimetry, or the mensuration of plain figures, their length, breadth, angles, diameters, diagonals, areas, &c. hence the articles line, triangle, square, parallelogram, polygon, circle, ellipse, parabola, hyperbola, surface, surveying, &c. the properties of all which are explained in their places, as are also the figures and uses of the instruments employed in describing or measuring them, as ruler, compasses, quadrant, theodolite, circumferentor, plane-table, chain, scale, protractor, perambulator, &c. 2. Stereometry, or the mensuration of solids; which may be studied under the articles cube, parallelopiped, prism, pyramid, globe, sphere, spheroid, cylinder, cone, frustum, gauging, sector, sliding-rule, gauging-rod, &c. As to the higher geometry, it may be learned under the articles curve, curvature, transcendental, cissoid, conchoid, cycloid, caustic, &c.

(8) Trigonometry is that branch of geometry which teaches the mensuration of triangles, whether plain or spherical; hence a variety of articles, as angle, degree, sine, tangent, secant, radius, triangle, base, perpendicular, hypotenuse, &c. all explained in their places. And as to the mensuration and properties of spherical triangles, they will be found under the articles triangle and spherical.

(9) Spheres contain the doctrine of the sphere, the area of its surface, its solidity, formation, projection, &c. whence the articles orthographic, stereographic, analemma, planisphere, pole, &c.

(10) Conics,
(10) **Conics**, another branch of geometry, treats of the conic sections, as Circle, Ellipsis, Parabola, and Hyperbola: whence a variety of articles, as Axis, Asymptote, Absciss, Focus, Parameter, Ordinate, Diameter, &c. all treated of under their several articles.

(11) **Physiology, or Natural Philosophy**, a science of vast extent, is universally acknowledged to be the most sublime, most entertaining, and at the same time most useful part of speculative knowledge, relating to natural objects. It has for its object the Laws and various Phenomena of Nature; whence arise the articles Matter, Body, Extension, Solidity, Fluidity, Divisibility, Motion, Gravity, Attraction, Cohesion, Electricity, Magnetism, Elasticity, Hardness, Softness, Malleability, Heat, Light, Cold, Fruit, Condensation, Rarefaction, Fermentation, Generation, Vegetation, Crystallization, Nutrition, Putrefaction, Rain, Thunder, Hurricane, Cloud, Meteor, Rain-bow, Summer, Winter, Sound, Taste, Colour, Smell, &c. In short, this science may be looked upon as the basis of all Natural and Artificial Knowledge, and even of Human, so far as it regards the body.

(12) **Dynamics** constitute a branch of physiology, to which belongs the consideration of the Laws of Motion, of Percussion, of Action and Reaction, of Force, Acceleration, Retardation, Direction, Velocity, Central Forces, Springs, Powers, Weights, &c.

(13) **Mechanics** is another branch of Physiology, which treats of the Equilibrium and Combination of Powers; and hence the simple machines called the Mechanical Powers, *viz.* Lever, Ballance, Axis in Peritrochio, or Axis and Wheel, Pulley, Wedge, Screw, and Inclined Plane: of these are all manner of compound engines and machines constructed; some consisting of several levers; others, of levers, screws, and wheels; and others, of all the simple powers, variously combined. Hence the articles Friction, Friction-wheels, Clock, Watch, Water-works, Wind-mill, Water-mill, Crane, Capitan, Windlas, Pile-engine, Silk-engine, Orrery, &c.

(14) **Chronology** is employed about Time, and comprehends not only the larger periods, as the Julian and Victorian Periods, the Christian Era, the Hegira, Spanish Era, &c. but likewise its lesser divisions, as Hour, Day, Week, Month, Year, Olympiad, Lutrum, Cycle, Age, Century. Hence also a variety of articles, relating either to the methods of computing time, or the instruments for measuring it, as Fasti, Calendar, Almanac, Easter, Epact, Golden Number, Style, Julian, Gregorian, Indiction, Dial, Watch, Clock, Water and Sand-glasses, &c. all explained in their proper places.

(15) **Theology**, considered as a branch of Pneumatology, treats of the Being and Attributes of God, and is either Natural or Supernatural, according as its principles are derived from Reason or Revelation; hence also the articles Eternity, Omnipotence, Omniscience, Ubiquity, Creation, Providence, &c.

(16) **Religion** is of much greater extent, as comprehending the Creeds, Festivals, Ceremonies, and Rites of the almost numberless sects to be found among Christians, Jews, Mahometans, and Pagans. Our general division of these is into True and False; Christianity and Judaism being ranked under the former, and Mahometanism and Paganism under the latter; however, to prevent
vent being misunderstood, let it be remarked, that we do not mean this of Judaism as professed by the modern Jews, but such as it was before the coming of our Saviour, and as delivered in the Old Testament; for as to modern Judaism, it is perhaps more absurd than Mahometanism.

The principal articles treated of, under this head of Religion, may be classed in the following manner, 1. The various Sects, as Protestants, Papists, Arians, Armenians, Socinians, Brachmans, Gymnosophists, &c. 2. The Rites and Ceremonies, as Baptism, Eucharist, Ordination, Circumcision, &c. 3. The different kinds of Worship, as Adoration, Prayers, Psalmody, Sacrifice, &c. 4. The Festivals, as Christmas, Easter, Pentecost, Passover, Bacchanalia, &c. 5. The Falls, as Lent, Ramadan, &c. 6. The sacred Books, as Bible, Alfaran, &c. 7. The sacred Ministers, as Priest, Bishop, Mufti, Dervis, &c. 8. Places and Utensils of worship, as Church, Chapel, Temple, Mosque, Altar, &c. all which are explained in the order of the alphabet.

(17) Anthropology includes the doctrine of Human Nature, considered in general; the Rank which Mankind hold in the Creation; the Union of Soul and Body, and the Laws thereof; the Immateriality, Rationality, and Immortality of the Soul; the unalienable Rights and Privileges of every individual, as Self-preservation and Liberty; the Faculties and Desires common to the whole human race, as Understanding, Desire of Happiness, Sociability, &c.

(18) Logic, a science much-cultivated both by ancient and modern philosophers, and justly held in the highest estimation, has the Faculty of the Human Understanding for its object, and is consequently but a branch of anthropology. It considers the Origin of Human Knowledge, shews how Ideas or Notions are formed; compares them to discover their Agreement or Disagreement, teaches the Rules of Ratiocination, and explains the Methods pursued in the Investigation of Truth. Hence arise a multitude of important articles, as Perception, Idea, Sensation, Reflection, Abstraction, Composition, Division, Judgment, Proposition; Affirmative, Negative, Universal, Particular, Absolute, Conditional, Self-evident, Argument, Axiom, Principle, Synopsis, Terms, Premises, Conclusion, Figure, Mode, Stipites, Dilemma, Sophism, Enthymeme, Truth, Fallacious, Evidence, Demonstration, Method, Analysis, Synthesis, &c.

(19) Personal Ethics, called by Bacon the Georgics of the Mind, have the Faculty of the Will for their object, and consequently are only a branch of anthropology, concerning which we cannot affirm what has been said of logic, since philosophers have only considered it as a subdivision of General Ethics, under the title of the Duties of Man to himself. Some, indeed, at the head of whom may be placed Lord Shaftesbury and Hutcheson, have treated of the Balance of the Affections, the Power of the Passions, and the Beauty of Virtue and Goodness; yet still a regular and systematic treatise on this subject seems to be much wanted. We have explained the various terms Anger, Aversion, Hatred, Desire, Hope, Joy, Pleasure, Pain, Good, Evil, Passion, Appetite, Abstinence, Temperance, &c. under their respective articles.

(20, 21) Hieroglyphics and Heraldry are finer-arts, whereof the first, by various Symbols and Emblems, tends to preserve the memory of divine objects of knowledge, whether doctrines, offices, or rites; and the latter, by the like means, perpetuates the honours of great men and families. Every religion is furnished with a peculiar set of Hieroglyphics, or mythical representations. The
The Egyptians of old were famous for them; the festivals of the Greeks and Romans were full of them; and even the christian and jewish religions are not without them, witness Baptism, Circumcision, Crucifixes, Surplices, &c. However, it must be confessed, that the doctrine of Hieroglyphics is by no means reduced to a system; which is the reason that though we have given the best information in our power on all these and the like heads, yet not with such precision as we could have wished. With respect to Heraldry the case is quite otherwise; here we have explained the several Ordinaries, Charges, Colours, Metals, and Bearings; whence arise the articles Bar, Bend, Chief, Crofs, Bordure, Pale, Saltier, Quarter, Dexter, Sinister, Or, Azure, Escutcheon, Shield, Creft, Supporters. Blazoning, &c. all which are described in their places, and the figures of most of them curiously engraved in the copper-plates.

(22, 23) Grammar and History are also kindred branches of human knowledge, serving to perpetuate the memory of facts and inventions, and spread the knowledge of arts and sciences: the first we have considered as divided into four parts, Orthography, Etymology, Syntax, and Prolofy; whence arise the articles Letter, Vowel, Conflonant, Word, Particle, Subflantine, Adjective, Pronoun, Verb, Active, Passive, Adverb, Preposition, Interjection, Conjunction, Number, Cafe, Declension, Perfon, Mood, Tenfa, Concord, Regimen, Verfe, Profe, Accent, Pronunciation, Primitive, Derivative, Simple, Compound, Regular, Irregular, Language, Hebrew, Greek, Latin, English, German, French, &c. As to History, we have considered it as divided into Civil, Eccleftiaflcal, Natural, and Literary; hence the articles Dictionary, System, Abridgement, Elements, Synopfis, and many of those enumerated under the heads Government, Religion, and Natural History.

(24, 25) Rhetoric and Poetry are two liberal arts which owe most of their captivating charms to a good Imagination, or Genius; and, indeed, without the aid of this faculty, it is impossible to excel in any one art or science whatever. Under Poetry come the articles Poem, Epic, Dramatic, Lyric, Ode, Hymn, Psalm, Song, Satire, Elegy, Epigram, Tragedy, Comedy, Prologue, Epilogue, Soiloquy, Protafis, Epiftis, Cataftrophe, Act, Scene, Pastoral, Parce, Hexameter, Pentameter, Iambic, Saphic, Adonic, &c. And to Rhetoric may be referred the articles Elocution, Action, Disposition, Exordium, Narration, Peroration, Figure, trope, Exclamation, Apostrophe, Epithomena, Metaphor, Allegory, Hyperbole, Style, &c.

(26) Music, another art depending upon imagination, we have explained in the concisefient manner consistent with pcripicuity; the terms are not only defined, but the grounds of Harmony accounted for; and both antient and modern Music illustrated under a variety of articles, as Diagram, Chord, Character, Scale, Interval, Clefs, Baf, Tenor, Treble, Genus, Chromatic, Enharmonic, Diatonic, Gamut, Solfaiang, Temperament, Tone, Note, Second, Third, Fourth, Fifth, Sixth, Seventh, Octave, Diareftaron, Diapente, Diapason, Allegro, Andante, Trumpet, Flute, Organ, Harpsichord, Violin, &c.

(27) Arts, in general, might be referred to the imagination; but we choose rather to classify them according to the various uses they are intended to serve, as may be seen afterwards.

(28) Anatomy has the constituent parts of the human body for its object, which the reader will find concisely and distinctly explained in their places; such are Head, Breast, Thorax, Abdomen, Arm, Leg, Artery, Vein, Nerve, &c.
MUSCLE, Bone, Gland, Heart, Stomach, Spleen, Liver, Lungs, Gall; Blood, Chyle, Aorta, Carotids, Subclavian, Spermatic, Vena Cava, Porta, Jugular, Hand, Foot, Cartilage, Articulation, &c.

(29) MEDICINE, has the Health of mankind for its object, and therefore is employed either in preventing or curing the many diseases to which they are liable; in treating of which we have only briefly touched upon etiology, diagnostic, and Prognostic Signs, in order to make room for the Therapeutic part, or method of cure. Many are the articles belonging to this subject, but the most considerable are these, Diseafe, Symptom, Prognostic, Diagnostic, Pulse, Urine, Crisis, Regimen, Fever, Agues, Gout, Rheumatism, Peripneumony, Pleurisy, Apoplexy, Epilepsy, Palsy; Polypus, Palpitation of the Heart, Madness, Hydrophobia, Convulsions, Consumption, Scurvy, Dropsy, Colic, Plague, Lepra, Diarrhea, Dyentery, Erysipelas, &c.

(30) PHARMACY, an art subservient to medicine, treats of the Uses and Preparations of all medicinal Drugs, whether simple or compound, natural or artificial; these are of different kinds, as Earths, Salts, Sulphurs, Metals, Plants, Animal Substances, Oils, &c. and are arranged under different classes, according to their different qualities, and curative intentions, as Evacuants, Alteratives, Afflirgentes, Styptics, Cathartics, Emetics, Emollients, Narcotics, Sudorifics, Diaphoretics, Cardiacs, Vulneraries, &c. The Simples belonging to each of these are described with exactness, the Preparations explained, and the Virtues enumerated, as delivered in the best Dispensatories and writers on the Materia Medica. In order to be convinced of this, the reader needs only consult the articles Amber, Ammoniac, Balsam, Scammony, Aloes, Almonds, Cinnamon, Saffras, Jalap, Bole, Cinnamon, Rhubarb, Manna, Guaiacum, Colocynth, Senna, Opium, Musk, Elecuary, Extract, Tincture, Syrup, Troche, Pill, Mithridate, Theriac, &c.

(31) CHEMISTRY is an article subservient indeed to medicine, but by no means confined to that branch: it teaches the methods of preparing the different kinds of Salts, Oils, Amalgamas, Calxes, Crocuses, Reguluses, Sublimates, Spirits, &c. used in medicine; also the Smelting, Refining, and variously ordering of metals for the common uses of life: so that to Chemistry may be referred the many operations of Smithery, Coinage, Plumbery, Foundery, &c. To it likewise belong the arts of making Glafs, Lime, Soap, Pot-ashes, Malt, Beer, Wines, Vinegar, Dying, Enameling, Etching, Tanning, &c. Hence a multitude of extremely useful articles, as Calcination, Distillation, Sublimation, Rectification, Solution, Menstruum, Crytallization, Precipitation, Brewing, Fermentation, Clarification, Amalgamation, Fluxes, Alkaheft, Aqua fortis, Aqua regia, Furnace, Crucible, Retort, Coppel, Muffle, &c.

(32) SURGERY, another art subservient to medicine, teaches the several manual operations, as well as the treatment of the various external accidents and disorders to which mankind are subject; hence the articles Amputation, Carfarian Section, Cutting for the Stone, Phlebotomy, Scarification, Incision, Wound, Ulcer, Absces, Tumor, Aneurism, Fracture, Luxation, Cancer, Gangrene, Mortification, Venereal Disease, Piles, Rickets, Ruptures, &c. also the instruments used for this purpose, as Knives, Lancets, Scissors, Catheters, Bandages, Trusses, Probes, Spatula, Needles, Ambe, Tournequet, &c.

(33, 34) COSMETICS and GYMNASiCTS have the beauty and vigour of the body for their objects. Cosmetics imply the art of improving the complexion; and
**INTRODUCTION.**

and Gymnastics, of rendering the body robust and active by a course of proper exercises. Among the articles belonging to these subjects may be reckoned, Dentifrices, Washes, Creams, Salves, cosmetical Waters, Walking, Riding, Running, Bowling, Boxing, Wrestling, Dancing, &c.

(35) **General Ethics, or Morality,** comprehend the Duties which mankind owe to each other, independently of positive institutions, or the laws, of particular societies; all comprised under the golden maxim, of treating others as we would wish they should treat us, we are in their circumstances. Hence arise the articles Hospitality, Truth, Justice, Humanity, &c. also the opposite vices, Inhospitality, Pride, Barbarity, Injustice, Falsehood, &c.

(36) **Law** treats of the positive regulations of society, for preserving peace and good order, and the maintenance of justice. It explains the Rights and Privileges of every member, whether Nobleman or Commoner, Clergyman or Layman; and specifies the penalties, which the infringers of those Rights incur. Every state has peculiar laws of its own; thus the Romans had their Civil Law, still of great account in most nations of Europe; the French, the Salic Law, and the arrears of their arbitrary monarch; and, to mention no more, Great Britain is blessed with laws enacted by the joint consent of the King, Lords, and Commons. Many are the articles which come under this head, as Statute, Act, Decree, Charter, Corporation, Clergy, Freehold, Manor, Copyhold, Bill, Bond, Will, Guardian, Executor, Administrator, Lease, Devise, Livery, Indictment, Felony, Trespass, Judge, Jury, Challenge, Habeas Corpus, Court, Chancery, King's Bench, Common Pleas, Court of Requests, Plea, Trespass, Attachment, Capias, &c.

(37) **Government** very properly comes after Law, being only a power, lodged in the hands of one or more magistrates, to carry the laws into execution.

1. With regard to its different forms, and supreme magistrates, we have treated of Aristocracy, Democracy, Oligarchy, Monarchy, Arbitrary, Free, Mixed, Elective, Hereditary, Emperor, King, Consul, Archon, Senate, Sultan, Sophi, Czar, Caliph, Cæsar, Dictator, Prince, Protector; &c. 2. Its branches and subordinate magistrates, whether civil, ecclesiastical, or military; whence Archbishop, Bishop, Dean, Chancellor, Chief Justice, Mayor, Alderman, Sheriff, Bailiff, Justice of peace, General, Admiral, Colonel, Captain, Army, Navy, Militia, Parliament, Privy Council, Exchequer, Secretaries of State, War-Office, Board of Trade and Plantations, Board of Works, Post-Office, Commissioners of the Admiralty, Customs, Excise, Stamp-Duties, &c.

(38) **CommerCe** we have considered as one of the most useful and necessary parts of the whole work, and therefore have treated it with more than ordinary fulness. The natural productions, manufactures, and various commodities concerned in trade, are here accurately described; and the marks whereby to distinguish the good from the bad, and the genuine from the sophificated, particularly mentioned: such are the Ores of metals, Diamonds, and other precious stones, Drugs for medicine, painting, or dying, Spices, Grains, Salts, Sulphurs, Earths, Woods, Fruits, Silk, Cotton, Wool, Hair, Cloths, Linens, Stuff's, Hard-ware, Glassies, China and Earthen-ware, &c. The reader will likewise find the constitution and privileges of the several Companies established in Europe for the carrying on foreign trade; the laws and customs among merchants, for the insuring of shipping and merchandise; the constitution of the several Banks, with an account of their bank and current monies, as also of their agio, and the method of converting bank money into current money; the standards of gold and silver, and the par of foreign coins with respect to their intrinsic value; the monies
monies both of coin and account, weights and measures of our own and other countries; the practical part of Commerce, relating to Buying, Selling, Freighting, Factorage, Customs, Duties, Bounties, Drawbacks, Bills of Exchange, &c. and lastly, an explication of all the technical terms and phrases relating to foreign or domestic trade, together with the latest improvements in the art of book-keeping.

(39) Astronomy, as is more fully shewn under its proper article, treats of the Universe, and particularly our Solar System; explains the causes of the planetary motions, the times of their revolutions, their distances, magnitudes, &c. together with the various phenomena which thence arise, as Conjunction, Opposition, Eclipses, Aphelion, Perihelion, Summer, Winter, &c. The articles belonging to this science, which are indeed very numerous, may be classed under the following heads: 1. The Bodies themselves, Sun, Moon, Earth, Venus, Mercury, Mars, Jupiter, Saturn, Satellites, Comets, fixed Stars. 2. Systems concerning them, as Copernican, Ptolemaic, Tythonic, &c. 3. Constellations, or assemblages of the fixed stars, as the twelve signs, Aries, Taurus, Gemini, &c. Ursa major and minor, Andromeda, Cassiopeia, Hercules, Argo, Perseus, Lyra, Triangle, Sagitta, Pegasus, &c. 4. Terms and particular branches of this science, as Sphere, Equinoctial, Meridian, Horizon, Zenith, Nadir, Azimuth, Vertical, Ecliptic, Equinoctial, Meridian, Herst, Zenith, Nadir, Ascending, Descending, Perigee, Apogee, &c. 5. Instruments, as Globes, Armillary, Planets, Orrery, Telescopes, Micrometer, Quadrants, Astrolabe, &c. the description of all which is illustrated by proper schemes and figures.

(40) Geography is only a branch of Cosmography, which having the description of the terraqueous globe of our Earth for its object, may be comprehended under three general heads. 1. Natural Geography, which treats of its figure and natural divisions; whence arise the oblate Spheroid, Continent, Peninsula, Isthmus, Mountain, Promontory, Island, Ocean, Sea, Gulf, Lake, River, Straits, &c. 2. Political Geography, which is again subdivided into civil and ecclesiastical; the former containing a description of the political divisions of the earth into Empires, Kingdoms, Principalities, Provinces, &c. whence the articles Germany, China, Muscovy, France, Spain, &c. and the latter, an account of the ecclesiastical divisions of it, as Patriarchate, Archbishops, Bishops, Parishes, &c. 3. The instruments and technical terms; as Globe, Map, Equator, Meridian, Pole, Horizon, Longitude, Latitude, Climate, Zone, Amphithec, Ascii, Periscii, Antipodes, &c.

(41) Natural History constitutes a branch of knowledge, on which depends the very life and well-being of mankind: for so close is our connexion with the various productions of mother-earth, that whilst some serve us for food and medicine, and others for dress and ornament, there are others which supply our manifold necessities, shelter us from the inclemency of the weather, defend us from the hostile attacks of our enemies, whether of the human or brutal kind, waft us over immense oceans, and, in short, procure us all the conveniences as well as necessaries of life. It is from our acquaintance with this study, that we derive any advantage from the strength of the ox, the swiftness of the horse, the sagacity and fierceness of dogs, the fleece of the harmless sheep, the furs of the fable and ermine-animals, or the several productions of those useful insects, the bee, silk-worm, and cochineal. The vegetable world is no less subervient to the purposes of human life. With what profusion does it furnish our tables! The mineral kingdom likewise contributes its share. Who knows
knows not the use of Gold and Silver, of Iron and Copper, of Tin and Lead, of Diamonds and other stones, or of Salts and Sulphurs? To these we have added a fourth branch more necessary than either the animal, vegetable, or mineral kingdoms. Water, Air, and Fire, are the common blessings of heaven; without which animal life could not be sustained, plants grow, or, perhaps, minerals be formed. No wonder, therefore, that mankind should prosecute this study with unwearied application! No wonder, if they erect monuments to those who make new discoveries in it!

(42) ZOOLOGY, or the science of Animals, is subdivided into six branches:
1. Quadrupeds, whence Lion, Elephant, Horse, Camel, Rhinoceros, Ox, Sheep, Bear, Tiger, Bat, Squirrel, &c.
2. Birds, as Eagle, Hawk, Peacock, Swan, Duck, Dove, Heron, Pelican, Phoenix, Cock, Pheasant, Thrush, Lark, &c.
3. Amphibious animals, capable of living in water as well as on land: such are the several kinds of Serpents, Snakes, Lizards, Frogs, Tortoises, &c.
4. Fishes, whereof some have the tail parallel to the horizon, as the Whale, the Dolphin, Porpoise, Physyfer, &c. Some have the rays of their fins cartilaginous, as the Ray-fish, Dog-fish, Shark, Sturgeon, Inflated-fish, &c. Others have fins with bony and prickly rays, as the Pearch, Gurnard, Ruffe, Sea-Bream, &c. Some again have fins with bony but not prickly rays: such are the Sand-eels, Turbot, Whiting, Cod, Haddock, Eel, Conger, Salmon, River-Bream, Chub, &c. And, finally, others have bony fins, but no offices or small bones in the branchio-stege membrane, as the Sun-fish, Lump-fish, Toad-fish, &c.
5. Insects, whereof some are naked, as the Worn, Louse, Gally-worm, Centipes, Milipes, &c. Others are furnished with one or two pair of wings, as the Bee, Fly, Beetle, Butterfly, Locust, &c.
6. Animalcules visible only by the assistance of microscopes, of which there are several kinds.

Subordinate to Zoology are several arts, which contribute both to profit and pleasure, as Farriery, Horsemanship, Hunting, Fowling, Fishing, the management of Cattle, of Fish, of Bees, of Silk-worms, of the Kermes and Cochineal Insects, &c. whence arise a multitude of useful articles, as Mange, Farcin, Halting, Gelding, Curvet, Volt, Capriole, Ferreting, Hawking, Net, Hound, Beagle, Angling, Cow, Calf, Mare, Foal, Sheep, Lamb, Hog, Pig, Poultry, Bee, Swarne, Hive, Honey, Silk-worm, Kermes, Cochineal, &c.

(43) BOTANY treats of the classes, characters, parts and virtues of plants; whence arise many thousands of articles, as Seed, Flower, Fruit, Root, Trunk, Branch, Wood, Bark, Leaf, Oak, Vine, Sage, Apple, Cherry, Tulip, Violet, Lilly, Tea, Sugar, Resin, Gum, &c. the characters, preparations, and various uses of all which are given under their respective heads, as has been already mentioned in speaking of Pharmacy.

(44, 45, 46) AGRICULTURE, including Gardening and Husbandry, furnishes a great many useful articles; as Soil, Manure, Tillage, Fowling, Planting, Sowing, Marle, Chalk, Clay, Loam, Sand, Inclosure, Hedge, Ditch, Grain, Granary, Wheat, Barley, Planting, Pruning, Grafting, Inoculating, Watering, Hot-Bed, Nursery, Green-House, Walk, Terrace, Gravel, Border, Wilderneys, Orchard, Kitchin-garden, Amphitheatre, Wall, Espalier, Arbor, Alley, Canal, &c.

(47) MINERALOGY treats of all kinds of Fossils, whether Stones, Earths, or Metals: hence the articles Mine, Ore, Gold, Silver, Iron, Copper, Tin, Lead, Quicksilver, Fluxes, Assaying, Dressing, Refining, &c. also Salt, Sulphur, Bitumen, Amber, Asenite, Antimony, Cinnabar, Vitriol, Bismuth, Calamine, Brafs,
I N T R O D U C T I O N.

Brafs, Cobalt, Smailt, Zinc, Nitre, Alum, Armoniac, Precious Stones, Cry-
itals, Flint, Marble, Lime-stone, Slate, Glimmer, Albeftus, Ochres, Marles,
Chalk, Clay, Sand, Earth, Petrifications, &c.

(48) HYDROLOGY is employed in explaining the Nature, Principles, and
Uses of all kinds of Waters, as Sea-water, Vitriolic-waters, Sulphureous-wa-
ters, Chalybeate-waters, Lime-water, &c. and hence Spring, Bath, Spaw,
Bristol, Pyrmont, Scarborough, Tunbridge, &c. Waters. As to the medicated
Waters, they belong to Pharmacy.

(49) HYDROSTATICS constitute that part of Natural History which explains
the gravity and pressure of water: hence the articles Fluids, Gravity, Press
ure, Specific-gravity, Density, Rarity, Equilibrium, Arzometer, Hydrometrical
Ballance, Diving-Bell, &c. Under which we have explained the use of these
machines in Geometry, Commerce, Mechanics, &c. also for finding the spe-
cific gravity of solid bodies; whereof we have given a table, as ascertained by
the best writers on these subjects.

(50) HYDRAULICS treat of the motion of water, and the con
struction of all
kinds of instruments and machines relating thereto. We have therefore con-
sidered this science in five different lights, according to the causes which pro-
duce this motion. 1. That arising from the natural gravity and pressure of the
particles of water, which will be explained under the articles Spring, River,
Fountain, Fluids, Jet d'eau, &c. 2. That arising from the pressure of the air
on the surface of the reservoir, which will be explained under the heads Siphon,
Pump, Archimedes's Screw, Preßure, &c. 3. The motion of fluids produced
by the force of condensed air, confidered under Water-engine. 4. That occa-
fioned by the force or pressure of pistons, explained under Forcing-pumps.
5. That owing to attraction; whence the articles Tide, Capillary Tubes, Ha-
maftatics, &c.

(51) NAVIGATION is the art of conducting a ship through the ocean, from
one port to another; by which means a communication is opened between the
most distant countries, and the delicacies, as well as the conveniences of life,
broken from the East and West-Indies; the manufactures and superfluities of
one country are carried off, and in exchange are brought home the commodities
wanted either for home-consumption, for improving and inlarging their manu-
factures, or as commercial articles to be exported again. As therefore Naviga-
tion is the soul of ingenuity, the spring and support of industry, and the only
honourable means of enriching a nation, so useful a science deserves to be ex-
plained in the fullest and most distinct manner; which has been accordingly
done under the articles Mercator's failing, Plain-failing, Current-failing, Middle-
latitude-failing, Great Circle-failing, Compafs, Chart, Needle, Variation, Log,
Distance, Departure, Longitude, Latitude, Reckoning, Course, Traverfe, Ob-
ervation, Quadrants, Fore-flaff, Back-flaff, Altroplane, Harbour, Port, Sound-
ing, Mooring, Careening, Star-board, Lar-board, &c. together with the many
articles hereafter mentioned under Ship-building.

(52) AEROGOGY treats of the nature and properties of Air, its Fluidity, Gra-
vity, Elasticity, Density, Rarefaction, Principles, Atmosphere, Vapour, Exha-
lation, &c. whence Barometer, Thermometer, Hygrometer, &c.

(53) METEOROLOGY treats of the various phenomena observable in the at-
mosphere, as Fog, Cloud, Rain, Snow, Hail, Dew, Rainbow, Water-spout,
Halo,
INTRODUCTION.

Pneumatics are chiefly employed in explaining the force and spring of the Air, the cause of Winds, Trade-winds, Monsoons, Hurricanes, &c. also the construction of Air-pumps, Air-guns, Diving-bells, Water-bellows, Abolipile, Windmills, Rigging and Sails of Ships, &c. together with the doctrine of Sound, Echoes, &c.

Optics, including Catoptrics and Dioptrics, may be considered as theoretical or practical. In the first of these views we have explained the nature and propagation of Light, the cause and laws of Reflection and Refraction, the different Refrangibility of the rays of Light; the structure of the Eye and the nature of Vision, the appearance of objects through mediums of different forms, and the causes of the variety of colours observable in bodies, as also of opacity and transparency. With regard to the practical part, we have given the method of grinding Glasses, Mirrors, Lenses, &c. and constructing the most remarkable Optical instruments, as Telescope, Microscope, Camera Obscura, Magic Lantern, Polumoscope, Polyhedron, Sclioptic Ball and Socket, Heliodata, Spectacles, Spying-glasses, &c.

Perspective, Drawing, and Painting, are finer arts, which by means of lines, shade, and colours, exhibit on a plane the likeness of natural objects, as they appear to the eye at any height or distance, or in any attitude or other circumstances. Some of the articles, treated of under these heads, are Schenography, Orthography, Ichnography, Stereography; Anamorphosis, Reduction, Plane, Designing, Engraving, Etching, Draught, Design, Pentagraph, Claro-Obcuro, Attitude, Action, Expression, Group, Contrast, Limning, Miniature, Fresco, Japanning, Enamelling, Dialling, Drapery, Portrait, Mezotinto, Colours, Crayon, Proportion, Prototype, &c.

The artificial objects of knowledge are here classified, according to the principal purpo1es they are intended to serve; some being employed about Dress and Equipage, and others about Building and Furniture: some again are subservient to Literature, and others employed about Tools, Instruments, and Machines of all kinds. We shall now take a view of the subdivisions of this last branch of particular knowledge: And first of the arts respecting

Diet, which affords employment for various artists and tradesmen, as Bakers, Brewers; Vintners, Cooks, Butchers, Poulterers, Fishmongers, &c., and hence the articles Baking, Bread, Bifket, Flour, Dough; Oven, Brewing, Ale, Beer, Wine, Cyder, Perry, Mead, Punch, Distilling, Fermenting, Clarifying, Bottling, Fieh, Fish, Beef, Mutton, Poultry, Wild Fowl, Venison, Pork, Bacon, Ham, Cod, Herring, Salmon, Anchovy, Apple, Pear, Peach, Nectarine, Currants, Cherries, Pine-apple, Orange, Melon, &c. also Broth, Soup, Jelly, Pudding, Pye, Cutfard, Sauce, Defert, Tea, Coffee, Chocolate, Sugar, Spices, Milk, Cream, Butter, Whey, Cheese, Marmalade, Burgeo, Ragoo, Pricafsee, and a multitude of other familiar articles.

Dress and Equipage give rise to still more numerous trades, the principal of which are mentioned under this branch in our general scheme of knowledge. Hence the articles Cloth, Linnen, Silks, Weaving, Fulling, Dying, Bleaching, Printing. Stufffs, Camlet, Brocade, Sattin, Cambrie, Lawn, Muslin, Gown, Hat, Stocking, Lace, Fur, Gloves, Shoes, Boots, Saddles, Chariot, Coach, Chair, &c.
I N T R O D U C T I O N.

(61) Architecture, or the art of Building, includes a multitude of subordinate arts, as Masonry, Carpentry, and those of Bricklayers, Tylers, Slaters, Glaziers, Smiths, Platerers, &c. As to Architecture, properly so called, it considers the Solidity, Conveniency, Beauty, and Proportion of all manner of Buildings, as Church, Palace, &c. The terms, as found in Vitruvius, Palladio, Daviler, &c. are explained. The different orders, as Doric, Ionic, Corinthian, Tuscan, Composite, &c. are not only described, but illustrated by Copper-plates. Hence a variety of useful articles, as Building, Foundation, Wall, Window, Door, Gate, Porch, Column, Pedestal, Bafe, Shaft, Entablature, Capital, Corniche, Freeze, Volute, Module, Modillion, Attic, Tore, Chimney, Ceiling, Roof, Floor, Wainscot, Stair, Hall, Apartment, Chamber, Cellar, Kitchin, Barn, Stable, &c.

(62) Fortification, or Military Architecture, comprehends all manner of Buildings and other works erected for the security and defence of a City, Town, or other places of strength. Hence the articles Fortref, or Fortified Town, Fort, Caflle, Citadell, Battion, Curtin, Rampart, Ditch, or Moat, Counter-Scarp, Covered-way, Glacis, Crown-work, Half-moon, Redoubt, Platform, Battery, Mine, Trench, Parallel, Circumvallation, Contravallation, &c. all which are in the order of the alphabet, as are the systems of Coehorn, Vau- ban, Scheifter, &c. under Fortification.

(63) Ship-building, or Naval Architecture, treats of the Construction, Rigging, and different parts of Ships of War and Burden, Sloops, Busses, Galleys, Barges, Boats, &c. Hence the articles Hull, Keel, Stern, Prow, Deck, Quarter-deck, Fore-castle, Cabin, Maff, Bow-sprit, Cordage, Cable, Anchor, Captain, Pump, Yards, Sails, Tackle, Helm, Steerage, &c.

(64, 65, 66) The arts relating to Furniture, Literature, Tools, Instruments, and Machines, afford employment to a multitude of workmen, some of whom are mentioned under these heads in our general scheme, where we are likewise pretty full in regard to the works produced by them; all which the reader will find described in their places, and most of the Tools, Instruments, and Machines, illustrated with copper-plates.

Thus have we taken a general survey of the Arts and Sciences, and pointed out some of the principal subjects treated of in this Dictionary; concerning the Utility of which, no reasonable person can entertain any doubt:—not the Prince, as having fleets to be equipped, military stores to be provided, public buildings to be erected, and matters of government to be transacted;—not the Nobleman or Gentleman, who have estates to be improved, gardens to be laid out, mines to be wrought, and other works to be executed;—not the Divine or Philosopher, who will here find every branch of Literature treated in a truly scientifical and consistent manner;—not the Merchant or Trader, who without a perfect knowledge of the commodities they deal in, the duties to be paid, the bounties and drawbacks to be received, and other commercial affairs, are liable to be greatly imposed on;—and, lastly, not the Farmer or Mechanic, who will here find an accurate description of the Tools and Operations of their respective arts, with many useful hints towards improving them.

A COMPLETE
A COMPLETE UNIVERSE

DICTIONARY

OF

ARTS and SCIENCES.

A

The first letter of the alphabet, and one of the five vowels, is pronounced variously; sometimes open, as in the words talk, rover; and at others close, as in take, awake.

A is also used, on many occasions, as a character, mark, or abbreviation. Thus, in the calendar, it is the first of the dominoical letters: among logicians, it denotes an universal affirmative proposition; as a numeral, it signifies 1 among the Greeks; but among the Romans, it denoted 500, and with a dash over it, thus A, 5000. The Romans also used it on public occasions for antiquity, to antiquate or reject a proposed law; as did the judges of the same people for abjuro, I absolve or acquit; whence it had the name of litera falsueris. A is frequently also met with, denoting Aulus, Augustus, Ager, August, &c. A. A. stands for Augustus; A. A. A. for aurum, argentum, aet; and, among chemists, for amalgama. A. M. is used for anno mundi, or artium magister. A. A. U. C. for anno ab urbe condita; A. B. for alia bona; A. C. for altera causa, or alius civis; and A. D. for anno domini. On ancient medals, A stands for Argos, and sometimes for Athens; but on coins of modern date, for Paris. A, a, or å, among physicians, denote one, or an equal weight, or quantity, of several ingredients. The letter A is also used by merchants, to signify accepted; among whom it is likewise usual to mark their sets of books with the letters A, B, C, &c. instead of the numbers 1, 2, 3, &c. A, or an, is also one of the English articles. See Article.

A.A, in geography, the name of several towns and rivers, in different parts of the world. 1. Of one in the country of Sologne, in France. 2. Of one in French Flanders. 3. Of three in Switzerland. 4. Of five in the Low Countries. 5. Of five in Westphalia. 6. And, lastly, of one in Livonia. AACH, in geography, the name of a town and river of Swabia. See the article Swabia.

AACH is also a name given to Aix-la-Chapelle. See the article AIX-LA-CHAPELLE.

AADE, or AADA, the name of two rivers, one in the country of the Grifoos, and the other in Dutch Brabant.

AAHUS, a small town and diocrit of Westphalia.

AAM, a measure of capacity, otherwise called haam. See HAAM.

AAMA, a province of Barbery, of extremely difficult access. See BARBARY.

AAR, the name of a river, one in Switzerland, and the other in Westphalia.

AAR is also the name of a small island in the Baltic.

AARSEO, or AARZEO, a town in the kingdom of Algiers, in Africa, situated near the mouth of the river Mina.

AATTER, a province of Arabia Felix, situated on the Red-Sea. N. B. There are several other places, sometimes spelled with AAT, but more usually with one A: these will be inferred in the alphabetical order, according to the last orthography.

AB, in the hebrew chronology, the eleventh month of the civil, and the fifth of the ecclesiastical year; it answered to the moon of our July, and contained thirty days.

ABACH, in geography, a town of Bavaria,
ABACUS, among the Greeks, according to Arstedi, and greatly resembles the common plait, both in size and figure. It has five fins, one on the back, and another on the belly, both running to the tail; there are other two at the gills; and the tail, which is considerably forked, makes the fifth. See plate I. fig. 1.

ABACUS, in ornithology, the name of a species of parrot, otherwise called caclangay. See caclangay.

ABACTUS, among ancient physicians, a term used for a miscarriage effected by art.

ABACUS, in architecture, the uppermost member of the capital of a column. See Capital.

In the tuscan, doric, and ionic orders, the abacus is flat and square; but in the richer orders, its four sides, or faces, are arched inwards, with some ornament, as a rose or other flower, in the middle of each arch, and its four corners cut off. See plate I. fig. 2.

Scamozzi also uses abacus for a concave moulding in the capital of the tuscan pedestal.

ABACUS, or ABACISCUS, in the ancient architecture, likewise denoted certain compartments in masonic pavements, and the like.

ABACUS, among ancient mathematicians, was a table fireweld over with dust, or sand, on which they drew their figures or schemes.

ABACUS, in arithmetic, an instrument for facilitating operations by means of counters. Its form is various; but that chiefly used in Europe, is made by drawing parallel lines, distant from each other at least twice the diameter of a counter; which placed on the lowermost line, signifies 1; on the second, 10; on the third, 100; on the fourth, 1000; and so on. Again, a counter, placed in the spaces between the lines, signifies only the half of what it would do on the next superior line. According to this notation, the same number, 1754 for example, may be represented by different dispositions of counters. See A and B plate I. fig. 3.

ABACUS pythagoricus, a multiplication-table, or a table of numbers ready cut up, to facilitate operations in arithmetic.

ABACUS logificus, is also a kind of multiplication-table, in form of a right-angled triangle.

ABACUS harmonicus, among musicians, denotes the arrangement of the keys of a musical instrument.

ABADAN, in geography, a town of Persia, situated near the mouth of the river Tigre.

ABADIR, in the heathen mythology, the stone which Saturn swallowed, believing it to be his infant-son Jupiter.

ABÆRE, in geography, a town situated in the deserts of Arabia.

ABAFT, in the fea-language, a term applied to any thing situated towards the stern of a vessel: thus, a thing is said to be abaft the fore-mast, or main-mast, when placed between the fore-mast, or main-mast, and the stern.

ABASE, in heraldry, the same with abaft. See ABAFED.

ABASED, in arithmetic, an instrument for facilitating operations by means of counters. Its form is various; but that chiefly used in Europe, is made by drawing parallel lines, distant from each other at least twice the diameter of a counter; which placed on the lowermost line, signifies 1; on the second, 10; on the third, 100; on the fourth, 1000; and so on. Again, a counter, placed in the spaces between the lines, signifies only the half of what it would do on the next superior line. According to this notation, the same number, 1754 for example, may be represented by different dispositions of counters. See A and B plate I. fig. 3.

ABACUS, in medicine, the name of a species of alienation. See ABASE,

ABALIENATION, in the Roman law, a species of alienation. See ALIENATION.

ABANBO, a river of Ethiopia, which falls into the Nile.

ABANCAY, or ABANCAI, the name of a town and river of Peru, within the district of Lima.

ABANO, a small town of Italy, subject to Venice, and situated about five miles S. W. of Padua.

ABAPTISTON, or ABAPISTON, among ancient physicians, names given to the instrument now called a trepan. See TREPAN.

ABARCA, a kind of shoe, made of raw hides, formerly worn by the peasants of Spain. Some mention another kind of abarca, made of wood, like the French sabot. See SABOT.

ABARTICULATION, in anatomy, the same with diarthrosis. See DIARTHROSIS.

ABAS, a Persian weight, used in weighing pearls. It is one eighth less than the European carat. See CARACT.

ABASCIA, or ABASSIA, in geography, the country of the Abcas. See the article ABCAS.

ABASED, abaiff, in heraldry, is said of the
the wings of eagles, &c. when the tip looks downwards to the point of the shield, or when the wings are flat; the natural way of bearing them being spread.

A chevron, pale, bend, &c. are also said to be abafted, when their points terminate in, or below the center of the shield.

Lastly, an abafted ordinary, is one placed below its due situation.

ABASING, in the sea-language, the same with striking. See STRIKING.

ABASSI, or ABASSIS, a silver-coin, current in Persia, and somewhat less than the English shilling.

ABATÉ, in the manage. A horse is said to abate, or take down his curvets, when he puts both his hinder-legs to the ground at once, and observes the same exactness in all the times. See CURVET.

ABATELEMENT, in commerce, a term used for a prohibition of trade to all French merchants in the ports of the Levant, who will not stand to their bargains, or refuse to pay their debts.

The abatement is a sentence of the French consul, and must be taken off before they can sue any person for the payment of their debts.

ABATEMENT, in a general sense, signifies the lessening or diminishing something.

Abatements, in heraldry, something added to a coat of arms, in order to lessen its true dignity, and point out some imperfection or stain in the character of the person who bears it.

Abatements are either made by reversion or diminution; the whole escutcheon being turned upside down, or another inverted one added, in the former case; and as to diminutions, they are either a delf, a point, a point dexter, a point champlain, a plain point, a goar finifier, or two gulfets. See DELF, POINT, &c.

ABATEMENT, in law, signifies the rejecting a suit, on account of some fault either in the matter, or proceeding. Hence, plea in abatement is some exception alleged, and proved, against the plaintiff's writ, declaration, &c. and praying that the plaint may abate or cease; which being granted, all writs in the process must begin de novo.

Abatement is also an irregular entry upon houses or lands, and in this sense, is synonymous with intruion. See Abator.

Abatement, among traders, the same with what is otherwise called rebate or discount. See Rebate and Discount.

ABATIS, or ABATTIS, in middle age writers, an officer in the stables of princes; so called, according to Ducange, from batum, an ancient measure of corn.

ABATOR, in law, one who enters into a house or lands, void by the death of the last possessor, before the true heir; and thereby keeps him out, till he brings the writ intruione. See INTRUSION.

ABB, in our old writers, is used for the yarn of a weaver's warp; and hence the wool of which it was made, had the name of abb-wool.

ABBA, a syriac term, literally signifying father, and used as a title of honour, particularly to a bishop or abbot.

ABBAT, the same with abbot. See Abbot.

ABBATIS, the same with abbatis. See ABATIS.

ABBAYANCE, the same with abeyance. See ABEYANCE.

ABBES, the superiors of a convent of nuns. See Nun.

The abbess enjoys the same privileges, and has the same authority over her nuns, that the abbots have over their monks; spiritual functions only excepted, of which the sex renders her incapable. See Abbess.

ABBES, the name of such religious houses as are governed by a superior, under the title of abbot or abbess.

Abbeys differ in nothing from priories, except that the latter are governed by priors, instead of abbots.

The abbeys of England, at their dissolution under K. Henry VIII. became lay-fees: no less than 190 were then dissolved of between 200 l. and 35,000 l. yearly revenue, which at a medium amounted to 2,853,000 l. per annum; an immense sum in those days.

ABBES, the name of such religious houses as are governed by a superior, or a town of Abbey, in the county of Roscommon, situated in 8° 30'. W. lon. and 53° 54'. N. lat.

ABBINGDON. See ABINGTON.

ABBOT, or ABBAT, the superior, or governor of a monastery of monks, erected into an abbey or prelacy. See Monk and Monastery.

The abbeys of the primitive monasteries were men of great plainness and simplicity;
city; but afterwards, affecting not only preeminence over each other, but even to be independent of the bishop, there arose new species and distinctions of abbots into mitred and not mitred, crosiered and not crosiered, and ecumenical ones.

Mitred Abbots, those who were privileged to wear a mitre, and besides enjoyed the full episcopal jurisdiction of their several precepts. Among us, these were called abbots-sovereign, or abbots-general, and were lords of parliament; they were twenty-seven in number, besides two mitred priors.

The not mitred fide abbots, however, are chiefly of cardinal-abbots. They were, at present, into regular and religious, and the superiors of parishes, and among them selves abbac abbatum, or the abbot of abbots; and others assumed the title of cardinal-abbots.

Abbotts, however, are chiefly distinguished, at present, into regular and commendatory; the former being real monks or religious, and the latter only seculars or lay-men. Thefe last, notwithstanding that the term commendam seems to signify the contrary, have the perpetual enjoyment of the fruits of their abbeys.

Antiently the ceremony of creating an abbot consisted in cloathing him with the habit called cuculla, or cowl; putting the pastoral staff into his hand, and the shoes called pedales, on his feet; but at present, it is only a simple benediction, improperly called, by force, consecration.

Abbess is also a title given to others beside the superiors of monasteries; thus bishops, whose sees were formerly abbeys, are called abbots; as are the superiors of some congregations of regular canons, particularly that of St. Genevieve at Paris: and among the Genevoe, the chief magistrate of their republic formerly bore the title of abbott of the people. It was likewise usual, about the time of Charlemagne, for several lands to assume the title of count-abbots, abbe-comites; and that for no other reason, but because the super-intendency of certain abbeys was committed to them.

ABBREVIATION, the fame with abbreviature. See ABBREVIATION.

ABBREVIATOR, in a general knowne, one who abridges, or reducts a long writing into narrow bounds.

ABBREVIATORS, in the chancery of Rome, officers whose business, according to Champini, is to draw up the pope's briefs, and reduce the petitions granted by the pontiff into proper form.

The abbreviators constitute a college of seventy-two persons, divided into two parks, or ranks; the one called abbreviators de parco major, who are twelve in number, and all prelates; the other abbreviators de parco minor, called also examinatores, who may be all lay-men.

ABBREVIATURE, or ABBREVIATION, properly signifies the substitution of a syllable or letter for a whole word; thus M. stands for manipulus, a handful; and Cong. for congius, a gallon.

ABBREVIATION, in a less proper sense, is used for any mark or character. See Character.

ABBRUEVOIR, in masonry, certain indentures made with a hammer, in the joints and beds of stones, in order that the mason being received into these, may bind them the firmer together.

ABROCHMENT, the fame with abbreviation. See ABRATION.

ABUTTALS, the fame with abuttals. See ABUTTALS.

ABCAS, or ABCasses, a people or country of Asia, situated between Circasia, the Black-Sea and Mingrelia.

ABCEDARY, ABCEDARIAN, or ABBEDARIAN, an epithet given to compositions, the parts of which are disposed in the order of the letters of the alphabet; thus, we say abecedarian psalms, lamentations, hymns, &c.

ABDALS, in the asiacal customes, a kind of furious enthusiasts, whose madness makes them frequently run about the streets, and kill all they meet of a different religion from what they profess; this our tailors call running a muck.

ABDELAVI, a name used among arabian writers for the egyptian melon. See MELON.

ABDEST, among Mahometans, a kind of washimg, or lutton, practised both by Turks and Persians, before prayer, entering the mosque, or reading the acool.

ABDIARA, in geography, a kingdom of Asia, dependent on that of Pegu. See PEGU.

ABDICARIAN proposition, abdicatio proposition, in logic, the same with a negative one. See PROPOSITION.

ABDICATION, abdicatio, the act of a magistrate, who gives up, or devotes himself
The cavity of the abdomen is of an irregularly oval figure, but still symmetrical. On the foreside, it is uniformly arched or oval, and its greatest capacity is about the navel. On the upper side, it is bounded by a portion of a vault, very much inclined. On the back side, it is in a manner divided into two cavities, by the jetting out of the vertebræ of the loins. On the lower side, it contains all the way to the edge of the pelvis, and from thence expands again a little, as far as the os coccygis, and the tubercles of the ilium; terminating in the void space between these three parts.

It is remarkable of the skin of the abdomen, that it may be naturally increased very much in breadth, without losing any thing considerable of its thickness, as is the case in the natural states of corpulency and pregnancy.

Dissections of the ABDOMEN are chiefly inflammations, abscesses, indurations, inflations, spains, &c. See INFLAMMATION, &c.

Wounds of the ABDOMEN. These either only affect the common integuments and muscles, or they likewise penetrate into the abdomen. Now it is easy to examine whether this last be the case, by the eye, by a probe or finger, or by injecting warm water into the wound. If the water meets with no obstruc tion, the wound certainly penetrates; but if it is thrown back, and the probe cannot enter, you may conclude the wound has not penetrated into the cavity of the abdomen.

Wounds which do not penetrate into the cavity are of two sorts; for either the common integuments only are hurt, or the muscles also of the abdomen are divided, as far as the peritoneum. Wounds of the first kind are easily cured, but those of the latter class are extremely dangerous, because the intestines are apt to fall thro’ the wound. Hence the future becomes necessary to keep the gaping lips of the wound together; after which the wound is to be dressed with vulnerary balsams, and a sticking plaster: rest and abstinence must likewise be enjoined the patient, and his bowels kept open by an emollient clyster.

If the wound be found to penetrate, the surgeon ought to examine carefully whether any of the intestines be hurt; which he may conclude is not the case, when there is no great degree of weakness, hemorrhage, pain, fever, &c; if when the patient is laid on the wounded side, there is no discharge of chyle, gall, excrements, or urine,
urine; if milk be injected warm, and return without any alteration of its colour; if the instrument was not very sharp; and, lastly, if there is no vomiting nor discharge of blood by the mouth, stool, or urine, nor any swelling and hardness of the belly. 

Heifer.

ABDUCENT, abducens, in anatomy, the name with abductor. See Abductor.

ABDUCTION, in logic, a form of reasoning, called by the Greeks apagogje; wherein, from a certain or undeniable proposition, we infer the truth of something supposed to be contained in that proposition: thus in this syllogism,

Whatever God has revealed is certainly true:

Now, God has revealed the mysteries of the incarnation and trinity:

Therefore, these mysteries are certainly true.

In arguments of this kind, it is always necessary to prove the minor proposition to be contained in the major, or undeniable one, otherwise the reasoning loses all its force.

ABDUCTION, in surgery, a kind of fracture, wherein the bone being entirely broken near a joint, the two frumps recede considerably from each other. See Fracture.

ABDUCTOR, or ABDUCENT, in anatomy, a name given to several muscles on account of their serving to withdraw, open, or pull back the parts to which they are fixed.

Of this kind are the abductor curricularis, or of the little-finger; the abductor indicis, or of the fore-finger; the abductor laborum, called alsolevator and elevato; the abductor minimi digitii pedis, or of the little toe; the abductor pollicis, or of the eye; the abductor ofis, metacarpal-pi digitii minimi, or metacarpal abductor; the abductor pollicis longus, called also extensor primus pollicis; and lastly, the abductor pollicis pedis, or of the great-toe. See Finger, Thumb, Toe, &c.

ABEEDARIAN, the name with abedian. See ABEEDARY.

ABEIANCE, in law, the name with abeyance. See Abeyance.

ABEL-TREE, or ABELL-TREE, a name given to the white poplar with large leaves. See Poplar.

ABELIANS, the name with abelionians. See Abelionians.

ABELMOSCH, or ABELMUSCH, the name of the Egyptian Ketmia, with perfumed seeds, called by us Musk-Seed. See the articles Ketmia and Musk-Seed.

ABELONIANS. See the next article.

ABELONIANS, in church-history, a sect of heretics, called also abelians and abelotes, whose distinguishing doctrine was to marry, and yet live in profesed abstinence; a tenet, which, according to some authors, they founded on that text, 1 Cor. vii. 29. Let them that have wives be as though they had none.

ABENBROG, or ABENSGRE, a small town of Bavaria, situated on the river Amsœ, near the Danube; its E. longitude being 11° 50', and its N. latitude 48° 44'.

ABERBROTHOCK, one of the royal boroughs of Scotland, situated in the county of Angus, about forty miles N. of Edinburgh; its W. longitude being 2° 20', and N. latitude 56° 30'.

ABERCONWAY, a town in Wales. See Conway.

ABERDEEN, the name of two cities in Scotland, situated on the German Ocean, in 1° 43' W. longitude, and 57° 11' or 12° N. lat. and called the old and new towns; the former of which was the bishop's fee, standing on the southern bank of the river Don; and the latter, which is one of the royal boroughs, and a town of considerable trade, on the northern bank of the river Dee: so that, properly speaking, the new town only should be called Aberdeen, and the old town Aberdon; aber signifying the mouth or conflux of rivers. There is an university in both towns; that in the old one being called the King's-college; and the other, in the new town, the Marhal's or Earl-Marshals college.

ABERMURDER, Abermurdram, in our old law books, murder proved in a judiciary way. Abermurther was a crime that could not be atoned for with money, as most others might.

ABERCAVETY, a town of Monmouthshire, situated fourteen miles west of Monmouth, in 3° 12' W. longitude and 51° 50'. N. latitude.

ABERRATION, in optics, a deviation of the rays of light, when reflected, whereby they are prevented from meeting in the same point.

Aberrations are of two kinds, one arising from the figure of the reflecting body,
ABIES, ABIB, ABHEL, ABEYANCE, ABEIANCE, or ABBAY-
ABEX, ABEVACUATION, ABEST

1am, &c. pitch, for the curvy.
the pine.
are
See

Rosin, tar, common pitch, burgundy to which it is to be added, that
of monoecious trees, the
month of their ecclefia
tical year. It was
from the
fee-fimple of all
lands afterwards called nifan, and anfwered
given to favin.

ing his church is
deemed

See ASBESTUS.

An abettor, according as he· is prefent or
murder is
is punifhable as a principal or

See CERUSS.

ABJURATION, in law, is used for re-
nouncing, disclaiming, and denying the
pretender to have any manner of right to
the throne of thefe kingdoms; and
pretended upon oath, which is required to be taken
penalties by many
laws, particularly

ABJURATION of herefy, the feœminal recan-
tation of fonie doctrine, as wicked and
falls.

ABLAC, or ABLACH, a small river of
Swabia, which falls into the Danube not
far from Furtenberg.

ABLACTATION, ablactatio, the wean-
ing a child from the breast. See the ar-
cicle Weaning.

ABLACTATION, among the ancient gar-
deners, the fame with what is now called
grafting by approach. See the article Graffing.
ABLAI, a country of Great-Tartary, the inhabitants of which, called Buchars or Buchares, are subject to Russia, but that only for protection. It lies eaitward of the river Iris, and extends five hundred leagues along the southern frontiers of Siberia.

ABLIS, a small town of France, lying south-east from Chartres, and distant about eight leagues from Beaucaire.

ABLAQUEATION, in the agriculture of the antients, an operation called bearing of trees by our gardeners. See Baring.

ABLATIVE, ablativeus, in latin grammar, the name of the sixth case, which is peculiar to that language. See Case. The ablative is opposed to the dative; the latter expressing the action of giving and the former that of taking away: thus, ablatum effi a me, it was taken from me. It is sometimes called the comparative case, as being much used in comparing things together: thus, dulcior melle, sweeter than honey.

ABLATIVE absolute, among latin grammarians, is much the same with what in English is called a parenthesis, as, juvante Deo, with God's assistance. It is called absolute, because governed by no other word.

ABLECTI, in roman antiquity, a select body of soldiers, chosen from among those called extraordinarii. See Extraordinary.

ABLEGMINA, in roman antiquity, choice parts of the entrails of victims, called also proficia, porcia, profedia, and profegmina. The ablégmina were sprinkled with flour, and burnt on the altar; the priests pouring some wine on them.

ABLET, or ALEN, a name sometimes given to the alburnum, or common bleak, a small fresh-water fish. See Bleak.

ABLEUENTS, in medicine, diluting medicines, or such as diffuse and carry off acrimonious and stimulating fluids, in any part of the body, especially the stomach and intestines.

ABLUTION, in a general sense, signifies the washing or purifying something with water.

ABLUTION, in a religious sense, a ceremony in use among the antients, and still practised by the Mahometans: it consisted in washing the body, which was always done before sacrificing, or even entering their temples. This custom was probably derived from the Jews.

ABLUTION, in the church of Rome, a small quantity of wine and water, which the communicants formerly took to wash down, and promote the digestion of the host. They also use this term for the water, with which the priest washes his hands after consecrating the host.

ABLUTION, among chemists and apothecaries, is used for washing away the superabundant salts of any body; an operation otherwise called edulcoration. See Edulcoration.

ABLUTION, among physicians, is used either for washing the external parts of the body by baths; or deterring the bowels by thin diluting fluids, as water-gruel, whey, &c.

Frequent ablutions with warm water are said to dispoze the body to putrid diseases, by relaxing its fibres; which is thought to be one reason, why the plague is so frequent in the turkish dominions; the mahometan religion enjoining constant ablutions.

ABO, a city of Sweden, and capital of the province of Finland: it is situated in E. longitude 21° 30’. and N. latitude 60° 30’ at the mouth of the river Aurojoki, on the Bothnic gulf, about two hundred and forty miles N. E. of Stockholm.

ABOIT, a term used by some for Cerus. See Ceruss.

ABOLISHING, the fame with abolition. See the next article.

ABOLITION, in a general sense, is used for destroying, or utterly eradicating something.

ABOLITION, in law, denotes the repealing any law or statute, and prohibiting some custom, ceremony, &c: sometimes also it signifies leave granted by the king, or a judge, to a criminal accused to forbear any farther prosecution.

ABOLITION is also used by ancient civilians and lawyers, for defiling from, or annulling, a legal prosecution; for remitting the punishment of a crime; and for cancelling or discharging a public debt.

ABOLLA, a military garment, worn by the greek and roman soldiers: it was lined, or doubled, for warmness.

ABOMASUS, ABOMASUM, or ABOMASUS, in comparative anatomy, names used for the fourth stomach of ruminating beasts, or such as chew the cud. These have four stomachs, the first of which is called rumen; the second, rictulum; the third, omasus; and the fourth, abomasus.
It is in the abomasus of calves and lambs that the runnet is found, used for curdling milk. See Milk and Runnet.

Aborigenes, in geography, a name given to the original or first inhabitants of any country; but more particularly used for the ancient inhabitants of Latium, when Æneas with his Trojans came into Italy.

Abortion, in medicine, an untimely or premature birth of a foetus, otherwise called a miscarriage; but if this happen before the second month of pregnancy, it is only called a false conception. See Conception and Birth.

Abortion, which is always a danger to the mind, stimulating medicines: such are nitrous fyrup of myrtle, an ounce; solid laudanum, three grains; and plantain-water, six ounces: mix all together, and let the patient take half an ounce of it every quarter of an hour.

Abortion is also used for a foetus, which, dying in the womb, continues there beyond the usual time of gestation.

Abortion, among gardeners, signifies such fruits as are produced too early, and never arrive at maturity.

Abortive, in a general sense, a term used for any thing which comes before its due time, or a design which miscarries.

Abortive is, more particularly, used for any thing relating to an abortion, in which sense we say, an abortive flux, abortive velom, &c. See the articles Flux and Velom.

Aboy, a small town of Ireland, in the province of Leinster.

Abra, a silver coin of Poland, nearly equivalent to the English shilling. See Coin.

The abra is current through all the dominions of the grand signior, where it palms for a fourth part of the Dutch dollar, called aliani in the Levant.

Abracadabra, a spell or charm, worn about the neck as an amulet against several dæmons, particularly the ague. See Amulet, Charm, &c.
However, in order to give it the more virtue, it was to be written as many times as the word contains letters, omitting always the last letter of the former: thus,

ABRACADABRA
ABRACADABR
ABRACADAB
ABRACADA
ABRACAD
ABRACA
ABRA
ABR
AB
A

The whole makes a kind of inverted cone, which has this property, that beginning at the apex, and ascending from the left to the right, the letters always form the same word.

According to Julius Africanus, the pronouncing the word in the same manner, will do as well.

ABRAHAM’S Balm, in botany, a name given to hemp. See Hemp.

ABRAHAMIANS, or ABRAHAMITES, in church-history, heretics who renewed the errors of the Paulicians; a sect, who, to the doctrines of the Manichees, added an abhorrence of the cross, which they were said to have employed in most servile offices, out of mere delight.

ABRAHAMITES is also used for another sect, who suffered death for the worship of images.

ABRAMIS, in ichthyology, a name sometimes given to the common bream. See Bream.

ABRASION, in medicine, the corroding or wearing of the integuments, by sharp and acrimonious humour, or medicines. To remedy this evil, emollient and obtunding medicines are recommended. See Emollients.

ABRAUM, in natural history, a name by which some call adamic earth, a kind of clay. See Earth.

ABRAXAS, a term sometimes used as synonymous with abracadabra. See Abracadabra.

ABRAXAS, in church-history, a mythical term expressing the supreme God, under whom the Babylonians supposed 365 dependent deities.

It was the principle of the gnostic hierarchy, whence sprang their multitude of eons. From abraxas proceeded the primigenial mind; from the primigenial mind, the logos, or word; from the logos, the phronesis, or prudence; from phronesis, sophia and dynamis, or wisdom and strength; from these two proceeded principalities, powers, and angels; from these other angels, to the number of 365, who were supposed to have the government of so many celestial orbs committed to their care.

ABRAXAS, among antiquaries, an antique gem or stone, with the word abraxas engraved on it. There are a great many kinds of them, of various figures and sizes, mostly as old as the third century.

ABRENNUINATION, a term of the same import with renunciation. See the article Renunciation.

ABREVIATION. See the article Abreviation.

ABREUVOR, in masonry. See Abrevuoir.

ABRIDGING, the shortening, epitomizing, or contracting any book, matter, or thing.

ABRIDGING, in algebra, is the reducing a compound equation to a more simple form. See Equation.

ABRIDGMENT, in literary history, signifies much the same with an epitome, or abract of a large work. See Epitome. The perfection of an abridgment consists in taking only what is material and substantial, and rejecting all superfluities, whether of sentiment or style; in which light, abridgments must be allowed to be useful performances.

Abridgments are a very numerous kind of books: we have abridgments of the common law, of the statutes, of the philosophical transactions, of Locke on the human understanding, &c.

ABRIDGMENT, in law, the shortening a count or declaration: thus, in affize, a man is said to abridge his plaint, and a woman her demand in action of dower, if any land is put therein, which is not in the tenure of the defendant; for on a plea of non-tenure, in abatement of the writ, the plaintiff may leave out those lands, and pray that the tenant may answer to the remainder. The reason is, that these writs run in general, and therefore shall be good for the rest.

ABROBANIA, a town and district of Transylvania. See Abruckbania.

ABROCHMENT, or Abrochment, abrochamentum, in our old law-books, the same with foreshalling. See Fore-stalling.

ABROCHUS, the same with abrokus. See Abrokus.
ABROGATION, abrogatio, signifies the totally repealing and abolishing a law, in which sense it differs from derogation, abrogation, &c. See DEROGATION, &c. There may be a great many reasons for abrogating a law, as the inconvenience and bad consequences arising from it, an alteration of circumstances, a change in the face of affairs, &c. which may make the repealing it absolutely necessary.

ABROKUS, in botany, a name by which some call wild oats, and others the vetch.

ABROLHOS, a name sometimes used for a kind of coral, called by botanists porus. See SOUTHERN-WOOD, MUG-WORT, &c.

ABROTANUM, Southern-wood, in botany, a genus of plants differing only in hydrography, dangerous shelves, or banks of sand, near the island of St. Barbe, and about twenty leagues from the coast of Brazil. ABRON, a river of France, which falls into the Loire, not far from Nevers. ABRUGI, a name sometimes applied to worm-wood in external appearance. It is one of the kind of plants differing only in the materia medica, a genus of plants differing only in the artemisias Linneus, who comprehends both it and worm-wood among theartemisias, or mug-worts. See SOUTHERN-WOOD, MUG-WORT, &c.

Female ABROTANUM, a name by which some call Santolina. See SANTOLINA.

ABRUGI, in botany, a name by which some call the heart-peas. See the article Peas.

ABRUPTION, in surgery, the same with abrasion. See ABDUCTION.

ABRUS, in the materia medica, a kind of kidney-beans, otherwise called angol-seeds. See SANTOLINA.

ABRUZZO, in geography, the name of two provinces of the K. of Naples, both lying on the gulph of Venice, and called the farther and nearer Abruzzo in regard to the city of Naples. The farther Abruzzo, is bounded on the west by the pope’s territories, and separated from the nearer Abruzzo by the river of Pefcara.

ABSCESS, in medicine and surgery, an inflammatory tumour, containing purulent matter, pent up in a fleshly part. An abscess is synonymous with alopem, impotheum, and impotheum:ton; and is always the effect of an inflammation, which frequently may be diffused without coming to a suppuration, or before an abscess is formed. See INFLAMMATION.

When the tumour of an inflammation increases, together with the pain, heat, and pulsation depending thereon, and these symptoms continue three days, all applications tending to resolve the tumour, are to be left off; instead of which, the surgeon ought to forward the suppuration, by applying emollient and maturing medicines to the part affected. Fats, oils, and gluttonous substances answer this purpose, by obliterating the pores of the skin. There are also a variety of herbs, fruits, seeds, roots, gums, and meals, which, if made into pultices, answer the same end. The most noted of these are galbanum, sagarumen, ammoniacum, bdellium, opopanax, among the gums: these must be dissolved in yolks of eggs, and some yest added. Marshmallows, linseed, fœngreek-seed, figs, onions, &c. made into a pultice, with butter, yest, and honey, and often applied to the part hot, are accounted excellent for ripening abscesses, which is known to be the cafe, by the flatness and whiteness of the tumours. When the abscess is well digested, it should be opened with a scalpel in the part dependent, and the matter may have the free exit. If the abscess be large, the scalp is not to be taken out immediately, but the incision farther enlarged. Thus, the putrid matter is to be let out, and, when glutinous, gently pressed forth with the hands. In making the incision, great care must be taken not to cut the large blood vessels, nerves, and tendons. As to the rest of the cure, it consists in thoroughly cleansing, and then healing the ulcer, with mundificative and balsamic medicines. See the article Ulcer.

For abscesses in the brain, liver, spleen, lungs, &c. See the articles BRAIN, LIVER, &c.

ABSCESS, in farriery, is a purulent tumour incident to several animals, as horses, sheep, poultry, &c. In horses, a cataplasm, or pultice, of lime, reduced to a fine powder, and mixed with wine and oil in equal quantities, ought to be applied to the part affected; or one of wheat-flour, steeped in vinegar, with half an ounce of manna, may be used in its stead.

In sheep, the way is to open the tumour, in what part soever it is found, and after letting out the matter, to pour into the wound some melted pitch, and burn it powdered,
In poultry, they open the absces with a pair of scissors, pricking out the corruption with their fingers; and then give them lettuce chopped small, and mixed with bran steeped in water, and sweetened with honey, to eat.

ABSCHARON, or APSCHARON, a town of Asia, situated on the western shore of the Caspian sea.

ABSCISSA, abscissa, in conic sections, the part AP of the diameter of a curve line, intercepted between the vertex A of that diameter, and the point P, where any ordinate or semiordinate, MP, to that diameter, falls. See plate II, fig. 4.

From this definition it is evident, that there are an infinite number of variable abscisses in the same curve, as well as an infinite number of ordinates.

In the parabola, one ordinate has but one abscissa; in an ellipse, it has two; in a hyperbola, consisting of two parts, it has also two; and in curves of the second and third order, it may have three and four.

ABSCISSION, abscissa, in rhetoric, a figure of speech, whereby the speaker stops short in the middle of his discourse: e.g. one of her age and beauty, to be seen alone, at such an hour, with a man of his character. I need say no more.

ABSCISION, in surgery, is sometimes used for amputation, but more properly for cutting off some part of the body, when become any wife hurtful: thus we say the abscission of the prepuce, of a lip, &c.

ABSENCE, among lawyers. See PRESENCE.

ABSINTHIATED medicines, those impregnated with the virtues of absinthium, or worm-wood: thus we say absintihated wine, absintihated ale, absintihated water, &c. See the next article.

ABSINTHIUM, WORM-WOOD, in botany; a genus of plants comprehended by Linnaeus among the Artemisia, or mug-worts. See the article Mug-wort. See also plate II, fig. 1, which represents the flower and seeds of worm-wood.

Worm-wood is greatly recommended for its medicinal virtues: it strengthens the stomach, removes obstructions of the liver and spleen, creates an appetite and destroys worms. It is also used in many other intentions, for which see the article WORM-WOOD.

ABSINTHIUM is also used by some authors, as the name of the low, or dwarf ptarmica, with leaves resembling those of worm-wood; as also for a species of chamomile. See the article PTARMICA, &c.

ABSIS, in astronomy, the same with apsis. See APSIS.

ABSO LUTE, in a general sense, denotes something which is unconnected with, or independent on others.

Among metaphysicians, an absolute being is one whole existence depends on no external cause, or that exists by a necessity of its own nature.

Absolute is also an epithet applied to things which are free from limitations or conditions: thus we say, an absolute decree, absolute promise, &c. See DECREE, PROMISE, &c.

ABSOLUTELY, in a general sense, that quality or manner of acting whereby a person, action, or thing is denominated absolute.

ABSOLUTELY, among divines, is used for completely, or with full power and effect, independently of any thing else: thus Catholics hold, that the priest forgives sins absolutely; whereas protestant divines do it only declaratively.

ABSOLUTELY, in geometry, signifies entirely or perfectly: thus, absolutely round is the same as perfectly round.

ABSOLUTION, in a general sense, the act of forgiving, pardoning, or releasing.

ABSOLUTION, among civils, is used for a definitive sentence, declaring the accused person innocent; and releasing him from all farther prosecution.

ABSOLUTION, among catholics, a power assumed by the priests to forgive sins absolutely, that is, by virtue of a power inherent in themselves. By flat. 23 Eliz. to procure absolutions from Rome is declared to be high treason.

Protestant divines pretend to no such power, but only declare the scripture terms of pardon.

ABSOLUTION, in the presbyterian church, is chiefly used for a sentence of the church-judicatories, relacing a man from excommunication, and receiving him again into communion.

ABSOLUTIO AD CAUTELAM, is a provisional absolution, granted to a person who has appealed from a sentence of excommunication.

ABSOLUTIO A JURIS, in the roman chancery, is the taking off a suspension or censure, incurred by some of their clergy.

ABSOLUTISM, in matters of theology, a doctrine charged on the calvinists, whereby God is supposed to act from more
Fig. 1. Absinthium, or Wormwood.

Fig. 2. Abutilon.

Fig. 3. Acacia.

Fig. 4. Abscisse.
ABSORBS

ABSORBENTS, in the materia medica, medicines proper for cleansing the body from concretions and other impurities, not to be effected by simple abluents. Abstergents are of a sapopionate nature, and therefore very different from mere abluents, tho' Caelinus represents them as the same.

ABSTINENCE, absteniæa, the abstaining or refraining from certain enjoyments; but more especially, from excessive eating and drinking; thus the Jews were obliged, by the law of Moses, to abstain from their wives on certain occasions; and it has always been a practice, to abstain from a luxurious diet at stated times, as well out of a religious view, as to confirm and preserve health. See Fast and Fasting.

Abstinence is highly extolled by some physicians, and that juftly, when no more is meant by it but a proper regimen: but it must have bad consequences, when indulged without a due regard to the constitution, age, strength, &c. of the person who practises it.

ABSTINENTES, in church-history, a sect of antient heretics, who carried abstinence and mortification to an excessive length.

ABSTRACT idea, among logicians, the idea of some general quality or property considered simply in itself, without any respect to a particular subject: thus, magnitude, equity, &c. are abstract ideas, when we confider them as detached from any particular body or person.

It is generally allowed, that there are no objects in nature corresponding to abstract ideas: nay, some philosophers, and particularly the late lord Bolingbroke, dispute the existence of abstract ideas themselves, thinking it impossible for the human mind to form any such.

Abstract ideas are the fame with those called universal ones, and the manner of forming them, according to modern philosophers, is this: we readily observe a resemblance among some of our particular ideas, and thereby get a general notion applicable to many individuals. Thus, horses are found to resemble each other in shape, voice, and the general configuration of their parts. Now, the idea which takes in this resemblance, excluding what is peculiar to each individual, becomes of course common to this whole family or class of animals, and is therefore called a general, universal,
ABSTRACTION, in logics, a general view, or analysis, of some large work; in which sense, it differs from an abridgment only as being shorter, and its entering less minutely into particulars; and from an extract, as this last is only a particular view of some part or passage of it.

ABSTRACiON, in chemistry, the evaporating or drawing off a menstruum from the subject it had been put to dissolve. Some also use the word abstraction, as synonymous with distillation and cohabitation.

ABSTRACTIIOUS, or ABSTRACTIVE, a term used by some chemists for a spirit drawn from vegetables, without fermentation.

ABSTRACT, as counter to a manifest truth, or to the received opinions of mankind: thus, it would be absurd to affirm, that twelve inches are not equal to a foot: when applied to actions, absurd is synonymous with ridiculous. See RIDICULOUS and RIDICULE.

ABSTRACT, in matters of literature, a concise but general view, or analysis, of some large work; in which sense, it differs from an abridgment only as being shorter, and its entering less minutely into particulars; and from an extract, as this last is only a particular view of some part or passage of it.

ABSTRACTION, in logics, that operation of the mind whereby it forms abstract ideas. See ABSTRACT, supra.

According to the celebrated Mr. Locke, abstraction is performed three ways:

First, when the mind considers any one part of a thing by itself, without attending to the whole, as the arm, leg, &c. of a man's body. Secondly, by considering the mode of a substance, without taking in the idea of the substance itself: thus, geometers consider the properties of lines, or the length of bodies, without attending to their breadth or depth. Thirdly, by generalizing our ideas in the manner mentioned under abstract idea.

This doctrine, however, of abstraction, is denied by the late Bishop of Cloyne, who owns that he can imagine a man with two heads, or the upper part of a man joined to the body of a horse: nay, adds he, I can consider the hand, the eye, the nose, each by itself, abstracted or separate from the rest of the body, but then whatever hand or eye I imagine, it must have some particular shape and colour; likewise the idea of a man that I frame to myself, must be either of a white or a black, or a tawney, a straight or a crooked, a tall or a low or a middle sized man. Neither can I, by any effort of thought, conceive an absolutely abstracted idea, of motion for instance, distinct from the body moving, and which is neither swift nor slow, curvilinear, nor rectilinear; and the like may be said of all abstract ideas whatever.

ABSTRACTION, in chemistry, the evaporating or drawing off a menstruum from the subject it had been put to dissolve. Some also use the word abstraction, as synonymous with distillation and cohabitation.

ABSTRACTIIOUS, or ABSTRACTIVE, a term used by some chemists for a spirit drawn from vegetables, without fermentation.

ABSTRACT, as counter to a manifest truth, or to the received opinions of mankind: thus, it would be absurd to affirm, that twelve inches are not equal to a foot: when applied to actions, absurd is synonymous with ridiculous. See RIDICULOUS and RIDICULE.

There is an argument, called redactio ad absurdum; which proves a thing to be true, by shewing the absurdity of the contrary supposition.

ABSPURDITY, that imperfection whereby any thing may be denounced absurd. See ABSPURD.

ABSPHINTHUM, the same with absinthium. See ABSPINTH.

ABUCCO, ABBCCO, or ABOCCHI, a weight used in the kingdom of Pegu, equal to twelve teccalis and a half. Two abuccos make an agiro, or giro; two giri make half a biza, which weighs 100 heccalis, that is to say 2 pounds 5 ounces the heavy weight, or 3 pounds 9 ounces light weight of Venice. See WEIGHT.

ABUIA, one of the Philippine islands. See PHILIPPINE.

ABUKESQ., in commerce, the same with sfilani. See ASLANI.

ABUNA, in church-history, the title given to the archbishop or metropolitan of Abyssinia.

ABUNDANT numbers, those whose parts added together make more than the whole number: thus the parts of 20, make 22 viz. 1, 2, 4, 5, 10.

ABUSAN, an island on the coast of Africa, situated in 35° 35'. N. lat. and dependent on the province of Garret, in the kingdom of Fez.

ABUSE, in a general sense, the perverting something from its true design, purpose, or intention.

ABUSE of words, is the using them without any clear and distinct ideas, or without any idea at all.
ACALIS, in the materia medica, a

CACALOTL, the boundaries of a piece

ABYSS, a town of upper Egypt, famous for producing the very best kind of opium.

ABUTTALS, the boundaries of a piece of land.

ABUTILON, in botany, a genus of plants, the flower of which resembles that of the mallow, but the fruit is a kind of head composed of several bivalve capsules: these are affixed to an axis, and usually contain kidney-shaped seeds. See Plate II. fig. 2.

The abutilon is diuretic and vulnerary; its leaves, applied to ulcers and sores, serve to cleanse them; and its seeds taken inwardly, promote urine, and expel the gravel.

ABUTTALS, in antiquity, a name given to the temple of Proserpine.

ABYSS, more particularly, denotes a vast cavern or hollow receptacle, in the center of the earth, filled with water; the existence of which has been disputed by some, and defended by other naturalists. To it has been attributed the origin of springs, the level maintained in the same, and defended by other naturalists.

ABYSS, among alchemists, is used by some for the immediate receptacle of the seminal matter, and by others for the matter itself.

ABYSS, in a metaphorical sense, is applied to any thing that is ineruptible, or incomprehensible: thus, the judgments of God are called a great abyss.

ABYSSINIA, a large empire of Africa, otherwise called Ethiopia. See ETHIOPIA.

ABYSSINIAN church, that established in the empire of Abyssinia: it makes only a branch of the Copts or Jacobites, a sect of heretics who admit only one nature in Jesus Christ. See COPHT.

ACALIS, in the materia medica, a name sometimes given to the wild carob. See CAROB.

ACACALOTL, in ornithology, the bra-

filian name of a bird, called by authors corvus aquaticus, or the water-raven. See CORVUS.

ACACIA, in botany, a genus of trees, the flower of which consists of only one infundibuliform leaf, containing a number of flamina: the flowers are usually collected in clusters or little heads. The pistil arises from the bottom of the flower, and at length becomes a flat pod, five or six inches long, and divided into several hollow partitions, containing a number of roundish seeds. See Plate II. fig. 3.

There are a great many species of acacia, all which may be propagated with us on hot beds. They belong to the polyandria class of Linnaeus, and are cultivated by the Chinese for the sake of their flowers: these they use in dying that beautiful yellow, which we find bears washing in their silks and stuffs.

ACACIA, in the materia medica of the ancients, a gum made from the Egyptian acacia-tree, and thought to be the same with our gum-arabic. The gum called fengel, is also the produce of a species of acacia. See ARABIC and SENGA. L

ACACIA GERMANICA, an insipid juice, made of wild flees, hardly ripe. The true acacia is said to be very scarce in the shops, where the German acacia is used in its stead, both being powerful astringents, and consequently good in haemorrhages, and all kinds of fluxes.

ACACIA, Akakia, in antiquity, a roll or bag represented on the medals of the Greek and Roman emperors: some think it is only a handkerchief, which they used as a signal; others take it for a volume, or roll of memorandums or petitions; and finally, others will have it to be a purple bag filled with earth, to remind the prince of his mortality.

ACACIANS, accaciæ, in church-history, the name of several sects of heretics; some of whom maintained that the son was only of a like, not the same substance with the father; and others, that he was not of a distinct, but also of a dissimilar substance.

ACADEMIC, or ACADEMICIAN, the name with academic. See ACADEMIST.

ACADEMICS is more particularly used for a sect of ancient philosophers, who
who maintained that all things were uncertain, and consequently that men ought to doubt of every thing. They even went so far, as to doubt whether or not they ought to doubt; it being a received maxim among them, *se nil fere, ne hoc quidem, quod nihil fieri.*

Of this sect, Socrates and Plato were the founders. Cicero, who was an academic philosopher himself, gives a more favourable account of them. He tells us, that all the difference between the academics, and those who imagined themselves possessed of the knowledge of things, consisted in this: that the latter were fully persuaded of the truth of their opinions; whereas the former held many things to be only probable, which might very well serve to regulate their conduct, though they could not positively affirm the certainty of them. In this, says he, we have greatly the advantage of the dogmatists, as being more disengaged, more unbiased, and at full liberty to determine as our judgment shall direct. But the generality of mankind, I know not how, are fond of error; and choose rather to defend, with the utmost obstinacy, the opinion they have once embraced, than with candour and impartiality, examine which sentiments are most agreeable to truth. Academ. II. 3.

This passage alone, if there were no other proof, is a sufficient vindication of the academics from the charge of pyrrhonism. See Pyrrhonism.

ACADEMIST, ACADEMIC, or ACADEMICIAN, a member of a modern academy.

ACADEMY, in grecian antiquity, a large villa in one of the suburbs of Athens, where the sect of philosophers called academicians held their assemblies. It took its name from one Academus or Ecademy, a citizen of Athens; as our modern academies take theirs from it.

ACADEMY was also used metaphorically, to denote the sect of academic philosophers. See Academies.

ACADEMY, in a modern sense, signifies a society of learned men, established for the improvement of arts or sciences. Hence, Academies of antiquity, are those designed for the illustration of whatever regards antiquity, as medals, coins, inscriptions, &c.

There are several academies of this kind in different parts of the world, as at Upsal in Sweden, at Cortona in Tuscany, at Paris, and at London; these two last are called the academy of inscriptions and belle letters, and the antiquarian society. See Antiquity.

Academies of architecture. See Academies of painter, infra.

Academies of belle letters, those chiefly designed for the cultivation of eloquence and poetry. Besides the academy of belle letters at Paris, and one at Caen, there are several in Italy, viz. one at Florence, and two at Rome.

Chirurgical Academies, those established for the improvement of surgery: such is that lately instituted at Paris.

Cosmographical Academies, those which make geography and astronomy the chief objects of their researches: such is that called the argonauts, at Venice.

Academies of dancing. Of this kind there was once instituted by Lewis XIV, with ample privileges.

Ecclesiastical Academies, those which employ their studies in illustrating the doctrines, discipline, ceremonies, &c. that obtained in each age of the church: such is that of Bologna.

Historical Academies, those erected for the improvement of history: such are those at Lisbon and Tubingen.

Academy of inscriptions, &c. See Academies of antiquities, supra.

Academies of languages, those established in many parts of Europe, for refining and ascertaining the language of each country; thus the Paris academy is designed to illustrate and polish the French; that of Madrid, the Spanish or castilian, &c. But besides these, there are others in Italy, Germany, &c.

Academies of Law: such are those of Bologna and Beryta.

Medical Academies, those instituted with a view to promote medical knowledge and improvements: such is that of the natura curioforum, in Germany, and those of Venice, Geneva, Palermo, &c. to which some add the colleges of physicians at London and Edinburgh.

Musical Academies. These are frequent in most parts of Europe, but more especially in France and Italy.

Academies of painting, sculpture, and architecture. There is one of these at Paris, and another at Rome.

Academies of sciences, those chiefly designed for the improvement of natural history and mathematics, with their numerous branches, botany, chemistry, mechanics, astronomy, geography, &c. These are the most numerous of all others, but
ACAMBOU, a kingdom of Africa, on the coast of Guinea. See Guinea.

ACANACEOUS Plants, among botanists, those which are prickly, and bear their flowers and seeds on a kind of heads.

ACANES, in geography. See AKANIS.

ACANGIS, in the Turkish military affairs, the name of their light-armed horse.

ACANOPHORA, a name sometimes used for the common jaca, or knapweed. See JACEA and Knapweed.

ACANTHA, among botanists, a name given to the prickles of thorny plants. See THORN.

ACANTHA is also used by zoologists for the spines of certain fishes, as those of the echinus marinus, &c. See ACANTHIS.

ACANTHA is also a term used by some anatomists for the protruberances of the back bone, otherwise called Spina dorsi. See Spina.

ACANTHABOLUS, in surgery, a kind of forceps, or instrument for pulling out thorns and other sharp-pointed bodies, that may have penetrated the skin; also an instrument for pulling hairs from the eye-brows, &c.

ACANTHACEOUS, among botanists, an epithet given to all the plants of the thistle kind, on account of the prickles with which they are beset. See the article THISTLE.

ACANTHE, in the materia medica, the name given to our artichoke. See Artichoke.

Some confound the acanthus with acanthus, a very distinct genus of plants. See Acanthus.

Acanthe arabica, a term used by ancient physicians for a plant of the thistle-kind, with odoriferous roots.

ACANTHIAS, in ichthyology, a name given to the thorn-back, on account of the prickles on its back. See Thorn-back.

ACANTHICE, among ancient naturalists, a kind of mastic, the produce of the herb heixinne. See Mastic.

ACANTHINE, among the antients, something belonging to, or resembling the herb acanthus: hence we read of acanthine garments, acanthine woods, &c. The acanthine garments, according to some, were made of the down of thistles, but others will have them to be only embroidered in imitation of the Egyptian acanthus. They will have the acanthine wood to be the same with brasil-wood.

ACANTHOPTERYGIID FISHES, Acanthopterygii fishes, among zoologists, one of the general classes or families of...
ACANTHUS, in botany, the name of a genus of polyandrious plants, called in English bear's-breech. See POLYANDRIOUS.

The flower of the acanthus consists of one leaf, the anterior part of which is divided into three segments, and the hinder part forms a kind of ring. The pistil, which rises from the cup, finally becomes an acorn-shaped fruit, containing a number of glibbese-seeds. See plate III. fig. 2. See also the article Bear's Breech.

The acanthus may be known when not in flower, by its beautiful leaves, which are so elegant as to be imitated on carvings. ACANTHUS is also the name by which Theophrastus calls the acacia-tree. See ACACIA.

ACANTHUS, in architecture, an ornament representing the leaves of the herb acanthus, and used in the capitals of the corinthian and composite orders. See the article CAPITAL.

For this purpose, the greek sculptors imitated the leaves of the soft acanthus, as the Goths did those of the prickly kind.

ACANUS, or Acanus Theophrasti, the name of a species of thistle. See THISTLE.

ACAPATLI, the American name of the plant which produces the long pepper used in medicine.

ACAPNON, aspatov, a name by which some call the rampfuchus, or marjoram. See MARJORAM.

ACAPULCO, in geography, a sea-port town of North America, in W. longitude 102°. N. latitude 17° 30'. It is situated in the province of Mexico, on a fine bay of the South-fea, from whence a ship sails annually to Manila in the Philippine islands.

ACARA, in ichthyology; a small Brazilian fresh-water fish, seldom exceeding three inches in length. It has a high back, like the peacock, on which stands a long fin reaching nearly to the tail, and supported by numerous rigid and prickly rays. Its fins are all brown. But what chiefly distinguishes it is a large black spot on the middle of each side, and another near the tail. See plate III. fig. 3.

ACARA-AYA, a Brazilian fish of the shape of our carp; it grows to three feet in length, and has two long teeth in the upper jaw, those in the under one being extremely sharp, numerous, and even. Its tail is broad, and but very little forked. Its belly is white, as are the belly fins, the others being pale red. It is esteemed a delicate fish, and eaten salted as well as fresh. See plate IV. fig. 1.

ACARA-MUCU, the name of a very remarkable small fish, about ten finger's breadth long, and four broad. Its mouth is round, very small, and furnished with triangular teeth. On the ridge of the back, just behind the eyes, there stands a flender pointed horn, of a cylindrical shape, and four finger's breadth long. It is found on the coast of Brazil, has no scales, and is not eatable. See plate IV. fig. 2.

ACARA-PEBA, a small Brazilian fish, about a foot long, and four or five inches broad. Its mouth is large, but without teeth, and its tail is forked. It has one long back fin, the anterior rays of which are rigid and prickly, but the hinder ones soft and flexible. It seems to be a species of maris. See SMARIS.

ACARA-PINIMA, a Brazilian fish which seems to be the same species with the canthus of the Mediterranea. See CANTHARUS.

ACARA-PITAMBA, a beautiful Brazilian fish, resembling our mullet, and growing to two feet, or more in length. Its tail terminates in two oblique horns; and along the middle of each side, there runs a broad and beautiful gold-coloured line, from the gills to the tail. Its back, down to this line, is variegated also with spots of the same colour; and the sides under the line, are variegated with short, longitudinal lines, of a somewhat paler colour than that of the broad line. Its belly is white and its fins yellow. See plate IV. fig. 4.

ACARA-PUCU, a Brazilian fresh-water fish, growing to a foot and an half in length. Its body is rounded, and its mouth small and without any teeth. Its tail is long and forked. Its back and side fins are of a pale blue colour, as is the tail; but the belly fins are yellowish. It is a well-tasted fish.

ACARAUNA, a small American fish, called by our sailors the old wife, of which
which there are several species. They
dividually exceed four or five inches in
length, and are nearly as broad as long.
One has a sharp thorn, or prickle, on
each side near the tail; these it draws in
or thrusts out at pleasure. Another,
which is that called the old wife, has
four sharp thorns on each side its upper
jaw, and two on each side the under one:
from these, which bend downwards,
in shape resemble a cock’s spur,
there runs up a row of small thorns to
the eye. See plate III. fig. 3.
ACARI, or AcARIS, in the history of
insects, the same with Acarus. See
ACARUS.
ACARI, in geography, an excellent port
of Peru in South latitude 1° 29’.
ACARNA a name by which Theophras-
tus calls the common artichoke. See
ARTICHOKE.
ACARNA, in law, a writ issued by Vaillant, as the
classical name of the cynaracephalous,
or artichoke-headed plants,
ACARNAN, a small sea-fish, common in the
Mediterranean, and supposed to be
the same species with the rubellio, or
eytherinus. See plate V. fig. 1. and the
article ERYTHERINUS.
ACARUS, in zoology, a numerous genus
of insects, comprehending the lice of se-
veral animals, and the mites in general.
The body of the acarus is short and
roundish; the eyes are two; and the
legs eight in number, each consisting of
eight joints: The largest or longest leg-
ged acar us is described in plate V. fig. 2.
ACATALEPTIC, ACATALEPTH, in an-
tient phraseology, an appellation given to fuch
verities as have all their feet complete, in
contradistinction to those which want a
fyllable to make up the laft foot.
ACATALEPSY, ACATALEPSIA, among an-
tient philosophers, the impossibility of
comprehending something.
The distinguishing tenet of the pyrrho-
nists was, their affenting an absolute ac-
taxelepy in regard to every thing. See
PYRRHONISM.
ACATALIS, among antient physicians,
denotes a juniper-berry.
ACATASTATOS, a term used to signify
the irregular paroxysms of diseases. See
PAROXYSM.
ACATERY, or ACATERY, an officer of
the king’s household, designed to be
a check between the clerks of the kitchen
and the purveyors.
ACATHARSIA, ACATHARSI, among an-
tient physicians, signifies an impurity of
the blood or other humours.
ACATHISTUS, in church history, a hymn
antiently sung in the greek church in ho-
nour of the virgin, and was so called
by reason the people stood all the time it
was celebrating.
ACATUM, in antiquity, a kind of boat
or pinnace used in military affairs.
The acatum was a species of the naves
alituris. See ACTUARIUS navem.
ACAULOSE, or ACALOUS, among
botanists, a term used for such plants as
have no caulis, or stem. See CAULIS.
ACBAB, the name of a bird very like our
common hen, which is frequently found
wild in the Philippine islands.
ACCALIA, in roman antiquity, solemn
festivals held in honour of Accalaur-
tia, Romulus’s nurse: they were other-
called Laurentalia.
ACCAPITARE, in our old law books,
the act of becoming a vaffal, or paying
homage to some lord. Hence,
ACCAPITUM, signified the money paid
by a vassal, upon such an occasion.
It is likewise used for the relief due to
the chief lord. See RELIEF.
ACCATERY, the fame with acatery. See
ACATERY.
ACCEDAS ad curiam, in law, a writ
lying where a man hath received, or
feals false judgment in a hundred-
court, or court-baron. It is issufed out
of the Chancery, and directed to the
sheriff, but returnable in the King’s-
bench or Common pleas. It lies also
for justice delayed, and is said to be a
species of the writ Recordare. See Re-
CORDARE.
ACCEDONES, in roman antiquity, the
fame with accedones. See ACCEN-
dones.
ACCELERATED, in a general sense,
denotes quickened, or continually in-
creasing in motion.
The accelerated motion of falling bodies
is produced by the impulse of gravity,
which keeps continually acting upon them,
and thereby communicating a new
augmentation of motion every instant.
If this increase be equal in equal times,
the motion is said to be uniformly ac-
celerated. See ACCELERATION.
ACCELERATED motion of bodies on
inclined planes. See PLANE.
ACCELERATED motion of projectiles. See
PROJECTILE.
ACCELERATION, in mechanics, de-
notes the augmentation or increase of
motion in accelerated bodies,
The term acceleration is chiefly used in speaking of falling bodies, or the tendency of heavy bodies towards the center of the earth produced by the power of gravity; which, acting constantly and uniformly upon them, they must necessarily acquire, every instant, a new increase of motion.

Thus, in plate V. fig. 3, if \( a \) represent the velocity acquired, whilst a body falls through \( A_1 \), suppose one minute; then \( 2a \) will express the velocity acquired in two minutes represented by \( A_2 \); \( 3a \) the velocity acquired in three minutes, or \( A_3 \); and \( B C \) the velocity acquired, whilst the body falls through \( A B \).

Now the triangles \( A_1 A_2 A_3 \), and \( A_3 B \), represent the spaces described by the falling body in the respective times \( A_1 \), \( A_2 \), \( A_3 \), and \( A B \), by reason of the uniform action of gravity; but these triangles being similar, are to each other as the squares of their homologous sides, \( A_1^2, A_2^2, A_3^2, A B^2 \); that is, the spaces are to each other as the squares of the times in which they are described.

Hence also follows the great law of acceleration, viz. that a falling body, uniformly accelerated, describes, in the whole time of its descent, just one half of the space it would have described in the same time, with the motion it has acquired at the end of its fall.

From what has been said, it is evident, that the spaces described by a falling body in a series of equal portions of time, will be as the odd numbers \( 1, 3, 5, 7, \&c. \) See the figure above referred to, where the space described in the time \( A_1 \) is represented by the triangle \( A_1 a \); whereas the space described in the second portion of time, contains three such triangles; that described in the third portion, five such triangles; and so on.

Again, that the spaces described by falling bodies in different times, are as the squares of the velocity acquired at the end of its fall.

As the spaces represented by the odd numbers \( 1, 3, 5, 7, \&c. \) still approach nearer and nearer to an equality, so the accelerated motion likewise approaches nearer and nearer to an uniform motion; and if the body moves in a resisting medium, the motion will actually become uniform, at a certain distance.

**Acceleration of the motion of pendulums.** See Pendulum.

**Acceleration** is also a term used in the writings of antient astronomers, where it signifies the difference between the revolution of the primum mobile, and that of the sun, computed to be three minutes and fifty-six seconds.

**ACCELERATOR,** in anatomy, the name of two mufcles of the penis, so called from their expediting the urine and semen.

They likewise assist the erections in the erection of the penis, by driving the blood contained in the cavernous body of the urethra towards the glans, which is thereby diffened; the tumefaction of these muscles at the same time comprefing the veins that carry off the refruent blood from the corpora cavernosa.

**ACCENDENTES,** or **ACCENSORES,** in the church of Rome, a lower rank of miniters, whose business it is to light, snuff, and trim the candles and tapers.

**ACCENDONES,** or **ACCEndones,** in roman antiquity, a kind of officers in the gladiatorian schools, who excited and animated the combatants during the engagement.

**ACCENSI,** in the roman armies, certain supernumerary soldiers, designed to supple the place of those who should be killed, or anywise disabled.

**Accensi** also denoted a kind of inferior officers, appointed to attend the roman magistrates.

**Accensi,** is also sometimes used in a synonymous sense with options. See Optio.

**ACCENSION,** accentus, the act of kindling, or setting any body on fire. Thus the accession of tinder is effected by thikening fire with flint and steel: and what is more surprizing, because less common, the accession of two cold liquors may be effected by only mixing them together.

**ACCENT,** in a general sense, denotes a certain tone or manner of speaking, peculiar to some nation, country, or province; thus we say, the scotch accent, the irish accent, &c.

**Accent,** among grammarians, is the raising or lowering the voice in pronouncing certain syllables of words.

We have three kinds of accents, viz. the acute, the grave, and the circumflex. The acute accent, marked thus ('), shews that the voice is to be raised in pronouncing the syllables over which it is placed. The grave accent is marked thus ("), and points out when the voice ought to be lowered. The circumflex accent is compounded of the other two and marked thus (" or "): it denotes
A C C

[21]

A C C

a quavering of the voice, between high and low. Some call the long and short quantities of syllables, accents; but erroneously. See Quantity.

Accents not only give a pleasing variety and beauty to the modulation of the voice, but serve to ascertain the true meaning of the word, as in present and present.

The Chinese are extremely remarkable for the use they make of accents: thus the word "ya," according to the place on which they place the accent, signifies God, a wall, an elephant, stupidity, and a goose.

The Hebrew likewise abounds with accents; there being no less than twenty-five tonic accents, shewing the proper tone of the syllables over or below which they are placed; besides four euphonic ones, serving to render the pronunciation more sweet and agreeable. However it is generally allowed, that the accents now in use were unknown to the antient Hebrews.

Concerning the antiquity of the Greek accents, authors are not agreed; some making them of modern date, and others contending for their having been known to the antient Greeks.

Accent is also used for a certain intention or modulation of the voice, to give the stronger, or even contrary signification to the speaker's words: Thus, we say, an angry or disdainful accent; by the use of which, it is easy to give an ill meaning to the softest expressions.

In this sense we are to understand Lord Bacon, where he observes, that there are accents of sentences as well as of words; complaining that the former has been utterly neglected, whilst grammarians have bestowed a great deal of idle pains upon the latter. See Emphasis.

Accent, in music, a certain modulation or warbling of the sounds, to express passions, either naturally by the voice, or artificially by instruments.

Every bar or measure is divided into the accented and unaccented parts; the former being the principal, on which the spirit of the music depends.

The harmony ought always to be full, and void of discords, in the accented part of the measure.

Accent, in poetry, the name with what is otherwise called ref. See Rest.

Accent or, in music, denotes one of the three fingers in parts, or the person who

ings the predominant part in a trio. See Trio.

Acceptance, in common law, the tacitly agreeing to some act before done by another, which might have been defeated without such acceptance. Thus if a husband and wife, seized of land in right of the wife, make a joint lease or feoffment, reserving rent, and the husband dies; after which the widow receives or accepts the rent: such receipt is deemed an acceptance, confirms the lease or feoffment, and bars her from bringing the writ cui in vita.

Acceptance, among civilians, denotes the consenting to receive something offered to us, which by our refusal could not have taken effect; or acceptance is the actual concurrence of the will of the donee, without which the donor is at liberty to revoke his gift at pleasure.

Acceptance, in the church of Rome, is particularly used for the receiving the Pope's constitutions.

The acceptance of the constitution unigenitus, has occasioned, and still continues to excite a world of confusion in the popish countries, but more especially in France, where many of the clergy refuse to accept it.

Acceptance, among merchants, is the signing or subscribing a bill of exchange, by which the acceptor obliges himself to pay the contents of the bill. See Bills of Exchange.

Bills payable at sight are not accepted, because they must either be paid on being presented, or else protested for want of payment.

The acceptance of bills payable at a fixed day, at usance or double usance, &c. needs not be dated: because the time is reckoned from the date of the bill; but it is necessary to date the acceptance of bills payable at a certain number of days after sight, because the time does not begin to run till the next day after that acceptance: This kind of acceptance is made thus, Accepted such a day and year, and signed.

In general, he to whom a bill of exchange is made payable ought to demand the acceptance of the person on whom it is drawn, and that in the full extent of the terms of the bill, and on refusal of acceptance to return it with protest. This he ought to do for his own security, as well as for that of the drawer. Thus, if the bearer of a bill consents to an acceptance at twenty days sight, instead
head of eight days expressed in the bill, he runs the risk of the twelve days prolongation; so that he can have no recourse against the drawer, should the acceptor break in that time. Again, if a bill be drawn for three thousand pounds, and the bearer agrees to take an acceptance for two only, and should receive no more than that sum, the remaining thousand would be at the hazard of the bearer, as well as in the former case.

If, therefore, a bill be only accepted in part, or for a longer time than that expressed in it, the bearer ought to protest it, at least for the sum not accepted. Again, if the acceptor breaks or refuses to make payment when the bill becomes due, it is necessary to get the bill immediately protested by a public notary, to be sent along with the protest, to the remitter, to procure satisfaction from the drawer.

By statute, inland-bills of exchange must be accepted by signing or endorsing in writing, and protested for refusal of such acceptance, otherwise the drawer is not liable to costs; it must likewise be returned to the drawer within fourteen days. However, such protest is not necessary unless the value be acknowledged in the bill to be received, and unless the bill be drawn for 20 l. or upwards. A bill drawn on two jointly must have a joint acceptance, otherwise he is protested; but if on two or either of them, the acceptance of one is sufficient.

Acceptation, in grammar, denotes the meaning or sense wherein a word is generally taken. Thus we say, such a word has several acceptations.

Acceptation, in law, the same with acceptance. See Acceptance.

Accepter of a bill of Exchange, the person who accepts it. See Acceptance. The acceptor is obliged to pay the contents of the bill, even though the drawer should fail before it becomes due.

Acceptation, among civilians, signifies an acquaintance given by a creditor to a debtor, without receiving any money.

Acceptation, the same with acceptance. See Acceptation.

Accepter, among merchants, the same with accepter. See Accepter.

Access, in a general sense, denotes the approach of one thing towards another; but it is more properly to say, the approach of bodies, the appulse of the planets, &c.

Access, in a more limited sense, is used for permission or leave to come near any person, place, or thing: thus we say, it is difficult to get access to such a person, or place.

Access, among physicians, is used for the beginning of a paroxysm or fit of some periodical disease: thus we say, an access of a fit of the ague, an intermitting fever, the gout, &c. See Paroxysm.

Accessory, or Accessory, in law, a person who is in any way aiding in the commission of some felonious action. By statute, he who counsels, abets, or conceals the committing of such an action, or the person who has committed it, is deemed an accessory.

There are two kinds of accessaries, viz. before the fact, and after it. The first is he who commands or procures another to commit felony, but is absent when it is done: for if he be present, he is a principal. The accery after the fact is one who receives, comforts, or affists the felon; knowing him to be such.

In the highest crimes, as high treason, &c. and the lowest, as riots, forcible entries, &c. there are no accessaries, but all concerned are principals.

It is a maxim among lawyers, that where there is no principal, there can be no accessory; so that it is necessary the principal be first convicted, before the accessaries can be arraigned. However, if the principal cannot be taken, the accessory may be prosecuted for a misdemeanor, and punished by fine, imprisonment, &c.

Accessories in petty treason, murder, and felony, are not allowed their clergy. See Clergy.

A wife may assist her husband, without being deemed accessory to his crime; but not e contra. A servant assisting his master to escape, is reckoned an accessory; also furnishing others with weapons, or lending them money, &c. will make persons accessaries. Persons buying or receiving stolen goods, knowing them to be such, are deemed accessaries to the felony. Also if the owner of stolen goods, after complaint made to a justice, take back his goods, and consent to the escape of the felon, he becomes accessory after the fact.

Accessible, something that may be come at, or approached to: thus, we say, such a place is only accessible on one side, &c.

For the geometrical admeasurement of accessible heights and distances. See the articles Height and Distance.

Accession,
ACC, a term of various import; thus, among civilians, it is used for the property acquired in such things as are connected with, or appendages of other things: among physicians, it signifies the same with what is more usually called paroxyn: among politicians, it is used for a prince's agreeing to, and becoming a party in a treaty before concluded between other potentates: again, it more particularly denotes a prince's coming to the throne by the death of the preceding king: and lastly, it is used by romans for a peculiar way of electing a pope; which is, when one candidate has got two thirds of the votes, the rest are enrolled by accession.

ACCESSORY, in law, the same with accessory. See Accessory.

ACCESSORY nerve, Accessorius ventralis, or Far Accessorium, a kind of ninth pair of nerves; which ariding from the spinal marrow in the vertebrae of the neck, enters the cranium by the great foramen in the occipit. Here it is joined by the par vagum, and coming out of the cranium again by the same aperture, it recedes from the par vagum, and is bent back to the trapezius, a muscle of the shoulder.

ACCESSORY, among painters, an epithet given to such parts of an history-piece as serve chiefly for ornament, and might have been wholly left out: such are vases, armour, &c.

ACCIB, a name used by some for lead. See Lead.

ACCIDENCE, in literary history, the name given to a small book, containing the rudiments of the latin tongue.

ACCIDENT, accident, in a general sense, denotes something that is unusual, or falls out by chance.

ACCIDENT, among logicians, is used in a three-fold sense. 1. Whatever does not essentially belong to a thing, as the cloaths a man wears, or the money in his pocket. 2. Such properties in any subject as are not essential to it; thus, whiteness in paper is an accidental quality. 3. In opposition to substantia, all qualities whatever are called accidents, as sweetness, softness, &c.

Absolute Accident, is used by the romish church for an accident, which may possibly subsist, at least miraculously, without any subject; an absurdity, which has been strenuously maintained by many of their casuists, and even solemnly decreed by some of their councils.

ACCIDENT, in heraldry, an additional note or mark in a coat of arms, which may be either omitted or retained, without altering the essence of the armour.

ACCIDENTS, in astrology, denote the most remarkable occurrences in the course of a man's life: such are a remarkable instance of good fortune, a signal deliverance, a great sickness, &c.

ACCIDENT, among physicians, is sometimes used for what is more usually called symptom. See Symptom.

ACCIDENTAL, in a general sense, an appellation given to such things as happen by accident. See Accident.

ACCIDENTAL point, in perspective, that point in the horizontal line, where all lines parallel among themselves meet the perspective plane.

ACCIDENTAL dignities and debilities, in astrology, certain casual dispositions of the planets, whereby they are supposed to be either strengthened or weakened.

ACCIPENSER, in ichthyology, a genus of chondropterygious fishes, the mouth of which is tubular, and has no teeth; there is only one hole or aperture of the gills on each side; and the body is oblong and unusually furnished with seven fins. See Chondropterygious.

Of this genus there are only two species, the sturgeon and holo, or +ingular-fish. See Sturgeon and Isinglass.

ACCIPESIUS, a name sometimes given to the accipenser, or sturgeon. See the preceding article.

ACCIPITER, in ornithology, the name of a whole order of birds, the distinguishing characteristic of which is, that they have a hooked, or crooked beak. This order comprehends three genera, viz. the parrot, owl, and hawk-kind. See Parrot, &c.

ACCIPITRINA, harrow-weed, in botany, a name sometimes given to hierachium.

ACCISMS, in antiquity, denotes a feigned refusal of what one earnestly desires.

The accisim was a piece of political dissimulation, for which Augustus and Tiberius are famed.

ACCISMS, in rhetoric, is accounted a species of irony. See Irony.

ACCLAMATION, acclamation, in roman antiquity, a shout raised by the people, to testify their applause, or approbation of their princes, generals, &c. Such is that of Ovid. Fast. 1. 61;

August imperium no. duci, augus.

Ac
ACCLAMATION is also used, in a bad sense, for expressions of detestation, &c. Vid. Suet. Domit. c. 23.

ACCLAMATION, in rhetoric, the fame with what is otherwise called epiphanema. See EpiphNema.

ACCLAMATION medals, among antiquaries, those whereon the people were represented as expressing their joy by acclamation.

ACCLIVIS, in anatomy, the name by which some call the obliquus ascendens. See OBLIQUUS.

ACCLIVITY, a term used to denote the ascent of a hill or rising ground, as declivity is the descent. Declivity is sometimes used by writers on fortification, for the talus of the rampart. See Talus.

ACCOLA, ACOLLEIE, in heraldry, a term used in between two or more, where anyone is privy to, or aiding in the perpetration of some crime. See Accessory.

ACCOMPANYMENT, in music, is used for all arithmetical computations, or calculations; after which the several articles are to be posted or placed either on the credit or debit side, according to the nature of the transaction, and may be compared to the stages of book-keeping.

ACCOMPANYMENT is also used for several bearings about a principal one, as a talier, bend, fee, &c.

ACCOMPlice, in law, a person who is privy to, or aiding in the perpetration of some crime. See Accessory.

ACCOMPLISHMENT, in a general sense, denotes the perfecting, or entirely finishing and compleating any matter or thing.

ACCOMPLISHMENT is more particularly used for the fulfilling of a prophecy; in which sense, we read of a literal accomplishment, a mystical accomplishment, &c. See the article Prophecy.

ACCOMPLISHMENT, is still more particularly used for the acquisition of some branch of learning, useful art, polite exercise, &c.

ACCOMPt and ACCOMPTANT. See Account and Accountant.

ACCORD, in music, the name by which some call the concord. See Concord.

ACCORD, in law, a verbal agreement between two or more, where any one is injured by a trespass, or other offence committed, to make satisfaction to the injured party; who after the accord is performed, will be barred in law from bringing any new action against the aggrieved for the same trespass. It is safest, however, in pleading, to allege satisfaction, and not accord alone; because, in this last case, a precise execution in every part thereof must be alleged; whereas, in the former, the defendant needs only say, that he paid the plaintiff such a sum in full satisfaction of the accord, which he received.

ACCOUNT, or AcCrupt, in a general sense, is used for all arithmetical computations, whether of time, weight, measure, money, &c.

ACCOUNT is also used collectively, for the books in which merchants, traders, and bankers enter all their business, traffic, and bargains with each other.

The method of keeping these is called book-keeping. See the article Bookkeeping.

To open an Account, is to enter in the ledger, the name, the surname, and the place of abode of the person with whom you have dealings; after which the several articles are to be posted or placed either on the credit or debit side, according to the nature of the transaction, and may be compared to the stages of book-keeping.
To settle an Account, is to sum up all its articles, both on the debit and credit side, and find the balance between them; which being placed on the least side, makes the sum of both equal: this is otherwise called flouring, balancing, closing, or making up an account.

Account, in Company, an account kept by traders in partnership, wherein all articles relating to their joint trade are entered.

Account is also used in different senses, as for profit, hazard, &c. thus we say a man has found his account in something, or it has turned to good account; also, if a man commits errors, they shall be on his own account, &c.

Account, in law, is a writ or action, which lies against a person, who by reason of his office, or business, is obliged to render an account to another, but refuses to do it; as a billiard, for instance, to his lord.

Account, in the remembrancer's office, in the exchequer, is the state of any branch of the king's revenue; as the account of the king's wardrobe, of the waroffice, of the army, of the navy, &c.

Chamber of Accounts, in the French polity, a sovereign court, anweiring nearly to our exchequer. See Exchequer.

Account of sales, among merchants, an account of the disposed and net-proceeds of certain merchandizes, after deducting charges and commiision.

Auditing an Account, the examining and passing by an officer appointed on purpose.

ACCOUNTABLE, a term used to denote a person's being liable to be called to account. See Account.

ACCOUNTANT, or Accountant, in a general sense, denotes one whose business it is to keep accounts. See Account.

The term accountant is applicable, in a more restricted sense, to a person, or officer, appointed to keep the accounts of a public company; or office: thus, we lay

Vol. I.

the accountant of the South Sea, of the India Company, of the Bank, of the Customs-house, of the Excise, &c.

ACCOUNTANT-general, in the court of Chancery, a new officer appointed by act of parliament, to receive all monies lodged in court, and convey the same to the bank of England for better security. The salary of this officer and his clerks is to be paid out of the interest made of part of the money; it not being allowable to take fees in this office.

ACCOUNTANTS'HIP, a term used to denote the art of keeping merchant's accounts, more usually called bookkeeping. See Bookkeeping.

ACCOUNTING-HOUSE, Counting-House, or Compting-House, a place or office, set apart by merchants and other traders, in which to keep their books of accounts, and vouchers belonging to them, as well as to transact their business.

ACCOUNTABLE, an old term, signifying dress, still used for the furniture of a soldier.

ACCRETION, in natural history, the increase or growth of a body by an external addition of new parts: thus it is, salts, shells, stones, &c. are formed.

ACCRETION, among civilians, a term used for the property acquired in a vague or not occupied thing, by its adhering to or following another thing already occupied; thus, if a legacy be left to two persons, and one of them die before the testator, the legacy devolves to the survivor by right of accretion. Allusion is another infinace of accretion. See Allusion.

ACCREW, the same with accrue. See Accrue.

ACCOUCHE, in heraldry, denotes a thing's being hooked into another.

ACCOUCHEING, in our old law books, is used for picrouching, or usurping upon another man's right.

ACCRUE, or Accrew, in law is said of a thing that is connected, as an appendage to something else.

ACCRUATION, in antiquity, the posture used among the Greeks and Romans at table, which was with the body extended on a couch, and the head reposing on a pillow, or on the elbow supported by a pillow.

Piticius tells us the manner in which the gueuts were disposed, which was this: a low round table was placed in the dining-room, about which food sometimes two, but more usually three beds
or couches; from the number whereof the dining-room got the name of Bicalinium or Friconium. These couches were covered with richer or plainer cloaths, according to the quality of the person, and furnished with quilts and pillows. Each couch usually contained three persons: it being deemed forbid to crowd more. The first lay at the head of the bed, with his legs extended behind the second; who lay in the same manner in regard to the third. The middle place passed for the most honourable. However, before placing themselves, they always took care to pull off their shoes, and put on what was called the voetis sequatoria.

**ACCRUATION**, in a general sense, the act of heaping or amassing things together.

**ACCRUATION**, among lawyers, denotes the concurrence of several titles to the same thing, or of several circumstances or proofs to make out one fact.

**ACCRUATION**, among antient gardeners, was the covering the roots of trees by throwing on them the earth which had been dug up in ablation. See BARKING of trees.

**ACCRUATION of degrees**, in an university, the taking several of them together, or at smaller distances from each other than usual, or than the rules allow of.

**ACCURATE**, a term used for a person who performs or executes something with delicacy and jutness.

**ACCURED**, in a general sense, denotes something that is detectable, or a person abandoned to impiety and wickedness.

**ACCURED** is more particularly used for an excommunicated person. See EXCOMMUNICATION.

**ACCRUSATION**, among civilians, the bringing a criminal action against any person; in which sense, it differs only in circumstances from what among us is called impeachment. See IMPEACHMENT.

**ACCRUSATIVE**, among latin grammarians, the fourth case, which is always governed by an active verb or preposition, expressed or understood: thus *amo deum*, I love God; *co Londinum*, i.e. *co ad vel verius Londinum*, I am going to London, or I am on my way to London.

**AC-DENGHIS**, or **ACDENIZ**, the name given by the Turks to that part of the Mediterranean, more usually called the Archipelago.

*cf.-dengis*, in the turkish language, signifies the White-Sea, a name given it in opposition to the Euxine, or Black-Sea.

**ACE**, among gametters, a card or diploma marked only with one point.

**ACENTETUM**, or **ACENTETA**, names used by the antients for the purest kind of rock crystal. See CRYSTAL.

**ACEPHALI**, or **ACEPHALITAN**, in church history, an epithet given to certain sectaries, or heretics, who refused to follow some noted leader or other.

**ACEPHALOUS**, in a general sense, denotes something without a head: thus we read of many fabulous stories, in antient geographers, as well as in some modern voyages, of nations without heads, whole eyes, mouth, &c. were placed in their breasts or shoulders.

But how unaccountable soever it may be to represent whole nations as acephalous, nothing is more certain, than that there are many instances of acephalous births, or children born without heads.

**ACEPHALOUS**, in our old law-books, an appellation given to such poor persons as held nothing of any superiority.

**ACEPHALUS**, in the history of insects, a name formerly given to the *Lumbricicatius*, or joint-worm; to which some have force not only ventured to affign a head, but to make it *flops*, or two-headed.

**ACEPHALUS** is also used for any veré which is defective in the beginning.

**ACER**, the maple-tree in botany. See the article **MAPLE**.

**ACERB**, a baffe partaking of a great deal of frowns, joined to a certain degree of roughness and asperity: such is that of unripe fruits.

**ACERENZA**, or **CIRENZA**, a town of the kingdom of Naples, situated at the foot of the Apennine: it is the capital of the province Basilicata. E. longitude 16° 43′ N. latitude 40° 40′.

**ACERIDES**, among antient physicians, denote plasters made without wax.

**ACERINA**, a name sometimes used for the fifth, called in English the ruffe. See the article **RUFFE**.

**ACERNO**, or **ACIERNO**, a town of the kingdom of Naples, about thirty miles S. E. of Naples. E. longitude 16° 40′ N. latitude 46° 50′.

**ACERRA**, in antiquity, a kind of altar erected near the bed of a dead person, on which incense and other perfumes were burnt till the time of the burial. See **BURIAL**.

**ACERRAE** also denoted the pots wherein the incense was burnt: hence we read of alna acerra, a full acerra.
ACERRA, in geography, a city of the K. of Naples in the province of Lavoro, about eight miles N. of Naples. It is a bishop's see.

ACETABULUM, in antiquity, a kind of plate wherein sauce was served to table, and not unlike our salts or vinegar cruets.

ACETABULUM was also a Roman measure, used as well for dry things as liquids; and equal to a cyathus and an half. See Measure and Cyathus.

ACETABULUM, in anatomy, a hollow cavity in the heads of certain bones serving to receive the protruberant heads of others, and thereby forming the articulation called enarthrosis.

The acetabulum is lined with a cartilage, the circular margin of which is called supercilium.

ACETABULUM is also a name sometimes given to the cotyledon. See Cotyledon.

ACETABULUM, in botany, a genus of sea-plants, the leaves of which are shaped like a baloon. See Plate V. fig. 4.

Some will have the acetabulum to be of animal origin, and produced by sea-infects.

ACETARY, a term used by Grew for a certain part in the structure of some fruits, so called on account of its four-nuts.

ACETIFICATION, the name by which chemists call the operation or process of making vinegar. See Vinegar.

ACETOSA, Sorrel, in botany. See Sorrel.

ACETOSE, or Acetous, an epithet used for such things as partake of the nature of vinegar: hence we say, an acetous taste, acetous quality, &c.

ACETUM, Vinegar, in medicine, &c. See Vinegar.

ACGIAH-SARAI, in geography, a very beautiful town, situated on the northern shore of the Caspian sea.

ACH, or Ache, in medicine, denotes a severe pain in any part of the body.

Head-Ach? See the article Head-Ach.

Tooth-Ach? See the article Tooth-Ach.

ACH, among farriers, is used for that disorder in horses, which benumbs their joints.

ACH, in geography, a name sometimes used for Aix-la-Chapelle. See Aix-la-Chapelle.

ACHAC, the name of a bird of the partridge kind, common in the Philippine islands; the belly, breast, and neck of which are of a pale brown, and its back

of a dusky reddish colour; its wings are of a greenish-blue colour, and extremely beautiful; its legs are reddish, and the claws black. Its ordinary size is that of a full-grown hen.

ACHÆNUS, the same with achenius. See ACHÆNUS.

ACHALALACTLI, an American bird, common about the lakes and rivers of Mexico, of the size of a pigeon, and remarkable for a white ring round its neck. The belly and under sides of the wings are white; its head is ornamented with a long crest of a bluish-black colour, as are the back and upper side of the wings. The tail is partly black and partly blue.

ACHAM, Achan, or Achem, in geography, a large city, which is the capital of a kingdom of the same name, in the island of Sumatra.

ACHAMDES, a name sometimes given to the remora, or sucking fish. See Remora.

ACHANE, in Persian antiquity, a corn-measure equal to forty-five attic medimnus. See Medimnus.

ACHAHOVA, in the materia medica of the antients, a name used for several different plants as marum, feverfew, &c.

ACHASSES, the name of a river of Languedoc, in France.

ACHAT, in law-books, denotes a contract, or bargain, especially in the way of purchase.

ACHAT is also improperly used by Dr. Plot for the agat.

ACHATES, the Agat, in natural history. See Agat.

ACHATOR, in our old law books, a term used for a purveyor. See Purveyor.

ACHBALUC-MANGI, a town situated on the northern confines of China.

ACHE, in botany, a name sometimes given to the plant called, in English, medicinal, See Smallage.

ACHE, in medicine. See Ach.

ACHECAMBEY, one of the Bahamas. See Bahamas.

ACHELO, a town situated on the Euxine sea.

ACHEM, in geography. See Acham.

ACHERNER, in astronomy, a star of the first magnitude, in the southern extremity of the constellation Eridanus. See Eridanus.

ACHETA, a name used by the antients for the balm-cricket. See the article Cricket.
ACHIEUS, or ACHÆNUS, a name by which the antients called a stag or deer of the second year. See DEER.

ACHILLEA, in the linnean system of botany, a genus of plants of the fynge-
nefia dafs, comprehending the millefo-
lium and ptarmica of Tournefort. See Millefo-
lium and Ptarmica.

ACHILLES is also a name often given by the antients to the gum, called in the shops dragon's blood. See Dragon's blood.

ACHILLIS, Achilles, in literary history, a celebrated poem of the epic kind, composed by Statius in honour of Achilles; it takes in only the infancy of that hero, the poet being prevented by death from describing all his actions, as he intended to have done. See Epic.

ACHILLES, an appellation, sometimes given to the principal argument, made use of by each sect of antient philosophers, in defence of their system.

It has got this name, in allusion to the strength of Achilles.

ACHILLES is particularly used for Zeno's argument against motion, which consisted in making a comparision between the swiftness of Achilles, and the slowness of a tortoise; from whence he inferred, that a slow body, if but ever so small a distance before a swift one, could never be overtaken by it.

Tendon of Achilles. See Tendon.

ACHIOTE, the same with achiote. See Achiote.

ACHIOTL, a name sometimes given to the drug, otherwise called achiote and roucou.

ACHIOTTTE, a drug brought from America, and used in dying, as well as in preparing chocolate.

It is the produce of a species of mitella, a tree which has no leaves; but instead thereof a kind of filaments like those of saffron, only larger. Between these are found small grains of a vermilion colour, about the size of pepper-corns; these the Indians bake in cakes to be sent into Europe.

Achiote, besides the above-mentioned uses, is esteemed a powerful cordial, as well as a preservative against retention of urine.

ACHROBOETOS, a genus of plants, in church-history, a name given to certain pictures of Christ, supposed to have been painted in a miraculous manner, or without hands.

ACHILAR, a river of the greater Armenia, otherwise called Arsus, Catræ, and by the antients Araxis.

ACHLIS, the same with machlis. See Machlis.

ACHLYS, in medicine, denotes a dinner of food, arising from a small cloud, or fear, remaining after a superficial ulcer of the cornea.

ACHLYS, in a metaphorical sense, is sometimes used for a disorder of the womb, otherwise called a suffusion of the uterus. See Suffusion.

ACHONYKY, a small town of Ireland, situated in the county of Létrim, and formerly was a bishop's see.

ACHOR, in medicine, a kind of running ulcer on the face, chiefly infesting children, but sometimes also grown persons. A child's face is not unfrequently broken by these achoras into a number of small holes, which discharge a moderately viscid humour.

It is dangerous to repel or drive the humour inwards; a fever or epilepsy being often the consequence.

ACHRAS, the wild pear-tree, in botany, a genus of plants, the flower of which consists of five erect petals, of a cordated shape; and the fruit an oval berry divided into five cells.

The fruit of the acharas is more drying, astringent, and yellow, than common pears.

ACHRONYCAL, in astronomy, an appellation given to the rising of a star above the horizon, at sun-set; or to its setting, when the sun rises.

The achronykal is one of the three poetical risings of a star; the other two being called esmical and heliacal. See Cosmical and Heliacal.

ACHSTEDE, or ACKSTEDE, in geography. See Acksteede.

ACHYR, a town of Ukraine, with a strong citadel. See Ukraine.

ACHYRONIA, in botany, the name of a genus of papilionacous plants, of the diadelphia decandria class of Linnaeus, the fruit of which is an oval oblong pod, containing a few kidney-shaped seeds. See Diadelphus.

ACHYRPHORUS, a name sometimes used for a genus of plants, otherwise called hypocharias. See Hypocharias.

ACIPENDA, a sea-port town, situated at the bottom of the gulph of Bengal.

ACICULÆ, in natural history, certain small spikes, or prickles, in form of needles, wherewith nature has armed several animals, as the hedge-hog, echin-
nae, &c. See Hedge-hog, &c.

ACID, in a general sense, denotes such things
things as affect the palate with a sour, sharp, and tart taste. This property of bodies is generally attributed to a particular class of salts, called acid salts; supposed to be solid spiculce, sharp-pointed at both ends. Their solidity is inferred from their dissolving the hardest bodies, their sharpness from their pungency on the tongue; and their being pointed at both ends, from their penetrating the hardest substances with ease.

The great characteristic of acid bodies, is, that they make a violent effervescence when mixed with alkaline substances, and turn a blue tincture of violets red; whereas alkaline substances, mixed with the same tincture, turn it green.

The principal acids are vinegar and its spirits; the juices of lemons, oranges, tereb., citrons, &c. also the spirits of nitre, alum, vitriol, sulphur, and sea-salt.

**Acid menstrua.** Vegetable acids will intimately dissolve many vegetable, mineral, and even metallic bodies: Thus, horn, bone, shell, and the flesh of animals, are thereby reduced into a transparent liquor.

They likewise act upon all the metals, except gold, silver, and quick-silver. Fossil acids are still more powerful, dissolving the hardest and purest metals, which the vegetable ones will not touch; these are so strong, as generally to destroy or prove poisonous to animals.

Thus, if nitre be ground with an equal quantity of colochar of vitriol, or burnt alum and then distilled in a strong fire, it will afford a good spirit of nitre, called by the refinners *aqua fortis*, which dissolves silver into extremely bitter, and caustic crystals. Spirit of sea-salt is a solvent for gold, which no other acid in nature will touch. See *Aqua-fortis* and *Aqua-regia*.

Chemists observe, that the strongest acid menstrua, by dissolving its proper subject, is changed into an insipid, unactive matter, no longer retaining the dissolving power it had before. Hence, it is not improbable, that these acids are generated and destroyed: for no spirit of nitre hath ever been found native, but is always produced from nitre already formed. Therefore these acids in dissolving bodies, concrete therewith, and are changed into new substances.

**General properties of Acids.** All acids agree, 1. In uniting with alkaline substances, making effervescences with them, and producing new kinds of salts. 2. They also agree, in combining with chalk, coral, crab's-eyes, pearl, shells, horn, bone, quick-lime, iron, copper, &c. all which are dissolved quicker or flower by every acid. Now these solutions, except the metallic ones, lose all the acrimony of the dissolving acid: thus, for instance, if spirit of nitre be perfectly saturated with crab's eyes, this solution will prove a limpid, and almost insipid liquor; and when diluted with fair water filtered and kept for some time in a gentle heat, it might pass for pure water; but upon adding fixed alkali thereto, the crab's eyes before dissolved will soon fall to the bottom, and shew that the solution was not pure water.

Hence, therefore, we may easily be imposed upon in the judgment we form of water by taking that for pure element, which contains numerous dissolving and dissolving particles. 3. Acids also agree in not only concreting with the subjects they dissolve, but likewise in thereby losing their dissolving power.

4. It is also a property of all acids, to change the colour of vegetable juices into red, as we see in the juice of violets, roses, turnfol, &c. 5. They all agree likewise in this, that they do not so much change the bodies they dissolve, as they are changed by them: thus, vinegar remains no longer vinegar in the lead it has dissolved, nor can be separated from it again; whereas the lead may be again recovered, and so in other instances. 6. All acids may be diluted with water, and united with spirits and oils; thus, spirit of nitre unites with alcohol, though not without conceiving great heat, discharging red fumes, and making a strong and almost fiery effervescence. The same spirit of nitre, upon uniting with oils, generally raises a violent heat, and sometimes a motion productive, of fire and flame.

By mixing acids with oils, a bituminous, pitchy, or sulphureous matter is commonly produced.

**Their differences.** Acids differ considerably from one another. 1. In regard to strength, or the quantity of true acid with respect to the water they contain: thus, according to Homberg, an ounce of the best vinegar holds but 16 grains of true acid, the rest being water; an ounce of spirit of salt, 73 grains of true acid; an ounce of spirit of nitre, 2 drams and 24 grains of true acid; and an ounce of oil of vitriol, 4 drams and 65 grains. 2. In
2. In regard to their solvent power. Thus, spirit of nitre scarce touches gold, with a boiling heat, or at most renders it black; but present! destroys silver: whilst aqua regia has the contrary effect. 3. In being differently affected by the bodies they dissolve: thus spirit of vinegar, by dissolving lead, becomes thick and unctuous; which is not the case with spirit of nitre. 4. One and the same acid is variously changed by acting upon different bodies: thus spirit of vinegar may be recovered after dissolving lead, but is irretrievably lost by dissolving iron.

**Inflammability and explosive power of Acids.** Not only are pure acids readily set on fire, and even their minute particles dispersed in the interfaces of other bodies; but what is more remarkable, if the acid spirit of nitre be mixed with an equal quantity of any of the aromatic oils, as that of cloves, sassafras, turpentine, etc., it instantly bursts into a lucid flame with an excessive ebullition and explosion.

**Acids, in medicine.** Not long ago, it was fashionable among physicians to explain the nature of diseases by the doctrine of acids and alkalies; a custom, which, however fallen into disrepute, is still followed by some, and that with reason in regard to particular disorders. Thus, the heart-burn, chlorosis, and other stomache disorders may be accounted for from a prevailing acid humour, which is corrected by an animal diet, and the use of such vegetables as contain an aromatic oil. Absorbents, volatile-farts, and broths prepared from the flesh of young healthy animals, are likewise recommended. See **CARDIALGIA and CHLOROSIS.**

**Acids, in the materia medica.** Denote such medicines as are possessed of an acid quality; such are vinegar, spirit of vitriol, etc. These being powerful antiseptics, are esteemed good in all putrid and malignant diseases, and by their cooling virtue are no lea efficacious in inflammatory and feverish cases. However, great care ought to be taken not to administer them in such large quantities, as to corrode the bowels, or coagulate the blood. Acids are also recommended in the plague, and as styptics. Thus, vinegar not only serves to stop hemorrhages, but being sprinkled upon a red-hot tike or iron, corrects the putrefaction of the air. See **PLAQUE, &c.**

**ACIDITY, aciditas,** that quality in bodies which renders them acid. See **AciD.**

**ACIDULÆ, in natural history and medicine,** a term used for the cold mineral waters, or such as are impregnated with some acid mineral, as alum, vitriol, nitre, &c. See the article **WATER.**

This opinion took its rise, no doubt, from the taffe of these waters, which is sharp, brik, and pungent, whilst they are fresh. The supposition too, that there is an universal acid contained in the earth, serves to establish it.

**ACIDULATED, among physicians, an appellation given to such medicines, as have been mixed with some acid.** See **AciD.**

**ACINACES, in antiquity, a kind of cutlas, or cimeter, in use among the Persians.**

**ACINARIA, in botany, a name sometimes given to the marh-whoirte berries.** See **WHORTE.**

**ACINI, among botanists. See **ACINUS.**

**ACINIFORMIS **, in anatomy, the name with uvea. See **UVEA.**

**ACINODENDRON, in botany, a name used by some for the melastoma, a distinct genus of plants. See **MEIASTOMA.**

**ACINOS, a name sometimes given to oclum, or bafil, a distinct genus of plants. See **OCIMUM.**

**ACINUS, in botany, a name given to grapes or berries growing in clusters, in opposition to baccus, or such berries as grow single.**

**ACITLI, in ornithology, the american name of the crested diver, otherwise called lepus aqueus, or the water-hare.** See **LEPUS.**

**ACKEN, a small town of Germany, in the circle of lower Saxony.**

**ACKNOWLEDGEMENT, in a general sense,** is the owning or confessing some thing; but, more particularly, denotes the reward of some service, or the grateful requital of a favour received.

**ACKNOWLEDGEMENT-money, a certain sum paid by tenants in several parts of England, on the death of their land lords, as an acknowledgement of their new lords.**

**ACSTEDE, a small town of Germany, in the duchy of Bremen.**

**ACLIDES, in roman antiquity, a kind of missive weapon, with a thong fixed to it, whereby it might be drawn back again. Most authors describe the aclides, as a sort of dart or javelin; but Scaliger makes it ro坐落于, or globular, with a wooden stem to poise it by.**

**ACLOWA, in botany, the name of a plant,
ACO

plant, thought to be the scorpioide colutea, with leaves like the gum-tragacanth shrub: it is used by the natives of Guinea to cure the itch. See COLUTEA.

ACOMAC, a county of Virginia, being a kind of peninsula, formed by the Atlantic ocean, and the bay of Chesapeake.

ACONE, in natural history, a kind of whetstone, otherwise called coticula. See COTICULA.

ACONEROBA, in botany, the name of a plant with leaves resembling those of our bay, and growing in pairs: it is much esteemed by the people of Guinea for its virtues in the small-pox.

ACONE, in botany, the name of a genus of polyandrious plants, called in English wolfbane, or monkhood. Its flower is of the polypetalous, anomalous kind; being composed of five irregular leaves, resembling in some measure a man's head with a helmet or hood on it. The upper petal represents the hood or helmet; the two lower ones stand for that part which covers the lower jaw; and the two wings seem adapted for covering the temples. From the center of the flower, there arise two pistils, resembling feet, and received into the hollow of the upper petal, or hood; as is also another pistil, which finally becomes a fruit, composed of several membranaceous vaginæ collected into a head, and usually containing angular and wrinkled seeds. See plate V. fig. 5.

All the species of aconite are extremely acrimonious, thereby occasioning mortal convulsions, or inflammations that end in a mortification.

ACONTIAS, in zoology, a species of serpent, otherwise called jaculum, or the dart-snake, from its vibrating its body in the manner of a dart. It is about nine or ten inches long, and of the thickness of a man's little finger. On the back it is of a milky grey colour, variegated with small black spots, and surrounded with a white circle like so many eyes.

The neck is wholly black: and from it, there run two milk-white streaks along the back to the tail. The belly is perfectly white. It is found in Egypt, and in the islands of the Mediterranean.

ACONTIAS is also used by naturalists for a kind of comet, or rather meteor, with a roundish or oblong head, and a long slender tail resembling a javelin; from whence it takes its name.

ACONTIUM, akontion, in grecian antiquity, a kind of dart or javelin, resembling the Roman pilum.

ACOPA, in botany, a name used by some, for the marsh-trefoil. See the article TREFOIL.

ACOPA is also used for medicines, intended to allay weariness; the name implying as much.

ACOPIS, in natural history, a kind of foille falk mentioned by Pliny. See ACOPAM, the name with acopa. See ACOPE.

ACORES, in geography. See AZORES. ACORN, the fruit of the oak. See the article OAK.

Acorns are said to have been the primitive food of mankind. They are auringent,
ACQUITTAL, in law, is a deliverance or setting free from the fulfiment of guilt; as one who is discharged of a felony, is said to be acquitted thereof.

Acquittal is either in fact, or in law; in fact, it is where a person, on a verdict of the jury, is found not guilty; in law it is when two persons are indicted, one as a principal, &c. the other as accessary: here if the former be discharged the latter of consequence becomes acquitted.

ACQUITTAL is also used for a freedom from entries and molestation of a superior lord, on account of services issuing out of land.

ACQUITTANCE, a discharge in waiting for a sum of money, witnessed that the party is paid the same.

A man is obliged to give an acquittance, on receiving money; and a servant's acquittance for money received for the use of his master, shall bind him, provided the servant used to receive his master's rents. An acquittance is a full discharge, and bars all actions, &c.

ACRA, a town of Africa, on the coast of Guinea, where the British have a fort and factory: W. longitude 2°, and N. latitude 15°.

ACRASIA, among physicians, a term sometimes used for the predominance of one quality above another; and that as well in artificial mixtures, as in the humours of the human body.

ACRE, a measure of land containing four square rods, or one hundred and sixty square poles. See Measurement.

The arpent or French acre, is equal to 14 of the English acre. That of Erfurgh is only about one half of the English acre. The scotch acre is to the English acre by statute, as 100,000 to 78,694.

We have computations of the number of acres contained in several countries: thus, England is said to contain 5,000,000 millions and upwards; and the United provinces about 4½ millions.

ACRE-tax, a tax levied upon lands, at a certain rate by the acre, otherwise called acre-shot.
people were raised aloft, that they might have the better prospect.
It was of the same nature with the scansion of the latins. See Scansion.

ACROCHIRISMUS, ακροχιρισμος, in grecian antiquity, a kind of gymnastic exercise performed with the fists, without clapping at all.

ACROCHIRISTES, in grecian antiquity, one who practised, or excelled at the exercise called acrochirismus.

ACROCHORDON, among antient physicians, a painful kind of wart, very prominent and pendulous. See Wart.

ACROCORION, in botany, a name sometimes given to the spring crocuses. See Crocus.

ACROMION, or Acromium, in anatomy, the name of the upper part of the scapula, or shoulder-blade. See the article Scapula.

ACROMONOGRAMMATICUM, a kind of poem, wherein every verse begins with the same letter with which the preceding verse terminates.

ACRON, the name of a small kingdom of Africa, on the golden coast, in the lefser of which the Dutch have a fort.

ACRONYCAL, in astronomy, the same with achronyal. See Achronyal.

ACROSPIRE, the popular term for what among botanists is called the germ, plume, or plumule. See Plume.

ACROSPIRED, in malt-making, a term used for such grains of barley as fliot or sprout out at the blade-end, as will as at the root-end. See Malt and Malt-making.

To allow barley to acrospire, exhausts the substance of the grain too much, and consequentlly spoils the future malt.

ACROSTIC, in poetry, a kind of poetical composition dispowed in such a manner, that the initial letters of the verses make some person's name, title, motto. &c.

The acrostic is a species of full wit, which derives its origin from the times of monarchial ignorance.

ACROSTICUM, in botany, the name given by Linnaeus to the ruta muraria of Tournefort, a distinct genus of mollusks. See Ruta.

ACROSTYLIUM, see color, in the naval architecture of the ancient, the extreme part of the ornament used on the prows of their ships. This was of various forms; sometimes in the shape of a buckler, helmet, animal, &c. but more frequently circular, or spiral.
It was usual to tear the acrostolia from the poops of vanquished ships, as a token of victory.

Authors, not unfrequently, confound the acrostolia with the decorations of the poop or stern; as also with the rostra; from which, however, they are very distinct. See Rostrum and Ap lustre.

ACROTELEUTIC, among ecclesiastical writers, an appellation given to any thing added at the end of a psalm or hymn, as the gloria patri, or doxology.

ACROTERIA, in architecture, small pedestals upon which globes, vases, or statues stand at the ends or middle of pediments, or front pieces. The height of those at the extremes, should be only half that of the tympanum; whereas that in the middle ought to be one eighth part more. See Pe riment and Tymp anum.

ACROTERIA likewise denotes the figures placed as ornaments, or crowns, on the tops of churches; and sometimes those sharp pinnacles, flanking in ranges about flat buildings, with rails and balustrades.

ACROTERIA, among ancient physicians, a term used to denote the larger extremities of the body, as the head, hands, and feet.

ACROTERIA is also used for the tips of the fingers, and sometimes for the extremities of the bones.

ACROTERIASM, anoplasia, in ancient surgery, the amputation, or cutting off the extremities of the body. See Amputation.

ACROTHYRIA, in surgery, a large tumor, usually rising in the shape of a wart, tho' sometimes depressed and flat.

ACSOR, a town of the higher Egypt, situated upon the river Nile, and famed for its excellent earthen ware.

ACSU, or Acu, a town of astatic Tar tary, situated, according to De l'isle, in N. latitude 40° 30'.

ACT, adus, in a general sense, denotes the exertion, or effectual application of some power or faculty. Act is distinguished from power, as the effect from the cause, or as a thing produced, from that which produces it.

Philosophers and divines mention various kinds of acts, as an infinite act, or one which requires infinite power to produce it; such is creation: a finite act, or one which may be effected by a limited power; such are all human actions; a transient act, or one exercised on something foreign to the agent; such is heating: an immanent act, or one which is effected within the agent himself; such is the act of thinking.

ACT, among logicians, more particularly denotes an operation of the human mind; in which sense comprehending, judging, willing, &c., are called acts. See Comprehension, &c.

ACT, among lawyers, is used for an instrument or deed in writing, serving to prove the truth of some bargain or transaction. Thus, records, certificates, &c., are called acts.

ACT is also used for the final resolution, or decree of an assembly, senate, council, &c. See Assembly, &c.

Acts of parliament are called statutes; acts of the royal society, transactions; those of the French academy of sciences, memoirs; those of the academy of sciences at Petersburg; commentaries; those of Leipsic, Acta eruditorum; the decrees of the lords of session, at Edinburgh, Acta fiderum; &c.

Act of faith, auto da fe, in the church of Rome, a kind of jail-delivery, for burning or fettling at liberty the prisoners of the inquisition, or heretics, as they are called.

An act of faith is the utmost exertion of pious tyranny, and a reproach to humanity itself; the tragical part of which, is thus described by those who have seen it. The prisoners being cloathed in proper habits, are carried, in a solemn procession to the place of execution; where there are as many flames set up as there are prisoners to be burnt, with a quantity of dry furze about them. Those who make profession of dying in the communion of the church of Rome, are first strangled, and then burnt to ashes; but those who persist in their heresy, are chained to stakes about four feet high, a board being fixed on the top of the stake for that purpose. On this the jenits, after repeated exhortations to be reconciled to the church, deliver them over to the devil, who, they tell them, is flaming at their elbow to receive their souls, and carry them with him into the flames of hell; which instance of catholic charity is followed by loud shouts from the deluded mob, crying out, let the dogs beard be finged; this they do by holding a bufl of flaming furze, fastened to a pole, to their faces.
faces, till they are burnt to a coal. At last, fire is set to the furce at the foot of the stake; but the unhappy sufferers are placed so high, that the flame seldom reaches higher than the seat on which they sit, so that they seem rather roasted than burnt.

Such is the wretched death these poor people suffer, and that for no other reason, for crime it certainly is not, than that they cannot swallow all the absurdities of popery! How shocking is the practice! How deftroyable, beyond expression, the authors and promoters of it! From such a religion, and such diabolical maxims, will not every protestant most fervently pray God to deliver us?

As to those who escape the flames, some are imprisoned, and others obliged to do penance during their lives.

Acts, in dramatic poetry, are certain divisions, or parts of a play, designed to give some respite both to the actors and spectators. See Drama.

The acts are always five, in regular and finished pieces; a rule not unknown to the Romans, as appears from Horace, *Nea brevior quibus.*

According to some, the first act, besides introducing upon the stage the principal characters of the play, ought to propound the argument or subject of it: the second, to bring this upon the carpet by carrying the fable into execution: the third, to raise obstacles and difficulties: the fourth, to find remedies for thefe, or to raise new ones in the attempt: the fifth concludes the piece, by introducing some incident to unravel the whole affair.

Action, adio, in a general sense, signifies much the fame with act. See the article Act.

Schoolmen make several more subtle than useful distinctions of action, into univocal and equivocal, imminent and transient, &c. See Univocal, &c.

Action, in mechanics and physics, is the pressure or percussion of one body against another.

It is one of the laws of nature, that action and re-action are equal, that is, the resistance of the body moved is always equal to the force communicated to it; or, which is the same thing, the moving body loses as much of its force, as it communicates to the body moved.

Quantity of Action is used to denote the product of the weight of a body into its velocity, and into the space gone through, in proportion to which product, the action is always greater or less.

Action in ethics, something done by a free or moral agent, capable of differing from evil.

The essence of a moral action consists in being done knowingly and voluntarily: that is, the agent must not only be able to distinguish whether it be good or bad in itself but he must likewise be entirely free from compulsion of any kind, and at full liberty to follow the dictates of his own understanding. Hence the actions of idiots, slaves, &c. cannot be called moral. Hence also appears the absurdity of fatalism, which undermines the very foundation of morality.

Action, in rhetoric, may be defined, the accommodation of the voice, but more especially the gesture of an orator, to the subject he is upon.

It is chiefly directed to the passions of the audience, over whom it has an absolute sway, in a manner commanding their affent, and exciting in their breasts such emotions as the orator wants to raise. The surprising and almost incredible power of action, has been known at all times. Cicero tells us, "that it does not so much matter what an orator says, as how he says it." Horace in his art of poetry, is no less explicit in setting forth its vast influence on mankind.

With those who laugh, our social joy appears;

With those who mourn, we sympathize in tears,

If you would have me weep, begin the strain,

Then I shall feel your sorrows; feel your pain.

After all, the utility and even morality of action is controverted. Is it just, say some, to force the affent of mankind by F, addressing
addressing their passions, without first convincing their reason? In such a case, is it not to be feared that the orator will warp them to the side he himself favours? That he will make this fable of mankind subservient to his own views? &c. On the other hand, is it not evident, that mankind stand in need of such a powerful spring to set them on action? If so, where can be the injustice in making use of it, especially in conjunction with reason and solid argument?

Action, in poetry, denotes much the same with the fable, or subject of an epic or dramatic poem; only that the former may be real, whereas the latter is always feigned.

It is necessary to the perfection of an action, that it be but one, that it be entire, that it be important or affecting, and that it have a suitable duration, without being interrupted. It is no breach, however, of the unity, or integrity of the principal action, that there are subordinate ones, serving to obstruct the hero's measures.

In dramatic poetry, the principal action, together with these subordinate ones, are divided into five acts. See Act.

Action, in a theatrical sense, is nearly the same with action among orators; only the actor adapts his action to an assumed character, whereas the orator is supposed to be in reality what his action expresses, whether joyful, grieved, &c. The perfection of theatrical action consists in imitating nature, or expressing, in a lively manner, the behaviour of a man of the assumed character and circumstances.

Action, in painting and sculpture, denotes the posture of a statue or picture, serving to express some passion, &c.

Action of the mouth, in the manage, signifies an horse's champing upon the bit of the bridle, thereby emitting a ropy foam; which is looked upon as a sign of health, vigour, and mettle.

Action, in law, denotes either the right of demanding, in a legal manner, what is any man's due; or the process brought for recovering the fame.

Actions are either criminal or civil. Criminal actions are to have judgment of death, as appeals of death, robbery, &c., or only judgment for damage to the injured party, fine to the king, and imprisonment. Under the head of criminal actions may likewise be ranked penal actions, which lie for some penalty or punishment on the party sued, whether it be corporal or pecuniary.

Also actions upon the statute, brought on breach of any statute, or act of parliament, by which an action is given that did not lie before; as where a person commits perjury to the prejudice of another, the injured party shall have an action upon the statute. And lastly, popular actions, so called, because any person may bring them on behalf of himself and the crown, by information, &c., for the breach of some penal statute.

Civil actions are divided into real, personal, and mixt.

Real Action is that whereby a man claims a title, lands, tenements, &c., in fee, or for life, and this action is either possessory, or ancestral; possessory, where the lands are a person's own possession, or feisin; ancestral, when they were of the possession or feisin of his ancestors.

Personal Action, one brought by one man against another, upon any contract for money or goods, or on account of trespasses, or other offence committed; and thereby, the debt, goods, chattels, &c., claimed.

Mixt Action, one lying as well for the thing demanded as against the person who has it; and on which the thing is recovered with damages for the wrong sustained; such is an action of waste, sued against a tenant for life, the place wasted being recoverable, with treble damages for the wrong done.

All actions seem to be temporary. A real action may be prescribed against, in five years after a fine levied, or recovery suffered. Writs of formon for any title to lands in being, must be sued out within twenty years. Actions of debt, account, detinue, trover and trespasses, are to be brought within six years; of assault and battery within four years, and of slander, within two years, after cause of action, and not afterwards. However, it ought to be observed, that the right of action in these cases is saved to infants, femes covert, and persons in prison or beyond sea, &c., so as they commence their suits within the time limited after their imperfections are removed.

Actions may be brought against all persons whatever, but those who are attainted of high treason or felony, an outlawed or excommunicated person, &c., cannot bring any action till pardoned, absolved, &c. A feme covert must sue with her husband, and infants by their guardians.

Action
**ACT**

**ACTION upon the cause, a general action which lies for the redress of wrongs and injuries done without force, and which by law are not provided against.**

This at present is the most frequent of all actions, being brought in all cases where no certain form has been established; and the reason why it is called an action upon the cause, is because the whole cause or cause is set forth in the writ. It may be brought as well where there is another action, as where no other lies.

**Action upon the cause for words, is brought where a person is injured in his reputation; and for words which affect the life, office, trade, &c. or tend to the loss of preferment in marriage, or otherwise; or to the disinherition or other damage of a person.**

**Prejudicial action, otherwise called preparatory, one which arises from some doubt in the principal; as, where one sues his younger brother for lands descended. Here this point of bastardy is to be first tried or judged, before the principal cause can proceed.**

**Action of a writ, is when a person pleads some matter by which it is shown, that the plaintiff had no cause to have the writ brought; though, perhaps, he may have another writ for the same matter.**

**Action, among physicians. The actions of the human body, are divided into the vital, animal, or natural ones. Vital actions are those, without which life could not be maintained: such is the motion of the heart and lungs. Under animal actions are comprehended the senses, imagination, judgment, and voluntary motions, without which we could not live comfortably. Lastly, natural actions are those, which, though not so immediately necessary to life but that we may live some time at least without them, yet are absolutely necessary to our well-being: such is digestion.**

**Action, in commerce, a term used abroad for a certain part or share of a public company's capital stock. Thus, if a company has 400,000 livres capital stock, this may be divided into 400 actions, each consisting of 1000 livres. Hence, a man is said to have two, four, &c. actions, according as he has the property of two, four, &c. thousand livres, capital stock.**

The transferring of actions, abroad, is performed much in the same manner as flocks are with us. See Stocks.

**ACTIONARY, or ACTIONIST in commerce, a term used among foreigners, for the proprietor of an action, or share of a public company's stock.**

**ACTIVE, in a general sense, denotes something that communicates motion or action to another, in which sense it stands opposed to passive. See Passive.**

**Active principles, in chemistry, those which act of themselves, without any foreign assistance: such are mercury, sulphur, and salt, supposed to be phlegm and earth being reckoned passive ones. Some authors will have sulphur, or fire, to be the only active principle and source of all the motion in the world.**

**Others again, with what propriety we shall not take upon us to say, call oil, salt, and spirit active principles, only because their parts are better fitted for motion than those of earth or water.**

**Active, among grammarians, an appellation given to words expressing some action, as I write, I read, &c. These are denominated verbs, or active verbs, from the Latin *verbum*, a word. See Verb.**

**ACTIVITY, in a general sense, denotes that faculty or power, from whence things are denominated active. See Active. Hence all that space, wherein any body extends its virtue or influence, is called the sphere of its activity.**

**Actor, in a general sense, signifies one who acts, or does some thing. See Act and Action.**

**Actor, in a theatrical sense, is a man who acts some part, or character, in a play. See Action and Theatre. Actors were at first few in number, one or two persons often acting all the characters in a play. At present, however, their number is not limited; a circumstance which creates such a diversity as must greatly interest the spectators. It is remarkable with what difference actors were treated among the antients. At Athens, they were held in such esteem, as to be sometimes pitched on to discharge embassies and other negotiations: whereas, at Rome, if a citizen became an actor, he thereby forfeited his freedom. Among the moderns, actors are held treated in England; the French having...**
having much the same opinion of them that the Romans had.

**ACTRESS**, a woman who performs, or acts, a feminine character on the stage. See **Actor**, supra.

**ACTUAL**, an appellation given to such things as exist truly and absolutely. Thus, philosophers speak of actual heat, cold, &c. in opposition to virtual or potential; divines, of actual grace, in opposition to that which is habitual. See Heat, Cold, and Grace.

**ACTUAL fin**, that which is committed by a person himself: it is opposed to original sin. See Original.

**ACTUARII** are officers, or rather notaries, appointed to write down the proceedings of a court.

**ACTUARIUS**, an officer, or rather a notary, who kept the military accounts, and distributed the corn to the soldiers.

**ACTUATE**, a term signifying to stir up, or put in motion; thus, to actuate a person, is to prompt him to do something.

**ACTUS**, in antiquity, a measure of length containing one hundred and twenty Roman feet.

The square of the actus was just half of the Roman acre or jugerum. See Acre and Jugerum.

**ACUANITES**, in church-history, the name of a branch of manichees. See the article Manichees.

**ACUHYATLI**, the name of a serpent, otherwise called cucuru. See Cucuru.

**ACUITION**, in grammar, the name with accent. See Acutation.

**ACULEATE**, or **ACULEATED**, an appellation given to any thing that has aculei, or prickles; thus fishes are divided into those with aculeated* and not aculeated fins. See Fish.

**ACULEATUS**, in ichthiology, a name sometimes used for a small fish, called in English the flickleback.

**ACULEI**, in natural history, a term used for the prickles found on some animals as well as plants; also for the sting of bees.

**ACULEER**, in the mange, is said of a horse, when working upon volts, he does not go far enough forward, at every time or motion; so that his shoulders embrace or take in too little ground, and his croupe comes too near the center of the volta. Horset are naturally incli-
ACUTE, in music, an epithet given to sharp or shrill sounds, in opposition to those called grave.

ACUTELLA, in botany, a name sometimes given to the anons, or reef harrow. See Anonis.

ACUTENESS, that property of things from whence they are dennomated for the sharpening the arms.

ACUTION, or ACUTION, in a general sense, signifies the same with sharpening.

ACUTION, in grammar, the pronouncing, or marking, a syllable with an acute accent. See Accent or Acute.

ACUTION, among physicians, the sharpening or increasing the force of any medicine.

ACYROLOGIA, in philology, denotes an improper word, phrase, or expression: it differs a little from the catastrephes. See Catachreles.

AD, a Latin preposition, expressing the relation of one thing to another. It is frequently prefixed to other words: Thus,

AD beflas, in antiquity, a kind of punishment, which consisted in throwing the criminal to wild beasts.

AD extra, among school divines, a term applied to those operations of the deity, the effect whereof terminates without the divine essence, as creation, regeneration, &c.

The operations ad extra are opposed to those ad intra, or such as are confined within the divine essence.

AD hominem; among logicians, an argument drawn from the professed belief or principles of those with whom we argue.

AD intra, among school divines. See AD extra, supra.

AD libitum, at discretion, in music, the same with piece, or si piace. See the article Piece.

AD ludus, in roman antiquity, a kind of punishment, whereby the criminals entertained the people, either by fighting with wild beasts, or with each other. Barbarous diversion!

AD metalla, in roman antiquity, the punishment of such criminals as were condemned to the mines, and therefore called metallici. A piece of excellent policy, thus to make the punishment of rogues doubly sublervient to the good of the common wealth!

AD quidsties, among logicians. See Quiddity.

AD valorem, among the officers of the king's revenue, a term used for such duties, or customs, as are paid according to the value of the goods sworn to by the owner. Books imported from abroad formerly paid duties ad valorem; instead of which bound books now pay fourteen shillings per hundred weight, and the unbound ones seven. Stat. 9 Geo. I. c. 19.

ADA, a large town of Asia, inhabited chiefly by Armenians: it lies on the road from Constantinople to Iipahan.

ADAGE, a short sentence or proverb, containing some wise saying, or remarkable observation. We have a collection of Greek and Roman adages by Erasimus.

ADAGIO, softly, leisurely, in music, a term used to denote the slowest of all times, the grave only excepted. See Time and Grave.

Sometimes it is repeated adagio adagio, to signify a still greater retardation of time.

ADAGA, a river of Spain, in old Caflile, which falls into the Duro, between Simancas and Tordilleras.

ADAM'S apple, adami pomum, in botany, the name by which some call a species of orange, frequent in Italy, and said to be a good remedy for the itch.

ADAM'S apple, in anatomy. See ADAM'S pomum.

ADAM's peak. See the article Peak.

ADAMANT, a name sometimes used for diamond. See Diamond.

ADAMANT is sometimes also used for other things, as the flame or scorias of gold, the highf tempered iron, the magnet, &c. See ScurfE, Iron, and Magnet.

ADAMANTII, in church-history, a name sometimes given to the followers of Origin. See Origenists.

ADAM pomum, in anatomy, a prominence in the fore part of the throat; so called from an idle notion, that a piece of the forbidden apple stuck in Adam's throat, and occasioned this tumour, which in reality is only the convex part of the first cartilage of the larynx.

ADAM's pomum, in botany. See ADAM'S apple.

ADAMIC earth, terra adamicca, a name by which some call the common clay, supposed to be the adamah, or rudly earth, of which the first man was formed. A DA.
ADAMITES, in church-history, a name sometimes used for the descendants of Adam and Seth, more usually called Sethites. See Sethites.

ADAMITES is more particularly used, by ecclesiastical writers, for a sect of heretics who went naked; pretending that mankind were restored to the original state of innocence, wherein Adam was created. They were likewise accused of holding a community of women, and of lying with them in public. The protestants and papists mutually charge each other with having adamites among them.

Pre-ADAMITES. See the article Pre-Adamites.

ADAOUS, or Adows, a people of Guinea, in Africa.

ADAPTERS, vessels used in adapting. See the next article.

ADAPTING, in chemistry, is the fitting a recipient to the capital, by means of adapters. See Chemical apparatus.

ADAR, in hebrew chronology, the twelfth month of their ecclesiastical, and the sixth of their civil year. It has only twenty-nine days, and answers to the latter end of our February and beginning of March.

ADARCE, in the materia medica of the antients, a kind of salt found concreted about reeds and other vegetables in form of incrustations. It was applied externally in various cutaneous disorders, as a detergent and resolver; also for the teeth.

ADARCON, in jewih antiquity, a coin mentioned in the scriptures, usually of gold. Authors are not agreed about its value, some making it the same with the golden pieces called darics, others equal only to the attic drachm, and others twice as much.

ADARE, a small town of Ireland, in the county of Limerick.

ADARME, in commerce, a small Spanish weight used in America, and nearly equivalent to our dram. See Weight and Dram.

ADARTICULATION, a term used by some physicians for what is more usually called arthrodia and diarthrosis.

ADBIL, in geography. See ADBIL.

ADCHER, in materia medica, a name sometimes given to the scaphenth. See Schoenanth.

ADCORDABLES denarius, in our old law books, money paid to the lord, in the nature of a fine, upon a vassal's selling or exchanging a feud.

ADCRESCENTES milites, under the roman emperors, a kind of junior soldiers, not unlike our cadets.

ADDA, a considerable river of Italy, which taking its rise in the province of Bormio, traverses the lake di Como, and afterwards passing through the Milanese, falls into the Po, a little to the west of Cremona.

ADDACE, in zoology, a name by which some call the antelope, or gazella. See Antelope.

ADDEPHAGIA, in a general sense, signifies glutony or voraciousnefs; in which sense, it is made to comprehend the bulimia, pica, malacia, &c.

ADDEPHAGIA, in a more particular sense, is used for greediness in children, which makes them cram down new food before the old is well digested.

ADDER; in zoology, a name by which the viper is sometimes called. See the article Viper.

Water-Adder, in zoology, the English name of the natrix. See the article Natrix.

Adder's-stung, is said of cattle when fliug by adders, or bit by a hedge-hog, or threw. For this, some use an ointment made of dragon's blood, with a little barley-meal and the white of eggs.

Adder's tongue, Ophioglossum, in botany, a genus of plants, without any visible flower; the fruit of which is an oblong, double, or ditichous capsule, divided by transverse articulations into a great number of cells, containing small seeds of an oval shape. See plate VI.fig.3 Adder's tongue is esteemed as a vulnerary, and prescribed either internally or externally. It is a spring plant, to be found only in April and May, and may easily be distinguished by its spike or tongue. The common people are extremely fond of it, giving the expressed juice internally for wounds, bruises, &c. or applying an ointment of it, made with lard or may-butter externally.

Adder's-bow, in botany; a name by which some call bistort, or snake-weed. See Bistort.

ADDEXTRATORES, among ecclesiastical writers, denote the pope's murebearers; so called, according to Ducauge, on account of their walking at the pope's right hand, when he rides to visit the churches.

ADDICE, or Adze, a kind of crooked ax, fitted for cutting the hollow side of a board, &c.
ADDITION, in Roman antiquity, a kind of slaves who were reduced to that state, by reason they could not satisfy some creditor; who slaves they became, till they could pay or work out the debt.

ADDITION, additio, among the Romans, was the making over goods to another, whether in the way of sale, or by sentence of court: The goods so delivered were called bona additio. Debtors were sometimes delivered over in the same manner, and thence called servi additio. See ADDITIO.

ADDITAMENT, additamentum, a term used, by some physicians and chemists, for whatever new ingredients are added to a composition or menstruum, to render it more efficacious.

ADDITION, in a general sense, is the uniting or joining several things together; or, it denotes something added to another.

ADDITION, in arithmetic, the first of the four fundamental rules of that art, whereby we find a sum equal to several smaller ones.

The rule for addition of integers, is, to place all the numbers of a like kind under one another; that is, the units under units, tens under tens, hundreds under hundreds, &c. and singly to collect the sums of each. To do this, we begin with the units, and if their sum does not exceed 9, we set it down underneath; but if it exceeds 9, the excess is only to be set down; carrying one to the next row for every ten, and so of the other rows.

For example, if the sums 675 and 982 were given to be added, write $\frac{675}{982}$ either of them under the other, $\frac{675}{982}$ viz. units under units, tens under tens, &c. Then, beginning with the row of units, I say 2 and 5 make 7, which being less than 9, I write it underneath; after, which, falling to the row of tens, I say 8 and 7 make 15, the half of which numbers, viz. 5, is only to be set down; and the other carried to the next row: I fly, proceeding to the row of hundreds, I say 1 carried and 9 make 10, which added to 6 make 16: this sum is set down whole, as being that of the last row; and thus the sum of both, viz. 1657, is found. See the example in the margin.

The same method will hold, where there are a great many sums to be added, as in the example annexed: for, finding the sum of the first row to be 18, I set down 8, and carry the 1 to the next row; the sum of the second row, 2829, together with the one carried, 1, find to be 30, and accordingly let 10 down 0, and carry 3 to the row of hundreds; the sum of the third row, 91408, and the 3 carried, being 12, I set down 9, and carry one the sum of the fourth row, together with the 1 carried, is 245, so that I set down 9, and carry 2: lastly, the sum of the fifth row, together with the 2 carried, being 9, I set it down. Hence the sum of the whole is 91408.

The demonstration of the rule of addition is very easy; depending entirely upon the notation in use, and the axiom, that the whole is equal to all the parts taken together.

ADDITION of fractions, is the finding the sum of two or more given fractions, whether vulgar or decimal.

ADDITION of vulgar fractions. See the article FRACTION.

ADDITION of decimal fractions is performed in the same manner as that of whole numbers, only care must be taken, to place the decimal points always under each other.

Thus, in the example annexed, the sum of the first row, 862.2403 + 521.028 is 3, which I set down; that of the second row, 2940.706 + 3.16 = 2943.872, ed.; and so of the rest, as expressed in the margin.

ADDITION, in algebra, is the connecting, or putting together, all the letters or numbers to be added, with their proper signs $+$ or $-$. See ALGEBRA.

1. To add quantities that are like, and
have like signs, add together their coefficients, to the sum of which prefix the common sign, and subjoin the common letter or letters. Thus,

$$\begin{align*}
\text{To } &+ 19a + 5b \\
\text{Add } &+ 6a + 3b \\
\text{Sum } &+ 25a + 8b \\
\text{To } &+ 4a + 6b \\
\text{Add } &+ 2a + 8b \\
\text{Sum } &+ 6a + 9b \\
\text{To } &- 3a - 5b \\
\text{Add } &+ 2a - 8b \\
\text{Sum } &- 3a + 9b \\
\end{align*}$$

2. To add quantities that are like, but
have unlike signs, subtract the lesser coefficient from the greater, prefix the sign of the greater to what remains, and subjoin the common letters. Thus,

$$\begin{align*}
\text{To } &- 5a + 8b \\
\text{Add } &+ 2a - 2b \\
\text{Sum } &- 3a + 6b \\
\end{align*}$$
ADDITIONS, in algebra. See QUANTITY.

ADDITIONS, in law, denote all manner of designations given to a man, over and above his proper name and surname, to shew of what estate, degree, mystery, place of abode, &c. he is.

Additions of degree are the same with titles of honour, or dignity, as knight, lord; earl, duke, &c.

Additions of estate are yeoman, gentleman, esquire, and the like.

Additions of mystery or trade are carpenter, mason, painter, engraver, and the like.

Additions of place, or residence, are London, Edinburgh, Bristol, York, Glasgow, Aberdeen, &c.

These additions were ordained to prevent one man's being grieved, or molested; for another; and that every person might be certainly known, so as to bear his own burden.

If a man is of different degrees, as duke, earl, &c. he shall have the most worthy; and the title of knight; or baronet, is part of the party's name, and therefore ought to be rightly used; whereas that of esquire, or gentleman, being as people please to call them, may be used or not, or varied at pleasure.

An earl of Ireland is no addition of honour here; nay, the law-addition to the children of British noblemen is only that of esquire, commonly called lord.

Writs without the proper additions, if excepted to, shall abate; only where the process of outlawry doth not lie, additions are not necessary. The addition of a parish, not in any city, must mention the county, otherwise it is not good.

ADDITION of ratios, the same with what is otherwise called composition of ratios. See COMPOSITION AND RATIO.

ADDITION, among distillers, a general term for such things as are added to the wash, or liquor, while fermenting, with a view to increase the fineness and quantity of the spirit, or to give it a particular flavour.

Additions, which the less intelligent confound with ferments, are chiefly salts, acids, aromatics, and oils. Tarragon, common, or common salt, reduced to a fine powder; also the juice of seville-oranges, lemons, spirit of sulphur, &c. added to the liquor, serve chiefly to improve the violous acidity of the spirit. But for increasing its quantity, or giving it a fine flavour, they use the pungent aromatics and oils. A large quantity of rectified, or any other spirit, may likewise be mixed with the liquor to be distilled; which will not only come back, but considerably increase the quantity of spirit to be procured from the distillation.

ADDITION, in heraldry, something added to a coat of arms, as a mark of honour; and, therefore directly opposite to abatement. See ABATEMENT.

Among additions we reckon a border, quarter, canton, gyron, pile, &c. See BORDER, QUARTER; &c.

In this manner the arms of a kingdom, or state, have been added to those of noblemen; as happened to the dukes of Boufflers and Richlieu in the late Italian war, who, by a decree of the senate of Genoa, were permitted to add the emblems of that republic to those of their families.

ADDITION, in music, a dot marked on the right side of a note, to signify that it is to be prolonged or lengthened half as much more as it would have been without such mark. See NOTE and CHARACTER.

ADDITIONAL, in a general sense, denotes something over the usual sum or quantity.

ADDITIONAL DUTIES, those charged upon certain commodities, ever and above what they were formerly obliged to pay.
ADDITIVE, in a general sense, signifies something to be added: mathematicians speak of additive ratios, alchemists of additive equations. See the article RATIO and EQUATION.

ADDOU, one of the maldivian islands. See MALDIVIAN.

ADDUBORS, in law, the same with re- dubbors. See REDUBBORS.

ADDRESS, in a general sense, denotes the nice management of an affair, or the transacting it with great propriety and skill.

ADDRESS is, more particularly, used for a speech made to the king in the name of some considerable body of men, by way of congratulation, petition, or remonstrance.

Addresses of parliament were first set on foot under Oliver Cromwell.

ADDUCENT muscles, among anatomists, the same with those more usually called adductors. See ADDUCTOR.

ADDITION, adductio, among anatomists, denotes the action of the muscles called adductores. See ADDUCTOR.

ADDUCTOR, in anatomy, a general name for all such muscles as serve to draw one part of the body towards another. Thus, ADDUCTOR brachii is a muscle of the arm, serving to bring it towards the thumb of the body. ADDUCTOR indicis, a muscle of the forefinger, which draws it towards the thumb.

ADDUCTOR oculi, a muscle of the eye, directing its pupil towards the nose; and otherwise called hibitorius, for a like reason. Anatomists reckon up several other adductors, as the adductor pollicis, the adductor pollicis profundus, adductor minimi digitii pedis, adductor proficiens, &c.

ADEA, a province of Annian, on the eastern coast of Africa, called by some Adel.

ADEB, in commerce, a weight used in Egypt, principally for weighing rice.

ADEC, a name sometimes used for milk, or butter-milk.

ADEL, in geography, the capital city of Adea. See ADEA.

It is situated about three hundred miles south of the straits of Babelmandel.

ADEL-fid, a name by which some call the albula nobilis. See the article ALBULA.

ADELBERG, a small town in Germany, in the duchy of Wurttemberg.

ADELING, in our old writers, the same with Asheling. See ATHELING.

ADELPHIANI, in church-history, a sect of heretics, who always fatted on Sundays.

ADELSCALC, in old writers, denotes a servant of the king.

Adelicals, among the Bavarians, seem to have been the same with royal thanes among the Saxons, and the miniftri regis in ancient charters.

ADELSPERG, a small town and castle in Germany, in lower Carniola.

ADEMPTION, ademption, among civilians, denotes the revocation of some donation or favour. See REVOCATION. The ademption of a legacy may be done either in express terms, or indirectly, by disposing of it otherwise.

ADEN, a sea-port town of Arabia Felix; a little caftward of the straits of Babelmandel.

ADENANTHERA, in botany, a genus of plants, the flower of which consists of five leaves, and is of a campanulated form. It is one of the decandria-clas of Linnæus, with a long compressed pod, containing several round seeds.

ADENBURG, a town of Germany, situated in the circle of Welfphalia, and duchy of Berg.

ADENDUM, a small town of Africa, in the kingdom of Fez.

ADENOGRAPHY, adenoquia, that part of anatomy which treats of the glands. See GLAND.

ADENOIDES, a name sometimes given to the prostate. See PROSTATES.

ADENOLOGY, the fame with adenography. See ADENOGRAPHY.

ADENOΣE alseis, adenosus alseus, is used for a hard tubercule, difficult to be diffused, and resembling a gland. See ABCESS.

ADEPS, in anatomy, denotes the fat found in the abdomen; differing from the common fat, or pinguedo, as being thicker, harder, and of a more earthy substance.

ADEPS, among physicians, is used in a more general sense, for all kinds of animal fat; these they prescribe for their ripening quality. See RIPENERS.

ADEPTS, the name given to the proficient in alchemy, particularly those who pretend to have found out the philosopher's stone, and the panacea, or universal medicine.

Alchemists will have it, that there are always twelve adepts; the places of those who die being immediately supplied by others of the fraternity.
ADEQUATE, in a general sene, something exactly corresponding with another. Thus, Adequate ideas, are those which perfectly represent all the parts and properties of the object. See IDEA.

In this sense, the idea of a figure bounded by a curve line, which returns into itself, and whose parts are all equally distant from a certain point in the middle, is an adequate idea of a circle.

All simple and abstracted ideas are adequate ones, because they represent objects as they really are: whereas those of substances are inadequate, in regard our knowledge of substances is extremely defective.

ADERAIMIN, in astronomy, the fame with alderamin. See ALDERAIMIN.

ADERBERG, Adersborth, or Aderburg, a town of Pomerania, situated upon the Oder.

ADESENARIANS, adeffenarii, a sect of christians, who maintain that Jesus Christ is really present in the eucharist, though not by way of transubstantiation. See TRANSUBSTANTIATION.

The adeffenarians differ among themselves, some of them holding, that the body of Jesus Christ is in the bread; others, that it is about the bread; others, that it is with the bread; and others, that it is under the bread. See EUCHARIST.

ALDECTED EQUATIONS, in algebra, those wherein the unknown quantity is found in two or more different powers: such is

\[ x^2 - ax^2 + bx = a^2 - b. \]

For the solution of these and other equations, see the article EQUATION.

ADFILLATION, adfillia’en, a gothic custom, whereby the children of a former marriage are put upon the same footing with those of the second marriage. This is otherwise called une proelum, and still retained in Germany, under the name Linkkindtost.

ADHATODA, in botany, a genus of plants, the flower of which is perforated, consisting of one leaf divided into two lips, the upper one of which is bent backwards, and the lower one divided into three segments; the pillif, which is fixed into the lower part of the flower, in the manner of a nail, finally becomes a club-shaped fruit, or capsule, flat, and divided into two cells, containing several small, compression, and heart-like seeds. See plate VI. fig. 4.

ADHERGA Γ, a town of Syria, near the frontiers of Arabia.

ADHESION, in phSiology, is used to denote the sticking together of two bodies. Mulchenbroek has given many curious experiments on the adhesion of bodies, which he attributes to attraction. See Attraction.

ADHESION, among logicians, denotes the maintaining some tenet, merely on account of its supposed advantage, without any positive evidence for its truth.

ADHESION, in medicine and anatomy. There are frequent instances of the adhesion of the lungs to the pleura and diaphragm, which occasions many disorders. We also read of adhesions of the intestines, of the dura mater to the cranium, &c.

ADHOA, adhoomentum, in ancient customs, the fame with what is otherwise called relief. See Relief.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.

ADJACENT, an appellation given to such things as are situated near, or adjoining to each other: thus, we say, an adjacent angle, adjacent country, &c.
ADJUDICATION is, more particularly, used for the transferring the property of a thing sold by auction to the highest bidder.

ADJUNCT; adjunctibus, among philosophers, something added to another, to which it does not naturally belong: thus water in a sponge, is an adjunct to it; so are cloaths to a man.

Adjuncts are what we commonly call circumstances: these, in ethics, are commonly reckoned seven, quis, quid, vis, quius, quidam, cuin, quemodo, quando.

Adjuncts, in rhetoric, a denomination given to all words added with a view to increase the force of the discourse; such are adjectives, attributes, epithets, &c.

Adjunct is also used for a colleague, or assistant. Thus,

Adjunct gods, in heathen theology, were a kind of inferior deities, whose office it was to afflict the superior gods: such were Mars, Bellona, and Nemesis accounted.

Adjuncts, in the Paris academy of sciences, are a set of members attached to the study of some particular science. They are twelve in number; two for geometry, two for astronomy, two for anatomy, two for mechanics, two for chemistry, and two for botany. See Academy.

Adjunction, the act of joining several things together. See Adjunct.

There are different kinds of adjunction; as by adhesion, apposition, imposition, &c.

AD JURA REGIS, in law, a writ which lies for a clerk presented to a living by the king, against those who endeavour to eject him, to the prejudice of the king's title.

Adjuration, that part of exorcism which consists in commanding the evil spirit, in the name of God, to depart out of the possessed person, or to answer some question.

Adjutage, or Ajutage, in hydraulics, the tube fitted to the mouth of a jet d'eau.

It is through the adjutage that water is played, and directed into any desired figure; so that the great diversity of fountains consists chiefly in the different structure of their adjutages. See Fountain.

Adjutant, in the military art, an officer whose business it is to assist the major, and therefore sometimes called the aid-major. See Major.

Each battalion of foot, and regiment of horse, has an adjutant, who receives the orders every night from the brigade-major; which, after carrying them to the colonel, he delivers out to the lieutenant.
When detachments are to be made, he gives the number to be furnished by each company, and assigns the hour and place of rendezvous. He also places the guards, receives and distributes the ammunition to the companies; and, by the major's orders, regulates the price of bread, beer, &c.

**ADJUTANT** is sometimes used by the French, for an aid de camp. See Aid de camp.

**ADJUTANTS general**, among the Jesuits, a select number of fathers, who reside with the general of that order: they have each a province or country assigned them, as England, Germany, &c. and their business is to inform the father general of state occurrences in such countries.

**ADJUTORIUM**, among physicians, is used for a medicine prescribed along with another more efficacious one; and, particularly, for an external application, after the proper use of internal medicines.

**ADJUTORIUM**, in anatomy, a name sometimes given to the humerus, or shoulder-blade. See HUMERUS.

**ADILE eggs**, such as have not been impregnated by the cock. See the article EGG.

**ADLEGATION, adlegatio**, in the customs of Germany, a right claimed by several princes of that empire, to send plenipotentiaries conjointly with those of the emperor, to all negotiations wherein the empire in general is concerned. The emperor disputes this privilege of adlegation; but allows them to send ambassadors about their own private affairs.

**ADLOCUTION, adlocutio**, in Roman antiquity, signifies the speech made by generals to their army, in order to arouse their courage before a battle.

**ADMANUÉNSES**, in our old law books, a term denoting laymen, who swore by laying their hands on the book: whereas the clergy were forbid to swear on the book, their word being deemed equal to an oath.

**ADMENEMENT**, in law, a writ for adjusting the shares of something to be divided. Thus,

**ADMENEMENT of dower** takes place, when the widow of the deceased claims more as her dower than what of right belongs to her. And,

**ADMENEMENT of pasture** may be obtained, when any of the persons who have right in a common pasture, puts more cattle to feed on it than he ought.

**ADMINICLE, adminiculum**, in our old law books, is used for aid, help, or support.

**ADMINICLE**, in the French jurisprudence, signifies the beginning or first sketch of a proof.

**ADMINICLES**, among antiquarians, denote the attributes or ornaments where with Juno is represented on medals.

**ADMINICULATOR, in church-history**, an officer otherwise called advocate of the poor. See Advocate.

**ADMINISTRATION**, in a political sense, denotes, or ought to denote, the attendance of the trustees of the people on public affairs; but, more particularly, administration is used for the executive part of the government, which is said to be good or bad, according as the laws are duly enforced, and justice done the subjects. See Government.

**ADMINISTRATION, in law**, the office of an administrator. See Administrator. Whenever a man dies intestate, letters of administration are taken out in the prerogative court.

**ADMINISTRATION is also used for the management of the affairs of a minor, lunatic, &c.**

**ADMINISTRATION, among ecclesiastical writers**, denotes the power wherewith a parson is invested, and that as well in regard to the temporalities of his cure, as to its spiritualities, viz. the power of excommunicating, of administering the sacraments, &c.

**ADMINISTRATION, among anatomists**, denotes the art of properly dissecting the parts of the human body, and particularly the muscles.

**ADMINISTRATION, in commerce**, a regulation at Calao, a city of Peru, obliging all ships allowed to trade on the coast, to unload their European goods, and pay certain duties.

**ADMINISTRATOR, in law**, the person to whom the goods, effects, or estate of one who died intestate, are entrusted; for which he is to be accountable, when required.

The bishop of the diocese where the party dies, is regularly to grant administration: but if the intestate has goods in several dioceses, administration must be granted by the archbishop in the prerogative court.

The persons to whom administration is granted, are a husband, wife, children, whether sons or daughters, the father or mother, brother or sisters, and, in gene-
ADMIRAL is also less elegantly formed. long as the ice, ADMIRAL also denoting ADMIRAL, properly denotes to dry ADMINISTRATRIX, a appeal from the vice-admiral, and towns; who are upwards of twenty such vice-deputies of the nobles, the invested with vice-mall:-head; the vice-admiral at the fore-ADMIRALTY, properly at the mizen-top-mast-head. The vice-admiral, who commands the second admiral carries his flag at the main-top-mast-head; the vice-admiral at the fore-top-maft-head; and the rear-admiral, commands the third squadron. The admiral carries his flag at the main-top-mast-head. The rear-admiral, who commands the third squadron. The admiral carries his flag at the main-top-mast-head of vessels employed from the vice-admiral, the lord high-admiral in Britain; that office being executed by a certain number of commissioners, called lords of the admiralty. See ADMIRALTY.

ADMIRAL also denotes the commander in chief of a single fleet or squadron; or, in general, any flag officer whatever. In the British navy, besides the admiral who commands in chief, there are the vice-admiral, who commands the second squadron; and the rear-admiral, who commands the third squadron. The admiral carries his flag at the main-top-mast-head; the vice-admiral at the fore-top-maft-head; and the rear-admiral, at the mizen-top-maft-head. See FLAG. Vice-ADMIRAL likewise denotes an officer invested with the jurisdiction of an admiral, within a certain county or diocese. There are upwards of twenty such vice-admirals in Great-Britain; but an appeal lies from their sentence, or determination, to the admiralty-court in London.

In France, the admiral is one of the great officers of the crown, general of the marine, and of all the naval forces of the kingdom. From him the captains and masters of trading vessels are obliged to take their licences, passports, commissions, and safe conducts.

The tenth of all prizes belongs to him, and the whole of all fines adjudged in the courts of admiralty. He also has the duty of anchorage, towage, &c.
ADMIRALTY-Court, or court of admiralty, in the British polity, a sovereign court, held by the lord high-admiral, or the commissioners of the admiralty. This court has cognizance in all maritime affairs, civil as well as criminal. All crimes committed on the high-seas, or in great rivers, beneath the bridge next the sea, are cognizable only in this court; which, by statute, is obliged to try the same by judge and jury. But in civil causes, it is otherwise, these being all determined according to the civil law; the reason whereof is, because the sea is without the jurisdiction of the common law.

In case any person be sued in the admiralty court, contrary to the statutes, he may have the writ of superedeas to stop farther proceedings, and also an action for double damages against the person suing.

Subordinate to this court, there is another of equity, called court-merchant; wherein all causes between merchants are decided, agreeably to the rules of the civil law.

ADMIRANTO, or Admiranti, a river of Sicily, which, running by Montreil, falls into the Mediterranean, near Palermo.

ADMIRATION, in a general sense, denotes the fact of being much delighted with, or highly prizing, some rare excellence; and sometimes for the amusement, conceived at some extraordinary event.

Grammarians have a character for expressing this affection, or state of mind, called a point of admiration, and marked thus (′).

ADMISSION, admisso, among ecclesiastical writers, denotes the act of a bishop's admitting, or allowing a clerk to be able, or qualified for serving a cure. This is done after examination, by pronouncing the formula admitto te habere. If any person presume to be admitted, who has not episcopal ordination, he shall forfeit 100 l.

ADMITTENDO clericò, a writ granted to a person, who has recovered his right of presentation in the common pleas; by which the bishop, or metropolitan, is ordained to admit his clerk. See the article Admission.

ADMITTENDO in faction, a writ associating certain persons, usually knights, and other gentlemen of the county, to the justices of assize already appointed.

ADMONITION, in church-history, a part of discipline, which consists chiefly in warning an offender of the irregularities he is guilty of, and advising him to mend his manners.

By the ancient canons, nine admonitions were required before excommunication. See Excommunication.

ADMONITIO fitllum, among the Romans, a military punishment, not unlike our whipping, only that it was performed with vine branches.

ADMORTIZATION, in the feudal customs, the reducing the property of lands or tenements to mortmain. See Mortmain.

ADNAME, among grammarians. See the article Annex.

ADNASCENTIA, among gardeners. See Adnata.

ADNATA, in anatomy, one of the tunics or coats of the eye, otherwise called conjunctiva and albigeum.

It is the same part with what is called the white of the eye, formed by the tendinous expansions of the muscles which move the eye. See the article Eye.

ADNATA also a term used for such things as grow upon animal or vegetable bodies, whether inerably, as hair, wool, horns, &c. or accidentally, as the several epiphytic plants.

ADNOUN, or ADNAME, adnomen, terms sometimes used to denote an adjective. See Adjective.

AD-OCTO, a phrase used by ancient philosophers, importing the highest degree of perfection, by reason they reckoned none above the eighth.

ADOLESCENCE, adolescentia, the flower of a man's youth, commencing from his infancy, and terminating at his full stature or manhood.

This period of human life is commonly computed from fifteen to twenty-five years of age. Among the Romans, it was reckoned from twelve to twenty-five, in boys; and from twelve to twenty-one in girls.

ADOM, a town of lower Hungary, situated upon the Danube, about three miles below Pusta.
ADO

ADO is also a small kingdom of Guinea.

ADONAI, one of the names of God used in the scriptures, and properly signifying my lord, in the plural, as adoni does my lord in the singular number.

ADONIA, in antiquity, festivals kept in honour of Venus, and in memory of her beloved Adonis.

The adonia lasted two days, on the first of which the images of Venus and Adonis were carried with great solemnity, in manner of a funeral; the women crying all the while, tearing their hair, and beating their breasts. On the second, changing their note, they sung his praises, and made recitings, as if Adonis had been railed to life again.

The adonia were celebrated by most antient nations, as Greeks, Egyptians, Syrians, Lyceans, &c. The prophet Ezekiel c. viii. ver. 14. is thought to mean these festivals.

ADONIAS, in botany, a name given by the antients to the anemone, or wind-flower, as being supposed to have been produced by the tears of Venus, when lamenting the death of her beloved Adonis. See ANEMONE.

ADONIC, in antient poetry, a kind of verse consisting of a daityle and spondee or trochee, marked thus - vo | or - vo | as fiella refulit.

This kind of verse had its name adonic, on account of its being originally used in the lamentations for Adonis. However, its principal use among poets, is to serve as a conclusion to each strophe of saphic verse.

ADONIDES, in botany, an appellation given to such botanists as have given descriptions or catalogues of the plants cultivated in some particular place.

ADONION, in botany, a name used by the antients for a species of southern wood. See SOUTHERN-WOOD.

ADONIS, in zoology, a small fish, of a cylindrical shape, and about six inches long, supposed by Mr. Ray, to be the same with the exocoetus. See EXOCOETUS.

ADONIS FLO, in botany, a genus of polyandrous plants called in English pheasant's eye, or red maithers, the characters of which are these: the leaves are like those of fennel, or chamomile; the flower is rotaceous; being composed of many petals; disposed in the form of a rote; and the seeds are collected in oblong heads.

ADONIS PEDIA; among the antients, a kind of drink made of wine mixed with fine flour.

Vol. I.

ADOPTIANI, in church-history, a sect of heretics, who maintained that Christ, with respect to his human nature, was not the natural, but adoptive son of God.

ADOPTION, adoptio, a solemn act, whereby one man makes another his heir; investing him with all the rights and privileges of a son.

Adoption was in frequent use among the Greeks and Romans, who had many regulations concerning it. The Lacedemonians, in order to prevent incon siderate adoptions, had a law, that they should be transacted; or at least confirmed, before their kings; at Athens, flaves, madmen, and persons under age, were incapable of adopting; and at Rome, adoptions were confirmed before the pretor, in an assembly of the people, or by a rescript of the emperor.

Adoption being chiefly designed for the comfort of those who had no children of their own, was looked upon as a kind of imitation of nature. Accordingly, young men were not permitted to adopt their elders; on the contrary, it was necessary that the adopter should be eighteen years older than his adopted son, to give an appearance of probability of his being the natural father.

Children, thus adopted, were invested with all the privileges, and obliged to perform all the duties of natural children, even to the assuming the names of the person who adopted them; and being thus provided for in another family, they ceased to have any claim of inheritance, or kindred, in the family they had left, unless they first renounced their adoption; which, by Solon's laws they were not permitted to do, till they had begotten children to bear the name of their adopted father.

On the other hand, the person who had once adopted children, was not permitted to marry afterwards, without express leave from the magistrates; whom it was usual to petition for such a licence, in case the adopted children acted an ungrateful part.

Among the Romans, before adoption could take place, the natural father was obliged to renounce all authority over his son; and with great formality consent that he should be translated into the family of the adopter. The adoption of a person already free was called adrogation.

The ceremonies of adoption being various, have given rise to a great many
ADOPTION, in a theological sense, denotes an act of God's free grace, whereby those who believe in Christ are accounted the children of God, and entitled to a share in the inheritance of the kingdom of heaven.

ADOPTIVE, in a general sense, signifies something adopted. Thus, we say, adoptive children, an adoptive book, &c. This last is the title given by Menage to a book of elegies, or verses addressed to him.

ADOPTIVE ARMS, in heraldry, those enjoyed by the concession of another, which the adopter is obliged to marshal with his own, as being the condition of some honour or estate left him.

ADOPTIVE is sometimes also used for borrowed or foreign: thus we say adoptive hair, adoptive gods, &c. Of adoptive hair, are made all manner of wigs, têtes, &c. at present in rich universal use.

Besides their domestic gods, the Romans had a multitude of adopted ones, borrowed from foreign nations.

ADOPTIVI, in church-history, the same with adoptiani.

ADOR, in antiquity, the same with adorea. See ADOREA.

ADORATION, adoratio, denotes the act of worshipping God, or a being supposed to be God.

The word comes from ad, to; and oris, the mouth, and imports, to kiss the hand, this being universally acknowledged to be a mark of great respect.

Among the Jews, adoration consisted in kissing the hands, bowing, kneeling, and even prostration. Hence, in their language, the word kissing is used for adoration. As to the ceremony of adoration among the Romans, it was performed with the head veiled, or covered; the devotee applying his right-hand to his lips, the fore-finger resting on the thumb, which was erect; and then bowing, he turned himself round from left to right. The Gauls, on the contrary, thought it more religious to turn from right to left; and the Greeks, to worship with their heads uncovered. The Christians follow the Grecian rather than the Roman mode, by uncovering when they perform any act of adoration.

Divines speak of a great many kinds of adoration: thus, we read of supreme adoration, or that which is paid immediately to God; of subordinate adoration, rendered to inferior beings; of absolute adoration, or that paid to a being on account of its own perfections: this is opposed to relative adoration, or that paid to an object, as belonging to, or representing another.

ADORATION is also used, in a civil sense, for any extraordinary homage or respect paid by one man to another.

The Persians adored their kings, by falling prostrate before them, striking the earth with their fore-heads, and kissing the ground. This was a piece of servility, which Conon, a nobleman of Athens, refused to comply with, when introduced to Artaxerxes; neither would the philosopher Calisthenes perform it to Alexander the great, as judging it impious and unlawful.

The Roman emperors were adored, by bowing or kneeling at their feet, laying hold of their purple robe, and immediately withdrawing the hand, and kissing it.

ADORATION is more particularly used, for the ceremony of paying homage to the pope, by kissing his feet; which not only the people, but the greatest prelates, and even princes make no scruple of performing. Protestants have hence taken occasion, and not without reason, to charge the popes with excessive pride, and even impiety.

ADORATION is still more particularly used, for a method of electing a new pope, when the cardinals, instead of proceeding in the usual way, unanimously fall down and adore one of their own number. Adoration is the last ceremony of a regular election, but here it is the election itself, or rather supercedes it.

Perpetual ADORATION, in the church of Rome, a kind of religious society, frequent in the populish countries; which consists of devout persons, who, by regularly relieving each other, keep constantly praying before the eucharist both day and night.

ADOREA, in Roman antiquity, a word used in different senses: sometimes for all manner of grain; sometimes for a kind of cakes made of fine flour, and offered in sacrifice; and, finally, for a dole
ADR [51] ADV

dole or distribution of corn, as a reward for some service; whence, by metonymy, it is put for praise or rewards, in general.

ADOSCULATION, a term used by Grew for a kind of impregnation, effected by the external contact of the parts of generation, without intromission. Such he supposes that of several birds and fishes, as well as of plants, which is effected by the falling of the farina feeundans on the pistil.

ADOSSEE, in heraldry, a term used for two rampant animals, placed back to back. It also denotes any other figure, as axes, keys, &c. placed with their heads facing different ways.

ADOUR, the name of three rivers of France, in the province of Gacony; which, arising from different sources, afterwards unite, and fall into the bay of Biscay below Bayonne.

ADOXA, in botany, a genus of plants, otherwise called moschatellina. See MOSCHATELLINA.

ADPERCEPTION, a term used by some for the mind’s consciousness of its own perceptions. See PERCEPTION and IDEA.

AD PONDUS OMNIIUM, among physicians, denotes, that the last mentioned ingredient ought to weigh as much as all the rest put together.

ADQUISITUS, in antique music, a name given by the Romans to the note called by the Greeks προσθαμινον. See PROTHAMION.

AD QUOD DAMNUM, in law, a writ which ought to be issued before the king grants certain liberties, as a fair, market, or the like; ordering the sheriff to enquire by the country what damage such a grant is like to be attended with. This writ is also issued, for making the same enquiry with respect to lands granted to religious houses, or corporations; for turning and changing of highways, &c.

ADRACANTH, the same with tragacanth. See TRAGACANTH.

ADRACHNE, a name given to a species of the arbutus, or strawberry-tree. See the article ARBUTUS.

ADRASTIA, in antiquity, a kind of pythian, games, celebrated at Argos. See PYTHIAN.

ADDRESS, or Address. See ADDRESS.

ADRRIA, a small town of Italy, about twenty-six miles south of Venice, formerly a bishop’s see, which is now translated to Rovigo.

It was from this town that the adriatic sea, or gulf of Venice, took its name.

ADRIANISTS, in church-history, a branch of anabaptists. See the article ANABAPTIST.

ADRIANOPLE, a great and populous city of Turkey in Europe, situated in a fine plain, on the river Marizam, about 150 miles N. W. of Constantinople. It is eight miles in circumference, and frequently honoured with the grand signior’s presence. E. long. 26° 30’ N. lat. 42°.

ADRIATIC sea, the same with the gulf of Venice, being a very considerable branch or part of the Mediterranean, reaching from Otranto to Venice, and washing the northern coast of Italy.

ADRINZA, the modern name of Affriza, once the mitres of the world. See ASSYRIA.

ADRIUNE, in botany, a name used by some for the plant more commonly called cyclamen. See CYCLAMEN.

ADROBE the name of two rivers in that part of Asiatic Tartary, which is subject to Moscovy: they both fall into the Wolga beneath Cazan.

ADROGATION, in antiquity, that kind of adoption, which took place in regard to a person already his own master. See ADOPTION.

It was so called on account of a question put to both the parties; to the adopter, whether he would take such a person for his son; and to the adopted, whether he consented to become such a person’s son?

ADSCRIPTS, a term used by some mathematicians for the natural tangents. See TANGENT.

ADSIDELLA, in antiquity, the table at which the flamens fat during the sacrifices. See SACRIFICE.

ADSTAT, a small town belonging to Denmark in the island of Iceland, not far from Holar.

ADSTRICTION, among physicians, is used to denote the too great rigidity and closeness of the emunctories of the body, particularly the pores of the skin: also for the styptic quality of medicines. See ASTRINGENTS.

AD TERMINUM qui præterit, in law, a writ of entry, that lies for the leflee or his heirs, if after the expiration of a term for life or years, granted by lease, the tenant or other occupier of the lands, &c. witholds the same from such leflee.

ADVANCE, in the mercantile style, denotes money paid before goods are delivered.
work done, or business performed.
    To pay a note of hand, or bill, by ad-
    vance, is to pay the value before it be-
    comes due; in which case it is usual to
    allow, a discount for the time it is pre-
    advanced.

ADVANCED, in a general sense, denotes
something posted or situated before an-
other. Thus,

ADVANCED ditch, or moat, in fortifica-
tion, is that drawn round the glacis or
esplanade of a place. See MOAT.

ADVANCED guard, or VANGUARD, in the
art of war, denotes the first line or di-
vision of an army, ranged, or marching
in order of battle; or it is that part
which is next the enemy, and marches
first towards them. See ARMY.

ADVANCED guard, is more particularly
used for a small party of horse stationed
before the main-guard. See GUARD.

ADVANCER, among sportsmen, denotes
one of the starts, or branches of a buck's
attire, between the back antler, and the
palm.

ADVAR, in the arabian and moorish
cultums, a kind of ambulatory village,
consisting of tents; which these people
remove from one place to another, as
suirs their convenience.

ADVENT, in the calendar, denotes the
time immediately preceding Christmas.
It includes four sundays, or weeks,
which begin either on St. Andrew's day,
or on the sundsay before or after it.

The term advent, adventus, properly
signifies the approach or coming on of
the feast of the nativity. See the article
NATIVITY.

During advent, and to the end of the
columes of epiphany, the solemnizing of
marriage is forbid, without a special li-
cence. See MARRIAGE.

ADVENTITIOUS, an appellation given
to whatever accrues to a person or thing
from without. Such are jury incrusta-
tions upon wood, &c.

ADVENTITIOUS, among civilians, denotes
all such goods as are acquired acciden-
tally, or by the liberality of a stranger,
&c.

ADVENTITIOUS fofils, the same with ex-
traneous or foreign ones, found imbed-
ded in other fossils: such are shells,
bones, &c. in stone.

ADVENTITIOUS fupper, adventitia cena,
in antiquity, an entertainment made for
a person’s return from a journey, or voy-
age, otherwise called adventoria cena.

ADVENTREM inspiciendum, in law, a
writ by which a woman is to be searched
whether she be with child by a former
husband, on her with-holding of lands
from the heir.

ADVENTURE, in a general sense, de-
notes some extraordinary event, espe-
cially such as falls out accidentally.

ADVENTURE also denotes a hazardous,
or difficult undertaking, the success
whereof depends on something not in the
power, or under the control of the ad-
venturer; in which sense, sending goods
to sea, fighting a battle, &c. are great
adventures.

Bill of ADVENTURE, among merchants,
a writing signed by a merchant, testify-
ifying that the goods mentioned in it to
be shipped on board a certain vessell, be-
long to another person, who is to run all
hazards; the merchant only obliging
himself to account to him for the pro-
duction of them, be what it will.

ADVENTURER, in a general sense,
denotes one who hazards something.
See the article ADVENTURE.

By statute 13 Geo. II. c. 4, adventurers
may obtain a charter for whatever set-
tlements in America they shall take from
the enemy.

ADVENTURERS, or merchant-adven-
turers, a company of merchants erected
for the discovery of lands, trades, &c.
See COMPANY.

ADVERB, adverbium, in grammar, a
word joined to verbs, expressing the man-
er, time, &c. of an action; thus, in
the phrase, it is conducive to health to
rise early, the word early is an adverb:
and to of others.

Adverbs are also added to nouns, and
even to other adverbs, in order to mo-
dify, or ascertain their meaning; whence
some grammarians call them modifica-
tions: thus, in the phrase, be prayed
very devoutly, the word devoutly qual-
ifies the action of prayer, and the word
very does the fame in regard to de-
voutly.

Adverbs, though very numerous, may
be reduced to certain classes; the prin-
cipal of which are those of order, of place,
of time, of quantity, of quality, of man-
ner, of affirmation, doubting, comparison,
interrogation, diminution, &c.

ADVERBIAL, something belonging to
adverbs: thus we say, an adverbial
phrase, number, &c. See ADVERB.

Thus, over again, by way of, &c. are
adverbial expressions; and once, twice,
three, &c. adverbial numbers.
ADVERSARIA, among the antients, was a book of accounts, not unlike our journals, or day-books.

ADVERSAIRY is more particularly used, among men of letters, for a kind of common-place-book, wherein they enter whatever occurs to them worthy of notice, whether in reading or conversation, in the order in which it occurs: a method which Mörhof prefers to that of digesting them under certain heads. See the article BOOK.

ADVERSAIRY is also used for books containing various observations, remarks, &c. or even a commentary upon some author or writing.

ADVERSARY denotes a person who is an enemy to, or opposes another.

ADVERSARY, in a law sense, is used indifferently for either of the contending parties, considered as opposing the other.

ADVERSATIVE, in grammar, a word expressing some difference between what goes before and what follows it. Thus, in the phrase, he loves knowledge but has no application, the word but is an adverative conjunction; between which and a disjunctive one there is this difference, that the first sense may hold good without the second opposed to it, which is otherwise in regard to disjunctive conjunctions. See DISJUNCTIVE.

ADVERSATOR, in antiquity, a servant who attended the rich in returning from supper, to give them notice of any obstacles in the way, at which they might be apt to stumble.

ADVERTISEMENT, in a general sense, denotes any information given to persons interested in an affair.

ADVERTISEMENT is more particularly used for a brief account of an affair inferted in the daily or other public papers, for the information of all concerned, or who may find some advantage from it.

Advertisements of this kind are certainly of great use to the public. Traders, shipmasters, companies, and every man, of what rank or condition ever, find their advantage in them. Nay, as the best things are capable of being abused, even sharpers, quacks, and a long &c. of designing rogues make use of them to impose upon the credulous and unwarly.

ADVICE, or letter of ADVICE, a lettermissive, by which a merchant, or banker, informs his correspondent, that he has drawn a bill of exchange, that his debtors’ affairs are in a bad state, or that he has sent a quantity of merchandize, whereof the invoice is usually annexed. See the article INVOICE.

A letter of advice for the payment of a bill of exchange should mention the name of the person for whose account it is drawn, the day, month, and year; the sum drawn for; the name of him from whom the value is received; and the person’s name to whom it is payable.

For want of such advice, it is very allowable to refuse accepting a bill of exchange.

ADULT, in a general sense, an appellation given to any thing arrived at maturity; thus, we say an adult person, an adult plant, &c.

ADULT, among civilians, denotes a youth between fourteen and twenty-five years of age.

ADULTERATION, in a general sense, denotes the act of debasing, by an improper mixture, something that was pure and genuine. Thus, ADULTERATION of coin, is the casting or making it of a metal inferior in goodness to the standard, by using too great a proportion of alloy. This is a crime which all nations have made capital.

ADULTERATION, in pharmacy, is the using ingredients of less virtue in medicinal compositions, to save expense; a practice, with which the dealers in medicines and drugs are but too well acquainted.

ADULTERATION, among distillers, vintners, &c., is the debasing of brandies or wines, by mixing them with some improper liquor.

By Stat. 1 W. & M. c. 34. whoever sells adulterated wine, is to forfeit three hundred pounds.

ADULTERER, denotes a man who is guilty of adultery. See the article ADULTERY.

ADULTRESS, a female adulterer, or woman who commits adultery.

ADULTERINE, in a general sense, denotes any thing which has been adulterated. See ADULTERATION.

ADULTERINE children, among civilians, those sprung from an adulterous amours.

ADULTERINE is also used for any thing that is spurious, false, or counterfeited: thus we say adulterine writings, balance, key, coins, &c.

ADULTERY, the crime of married persons, whether husband or wife, who, in violation of their marriage vow, have carnal commerce with another, besides those to whom their faith has been pledged.

By
By the law of Moses, both man and woman, who had been guilty of adultery, were put to death.

The ancient Romans had no formal law against adultery; Augustus being the first who made it punishable by banishment, and in some cases by death. However, by an edict of Antoninus, a husband could not prosecute his wife for adultery, unless he was innocent himself. And by the regulations of Justinian, at the instance of his wife Theodora, the punishment of adultery in the woman was mitigated; whipping, and shutting up in a convent for two years, being deemed sufficient, during which time, if the husband did not take back his wife, she was shut up for life.

Among the Greeks, adultery was punished variously; sometimes by fine, and at others by what they called para tilimus: nay, the Lacedemonians are even said to have permitted it.

Adultery among European nations, is reckoned a private crime, none but the husband being suffered to intermeddle in the affair; and what is no less remarkable, though the husband be guilty of adultery, the wife is not allowed to prosecute him for the same.

In England, adultery is accounted a spiritual offence, and therefore the injured party can have no other redress but to bring an action of damages against the adulterer; and to divorce and strip the adulteress of her dower, is all the punishment she incurs. And, indeed, it must be owned, that the laying a heavy fine upon the man, and punishing the woman in the manner just mentioned, is as likely, if not more so, to prevent the frequency of adultery, as more severe methods.

Authors have established several distinct species or kinds of this crime: thus, manifest adultery is when the parties are caught in the fact; secret adultery, when the knowledge of it is kept concealed from the world; presumptive adultery, when the parties are found in bed together; single adultery, when one of the parties is not married: and so of other cases.

Adultery is also used for any kind of unchastity; in which sense, divines understand the seventh commandment.

Adultery, in the scripture-language, is likewise used for idolatry, or the forswearing the worship of the true God for that of a false one.

ADVOCATE, advocatus, among the Romans, a person who undertook the defence of causes, which he pleaded much in the same manner as our barristers do at present.

Advocates were held in great honour, during the first ages of the Roman commonwealth, being styled comites, honorati, clarissimi, and even patroni.

The term advocate is still kept up in all countries where the civil law obtains. In Scotland there is a college of advocates, consisting of one hundred and eighty persons, appointed to plead in all actions before the lords of session.

In France there are two kinds of advocates, or those who plead, and those who only give their opinions, like our chamber counsellors.

Lord-Advocate, one of the officers of state in Scotland, who pleads in all causes of the crown, or wherein the king is concerned.

The lord advocate sometimes happens to be one of the lords of session; in which case, he only pleads in the king’s causes.

Fiscal Advocate, fisci advocatus, in Roman antiquity, an officer of state under the Roman emperors, who pleaded in all causes wherein the fiscus, or private treasure, was concerned.

Consistorial Advocates, officers of the consultorium at Rome, who plead in all oppositions to the disposal of benefices in that court: they are ten in number.

Advocate of a city, in the German polity, a magistrate appointed, in the emperor’s name, to administer justice.

Advocate, among ecclesiastical writers, a person who undertakes the defence of a church, monastery, &c.

Of these there were several kinds, as elective advocates, or those chosen by the chapter, bishop, abbot, &c. nominative advocates, or those appointed by the emperor, pope, &c. military advocates, those who undertook the defence of the church rather by arms than eloquence, &c. There were also feudal advocates, supreme and subordinate advocates; and matricular advocates, or those of the mother or cathedral church.

ADVOCATIA, the same with advocatura. See Advocatura.

ADVOCATION, among civilians, the act of calling another to assist us in pleading some cause.

Letters of Advocation, in the law of Scotland, a writ issued by the lords of session, advocating,
ADVOCATE, or ADVOCATIA, in middle age writers, denotes the jurisdiction of the church-advocates. See the article ADVOCATE.

ADVOUSON, or ADVOUZEN, the same with advowson. See ADVOWSON.

ADVOW, in law. See ADVOWING.

ADVOWEE, in law, signifies the patron of a church, or he who has a right to present to a benefice.

Paramount ADVOWEE, is used for the king, as being the highest patron. 

ADVOWEE also denotes the defender of the rights of a church; in which sense it amounts to the same with advocate. See ADVOCATE.

ADVOWING, or AVOWING. See the article AVOWING.

ADVOWSON, in a general sense, denotes the office or employment of an advowee. See the article ADVOWEE.

ADVOWSON, in law, is the right of patronage, or presenting to a vacant benefice. See PATRONAGE.

Advowsons are either appendant, or in gros. Appendant advowsons, are those which depend on a manor, or lands, and pass as appurtenances of the same; whereas advowson in gros, is a right of presentation subsisting by itself, belonging to a person, and not to lands.

In either case, advowsons are no less the property of the patrons than their landed estate: accordingly they may be granted away by deed or will, and are subject to the hands of executors. However, papists and Jews, feized of any advowsons, are disabled from presenting: the right of presentation being in this case transferred to the chancellor of the universities, or the bishop of the diocese.

ADVOWTRY, a term used in some old law-books for adultery. See the article ADULTERY.

ADUST, among physicians, an appellation given to such humours as are become of a hot and fiery nature. Thus blood is said to be adust, when, the more subtle and volatile part being evaporated, the remainder is vapid and impure.

ADUSTION, among physicians, is used for an inflammation of the parts about the brain and its membranes, attended with hollowness of the sinccput and eyes, a pale colour, and drips of the body: in which case, the yolk of an egg, with oil of roses, applied by way of cataplasm, is recommended; as are the leaves of turnsole, the parings of a gourd, the pulp of a pompon, applied in the same manner, with oil of roses.

ADY, in botany, the name of a species of palm-tree, found in the island of St. Thomas; the fruit of which is of the size and shape of a lemon, and contains an aromatic kernel, from whence an oil is prepared that answers the end of butter in Europe. The Portuguese call the fruit carvoes and carofig, and esteem the kernels as a good cordial.

ADYNAMON, among antiquit physicians, a weak kind of wine, prepared by boiling must with water; it was given to the sick, when genuine wine would have been hurtful.

ADYUM, a dioce, in pagan antiquity, the most retired and sacred place of their temples, into which none but the priests were allowed to enter. The term is purely Greek, signifying inaccessible.

The adytum of the heathens answered to the fanctum sanctorum of the Jews, and was the place from whence they delivered oracles.

ADZE, a kind of ax, otherwise called ad­dice. See the article ADDICE.

ADZEL, a small town of Livonia, situated on the south side of the river Aa, about ten German leagues south-west of Dorp.

Æ, or A, among grammarians, a diph­ thong or double vowel, compounded of A and E.

The orthography of this diphthong is far from being fixed, the simple E frequently supplying its place. When, therefore, an article cannot be found under the Æ, the reader is to look for it under E: though the references, for the most part, will be a faithful guide in cases of this nature.

ÆACEA, in grecian antiquity, solemn fe­ festivals and games celebrated at Ægina, in honour of Æacus; who, on account of his justice upon earth, was thought to have been appointed one of the judges in hell.

ÆCHMALOTARCHA, aíxêmalotarche, in jewih antiquity, the title given to the principal leader or governor of the he­ brew captives residing in Chaldea, Assyria, and the neighbouring countries. The Jews themselves call this magistrate Rych­ galuth, i.e. chief of the captivity. Balfage affirms us, that there was no ach­ malotarch before the end of the second century.
ÆDITU, in antiquity. See the next article.

ÆEDITUUS, in roman antiquity, an officer belonging to temples, who had the charge of the offerings, treasure, and sacred utensils.

The female deities had a woman-office of this kind, called æditua.

ÆGAGROPILA, or ÆGAGROPILUS, a genus of fungus, or the mushroom, a kind of temple, and was used for the merit of hair, of the fames kind formed in the stomachs of cows, hogs, &c. See Bezoar.

ÆGAELETHRION, in botany, a name sometimes used for the medicinal, a distinctive genus of plants. See Mercurialis.

ÆGIAST, ÆGIS, among ancient physicians, a white speck on the pupil of the eye, which occasioned a dimness of sight, and was otherwise called ægis and æglia.

ÆGILOPS, Ægilops, among physicians, an abscess in the corner of the eye, next the nare; or, according to Heister, a small tumour caused by inflammation or abscesses, which in time, by the acrimony of its purulent matter, erodes the external skin, lacrymal ducts, and fat round the ball of the eye; but, sometimes it renders the neighbouring bones carious to a dangerous degree.

As to the method of treatment, the surgeon is first to endeavour to discharge the tumour, by moistening it several times a day with spirit of vitriol; but if he finds this impracticable, he is to forward the suppuration as much as possible, left an obstate fistula, or worse consequences, should be the effects of too long delay. For this purpose, a plaster of diachylon with the gums, or emollient cataplasms may be used.

When fully ripe, the tumour is to be laid open with a lancet or scalpel, and the ulcer cleansed and healed in the ordinary way. See Ulcer.

ÆGILOPS, in botany, a name sometimes given to the oak with great acorns, quercus glande major.

ÆGINETIA, in botany, a genus of plants belonging to the didymia class of Linnaeus, the flower of which consists of one leaf, large, round, and inflated at the base; the tube is short and cylindrical; and the mouth small, but expanded and turning back at the edges.
ÆGIPAN, in heathen mythology, a denomination given to the god Pan, by reason he was represented with the horns, legs, feet, &c. of a goat.

ÆGIPAN is also the name of certain monsters, the upper part of whose bodies resembled a goat, and their lower part a fish's tail.

ÆGIS, in heathen mythology, is particularly used for the shield or cuirass of Jupiter and Pallas.ÆGIS is derived from akis, a *g, a fhe-goat; Jupiter having covered his shield with the skin of Amalthea, the goat that suckled him. Afterwards making a present of the buckler to Minerva, this goddess fixed the head of Medusa on the middle of it, which, by that means, became capable of turning all those into ftones who looked at it.

ÆGIUCHUS, in heathen mythology, a surname of Jupiter, given him on account of his having been suckled by a goat.

ÆGLEFINUS, in ichthyology, a name by which some call the common haddock. See Haddock.

ÆGLEUS, in botany, a term sometimes used for the white chameleon-thistle. See Chameleon.

ÆGOCEPHALUS, in ornithology, the name used by zoologists, for the bird called in English the godwit. See the article Godwit.

ÆGOCERAS, a name by which some writers call fennugreek. See the article Fennugreek.

ÆGOCEROS, in heathen mythology, a surname given to Pan, on account of his metamorphosing himself into a goat.

ÆGOLETHRON, a name used by the antients for a plant called by Tournefort chamaerodendros. See Chamaerodendros.

ÆGOMANTIA, arganilia, a species of divination performed by means of a goat.

ÆGONICUS, in botany, a name sometimes given to the lithospermum, or gromwell. See Lithospermum.

ÆGOPHTHALMUS, the goat's-eye-flone, in natural history, a name indifferently given to any of the semipellucid gems, with circular spots in them, resembling the eye of a goat.

ÆGOPOGON, goat's-beard, in botany, a name sometimes given to meadow-sweet, a distinct genus of plants, called by Tournefort ulmaria. See the article Ulmaria.

ÆGREFINUS, the same with æglefinus. See Æglefinus.

ÆGYPT, in geography. See Egypt.

ÆGYPTIACUM, in pharmacy, the name of several detergent ointments, used for eating off rotten flesh, and cleansing foul ulcers.

The ægyptiacaum, as ordered in the Edinburgh dispensatory, is a composition of verdiglaee, reduced to fine powder, five ounces; of honey, fourteen ounces; of vinegar, seven ounces: all which are to be boiled over a gentle fire, to the confidence of an unguent.

It is an admirable cleanser, and much recommended by surgeons to keep down fungous excrescences, and eat off raw flesh; only that the ægyptiacaum of the London dispensatory is thought to be too corrosive.

ÆGYPTILLA, in the natural history of the antients, a flone variegated with veins of a black, blue, or red colour; and said to be capable of giving water the colour and taffe of wine.

The flone to which they ascribed this imaginary virtue, seems to have been a kind of onxy, or sardonyx.

ÆHOITULLA, in zoology, a species of serpent, of a greenish or green and white colour, found in the island of Ceylon.

ÆNAUTÆ, ænamalus, in antiquity, a denomination given to the senators of Miletus, by reason they held their deliberations on board a ship, and never returned to land till matters had been agreed on.

ÆLURUS, in Egyptian mythology, the deity or god of cats; represented some times like a cat, and at others like a man with a cat's head.

AEMI, or AAM. See AAM.

ÆNEA TORES, in Roman antiquity, a general name for the musicians of an army, viz. those who played on trumpets, horns, lutes, buccine, &c.

ÆNIGMA, anigma, denotes any dark saying or question, wherein some well-known thing is concealed under obscure language.

The parable, gryphus, and rebus are by some accounted three species, or branches, of ænigma. See Parable, Gryphus, and Rebus.

To compose an ænigma, two things are to be chosen which bear some resemblance to each other, as the sun and a monarch, a ship and a house, a bed and the grave, &c. on which some perplexing and intricate question, description, or prosopopoeia.
1£ -0 L

[ 58 j

:1E R: A

.

p~ia is' to 'be m'aile. 'This raft i's moft
pIealing, in as much ,as it gives life and
aCtion to fhings void of them: fuch is
'tha'tfamClUs one of the c'herhifts, fuppofed
by fame to lignify the name JehoV'ah, by
bt11ers the word ph8(phorus, 'but by the
:generality the word arfenic, AgO'SVllIOV.

A'S, t() the phrenoniena o~the reoJipt1'e,
theytM.y be accounted'forft'cirh the rare ..
f-:raron df'the water. See the al'tide RA~
REFAcTIoN'.
'"
iEOLIS, in an\ient geography, :a'countty
lying upon the w'diterrt coaft of ~lia Mi~
nor.
'Em" ':~"'f-"f-"a.1' EX"'. Tn~a.O'Uf..Aa.~@.. E'f-"', yo- lEOLUS, in the heathentheolocgy, the,god
,
Etf-"', &c.
' o f f h e winds, painted with fwoln blubb'er
Thlis tranllated by Mr. Leibnitz.
cheeks, 'like one who ,with main force
iLiteru'lis noJ!or, tjuadri(yllabus ipfe; noendeavours to blow' ablift'; alfo' with
'Vems : t w d fmallwings upon his 'fuoufders, and
, 'Sjltab'U httbet 'binas, 'nifi 'Iiiod tenet ultima
a fiery 'high-coloured countenance.'
ternas:
JEON, "'<>IV, properly lignifies the age or
l'occilesqttafuor, quinis,nonpropria'Voxej1. 'duration of any thing. See the aitide
'Bis feNem 'Vicibus lIumerum centurid toDURA TION.,
'
tum
lEO-N, among the Platonifts, was tIfed to del1igl editur,decadefque nO'vem, tum bis tria.
note any virtue, attribute, or.P;fife&ion i
, Shne
hence they reprefented thl'; deity as a,n af~
Norueris, ~inc aditus ad facra nojfra pafembl'lge of all poffiblea,on,s, calling it
tent.
pleroma,'W'I>.nf"'fJ.", a grl!ek word lignify~'Pairite~ <Enigma'sari! t~iJl'efentatiOris of
ing fullners.
,,'
.fume ~bjea, whether of 'nature or art,For a fatther accountof'reons, as receiv'conwlled iindedhe htimart figure.
ed among fome ,heretic chriftians; .fee
)ENIGMATICAL, den6tei lomethingthe article V ALENTINfAN'S.
belo_nging to,or partaking of the nature iE'ON, in'rriyth'ology, 'thefirft woman, acof ah ;enigma. See J'£NIGMA.
(:ording to the phcenitian writer's.
lENIGMATIST, or lENIGMATOGRA- }EON, athong' anrientphYfidans 7 lignified
the fpinal'marrow. 'See. the atticfe MAR~
PHER; an interpreter or COllipoferof
:enigmas. See JEiilfdMA.
ROW.
}ENIGMATOGRAPHY, or .lENIGMA- lEONION, 4''''V'OV, a name fometimes ufed
TOLOGY, the art ofn!(olyingor making'
fot the fedum mtfjus, or great-houfe~
'. ' ; e n i g m a s . '
leek. See the article SEDUM.
lEOLIA, the fame with <Eolis. See the :lEORA, ambng anticrtt pnyficians, a pe'article .lEOLls.
ctiliar kind of exercife, which confifted in
JEOLIC, in a genei'al H:hfe,denOtes fomebei'ng carried about 'in' a litter or .other
thing, belonging to 1£olia, or .lEolis.
vehicle. Sometimes the patient's bed was
lEOLIC dialell, among' gl'arninarians, one
hung byi"opes,in the'manner of ihammoc,
of the five dialects of the greek torigue,
arid moved backwards and forwards.
"a"~reeihg in moil: fhhlg~ ,vitli the doric
:Travelling in a chariot, or on board a
d!:l1eCt. See DORIC.
,111ip or boat, were alfo ac'counfed fo ma)EOLIC digamma. See DIGAMMA..
ny kinds of <Eora.
'
JEOLIc'verJe, in ,pro~ody, a kin,d of verfe, J'EQ.!,!'ABILE didtonum,' in Inufic. See
confill:ing 6f an iambus ,or ipondee, then
the article Gums.
oftw6-ailapeil:s, feparat~dby' a long fyl- $Q!!ATION;EQ.PA'I'ION.
lable, aild ian:!y, of another fyllable.' .lEOQATOR,
EQyATOR.
Such is,
.1EQ!!ILIBRATOR,
E:QEILl!>RATOR
"Qjlelliferi cJnd;ftlr arbi.'.
.lEQUILIBRIUM,
EQ,YILIBRIUM.
}EOLIPII.:E, t£olipita," a hollow IT)etalline- lEQQINOCTIA.L, . &l EQ,YINOCTIAL.
ball, in which is,infCrted a /lender neck, "J'EQ!!IPOLLENT, (J),E~IPOLLENT
or ,pipe j from whence, after the veifel,' lEQUIV ALENT,
'EQ,YIVALIIN'r.
h.as bWl partly filled with water, and, .lEQUIVOCAL,
, EQ.EIVOCAL.
'heated, lifues' a blaft 61' wind with great ,!Egy~V,?CA~lON
E~IVOCATION
vehemence.
,
""
,
}ERA, III Fhronology,a fenes of years,
Great care fu~)Uld be ~aken that _~h~ aper-, ' com!nent!ng frol11 a d:rt~in fixed point
!ure o~ the pipe, be notll:op"ped~hen t~I~, .' ()f ylm.~r. ,called anepoc,ha: .th,U$, we fay
mfti'ument is put on t~e tire, otherwlle
thli chr~ftian :era, that IS, . the number of
the iolipile will burft:with a, va'ft,exployears 'elapfed fince the birth of Chrlft.
lion, and may occaJ;.OBno litHe mif-" The gellera:lityof autl'ioi's,' however, ufe
,chid:" !
.. -.
the terms )era and epocha 'iil a fynol1ymous
o

,

' "

WilleJ


ÆRA senex, or for the point of time from which the computation commences; making no other difference between them, except that the former is chiefly used by the vulgar, and the latter by chroniclers.

Spanish ÆRA, a method of computing time among the antient Spaniards, commencing from the second division of the Roman provinces between Augustus, Anthony, and Lepidus, in the year of Rome 714, the 4676th year of the Julian period, and 38th before Christ. Hence, if to any year of the Spanish æra we add 4675, the sum will be the Julian year; or, if from the same year we substract 38, the remainder will be the year of the Christian æra.

By this æra the Spaniards computed their time for about fourteen hundred years, when it was changed for the common Christian æra.

Christian ÆRA denotes the number of years elapsed since the birth of Christ; a method of computation first introduced in the sixth century, and not received in Spain till towards the end of the fourteenth. See EPOCHA.

ÆRA of Nabonassar. See NABONASSAR.

ÆRA of the Hegira. See HEGIRA.

ÆRA is also used by some less correct writers for any year; thus we read of the eleven hundred and eighth æra.

ÆRARIIUM, in Roman antiquity, the treasury, or place where the public money was deposited.

Ærarium and sacrarum are sometimes used in a synonomous sense, though the latter, strictly speaking, contained only the money belonging to the emperor.

ÆRARIIUM sanctum, an appendage added to the former, for containing the monies arising from the twentieth part of all legacies, which was kept for the extreme necessities of the state.

ÆRARIIUM privatum was the emperor's privy purse, or place where the monies arising from his private patrimony were deposited.

ÆRARIIUM Ilibitae, or Iunonis Lucinae, one where the monies were deposited, which parents paid for the birth of each child. There are several other treasuries mentioned in historians, as the ærarium juvenatis, sventarius, &c.

ÆRARIIUS, in a general sense, denotes any person employed in coining, or managing the public monies. See the article ÆRARIIUS.

ÆRARIIUS was more particularly used by the Romans for a degraded citizen, whose name had been struck off the list of his century.

The æararii were so called on account of their being liable to all the taxes and other burdens of the state, without enjoying any of its privileges. Hence, inter æararii referri was a great deal more severe punishment than tribus moveri.

ÆRATA aqua, a name sometimes given to ziment-water. See the article ZIMENT-WATER.

ÆRIAL, in a general sense, denotes something pertaining to the nature of air: thus we say, an ærial substance, ærial particles, &c.

ÆRIAL is also used for any thing connected with, or belonging to air; in which sense we say, ærial inhabitants, ærial perspective, ærial regions, &c. See the articles PERSPECTIVE and REGION.

ÆRIANS, ærianus, in church-history, a branch of arians, who to the doctrines of that sect added some peculiar dogmas of their own; as, that there is no difference between bishops and priests; a doctrine maintained by many modern divines, particularly of the presbyterian and reformed churches. See PRESBYTERIANS.

ÆRICA, or ÉRICA, the name by which some call the common herring. See the article HERRING.

ÆRIOGRAPHY signifies a description of the air, especially of its dimensions, and other most obvious properties; in which sense, it differs but little from aërologie, which is a scientific account of the nature and least obvious properties of air. See AIR and ATMOSPHERE.

ÆROLOGIE, among physicians, that part of medicine which treats of air, and explains its properties and uses in the animal economy; its efficacy in preserving, and restoring health, &c.

ÆROMANCY, aeromantia, a species of divination performed by means of air, winds, &c.

ÆROMANCY is also used for the art of foretelling the various changes of the air and weather, by means of barometers, hygrometers, &c. See BAROMETER, &c.

ÆROMETRY, aerometria, the art of measuring the motion, gravity, elasticity, rarefaction, condensation, &c, of air; in which sense, aerometry is synonymous with pneumatics, a term in more common use. See PNEUMATICS.

ÆRONAUTICA, denotes the fanciful art of sailing through the air, as a ship in the sea.
AEROPHOBIA, among physicians, signifies the dread of air, which is a symptom of the phrenzy.

AEROPHYLACEA, a term used by some naturalists for certain caverns or reservoirs of air, supposed to exist in the bowels of the earth, by means of which they account for the origin of springs.

AEROSIS, among ancient physicians, denotes the conversion of the blood into an aura, to fit up to the vital spirits, and maintain the flame of life.

AEROSTATICA, that branch of aërometry which considers the weight and balance of the air and atmosphere.

ÆERRA, a small town of Portugal, in the province of Estremadura, situated upon the river Zatas.

ÆERSCHOT, a town of the Dutch Netherlands, situated in Brabant, about fifteen miles eastward of Mechlin.

ÆERUGINOUS, an epithet given to such things as resemble, or partake of the nature of the ruf t of copper. Thus, an æ ruginous colour is green, or that of verdigris.

The term æ ruginous is frequently applied for the green stuff cast up by vomit in bilious cafes.

ÆERUGO, in natural history, properly signifies the ruf t of copper, otherwise called aeride æ ris.

Ærugus is either natural, as that found about copper-mines; or artificial, like verdigris. See Verdegris.

Ærugus saltis, a kind of reddish flimy matter, separated from the Egyptian naturum; probably a mixture of bitumen and a red earth.

ÆRUSCATORES, in antiquity, a kind of trolling beggars, not unlike gypsies, who drew money from the credulous by fortune-telling, and playing of tricks.

The priests of Cybele were called æruscatores magnæ naturæ, on account of their begging in the streets.

Æruscatores was also a denomination given to griping exactors, or collectors of the revenue.

ÆERY, or AIRY, among sportsmen. See Airy.

ÆS properly signifies copper, or money coined of that metal. See the articles Copper and Money.

Authors speak of æ sud, æ grave, and æ signatum. Some will have the two former to denote the same thing, viz. money paid by weight, and not by tale, as the æ signatum, or coined money, was. Others, again, will have the æ grave to have been large pieces of coined copper, containing a whole æs, or pound weight. Kuster, on the other hand, thinks that æ grave was used to denote any kind of copper money, in opposition to that made of gold or silver, which was light.

Æs glaucum, yellow copper, among the Romans, an appellation given to the coarser kinds of brass, the finest being called orichalcum. See the articles Brass and Orichalcum.

Æs gallicum, the name by which the Germans call a kind of regulus of birch-muth, used in making the fine blue colour called fmalt.

Æs crematum, the same with æs usum.

Flos Æris, ærhus æros, among antient alchemists, a kind of small scales procured from melted copper, by exposing it in a vehement heat; but among the moderns it is sometimes used for æ rugo or verdigris.

Æs veneris. See the next article.

Æs usum, among chemists, a preparation of copper, otherwise called æs veneris, æ crematum, &c.

There are several ways of making it, but the most frequent is, by exposing plates of copper in a reverberatory furnace till they will crumble into a powder, which is called æ s usum.

Æs usum is extremely drying and destructive, and therefore used for eating off dead flesh, and cleansing foul ulcers; and either sprinkled on the part in fine powder, or mixed in ointments.

Æs usum is also used for colouring glass.

ÆSALON, in ornithology, a species of long-winged hawk, called in English the merlin. See the article Merlin.

ÆSCH, in ichthyology, a name sometimes used for a truttaceous fish, called by authors thynnus. See the article Thynnus.

ÆSCHNA, in the history of insects, a four-winged water-fly, with a long body, hairy near the tail.

ÆSCHYNOMENOUS, an epithet sometimes given to those plants, more commonly called sensitive plants. See the article Sensitive.

ÆSCULANIUS, or Æres, in mythology, a deity who presided over the coinage of copper money.

ÆSCULAPIUS's serpent, Æsculapii anguis, in zoology, a harmless kind of serpent, otherwise called paraæ. See Paræa.

ÆSNECY, in law-books, a term used to denote the priority of age among coparceners. See Coparceners.

ÆSTIMATIO,
ÆTH

ÆSTIMATIO CAPITIS, a term met with in old law books, for a fine antiently ordained to be paid for offences committed against persons of quality, according to their several degrees.

ÆSTIVAL, in a general sense, denotes something connected with, or belonging to summer. Hence, we say æstival point, æstival sign, æstival solstice, &c. See Point, Sign, Solstice, &c.

ÆSTUARIA, æstuarium, in geography, denotes an arm of the sea, which runs a good way within land. Such is the bristol channel, and many of the fiirths of Scotland.

ÆSTUARIES, in the antient baths, were secret passages from the hypocaustum into the chambers. See the articles Bath and Hypocaustum.

ÆSTUARY, among physicians, denotes a vapour-bath, or any other instrument for conveying heat to the whole, or particular part of the body.

ÆSYMNETIC monarchy, a term used by antient political writers, for a limited elective one; in contradiftinction from those which were hereditary, and thence called barbaric.

ÆTATE PROBANDA, in law, a writ which formerly lay to inquire whether the king’s tenant was of full age; but now diffused, since the abolishing of wards and liversies.

ÆTH, or Ath, a strong little town in the auffrian netherlands, and province of Hainault, situated on the river Dender, about twenty-miles S. W. of Brussells.

ÆTHEALE, αθηλα, a term used by the antients for the cadmia fornicac. See the article Cadmia.

ÆTHELALLES, from αθηλα and θαλλος, to be always green, a name given by the Greeks to the house-leaf.

ÆOTHER, αθηρ, in phylology, a term used by philophers for the most sublime of all fluids, which, commencing from the limits of our atmosphere, occupies the vast expansè of heaven; or, it is that inconceivably fine fluid, which fills the intermediate space between one fixed star and another, as well as between the planets of our solar sytem.

Though the existence of such a fluid be generally allowed, yet authors differ widely with respect to its nature; some making it a finer kind of air, others a kind of fiery effuvia from the sun and fiery stars; and others, a fluid sui generis. Aether is suppos’d by some philosophers not only to fill up the intermediate space between the heavenly bodies, but to permeate all bodies whatever; also to be the medium of light, that vast fluid, in which the air is only a tincture; and, lastly, that it was the caufe of gravity in the earth and other celestial bodies, assisted in the action of burning, and in the diffolution of other bodies by menstrums.

After all, there are not wanting some who make it a question, whether there be any such fluid as aether at all.

ÆTHER, in chemistry, a name sometimes used for any extremely volatile and subtile spirit, as the spiritus ætherius fubdeni. See the article Spirit.

Æther is more particularly used for an extremely penetrating spirit, made by distilling spirit of wine with oil of vitriol, and then precipitating the sulphureous gas with an alicant.

ÆTHERIAL, in a general sense, denotes something belonging to, or partaking of the nature of æther. See the article Aether.

ÆTHERIAL oil, among chemists, a subtile essential oil, approaching to the nature of a spirit. See the article OIL.

ÆTHERIAL phosphorus, a name given by some to the mercurial phosphorus. See the article Phosphorus.

ÆTHIOPIA, in geography. See the article Ethioopia.

ÆTHIOPIAN crown, in the history of shell-fish, the name of a species of dolium, with its top dentated, so as to represent a crown. See Dolium.

ÆTHIOPIOS, a name given by several botanical writers to the sclara. See the article ScIarea.

ÆTHIOPS or ÆTHIOPS MINERAL, a preparation of mercury, made by rubbing in a marble or glafs mortar, equal quantities of quicksilver and flowers of sulphur, till the mercury wholly disappears, and there remains a fine deep black powder, from whence it has got the name of æthiops.

This is esteemed one of the fairest preparations of mercury, and is much used against cutaneous scoultens, in scrophulous cases, in remains of venereal disorders, and even in the gout and rheumatism. In scorbutic cases, scarce any medicine exceeds it; and it has been long known as a remedy against worms. Its dose is from a scruple to a dram or two.

ÆTHIOPS albus, a preparation of mercury, which is made by rubbing quicksilver with a double quantity of crab’s eyes,
affairs.

AFFECTION, in medicine, a term used for any disorder with which a limb or other part of the body is afflicted. Thus, we say, the hypochondriacal, or hysterical affection, &c. See the articles Hypochondriacal, Hysterics, &c.

AFFECTIONS, or AFFEERORS, in law, persons appointed in court-leet, courts-baron, &c. to settle, upon oath, the fines to be imposed upon those who have been guilty of faults arbitrarily punishable; that is, such as have no express penalty assigned by statute.

AFFERI, in law, the same with averia. See AVERIA.

AFFETTUSO, or con APEETTO, in the Italian music, intimates that the part, to which it is added, ought to be played in a tender moving way; and, consequently, rather slow than fast.

AFFIANCE, in law, denotes the mutual plighting of troth, between a man and a woman, to marry each other.

AFFICHE, a term used by the French for bills or advertisements, hung or posted up in public places to make any thing known, as is done upon the royal exchange of London. See BILL.

AFFIDATIOR DOMINORUM, in old law-books, denotes an oath of allegiance, taken by the lords in parliament.

AFFIDATUS, or AFFIDATIUS, in old law-books, signifies a tenant by fealty; or one who put himself under the protection of his lord, owing fealty to him. AFFIDAVIT signifies an oath in writ-

AFFA, a weight used on the gold-coast of Guinea, and equal to an ounce.

AFFAIR, a general name for every kind of business and occupation, in which a person employs himself, or is concerned. In commerce, it is taken for a bargain, purchase, contract, &c. and sometimes for a merchant's fortune. Thus, they say, such a man is very well in his affairs.

AFFECTION bovina, a disorder incident to cattle, occasioned by a small worm, which eats its way all over the body.

AFFECTION, in a general sense, denotes an attribute inseparable from its subject, or an essential property of it. Thus, quantity, figure, weight, &c. are affections of all bodies.

AFFECTIONS of the mind are the same with passions, or inclinations. See the article PASSION.

AFFECTION, in geometry, a term formerly used to denote the property of any curve.

AFFECTION, in medicine, a term used for any disorder with which a limb or other part of the body is afflicted. Thus, we say, the hypochondriacal, or hysterical affection, &c. See the articles Hypochondriacal, Hysterics, &c.
AFFIDAVIT, sworn before some person who is authorized to take the same. In an affidavit, the time, place of habitation, and addition of the person who makes it, are to be inserted. Affidavits are chiefly used to certify the proving of proceedings or other matters concerning the proceedings in a court; and therefore should set forth the matter of fact to be proved, without taking any notice of the merits of the cause. They are read in court upon motions, but are not admitted in evidence at trials. By statute, the judges of the courts at Westminster may commission persons in the several counties in England, to take affidavits relating to any thing depending in their several courts.

AFFILIATION, affidatio, a term used by some middle-age writers for adoption. See ADOPTION.

AFFINAGE, a term sometimes met with in old law-books, for the refining of metals.

AFFINITY, affinitas, among civilians, denotes the relation of each of the parties married to the kindred of the other. Affinity is distinguished into three kinds.

1. Direct affinity, or that subsisting between the husband, and his wife's relations by blood; or, between the wife, and her husband's relations by blood.

2. Secondary affinity, or that which subsists between the husband, and his wife's relations by marriage.

3. Collateral affinity, or that which subsists between the husband, and the relations of his wife's relations. The degrees of affinity are always the same with those of consanguinity. Hence, in whatever degree of consanguinity the kindred of one of the parties married are, they are in the same degree of affinity to the other.

By the canon law, direct affinity renders marriage unlawful to the fourth generation, inclusive; but the case is otherwise with respect to the secondary and collateral kinds. It is likewise to be observed, that the affinity contracted by a criminal commerce, is an impediment to marriage so far as the second generation; thus, a man is not allowed to marry the sister of a woman he has lain with. Nay, with regard to contracting marriage, affinity is not dissolved by death; for, though a woman may be admitted a witness for the brother of her deceased husband, she is not allowed to marry him.

In the romish church, a kind of spirtual affinity is supposed to be contracted by baptism; so that it is not deemed lawful for a god-father to marry his god-daughter, without a dispensation.

AFFINITY is also used to denote a conformity, or agreement, between two or more things; thus, we say, the affinity of languages, the affinity of words, the affinity of sounds, &c.

AFFIRMATION, among logicians, is the act of the mind affenting the truth or reality of something; or it is a positive proposition, declaring certain properties or qualities to belong to the thing in question; thus, when I say, every circle is a perfectly round figure, I affirm perfect roundness to be an inseparable property of a circle.

AFFIRMATION is also used for the ratifying or confirming the sentence, or decree, of some inferior court: thus, we say, the house of lords affirmed the decree of the lord chancellor, or the decree of the lords of session.

AFFIRMATION also denotes a solemn attestation of the truth of some fact, which the quakers are allowed to make instead of an oath. This fact think all kinds of swearing unlawful; and therefore the legislature has appointed the following affirmation to be taken instead thereof, viz. I A.B. do sincerely, solemnly, and truly declare and affirm, &c. This affirmation is, by statute, put upon the same footing with an oath; every peron convicted of affirming a falsehood, being liable to the penalties provided against wilful and corrupt perjury. It is also deemed equivalent to an oath, except in criminal cases, upon juries, and in places of profit and trust under the government.

AFFIRMATION, among some grammarians, denotes a part of speech, called by the generality a verb. See VERB.

AFFIRMATIVE, in a general sense, denotes any thing which implies an affirmation. See AFFIRMATION.

AFFIRMATIVE, in the roman inquisition, a designation given to such heretics as openly avow the opinions they are charged withal.

AFFIRMATIVE character. See the article CHARACTER.

AFFIRMATIVE proposition. See the article PROPOSITION.

AFFIRMATIVE quantity. See the article QUANTITY.

AFFIRMATIVE sign. See SIGN.

AFFIX, among grammarians, denotes much
AFF [ 64 ] AFR

much the same with prefix. See the article PREFIX.

In the hebrew language, there are a multitude of affixes, i.e., single letters or syllables, which, being prefixed to nouns and verbs, serve instead of pronouns, and contribute greatly to the brevity of that language.

AFFLIATUS, among heathen mythologists and poets, denotes the actual inspiration of some divinity, thus, Virgil, Aflata est numine quando jam proprio Dei.

Tully, however, must be understood to extend the meaning of the word farther, when he attributes all great actions to a divine afflatus. See INSPIRATION.

AFFORAGE, in the french custom, a duty paid to the lord of a district, for permission to fell wine, or other liquors, within his estiny.

AFFORAGE is also used for the rate or price of provisions, laid and fixed by the provost of Paris, or by the sheriffs.

AFFORCMENT, afforciamentum, among old law-writers, denotes a forest or place of strength.

AFFORCIAMENTUM CURIAE, a term used in an old chartulary, for the summoning an account, in an extraordinary manner.

AFFORESTING, afforestatio, in our old law-books, is the turning lands into a forest, as the converting a forest to other uses is called defafforesting, or deafforesting.

AFFRAY, or AFFRAIYMENT, in law, formerly signified the crime of affrighting other persons, by appearing in unusual armour, brandishing a weapon. But, at present, affray denotes a skirmish or fighting between two or more: and there must be a stroke given, otherwise it is no affray.

An affray is a common injury, punishable by the justices of the peace in their sessions, by fine and imprisonment; and accordingly, differs from assault, which is a private offence.

A constable may seize, and carry affrayees before a justice; as may likewise any private person.

AFFREIGHTMENT, a term used in some law books for the freight of a ship. See FREIGHT.

AFFRI, or AFRRA, a term met with in old law books for horces, bullocks, or any beast used in plowing; and hence a dull horse is still called afer, in some counties.

AFFRONTE, in heraldry, an appellation given to animals facing one another on an escutcheon, a kind of bearing, which is otherwise called confronte, and flanks opposed to adosse.

AFFULIAGE, in ancient customs, denotes the right or privilege of cutting wood in a forest, for fuel.

AFFUSION, affusio, in a general sense, is the pouring some liquid upon a solid substance.

AFFUSION, among some divines, a species of baptism, differing a little from what is now called sprinkling. See BAPTISM.

AFFILIATION, See AFFILIATION.

AFBOA, in botany, a kind of kidney-bean, which the natives of Guinea pound and mix with oil; thereby making a sort of ointment, esteemed good for the itch and other foulnesses of the skin.

AFRA avis, a name sometimes given to the pintado. See the article PINTADO.

AFRICA, in geography, a vast peninsula, which makes one of the four grand divisions, or quarters of the world, as they are commonly, tho' falsely called. It is joined to Asia by the isthmus of Suez, reaches about four thousand two hundred miles in breadth from east to west, and is situated between 37° north latitude, and 53° south latitude: The Mediterranean sea bounds it on the north, the isthmus of Suez, the red sea, and the eastern ocean, on the east; the southern ocean, on the south; and the Atlantic, or western ocean, on the west.

Geographers divide Africa into ten grand divisions: 1. Egypt. 2. Abyssinia, or the upper Ethiopia. 3. The coast of Anian and Zanguebar. 4. Monoemugi, Momonotapa, and Cafstraria, sometimes called the lower Ethiopia. 5. Congo, Angola, and Guinea. 6. Nigritia, or Negroland. 7. Zaara, or the desert. 8. Bileduligerid, the ancient Numidia. 9. The empire of Morocco. 10. The coast of Barbary, on the Mediterranean, comprehending the countries of Algiers, Tunis, Tripoly, and Barca. See the article EGYPT, &c.

The principal commodities are gold, amber-graceful, elephants teeth, guineapepper, red-wood, hides, wax, saunders, sugar, civet, oil, cardamums, hemp, flax, dates, almonds, indigo, gum, otrich-feathers, amber, ebony, canes, citrons, lemons, copper, cocoa-nuts, cloves, saffron, crystal, and a multitude of negroes, that supply our American plantations with slaves.

Africa is represented in painting, by a black
black woman almost naked, with frizzled hair, an elephant's trunk for a crest, a fierce lion on one side, and a viper and serpent on the other; with other emblems of the produce of the country.

Africa is also a considerable sea-port town of Barbary, about seventy miles south of Tunis.

AFRICA, Afrigne, is likewise a small town of France, situated in the province of Gafcony, and generality of Montauban.

AFRICAN company, a society of merchants established by king Charles II. for trading to Africa; which trade is now laid open to all his majesty's subjects, paying ten per cent. for maintaining the forts.

AFRICANISM, in literary matters, a peculiarity of style found in the writers of Africa.

AFFSAGERS, persons appointed by the burgo-maiters of Amsterdam, to preside over the public sales made in that city. They must always have a clerk of the secretaries office, with them, to take an account of the sale.

AFI, in the sea language, the fame with abaft. See the article ABAST.

AFTER, an English preposition, signifying either later in time, or behind in place. Thus, we say, after a week, after a month, &c.

AFTER-birth, in midwifery, the membranes which surrounded the infant in the womb, more usually called the secundines. See the articles BIRTH, DELIVERY, and SECUNDINES.

In brutes this is called the hearn, or maw.

AFTER-math, in husbandry, signifies the grapes which springs or grows up after mowing; or the grases, or stubble, cut after corn.

AFTER-moon, denotes one half of the natural day, or the space of time between noon and night.

AFTER-pains, in midwifery, excessive pains felt in the groin, loins, &c. after the woman is delivered. See DELIVERY.

In order to guard against them, physicians recommend oil of sweet almonds, sperma ceti, troches of myrrh and syrup of maiden-hair; and, generally, with success.

AFTER-swarms, in the management of bees, are those which leave the hive some time after the first has swarmed. See the articles BEE and SWARM.

AGTO, in botany, a plant of the crysi-

AGA, in the turkish language, signifies a great lord, or commander. Hence, the aga of the janiffaries is the commander in chief of that corps; as the general of the horse is denominated ipshiclar aga. See the articles JANISSA­

AGADES, or AGDES, a people or kingdom of Africa, lying on the northern bank of the river Niger, between the kingdoms of Cano on the east, and Tombout on the west, with that of Zaire on the north.

AGADES, or ANDEGAST, the capital city of the said kingdom.

AGADES is also the morishe name for the town of Santa Cruz, in the kingdom of Sus.

AGAG, or AGACA, a kingdom of Africa, dependent on the kingdom of Monomotapa.

Its capital, which is called by the same name, is situated on the north side of the lake Zaire.

AGAI, in commerce, the same with agio. See AGIO.

AGAI is also the name of a people of Ethiopia, inhabiting near the source of the Nile, and professing a kind of christianity.

AGALLOCHUM, in botany, the name by which the antient Greeks called ligiau­

AGALMA, or AGALMTA, in antiquity, a term originally used for any kind of ornaments in a temple, but afterwards for the statues only, as being most conspicuous.

AGANIPPIDES, in antient poetry, a designation given to the muses, from a fountain of mount Helicon, called Aga­

AGAPE, or AGAPES, in church-history, a kind of mun-kind, taken by way of stuff for the head-ach, by the people of Guinea. See EPISTEMUM.

AGA, in the turkish language, signifies a great lord, or commander. Hence, the aga of the janiffaries is the commander in chief of that corps; as the general of the horse is denominated ipshiclar aga. See the articles JANISSA­

AGADES, or AGDES, a people or kingdom of Africa, lying on the northern bank of the river Niger, between the kingdoms of Cano on the east, and Tombout on the west, with that of Zaire on the north.

AGADES, or ANDEGAST, the capital city of the said kingdom.

AGADES is also the morishe name for the town of Santa Cruz, in the kingdom of Sus.

AGAG, or AGACA, a kingdom of Africa, dependent on the kingdom of Monomotapa.

Its capital, which is called by the same name, is situated on the north side of the lake Zaire.

AGAI, in commerce, the same with agio. See AGIO.

AGAI is also the name of a people of Ethiopia, inhabiting near the source of the Nile, and professing a kind of christianity.

AGALLOCHUM, in botany, the name by which the antient Greeks called ligiau­
AGARENI, a name used by some writers for the Arabs, as being descended from Agar, or Hagar, Abraham's hand-maid.

AGARIC, agaricum, in botany, a genus of epilithic plants, growing on the trunks of trees, especially the larch-tree, and resembling the common mushroom, both in substance and structure. See plate VII. fig. 4.

Agaric is a fungus, of an irregular figure, three or four inches in length, and as many in breadth and thickness. It is extremely soft and elastic, taking an impression from the least touch, and retaining its former figure again: its colour, on the outside, is a pale yellowish white, but a pure white within.

It was much used by the ancients, as a purge; but the present practice condemns it, as being not only disagreeable, but offensive and pernicious.

Mineral Agaric, in natural history, a light marly earth, so called on account of its resemblance to the vegetable agaric, in its colour and ropy texture. It never constitutes a stratum of itself, but is found in cracks and fissures of rocks, roofs of caverns, and sometimes in the horizontal vacuities of these strata, in form of a white porous powder.

Mineral agaric is a good astringent, and therefore preferred in fluxes, hemorrhages, to dry old ulcers, stop defluxions of the eyes, &c.

AGARICOIDES, in botany, a sort of small white fungus, with yellowish lamellae, found in woods.

AGANYLLIS, in the materia medica, a name used by Greek writers for the gum ammoniac. See AMMONIAC.

AGAT, achates, in natural history, a genus of fempellucid gems, variegated with veins and clouds, but have no zones, like the onyx.

Agats are formed of a crystalline substance, variously decorated with earths of different colours, to which is to be attributed the variety of their appearance. Thus, some have a white ground, as the dendrachates or mooca-stone, the japhachates, and another species. Others have a reddish ground, as the hemachates, jardachates, corallo-achates, &c.

AGATA, or St. Agata di Gati, a city, and bishop's see of Naples and province of Principato, situated almost in the middle between Capua and Beneventum.

AGATONSI, a small island of the Archipelago, situated between that of Lebos and the continent.

AGATTON, a town of Africa, on the coast of Guinea, situated near the mouth of the river Formosa, about eighty miles south of Benin.

AGATY, in botany, the name of a genus of trees growing in Malabar. They have papilionaceous scentless flowers, which are succeeded by pods, four spans long, and a finger's breadth wide, containing seeds like our kidney-beans, which the natives eat in their food.

AGAZES, a name given to the savage inhabitants of Paraguay, in South America.

AGDE, a small, but well inhabited city of France, in the province of Languedoc, near the mouth of the river Eraut, about thirty miles south-west of Montpellier. It is the see of a bishop.

AGE, in a general sense, denotes a certain portion, or part of duration, applied to the existence of particular objects: thus we say, the age of the world, the age of Rome, &c. that is, the time, or number of years, elapsed since the creation of the world, or the building of Rome. Thus, also a man's age is the time he has lived, or the number of years elapsed since his birth; and so in other instances, as the age of a house, the age of a tree, &c.

The age of a horse, deer, &c. is known by several marks; for which see the articles HORSE, DEER, &c.

Chronologers are far from being agreed with respect to the age of the world, some making
making it more, some less. See the article WORLD.

Age is also used in a synonymous sense with century. See CENTURY.

Age likewise denotes certain periods of the duration of the world. Thus, among christian chronologers, we meet with the age of the law of nature, which comprehends the whole time between Adam and Moses; the age of the jewih law, which takes in all the time from Moses to Christ; and lastly, the age of grace, or the number of years elapsed since the birth of Christ. Among antient historians, the duration of the world is also subdivided into certain periods, called ages; of which they reckon three: the first, reaching from the creation to the deluge which happened in Greece, during the reign of Ogyges, is called the obscure or uncertain age; the history of mankind, during that period, being altogether uncertain. The second, called the fabulous or heroic, terminates at the first olympiad; where the third, or historical age, commences. The antient poets also divided the duration of the world into four ages, or periods; the first of which they called the golden age, the second the silver age, the third the brazen age, the fourth the iron age. Not unlike these are the four ages of the world, as computed in Greece, during the reign of Ogyges, is called the obscure or uncertain age; the history of mankind, during that period, being altogether uncertain. The second, called the fabulous or heroic, terminates at the first olympiad; where the third, or historical age, commences. The antient poets also divided the duration of the world into four ages, or periods; the first of which they called the golden age, the second the silver age, the third the brazen age, the fourth the iron age. Not unlike these are the four ages of the world, as computed in Greece, during the reign of Ogyges, is called the obscure or uncertain age; the history of mankind, during that period, being altogether uncertain. The second, called the fabulous or heroic, terminates at the first olympiad; where the third, or historical age, commences.

Age also denotes certain degrees or periods of human life, commonly reckoned four, viz. infancy, youth, manhood, and old age. The first of which extends to the fourteenth year; the second, to the twenty-fifth year; the third, to the fiftieth year; and the fourth, to the seventy-fifth year, or rather, as long as a man lives. Age, in law, signifies certain periods of life, when persons of both sexes are enabled to do certain acts, which for want of years and discretion they were incapable of before: thus, a man at twelve years of age, ought to take the oath of allegiance to the king, in a leet: at fourteen, which is his age of discretion, he may marry, choose his guardian, and claim his lands held in socage. Twenty-one is called full age, a man or woman being then capable of acting for themselves, of managing their affairs, making contracts, disposing of their estates, and the like; which before that age they could not do.

A woman is dowable at nine years of age, may marry at twelve, and at fourteen choose her guardian. If a man or woman acts in any of the above-mentioned capacities, before the time prescribed by law, he or she may retract at that time, otherwise they are supposed to agree to it anew, and it shall be deemed valid. Thus, if a man marries before fourteen, or a woman before twelve, they may either agree to the marriage, or not, at these several ages; and so in other cases. At fourteen, a man may dispose of his personal estate by will, but not of lands. At this age too a man or woman is first capable of being a witness, and under it persons are not generally punishable for crimes, though they must satisfy the damage sustained by trespass committed by them.

Age-priyer, staatem precari, is when an action being brought against a person under age, for lands defcended to him, he, by motion or petition, shews the matter to the court, praying the action may be stayed till his full age; which the court generally agrees to. However, as a purchaser, a minor shall not have his age-priyer; nor in any writ of affize, of dower, or petition; but he may in any action of debt.

By the civil law the case is otherwise, an infant or minor being obliged to answer by his tutor or curator. Among the Romans it was unlawful to put up for any public office, or magistracy, unless the candidate had attained to a certain age; which differed according to the offices sued for. Hence the phrase's confular age, prætorian age, &c. See the articles CONSUL, PRÆTOR, &c.

Age of the moon, in astronomy, the time elapsed since her last conjunction with the sun. See the article MOON.

AGEDA, in geography, a small town in the province of Beirian, between the cities of Oporto and Coimbra.

AGEMA, in macedonian antiquity, was a body of soldiery, not unlike the roman legion. See LEGION.

AGEMOGANS, AGIAMOGLANS, or AZAMOGLANS, in the turkish customs, christian children raised every third year, by way of tribute, from the christians tolerated in the turkish empire. The collectors of this odious tax use to take one child out of three, pitching always upon the most handsome.
AGE

The word agemoglan properly signifies a barbarian's child; and out of their number, after being circumcised, and instructed in the religion and language of their tyrannical masters, are the janizaries recruited. As to those who are thought unfit for the army, they are employed in the lowest offices of the seraglio.

AGEN, an ancient city of France, in the province of Guienne, situated on the river Garronne, about sixty-miles south-eaft of Bordeaux. It is a bishop's see, and the capital of the Agenois.

AGENDA, among philosophers and divines, signifies the duties which a man lies under an obligation to perform: thus we meet with the agenda of a christian, or the duties he ought to perform, in opposition to the credenda, or things he is to believe.

AGENDA is more particularly used for divine service; in which sense, we meet with agenda matutina & vesperina; that is, morning and evening prayers.

AGENDA, among merchants, a term sometimes used for a memorandum book, in which is set down all the business to be transacted during the day, either at home or abroad.

AGENHINE, the same with hogenhine. See Hogenhine.

AGENNOIS, a district of France. See, the article AGEN.

AGENORIA, in mythology, the goddess of courage and industry, as Vacuna was of indolence.

AGENT, in a general sense, denotes any thing which acts or produces an effect. See the articles Act and Action.

Agents are either natural or moral.

Natural Agents are all such inanimate bodies, as have a power to act upon other bodies, in a certain and determinate manner: such is fire, which has the invariable property or power to warm or heat.

Moral Agents, on the contrary, are rational creatures, capable of regulating their actions by a certain rule. These are otherwise called free or voluntary agents. See the articles Freé and Voluntary.

Agents, among physicians and chemists, an appellation given to all kinds of menstruums.

Agent is also used to denote a person entrusted with the management of an affair, whether belonging to a society, company, or private person; thus we say, agents of the eschequer, of the virtualizing office, &c.

AGENTS of bank and exchange, in the commercial polity of France, are much the same with our exchange-brokers.

AGENT and patient, in law, is said of a person who is the doer of a thing, and also the party to whom it is done. Thus, if a man who is indebted to another, makes his creditor his executor, and dies, the executor may retain so much of the goods of the deceased, as will satisfy his debt; by which means he becomes agent and patient; that is, the person to whom the debt is due, and the person who pays it.

AGENTES in rebus, in antiquity, signifies officers employed under the emperors of Constantinople, and differing only in name from the frumentarii, whom they succeeded. See FRUMENTARII.

AGEOMETRIA, a term sometimes used to denote, that a thing is defective in regard to geometry.

AGER, in roman antiquity, a certain portion of land allowed to each citizen. See the article AGRARIAN LAW.

AGER is also used, in middle age writers, for an acre of land. See the article ACRE.

AGER naturalium, among chemists, denotes the element of water, as being supposed the source of minerals.

AGER nature, a term sometimes used for the uterum, or womb, on account of its nourishing the fermen, as the earth doth feed.

AGER, in geography, a small town of Catalonia, in Spain, situated near the source of the river Noguera: it has a castle on the north side.

AGERATUM, maudlin, in botany, a genus of plants, with a monopetalous perigon ed flower; and an oblong membranaceous fruit, divided into two cells, which contain a number of minute seeds, affixed to a placenta. See plate VII. fig. c.

Ageratum belongs to the symgenia class of Linnaeus, and is said to be good for incontinence of urine, on account of its astringent virtue; but is rarely prescribed in the present practice.

AGERATUS lapiz, a stone used by the antients in dying and dressing leather: possibly a species of pyrites.

AGERIUM, the same with agiment. See AGISTMENT.

AGGA, or ACONNA, a British settlement on the gold coast of Guinea. It is situated under the meridian of London, in 6 degrees of north lat.

AGGER, in the antient military art, a bank or rampart, composed of various materials,
materials, as earth, boughs of trees, &c.

The agger of the ancients was of the same nature with what the moderns call lines.

Agger was also used in several other senses, as for a wall or bulwark, to keep off the sea; for the middle part of a military road, usually raised into a ridge; and sometimes for the heaps of earth raised over graves, more commonly called tumuli.

AGGERHAYS, a city of Norway, capital of the province of the same name. It is subject to Denmark, and situated in 11° east longitude, and 59° 30' north lat.

AGGIA SARAI, a town situated on the shore of the caspian sea, between Turkestan and the country of Bugar.

AGGLUTINANTS, agglutinantia, in pharmacy, &c. make a class of strengthening medicines, of a glutinous or viscid nature; which, by readily adhering to the solids, contribute greatly to repair their los.

Agglutinants may be divided into two kinds: 1. Good nourishing foods, especially jellies, whether of harthorn, veal, mutton, &c. 2. Medicines, properly so called, as olibanum, dragon's-blood, gum tragacanth, cassia, comfrey, plantain, and others of the same intention.

Agglutinants, among surgeons, denote much the same with vulneraries. See Vulnerary.

AGGLUTINATION, in a general sense, denotes the joining two or more things together, by means of a proper glue or cement.

Agglutination, among physicians, signifies either the adherence of new substance, or the giving a glutinous constitution to the animal fluids, whereby they become more fit for nourishing the body. See Agglutinants.

Agglutination, according to some, is effected by a fermentation; whilst others attribute such a glutinous nature to the chyle, that a bare contact suffices to make it adhere.

Agglutination is also a term used by astronomers to denote the meeting of two or more stars in the same part of the zodiac, or the seeming coalition of several stars.

AGGRAVATION, a term used to denote whatever heightens a crime, or renders it more black.

AGGREGATE, in a general sense, denotes the sum of several things added together, or the collection of them into one whole. Thus, a house is an aggregate of stones, wood, mortar, &c. See Aggregation.

An aggregate differs from text, mixt, or compound; in as much as the union in these last is more intimate, than between the parts of an aggregate. See the article Text, &c.

AGGREGATION, in natural philosophy, denotes a species of union, whereby several things, nowise connected by nature, are collected together so as to form one whole.

Aggregation is also used in a figurative sense, for an association, or the adding new members to a society already established.

AGGRESSOR, among lawyers, denotes the person who began a quarrel, or made the first assault.

It is a very material point to know who was the first aggressor, and accordingly never fails to be strictly enquired into.

AGHER, ACHER, or AUGHER, a town of Ireland, which sends two members to parliament. It is situated in the southern part of Ulster, not far from Clogher.

AGHRIM, a town of Ireland, in the county of Wicklow, and province of Leinster, situated about thirteen miles south-west of Wicklow.

AGIADES, in the turkish armies, denote a kind of pioneers, employed in fortifying camps, and the like offices.

AGIASMA, the same with hagiasma. See Hagiasma.

AGIGEN-SALON, a town of Turkey, upon the road from Constantinople to Isphahan, about a day's journey from the city of Tocia.

AGILD, or AGILDE, in old law-books, denotes a person of so little account, that whoever killed him was liable to no fine for so doing.

AGILITY, agilitas, signifies an aptitude of the several parts of the body to motion; or it may be defined, the art or talent of making the best use of our strength.

AGILLARIUS, in old law-books, the same with hayward. See Hayward.

AGINCOURT, a village of the French Netherlands; famous on account of the victory obtained by Henry V of England, over the French, in 1415.

AGIO, in commerce, a term chiefly used in Holland and at Venice, where it denotes the difference between the value of bank flocks, and the current coin.

Money
Money in bank is commonly worth more than specie: thus, at Amsterdam, they give 103 or 104 florins for every 100 florins in bank. At Venice, the agio is fixed at 20 per cent.

Gio is also used for the profit arising from the discounting a note, bill, &c. See Bill and Discount.

Gio of assurance, the same with what we call policy of assurance. See Policy of assurance.

Giosymandrum, in the Greek church, subject to the Turks, a wooden machine, used instead of bells, the use of these being prohibited.

Gist, the same with gistment. See the next article.

Gistment, Agistage, or Agitation, in law, the taking in other people's cattle to graze, at so much per week.

The term is peculiarly used for the taking in cattle to be fed in the king's forests, as well as for the profits thence arising.

Gistment is also used in a metaphorical sense, for any tax, burden, or charge: thus, the tax levied for repairing the banks of Romney marsh was called gismentum.

Gistor, or Agistator, an officer belonging to forests, who has the care of the cattle taken in to be grazed, and levies the monies due on that account.

There are four such agitators in each forest, all created by letters patent, and commonly called guest-takers, or gift-takers.

Gistalia animalium in forstat, in old law-books, signifies the drift of cattle or beaks in a forest.

Gitation, agitatio, the act of shaking a body, or toffing it backwards and forwards.

Agitation greatly affists several operations of nature. By it butter is made out of milk. Digestion too is reckoned an indigestible kind of agitation.

The agitation of the body is deemed one mark of inspiration. See Inspiration.

Agitation, among ancient physicians, denotes a kind of exercise, generally called swinging, which they put in practice when the patient could use no other exercise.

Gitar, in antiquity, a term sometimes used for a charioteer, especially those who drove in the circus at the curule races.

Gitaris, in the English history, certain officers set up by the army in 1647, to take care of its interests.

Cromwell joined the agitators, only with a view to serve his own ends; which being once accomplished, he found means to get them abolished.

Aglia, or Aquila, a town of Africa, in the kingdom of Fez, situated not far from the river Guarga.

Agiaophotis, in botany, a term sometimes used for piony. See the article Piony.

Aglects, Aglets, or Agleeds, among botanists, the same with what is more usually called alices. See Alices.

Aglia, a term used by ancient physicians for a whitish spot in the eye, caused by a congestion of humours.

Aglia, in geography, a fortress of Piedmont, with the title of marquifate, situated in the Canaves.

Aglia, or Agmet, the name of a town, district, and river of Africa, in the empire of Morocco.

Agmen, in the Roman art of war, denoted an army, or rather a part of it, in march: thus we read of the primus agmen, or van-guard; medium agmen, or main body; and the posteriorum agmen, or rear-guard. We also meet with the agmen pilatum, which was a part of the army, drawn up in form of an oblong parallelogram, and answered to what the moderns call column. However, the agmen quadratum, or square form, was that most practised in the Roman armies.

Agmen is also used for any body of men, or other animals, advancing in tolerable order.

Agmonesham, in geography. See the article Abersham.

Agnabat, a town of Transylvania, subject to the house of Austria, situated about ten miles north-east of Hermannstadt.

Agnano, a lake of the kingdom of Naples, in the province of Lavoro.

Agnanthus, in botany, the name by which Vaillant calls the cornutia of Linnaeus. See the article Cornutia.

Agnation, agnatio, among civilians, denotes the relation of kinship subsisting between the descendants of the same man, in the male line.

Agnel, an ancient French coin, otherwise called mouton d'or. See the article Mouton d'or.

Agnelet, an ancient French coin, worth about twenty sols.

Agno, a river of Naples, which, taking its rise in the mountainous part of Terra
di Lavoro, washes the town of Acerro, and passing between Capua and Averfa, falls into the Mediterranean, about seven miles north of Puzzolli.

Agnoetæ, in church-history, a sect of heretics, so called on account of their maintaining, that Christ, with respect to his human nature, was ignorant of many things; and particularly of the day of judgment, an opinion which they built upon the text, Mark xii. 32. whereof the most natural meaning is, that the knowledge of the day of judgment does not concern our Saviour, considered in the character of Messiah.

Agnoetism, among ecclesiastical writers, signifies the doctrine or heresy of the agnoetæ. See the preceding article.

Agnomen, in roman antiquity, a kind of fourth or honorary name, given to a person on account of some extraordinary action, virtue, or other accomplishment. Thus the agnomen Africanus was bestowed upon Publius Cornelius Scipio, on account of his great achievements in Africa.

In cafes of adoption, it was usual to retain their former cognomen, or family name, by way of agnomen: thus Marcus Junius Brutus, being adopted by Quintus Servilius Caepio, called himself Quintus Servilius Caepio Brutus.

Agnon, a small river of Bourgogne in France otherwise, called Ignon.

Agnone, a city of the kingdom of Naples, in the province of the latter Abruzzo, called by some Ancione.

Agnos, in ichthyology, the name used by the ancient Greek writers for the fish now known by that of uranochopus, or the star-gazer. See Uranoscopus.

Agnus, the lamb, in zoology, the young of the sheep-kind, for the proper treatment of which, see the article Lamb.

Agnus castus, in botany, &c. a name given to the vitex, on account of its efficacy in preventing loose venereal defires, pollutions, &c. See the article Vitex.

During the feast of Ceres, the athenian ladies, who made profession of chastity, lay upon the leaves of agnus castus: and to this day the monks and nuns are said to use them for the same purpose.

Agnus dei, in the church of Rome, a cake of wax, stamped with the figure of a lamb supporting a cross. These being consecrated by the pope with great solemnity, and distributed among the people, are supposed to have great virtues; as to preserve those who carry them worthy, and with faith, from all manner of accidents; to expel evil spirits, &c.

What an admirable expedient to drain the purses of the credulous laity, and fill those of the clergy!

Agnus dei is also a popular name for that part of the mass, where the priest strikes his breast thrice, and says the prayer beginning with the words agnus dei.

Agnus foibicus, in natural history, the name of a fictitious plant, resembling a lamb, said to grow in Tartary.

Kempfer, who was in the country, could not, by the most diligent enquiry, find any account of it; and therefore concludes the whole to be a fiction. Kemp. Amer. exot. p. 508.

As to the curiosities shewn under this name, they can be nothing else but the capillary roots of certain plants helped out by art.

Ago bel, a small town of Africa, in the empire of Morocco, and province of Hea.

Ago, among antient naturalists, denoted a drain for carrying off water from a mine.

Ago, among antient musicians, a species of modulation, wherein the notes proceeded by contiguous degrees.

There are three kinds of ago: 1. When the notes rise from grave to acute, as, B C D E, called by the antients ductus rectus, and by the modern Italians conducimento retto. 2. When they fall from acute to grave, as E D C B, called by the antients ductus revertere, and by the modern Italians conducimento riformante. 3. When they rise by flats and fall by sharps, called by the antients ductus circumcurrentes, and by the modern Italians conducimento circumcorrente.

Ago, in the public games of the antients, a term used indifferently for any contest or dispute, whether respecting bodily exercises, or accomplishments of the mind. Thus poets, musicians, &c. had their agones, as well as the athletæ.

Games of this kind were celebrated at most of the heathen festivals, and not unfrequently by themselves, either annually, or at certain periods of years: of this last kind were the ago gymnasticus at Athens, the ago nemus, ago neronia, ago folis, &c.

Ago was also used for one of the ministers employed in the heathen sacrifices, whose business it was to strike the victim.
AGON, in roman antiquity, a place near the Tiber, where the curule games were celebrated, otherwise called Circus Flamminius.

AGON, among physicians, a term sometimes used to denote the struggle of death more commonly called agony. See the article AGONY.

AGONALES, in roman antiquity, the name with the falii. See the article SALII.

AGONALIA, in roman antiquity, festivals celebrated in honour of Janus, or of the god Agonius, whom the Romans invoked before undertaking any affair of importance.

They seem to have been kept three times in the year, viz. on the 5th of the ides of January, on the 12th of the calends of June, and on the third of the ides of December.

AGONENSES, the same with the falii. See the article SALII.

AGONISTARCHA, in antiquity, the officer who directed the preparatory exercises of the athletes; though some make him the same with the agonotheta. See AGONOTHETA.

AGONISTICA, a term used to denote the science of whatever belonged to the agonies, or public exercises of the athletes. See the article AGON.

AGONISTICI, in church-history, a name given by Donatus to such of his disciples as he sent to fairs, markets, and other public places, to preach and propagate his doctrine.

AGONISTICON, a term used by ancient physicians for cold water, as being supposed to combat with the febrile heat.

AGONIUM, in roman antiquity, was used for the day on which the rex sacrorum sacriﬁced a victim, as well as for the place where the games were celebrated, otherwise called agon.

AGONODICA, the same with agonotheta. See the next article.

AGONOTHETA, or AGONOTHERES, in grecian antiquity, was the president or superintendant of the sacred games; who not only defrayed the expenses attending them, but inspected the manners and discipline of the athletes, and adjudged the prizes to the victors.

At ﬁrst there was only one agonotheta, in the olympic games; but several colleagues were afterwards joined with him, three of whom had the direction of the horse races, three others of the pentathlon, and the rest of the other exercises.

AGONUS, in ichthyology, the name of a ﬁsh of the herring-kind; being a species of clupea, with black spots on both sides. See plate VIII. fig. 1.

AGONY, among physicians, denotes extreme pain, or the utmost efforts of nature, struggling with a disease.

AGONY, in a more limited sense, is used for the pangs of death; which are less painful than usually imagined, the body being then incapable of quick sensations. See DEATH.

AGONYCLITAE, or AGONYCLITES, in church-history, a name used by ancient physicians, who had the regulation of weights and measures, of the prices of provisions, &c.

The agoramomoi were afterward called agonyclites, in church-history, a name used by ancient physicians, who had the regulation of weights and measures, of the prices of provisions, &c.

AGORY, in a more limited sense, is used for the pangs of death; which are less painful than usually imagined, the body being then incapable of quick sensations. See DEATH.

AGORAEUS, in heathen antiquity, an appellation given to such deities as had statues in the market-places; particularly Mercury, whose statue was to be seen in almost every public place.

The Lacedaemonians too paid an extraordinary veneration to Minerva Agora.

AGORANOMUS, agoranomus, in grecian antiquity, a magistrate of Athens who had the regulation of weights and measures, of the prices of provisions, &c. See the article EDILE.

The agoranomus answered in part to the edile of the Romans. Some make the agoranomi only ten in number, ﬁve to the city, and as many to the pyreus; whereas others make them ﬁfteen.

AGOUGES, a river of France, which, after watering part of Auvergne, falls into the Siole.

AGRA, a city of the hither India, and capital of a kingdom of the same name. It is situated on the river Jemma, and is a large, populous, and beautiful city, where the mogul frequently resides.

AGRAM, a city and bishop’s see of Hungary, situated near the frontiers of Carniola.

AGRARIAN, in a general sense, denotes something belonging to, or connected with, lands. Thus, AGRARIAN Stationes, agrariae stationes, in the roman art of war, were a kind of advanced guards, posted in the fields.
AGRICULTURE, in a general sense, denotes the art of rendering the earth fertile, by tillage and culture.

In which sense, it comprehends gardening, as well as husbandry. See the articles Gardening and Husbandry.

AGRICULTURE is more particularly used for the management of arable lands, by plowing, fallowing, manuring, &c. See the article Plowing, &c.

Agriculture is a nobler honourable than profitable art, hold in the highest esteem among the ancients, and equally valued by the moderns.

The Egyptians ascribed the invention of agriculture to Osiris, the Greeks to Ceres, and her son Triptolemus, and the Italians to Saturn or Janus. But the Jews, with more reason, ascribe this honour to Noah, who, immediately after the flood, set about tilling the ground and planting vineyards.

Agriculture has been the delight of the greatest men. We are told, that Cyrus the younger planted and cultivated his garden, in a great measure, with his own hands; and it is well known, that the Romans took many of their best generals from the plough.

But not to detain the reader with a needless encomium of this universally admired art, we shall here subjoin its principal branches, which will be treated of under their respective articles.

Agriculture, then, may be subdivided into the proper management. 1. Of all kinds of arable lands, whether of a clayey, sandy, loamy, or whatever other soil. See the articles Clay-lands, Sandy-lands, &c.

2. Of lands employed in pasture, whether they be meadow-lands, marshy lands, &c. See Meadow-lands, &c.

3. Of wood-lands, or those laid out in nurseries, plantations, forests, woods, &c. See the article Wood-lands, &c.

AGRIFOLIUM, in botany, the same with aquifolium. See the article Aquifolium.

AGRIMONIA, in botany. See the article Agrimony.

AGRIMONOIDES, in botany, a genus of plants with rosalaceous flowers, which, together with their cups, are received into another funnel-shaped cup, fringed at the edges. The proper cup of the flower at length becomes a pointed, oval fruit, usually containing only one seed. See plate VIII. fig. 2.

It flowers in April, comes to perfection

Vol. I.
in May, and grows in some mountainous parts of Italy; as to its medical virtues it agrees with agrimony. See the next article.

**AGROMONY**, *agrimonia*, in botany, a genus of the dodecandria digynia class of plants with rosaceous flowers, the cup of which at length becomes an oblong echinated fruit, containing one or two oblong seeds. See plate VIII. fig. 3.

Agrimony-leaves make a very pleasant tea, said to be good in the jaundice, in cachetic fevers, and in obstructions of the liver and spleen. The country people also used it, by way of cataplasm, in contusions and fresh wounds.

**Hemp-Agrimony. See Eupatorium.**

**Water-Hemp-Agrimony**, the same with bidens. See the article *Bidens*.

**AGRICINARA**, in botany, a name sometimes used for a species of arctioak. See the article *Artichoak.*

**AGRIPPA**, a denomination given by antient as well as modern physicians, to children born with the feet foremost. See the article *Delivery.*

Notwithstanding what some allege, this kind of birth is certainly very dangerous; and, therefore, ought to be carefully avoided by the skilful midwife.

**AGRIUM**, in natural history, the name by which the anteats called the coarser kinds of natrum. See *Natrum*.

**AGROM**, in medicine, a disorder incident to the people of the East-Indies, wherein their tongues cleave in several places. The remedy for this disease, which they attribute to an extreme heat in the stomach, is to chew the black seeded balsica, and to drink a chalybeated liquor, or the juice of large mint.

**AGROPOLI**, a small town of the kingdom of Naples, and province of the hither Principato.

**AGROSTEMA**, in botany, a distinct genus of decandrious plants, according to Linnæus; but comprehended among the *lychnis's* by Tournefort. See the article *Lychnis.*

**AGROSTIS**, in botany, a distinct genus of triandrous plants, called in English *quick-gras* or *coww-gras*; the flower of which is composed of two pointed valves, one shorter than the other, and terminated by a beard or awn.

**AGROSTOGRAPHIA**, among naturalists, signifies the history or description of grasses. Such is that of Scheuchzer; containing an accurate description of several hundreds of species of gras.

**AGRYPNIA**, in a general sense, denotes much the same with watchfulness, or an inaptitude to sleep; which is a very troublesome symptom of feverish, and other disorders. See the article *Watching.*

**AGRYPNIA**, in the greek church, the vigil of any of the greater festivals.

**AGUADA**, the same with *ageda*. See the article *Ageda.*

**AGUAGUIN**, in botany, the name of a shrub, the leaves of which resemble lilac; they grow alternately, stand upon foot-stalks half an inch long.

The Africans have it in great esteem, on account of its balsamic and vulnerary qualities.

**AQUALVA**, in geography, the name of a river of Portugal, and of a town in the island of Tercera.

**AGUAPECACA**, in ornithology, a brazilian kind of birth is certainly very dangerous; ing the bird *Aguara-Quiy A*, in botany, a brazilian plant, supposed to be the same with *Agua-Quiy A*;

**AGUA-PONDA**, in botany, the same with *Aguara-Ponda*, in botany, the brasilian name of a species of violet, which grows to the height of a foot and an half, or more, and bears a great resemblance to the *viol maria*. See *Violet.*

**AGUARICO**, a river of South America, which, arising in the mountains of Cordeleras, falls into the river of the Amazons.

**AGUBER**, a river of Africa, in the kingdom of Fez, which lies itself in the Beber. See *Beber.*

**AGUE**, a general name for all periodical fevers, which, according to the different times of the return of the feverish paroxysm, or fit, are denominated quotidian, tertian, or quartan agues. See the article *Quotidian,* &c.

Agues are thought to be owing to a suppression of perspiration, as their more immediate caufe, whether that be occasioned by a foggy and moist air, or by putrid damps; but their *causa proxima* seems to be an actual corruption of the humours of the body.

Dr. Fringle thinks the best way of accounting for the periodic returns, is upon the principle of putrefaction. The heat of the body, he observes, varies little, and
and therefore the corruption produced in any of the humours must happen in a determinate time. If we suppose, that in the paroxysm the more corrupted particles of the blood do not all pass off through the skin with the sweat, but that some part of them are discharged with the bile; these particles coming into the intestines, and being from thence taken up by the lacteals, and carried into the blood, may there act as a new ferment, and occasion a return of the fit. Thus, the corruption of the bile may be the effect of the first fit, and the cause of those that ensue.

The doctor farther observes, that those mottled countries are subject to agues of some kind or other; yet if the moisture is pure; and the fummers are not close and hot, they will most appear in a regular tertian shape, and be easily cured. But if the moisture arises from long stagnating water, in which plants, fishes and insects die and rot, then the damps, being of a putrid nature, not only occasion more frequent, but more dangerous fevers, which often appear in the form of quotidian terris, and double tertians, the whole fortune ariing from the guinea-pig, which it greatly resembles. Its hairs are rigid and glossy, of a mixed colour between red and brown, with more or less of black. Its whiskers are like those of the rabbit-kind; but like the hog, its upper lip is split, like that of the hare. Its tail is very short, the eyes are prominent, and the legs are altogether or almost naked. See plate IX. fig. 6.

AGUTI, in zoology, an American quadruped of the rat-kind, of the size of the guinea-pig, which it greatly resembles. Its hairs are rigid and glossy, of a mixed colour between red and brown, with more or less of black. Its whiskers are like those of the rabbit-kind; but like the hog, its upper lip is longer than the under one. Its upper lip is split, like that of the hare. Its tail is very short, the eyes are prominent, and the legs are altogether or almost naked. See plate IX. fig. 6.

AGUTI-GUEPA, in botany, the Brazilian name of the Sagittarium alexipharmaca. See the article Sagittarium.

AGUTI-TREVA, in botany, the name of a plant, mentioned by De Laët, with leaves like those of the orange-tree, only thinner, and a large fruit containing kernels like those of the pomegranate.

AGUZ, a river of Africa, in the empire of Morocco, and province of Duquela.

AGUTI, in antiquity, a kind of obelisks, sacred to Apollo, erected in the vestibules of houses, by way of security.

AGYRIA, in church-history, a sect of heretics who condemned all carnal commerce with women.

AGUR, a name used by some authors for the lignum aloes. See the article Xylo-aloes.
AICHALE, in botany, a name by which some call the acus vulgaris, or gar-chin. See the article Acus.

AICHMALOTARCHA. See the article Eichmalotarcha.

AICHSTAT, a city of Germany, in the circle of Franconia, about fourteen miles N. W. of Ingolstadt.

AID, in a general sense, denotes any kind of assistance given by one person to another.

AID, or Ayde, in law, denotes a petition made in court to call in help from another person, who has interest in land, or other thing contested. This is called aid prior, which not only strengthens the party that prays for the aid, but gives the other person an opportunity of avoiding a prejudice that might otherwise accrue to his own right. Thus, a tenant for life may pray aid of the person in reversion; and a city or borough, that holds a fee-farm of the king, if any thing be demanded of them, may pray for aid of the king.

AID-de-camp, in military affairs, an officer employed to receive and carry the orders of a general. They ought to be alert in comprehending; and punctual and distinct in delivering them.

In the French armies, every general is allowed four aids de camp, a lieutenant-general two, and a marshall-de-camp one.

AID-major, the french term for an adjutant. See the article Adjutant.

AID, auxilium, in antient customs, a subsidy paid by vassals to their lord, on certain occasions. Such were the aid of relief, paid upon the death of the lord mine, to his heir; the aid cheval, or capital aid, due to the chief lord on several occasions, as to make his eldest son a knight, to make up a portion for marrying his daughter; and so in other cases.

Royal Aid, an appellation sometimes given to the land-tax.

AID, in the french customs, certain duties paid on all goods exported or imported into that kingdom.

Court of Aids, in France, a sovereign court established in several cities, which has cognizance of all causes relating to the taxes, gabels, and aids.

AIDS, in the manage, are the same with what some writers call cheribings, and used to avoid the necessity of corrections.

The inner heel, inner leg, inner rein, &c. are called inner aids; as the outer heel, the outer leg, outer rein, &c. are called outer aids.
AIM

AIDS of officers of wood. See Assizer.
AIDERBEITZAN, the same with Azerbeian. See the article Azerbeian.
AIDINELLI, or AIDINLI, the modern or Turkish name of Natolia, or lesser Asia. See Natolia.
AIELO, or AIELLO, a small town of the kingdom of Naples, in the farther Abruzzo, with the title of dutchy.
AIREBA, in ichthology, a fish of the paffimachia marina kind, the body of which is of a regular oval or round shape, and its head placed far within the verge of the thin part. See plate VIII. fig. 5.
AIGHENDALE, the name of a liquid measure used in Lancashire, containing seven quarts.
AIGHTHALUS, a name given by the antients to the parus, or titmouse. See the article Parus.
AIGLE, in geography, the name of a town of France, in the higher Normandy; also of a promontory in Provence, lying southward of the city of Ciotad; and of a town and district of Switzerland, in the canton of Bern.
AIGRE, a river of France, otherwise called Egere. See the article Egere.
AIGLETTE, in heraldry. See Eagle.
AIGRETTE, the name of a species of heron, otherwise called ardea alba minor.
AIGUE MARINE. See Aqua Marine.
AIGUILLON, or EGIUILLON, a small town of France in the province of Guienne, situated at the conflux of the rivers Garonne and Lot.
AIGUISCE, AIGUISE, or EGUICE, in heraldry, denotes a crof with its four ends sharpened, but so as to terminate in obtuse angles.
It differs from the crof fitchée, in as much as the latter goes tapering by degrees to a point, and the former only at the ends.
AILE, or AIEL, in law, a writ which lies where a person's grand-father, or great-grand-father being seized of lands, &c. in fee-simpie the day that he died, and a stranger abates or enters the same day, and dispofees the heir of his inheritance.
AILESBOURNE, the county-town of Buckinghamshire, situated near the Thames, about forty-four miles west of London. It sends two members to parliament, and gives the title of earl to the noble family of Bruce. W. longitude 40°. N. latitude 51°. 40'.
AIRMARGUES, a small town of France in the province of Languedoc, and diocese of Nîmes.
AIN, a river of France, which, after watering part of Franche Comté and Breil, falls into the Rhone, about four leagues above Lyons.
AINZIE, the name of a districk of Scotland, lying eastward of the mouth of the river Spey.
APIIMIXIRA, in zoology, the American name of a fish, more generally known by that of pudiano. See PUDIANO.
AIR, aër, in physiology, a thin elastic fluid, surrounding the globe of the earth. It is no easy task to ascertain the nature and origin of air, as being a fluid imperceptible to all our senses, except that of feeling. Indeed, from the resistance and impreffion it makes, we know that there is such a body, which every where surrounds our earth, and is of the utmost importance not only to mankind, in promoting many useful arts, but absolutely necessary to the preservation of animal life itself.
The best account we have of the origin of air, is that of Mr. Boyle, who supposes it to be made up of three different kinds of corpuscles, viz. 1. Of those numberless and minute particles, which, in the form of vapours or dry exhalations, ascend from the earth, water, minerals, vegetables, animals, &c. in short, of whatever substances are elevated by the celestial or subterraneous heat, and thence diffus'd into the atmosphere. 2. Of a still more subtle matter, consisting of those exceedingly minute atoms, the magnetic effluvia of the earth, with other innumerable particles sent from the bodies of the celestial luminaries, and caused, by their impulse, the idea of light in us. 3. Of an elastic substance, which is the basis of all the other parts, and constitutes the true essence of air, concerning the structure of which various hypothesis have been framed. Some have resembled these elastic particles to the springs of watches coiled up, and endeavouring to restore themselves; others to flocks of wool, which being compreßed, have an elastic force; and others, to slender wires, of different substances, consistences, &c. yet all springy, expanuble and comprefisible.
Among the artificial methods of producing air, the fittest for practice seem to be
AIR [78]

be fermentation, corrosion, and the dissolution of bodies, by the boiling of water and other liquors; by the mutual action of bodies upon one another, especially saline ones; and lastly, by analyzing and resolving certain substances.

It appears from the experiments made by the learned Dr. Hales, that different bodies contain different quantities of air, from a sixteenth to one half of their whole substance. In the following table, the first column shews the bulk of the body in cubic inches; the second, its weight in grains, the third, the quantity of generated air in cubic inches; the fourth, the weight of this air in grains; and the fifth shews the proportion which it bears to the whole.

<table>
<thead>
<tr>
<th>Substances</th>
<th>C Inches</th>
<th>Grains</th>
<th>C Inches</th>
<th>Grains</th>
<th>Prop.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deer's horn</td>
<td>(\frac{1}{2})</td>
<td>241</td>
<td>117</td>
<td>33</td>
<td>(\frac{1}{7})</td>
</tr>
<tr>
<td>Oyster-shell</td>
<td>(\frac{1}{2})</td>
<td>266</td>
<td>162</td>
<td>40</td>
<td>(\frac{2}{5})</td>
</tr>
<tr>
<td>Heart of oak</td>
<td>(\frac{3}{2})</td>
<td>135</td>
<td>108</td>
<td>30</td>
<td>(\frac{3}{10})</td>
</tr>
<tr>
<td>Indian wheat</td>
<td>(\frac{1}{2})</td>
<td>288</td>
<td>270</td>
<td>72</td>
<td>(\frac{4}{5})</td>
</tr>
<tr>
<td>Pea</td>
<td>1</td>
<td>318</td>
<td>396</td>
<td>113</td>
<td>(\frac{2}{3})</td>
</tr>
<tr>
<td>Mustard-seed</td>
<td>(\frac{1}{2})</td>
<td>437</td>
<td>270</td>
<td>77</td>
<td>(\frac{3}{4})</td>
</tr>
<tr>
<td>Amber</td>
<td>(\frac{1}{2})</td>
<td>135</td>
<td>135</td>
<td>38</td>
<td>(\frac{4}{3})</td>
</tr>
<tr>
<td>Dry tobacco</td>
<td>(\frac{1}{2})</td>
<td>142</td>
<td>153</td>
<td>44</td>
<td>(\frac{5}{6})</td>
</tr>
<tr>
<td>Honey, with calx of bones</td>
<td>1</td>
<td>359</td>
<td>144</td>
<td>41</td>
<td>(\frac{5}{6})</td>
</tr>
<tr>
<td>Yellow wax</td>
<td>(\frac{1}{2})</td>
<td>243</td>
<td>54</td>
<td>15</td>
<td>(\frac{1}{3})</td>
</tr>
<tr>
<td>Coarse sugar</td>
<td>(\frac{1}{2})</td>
<td>373</td>
<td>126</td>
<td>36</td>
<td>(\frac{2}{3})</td>
</tr>
<tr>
<td>Newcastle coal</td>
<td>(\frac{1}{2})</td>
<td>158</td>
<td>180</td>
<td>51</td>
<td>(\frac{2}{5})</td>
</tr>
<tr>
<td>Nitre, with calx of bones</td>
<td>(\frac{1}{2})</td>
<td>211</td>
<td>90</td>
<td>26</td>
<td>(\frac{3}{4})</td>
</tr>
<tr>
<td>Rhenish tartar</td>
<td>1</td>
<td>443</td>
<td>504</td>
<td>144</td>
<td>(\frac{2}{3})</td>
</tr>
<tr>
<td>Calculus hum. manus</td>
<td>(\frac{1}{2})</td>
<td>230</td>
<td>516</td>
<td>147</td>
<td>(\frac{1}{2})</td>
</tr>
</tbody>
</table>

Properties of Air. Air being an universal and powerful instrument, which nature is constantly applying in all her works, the knowledge of its active properties is highly necessary not only to the chemist and physician, but to the philosopher and divine.

1. Fluidity, then, which is one of the most obvious and essential properties of air, seems to be owing to the tenuity of its parts. That air is a fluid, appears from the easy passage it affords to all bodies moving in it. However, air differs from all other fluids, in being compressible, in its differing in density according to its height from the earth's surface, and in being incapable of fixation, at least by itself. See Atmosphere.

2. Gravity, another considerable property of air, may be proved from various experiments, among which one is very exact, viz. by weighing it in a balance like all other heavy bodies. Having exhausted all the air, as near as can be, out of a glass flask, whose capacity is exactly known, and the weight of the air, as near as can be, out of the flask, the weight in the flask, and the air will be heard to rise in; on which the flask will preponderate greatly. To restore the equilibrium again, it is necessary to add about eight grains for every pint the flask contains; which shews that a gallon of air weighs about a dram, and a bushel an ounce troy.

However, as the air is an heterogeneous fluid, its weight must vary according to its different component parts; hence an instrument called a barometer, has been invented to shew this variation. See the article Barometer.

3. Elasticity, a third essential property of air, is evident from the common experiment of a blown bladder. The elasticity of air, or the force whereby it endeavours to expand itself, is always as its density. Hence, if air, near the surface of earth, be included in any vessel, without altering its density, the pressure of the included air will be equal to the weight of the atmosphere. Hence too it is evident, that the more air is compressed, the greater will be its spring.

Mr. Boyle has determined the difference between the most rarified and most condensed air, to be as 1 to 10000: since therefore, after to high a degree of rarefaction and condensation, its elasticity still remains, we may fairly conclude air to be an unchangeably elastic, moveable fluid, constantly operating in, and upon all bodies, by its own peculiar vibratory motion.

Heat is found to increase the elasticity of air, and cold to have a quite contrary effect: hence appears the use of the thermometer for indicating the various degrees of both. See Thermometer.

To the pressure of air, we are to attribute the coherence of the parts of bodies. Breathing too, on which depends animal life, is owing to the pressure and spring of the air; and to the same
fame cause may be attributed the pro-
duction of fire and flame, as appears
from the sudden extinction of a coal or
candle in the exhausted receiver. It is
likewise necessary for the existence and
propagation of sounds, for the germina-
tion and growth of plants, for convey-
ing all the variety of smells, and for
transmitting the rays and influence of
the celestial bodies. In short, such is
the generating and vivifying power of
air, that fame of the ancient philoso-
phers considered it as the first principle
of all things.
Air not only acts upon all bodies, by its
common properties of weight and elas-
ticity, but by the peculiar virtues of the
ingredients whereof it is composed.
By means of a corroding acid it dissolves
iron and copper, unless well defended by
oil. Even gold, in the chemists labora-
tory, when the air is impregnated with
the effluvia of aqua regia, contracts a
rust like other bodies. It fixes volatile
bodies, and volatilizes those which are
fixed.
From the different effluvias, diffused thro'
the air, proceed a variety of effects.
Near mines of copper, it will discolour
silver and brass; and in London, the
air of which abounds with acid and cor-
rrosive particles, metallic utensils rust
sooner than in the country. It is very
difficult to obtain oil of sulphur in a clear
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist
dry air, as its parts are then more ready
to evaporate; whereas, in a moist cloudy
air, it may be obtained in abundance.
All faults melt more readily in cloudy
weather; and separations succeed best
in the same state of the air. If pure wine
be carried into a place where the air is
full of the fumes of wine then
weathci' j and separations succeed
be carried into a place where the air is
in the same state of the air.
All salts melt
to evaporate; whereas, in a moist

**AIR**

him rise with obedience, measure, and
justness of time.

Some even extend the meaning of the
word to the natural paces of the horse,
as walking, trotting, galloping; but
the more exact writers restrain it to those
motions already mentioned.

**AIR-BLADDER**, the name with what some call the *fustim*, or *swimming-bladder*; being
a vehicle found in the bodies of all fishes;
the cartilaginous, cetaceous, and perhaps
a few other kinds excepted.

By this bladder, which is always more
or less replete with air, the fish is ena­
bled to sustain its body at any depth.
Near the bottom, the great weight of
the incumbent water compresses the body
of the fish, or rather the inclosed air­
bladder, till it becomes equiponderant
with an equal bulk of water. In the
middle region, where the pressure is
less, the air-bladder expands; and there­
by increases the bulk of the fish, without
adding anything to its weight, till it
becomes equiponderant with an equal
bulk of water. As the fish continues to
rise, the air-bladder still expands and
sustains it.

It is highly probable, that fishes have a
power of expanding or compressing the
air-bladder, exclusive of the weight of the
water, and by that means of rising, or
finking, according as they dilate or com­
press the bladder.

Some fishes have only a single air-bladder;
others, a double one; and in others, it is
triple, or divided into three cells. Fishes
which lie grappling at the bottom, have
no air-bladders; and it is remarkable, that
if the air-bladder be pricked or burst, in
fishes naturally furnished with it, they im­
mEDIATELY sink to the bottom, from whence
they can never raise themselves.

**AIR-GUN**, a machine for exploding balls
by means of condensed air. See Plate IX.
Authors describe two kinds of this ma­
chine; viz. the common one, and what
is called the magazine air-gun.

The common air-gun is made of brasses,
and has two barrels; the innermost one
K A (fig. 1.) being of a small bore;
and the other, E C D R, larger. In the
flock of the gun, there is a syringe
S M N P; by which the air is injected
into the cavity between the two barrels,
through the valve E P. The ball K
is put down into its place, in the smaller
barrel, with a rammer, as in other guns.
At SL is another valve, which being
drawn open by the trigger O, makes
way for the air to get behind the ball,
so as to drive it out with great violence.

By opening and shutting this valve sud­
denly, one charge of condensed air will
answer for several discharges, which are
effected by means of a lock, represented
in fig. 2.

**Magazine Air-Gun**, that represented in
fig. 5, where several balls are lodged
in the cavity or magazine E D, which
is of a serpentine form, that they may
be driven into the floating barrel by
means of the hammer H, represented
in fig. 5.

To make a discharge, pull the trigger
Z Z (fig. 3.) which throws up the seer
y x, and disengages it from the notch z
upon which the strong spring W W
moves the tumbler T, to which the cock
is fixed. The end x of this tumbler bears
down the end of the tumbling lever R,
which by its other end m, raises the flat
end of the horizontal lever Q, by
which means the pin P P is pulled up,
and opening the valve V, discharges
the ball; all which is evident from a
bare view of the figure.

To bring another ball instantly to suc­ceed, there is a part H, called the ham­
er, represented in fig. 4. 5, which turns
the key of the cock, or circular part
a b e c, into any situation required. When
a ball is in the gun the bore of this key
coincides with that of the barrel K K,
but when it is discharged, the hammer
H is instantly brought down to flut the
pan of the gun; by which motion, the
bore of the key is turned into the situ­
ation i k (fig. 4.) to as to coincide with the
orifice of the magazine; and upon lifting
the gun upright, the ball next the key tumb­
bles into its cavity; and falling behind two
small springs r, (fig. 3.) is by them detain­
ed. Then opening the hammer again,
the ball is brought into its proper place,
near the discharging valve, and the bore
of the key again coincides with that of
the floating barrel.

**AIR-PUMP**, a machine by which the air,
contained in a proper vessel, may be ex­
hausted, or drawn out.

Otto de Guericke, a burgomaster of
Magdeburg, was the first inventor of
this curious instrument; which was
afterwards greatly improved by Mr. Boyle,
Mr. Papin, and Mr. Hawkbee.

That commonly used at present is repre­
sented in plate X, where A A are the
two brass barrels, in which the pistons
C C move up and down. The brass
tube
Common Air Pump.
A R

tube or pipe, marked H H, is called the swan’s neck; through which the air passes from under the receiver O O, by a small hole K, in the middle of the brass plate I I, on the top of the pump, to a brass piece in the box D D; which being perforated lengthwise to the middle point under each barrel, transmits the air by a bladder-valve to be pumped out. The mercurial gauge, which communicates with the receiver, is marked L L L. The stop-cock N, serves to readmit the air, when there is occasion. B is the handle, or winch, for working the pump. G, G, are two pillars supporting the frame of the pump-wheel, which is screwed upon them by the two nuts E E. As to the uses of the other parts, they will readily be comprehended by only inspecting the figure.

The operation of this machine depends on the elasticity of the air; for, by working the pump, the air in the receiver will expand itself: by which means part of it will be forced into the barrel of the pump, to be carried off. By thus continuing to work the pump, the air in the receiver will be gradually exhausted; but can never be wholly drawn out, so as to leave a perfect vacuum within the vessel.

Portable Air-Pump, one so contrived as to be easily carried from one place to another.

Its description may be seen in plate XI. fig. 1, where A B is the head, or part containing the wheel, which alternately raises and depresses the pistons C, D, in the barrels E, F. On the bottom, I K L stands the receiver M N. The piece for carrying off the air is marked O, and communicates with the perforated brass-piece on which the barrels stand, and from which they receive the air to be exhausted. P Q is a small receiver, under which is a basin of mercury R, with a tube hermetically sealed R S; the fall of the mercury in which tube, serves to indicate the degree of exhaustion. The stop-cock T is designed to let the air again into the receiver.

Air-shafts, among miners, are holes made from the open air to meet the adits, and supply them with fresh-air.

These, when the adits are long, or exceeding thirty or forty fathoms, become highly necessary, as well to give vent to the damp and noxious vapours, as to let in fresh air.

Air-threads, in natural history, a name given to the long filaments so frequently seen in autumn floating about in the air.

These threads are the work of spiders, especially the long-legged field-spider; which having mounted to the summit of a bush or tree, darts from its tail several of these threads, till at length it produces one capable of sustaining it in the air: on this it mounts in quest of prey, and frequently rises to considerable heights.

When a spider has thus raised itself, it does not descend always by the same thread; but winding that up, it darts out another, more or less long, as it is intended for a higher or lower flight.

Air-vessels, in plants, certain vessels, or ducts, for imbibing and conveying air to the several parts of a plant.

That all plants contain air is certain, but that they are furnished with distinct organs, answering to the tracheae and lungs of animals, has not been sufficiently proved. Even the ingenious Dr. Hales speaks doubtfully on this head, proposing his sentiments by way of question, whether the use of those spiral wreaths, coiled round the insides of the vessels supposed to convey the air, and manifest in the leaves of the vine and scabious, may not be to promote the quicker ascent of air, by conforming in some degree to its elastic contortions.

Airani, in church-history, a branch of arians, who besides the common dogma of that sect, denied the consubstantiality of the holy ghost, with the father and son.

Aire, in geography, the name of two towns of France, the one situated in the province of Gascony, about sixty-five miles south of Bourdeaux; and the other in Artois, about thirty miles S. E. of Calais.

Aire is also a sea-port town in Scotland, situated in W. longitude 4° 40′, and N. latitude 55° 30′, at the mouth of a river of the same name, which discharges itself into the frith of Clyde.

Aireshire, a county of Scotland, the capital of which is the town of Aire. It lies easterward of the mouth of the frith of Clyde.

Airring, a term peculiarly used for the exercising horses in the open air; the advantage of which to these noble and useful animals, no body will dispute. Their matters, in this, as well as in many other respects, are more mindful
of the health of these valuable creatures than of their own. It were well, if this neglect could be called a sacrifice to public or private business; but when no such cause can be assigned, would it not be highly commendable, as well as faltitary, for gentlemen to air themselves at the same time with their horses?

ARON, a river of France in the Nivernais.

ARONO, a town of Italy, in the dutchy of Milan.

AIRY, or AERY, among sportsmen, a term expressing the nest of a hawk or eagle.

AIRY TRIPUNCITY, among astrologers, denotes the three signs Gemini, Libra, and Aquarius.

AISE, in geography. See AISNE.

AISIAMENT, in botany, a plant.

AISNE, or AISE, a river of France, which rises on the frontiers of Lorraine, near Clermont, and falls into the Oise, a little below Soissons.

AJTOZIU, a considerable river of lesser Asia, which, arising in the mountain Taurus, falls into the south part of the Euxine sea.

AJUGA, in botany, the name used by Linneus for a genus of plants, called by Tournefort bugula. See BUGULA.

AJURU-CATINGA, in ornithology, the name of a species of parrot, common in the East Indies, of the size of a pullet, and all over of a bright green colour; only that its eyes are red, and surrounded by a white circle, its beak and legs being likewise white.

AJURU-CURAU, in ornithology, the name of two different species of parrot, variegated with blue, green, yellow, red, and black in an agreeable manner.

AJURU-PARA, is another species of parrot, not unlike the ajuru-cATINGA; only that it is smaller.

AJUSTING, or ADJUSTING, among ecclesiastical writers, the name with accommodation. See ACCOMMODATION.

AJUTAGE, or ADJUTAGE, a kind of tube fitted to the mouth of the vespiary, through which the water of a fountain is to be played.

To the different forms and structure of adjutages, is owing the great variety of fountains. See FOUNTAIN.

AIX, in geography, the name of several places, viz. of a large city of France, the capital of Provence; of a small town of Savoy, about eight miles north of Chambery; of an island on the coast of Gascony, between that of Oleron and the main-land; and of a village of Champagne, situated in the generality of Chalons.

AIX-LA-CHAPELLE, otherwise called Aach, Ach and Aken, an imperial city of Germany, in the dutchy of Juliers. It is large and populous; being much resorted to by foreigners as well as by Germans, on account of its hot baths.

AILSOON, in botany, a name used by some writers for the Sedum major, or common house-leek. See Sedum.

AKISSAR, or AK-HISSAR, a town of lesser Asia, situated upon the river Hermus.

AKOND, in the perisan affairs, the chief judge in all cases of contracts and other civil affairs. He is at the head of the lawyers, and has his deputies in all courts of the kingdom.

AKROZIM, a town of Poland, with a castle of considerable strength, situated in the patinate of Massovia.

AKSTADT, in geography. See Aichstat.

AL, an arabic particle prefixed to words, and signifying much the same with the english particle the; thus they say ak-kermes, al-koran, &c. i.e. the kermes, the koran, &c.

AL, or ALD, a faxon term frequently prefixed to the names of places, denoting their antiquity, as Aldborough, Aldgate, &c.

ALA, a latin term, properly signifying a wing; from a resemblance to which, several other things are called by the same name; thus,

ALLE, in anatomy, is sometimes used for the lobes of the liver, the nymphae of the female pudendum, the two cartilages which form thenoftril, the arm-pits, young items or branches, &c.

ALA, in botany, is used in different senses; sometimes it denotes the hollow between the flalk of a plant, and the leaves; sometimes it is applied to the two side petals of the papilionaceous flowers, the upper petal being called the vexillum, and the lower one the carina; others use it for the slender membranaceous parts of some seeds, thence called alated; and others, again, for the membranaceous expansions, found on the items of plants, thence denominated alated stalks.
ALA, among ancient botanists, a name given to the *helium*, or *elecampane* of the moderns. See the article *HELLENIUM*.

ALE, in the roman art of war, were the two wings, or extreme parts of the army, drawn up in order of battle.

ALABA, in geography, the name of a kingdom of *Africa*, dependent on the empire of Abyssinia, or Ethiopia, the capital of which is called by the same name.

ALABA is sometimes also used for Alava. See the article *ALAVA*.

ALABASTER, *alabaftrites*, in natural history, the name of a genus of fossils, nearly allied to the marbles; being elegant stones of great brightness, but brittle, and not giving fire with itself; they ferment with acids, and readily calcine in the fire.

Naturalists enumerate three species of alabaster: 1. A white kind, called *lysidium marmor*, by the ancients. 2. A yellowish white kind, called by the ancients *thergitae*. 3. A yellow and reddish kind, called simply *alabaster* by the ancients.

The last kind, or alabaster of the ancients, which is still found in Egypt, and even in Cornwall, is an extremely beautiful stone; being elegantly variegated with veins of a pale reddish, whitish, or brown colour, upon a clear, pale, yellow ground, from whence it was sometimes called *oxyx*, and *onychites*.

The alabasters are much used by *statuaries*, for small statues, vases, and columns; as they cut smoothly, and take a beautiful polish. Sometimes they are employed like platter of Paris, after being first calcined to a fine powder. This they mix up with water to a thick consistence, casting it in a mould, where it readily coagulates into a firm body.

ALABASTER, in antiquity, a term not only used for a box of precious ointment, but also for a liquid measure, containing ten ounces of wine, or nine of oil. Some will have the alabaster-box, mentioned in the gospels, to have been of glass, and to have been called alabaster from its holding the measure expressed by that name.

ALABA, in botany, a name given by the ancients to the cup of flowers, particularly to the rose, before it is expanded.

ALABASTRITES, in natural history. See the article *ALABASTER*.

ALABASTRUM *dentroide*, the name of a species of laminated alabaster, beauti-
ALANTEJO, in geography. See the article ALANTEJO.

ALAPOULI, in botany, the name of a species of bilimbii. See BILIMBI.

ALACHECA, in the materia medica, a stone, brought in small glossy fragments, from the East-Indies, said to stop hemorrhages by external application.

ALARAF, among mahometans, ALARES, in Roman antiquity, ALAVA, or ALABA, ALARM, ALARM, in the military art, ALARM-POST or ALARM-PLACE, given or made up of several pinnated ones, as in the orbic. See PINNATED.

ALTERNUS, in botany, the name of a distinct genus of plants, according to Tournefort; but comprehended by Linneas among the rhamnites. Its flower consists of one funnel-like leaf, divided into four deep segments; and the fruit is a berry, containing for the most part three seeds, globose on one side, and angular on the other. See plate XI. fig. 2.

ALATRI, or ALATRO, a town of Italy, in the Campagna di Roma, situated near the frontiers of Naples.

ALAVA, or ALABA, in geography, a territory of Spain, being the south-east division of the province of Biscay.

ALAUDA, the LARK, in ornithology, a distinct genus of birds of the order of the passerines, the characters of which are these: the tongue, which is membranaceous and pointed, has a rim or margin round it; the beak is strait, and pointed; the two chaps equal in size; and the claw of the hinder toe longer than any of the other toes. See the article LARK.

ALAUDA MARINA, a name sometimes used for the bird, called in English the shelduck. See the article STINT.

ALAUDA, in ichthyology, the name by which some writers call several species of blennius, particularly the mulgranoc. See plate XI. fig. 1.

ALAUSSA, in ichthyology, a name by which some call a fish of the clupea-kind, and known in English by that of shad. See the article CLUPEA.

ALAUTA, a considerable river of Turky in Europe, which, after watering the north-east part of Transylvania and part of Wallachia, falls into the Danube almost opposite to Nicopolis.

ALAWAY, in geography. See the article ALOWAY.

ALB, or ALBE, alba, in the romanish church, a vesture of white linen, hanging down to their feet, and answering to the surplice of our clergy. In the antient church, it was usual with those newly baptized, to wear an alb, or white vesture; and hence the funday after Easter was called dominica in albis, on account of the als worn by those baptized on Easter-day. See the article BAPTISM.
ALB is also the name of a Turkish coin, otherwise called aper. See the article Asper.

ALBA, in geography. See Albay.

ALBA firna, or ALBUM, in our old customs, denoted rent paid in silver, and not in corn, which was called black-mail.

ALBA terra, one of the many names by which alchemists call the philosopher's stone, said to be compounded of mercury and sulphur.

ALBAHURIM, ALBARAZIN, ALBA, ALBANI, in ALBANO, ALBANIA, ALBANENSES, in Rome, situated on the east side of the Gulf of Venice.

ALBANO, a town of Italy, in the Campagna di Roma, about twelve miles south-east of Rome. E. lon. 13°, N. lat. 41° 40'.

ALBANS, or St. ALBANS, a town of Hertfordshire, situated about twenty miles north-west of London. It returns two members to parliament, and gives the title of duke to the noble family of Beauforts; north latitude 51° 40'.

ALBANUM, a term used by some chemists for a salt of urine.

ALBANY, a town of North America, in the province of New York, situated on Hudson's river, in 42° of west longitude, and 43° north latitude.

ALBARI, or ALBORA, among ancient physicians, a malignant kind of itch, approaching to the leprosy. See the articles Itch and Leprosy.

ALBARRAZIN, a town of Spain, in the kingdom of Aragon, situated upon the river Guadalavir, about one hundred and ten miles east of Madrid.

ALBARDEOLA, in ornithology, a name frequently used for the platea, or spoon-bill. See the article Platea.

ALBARIUM opus, in Roman antiquity, a kind of plaster, made of mere lime, used for covering the ceilings of houses.

ALBATI equi, an appellation given to such horses, in the games of the antient circus, as wore white furniture, in contradistinction from the veneti, praeiti, and ruffei. See the articles Veneti, Præśni, &c.

ALBAZIN, a town of Greater Tartary, with a strong castle; it is situated upon the river Amur, or Yamour, in 54° of north latitude, and belongs to the Mufcovites.

ALBE, a small piece of money, current in Germany, worth only a French sol and seven deniers.

ALBEUS, in ornithology, the name used by Albertus, for a species of mergus. See the article Mergus.

ALBEMARLE, a town of France, in the province of Normandy, from whence the noble family of Keppel takes the title of Earl. E. long. 2°, N. lat. 49° 45'.

ALBEMARLE is also the name of the most northerly district of North Carolina. See Carolina.

ALBENGA, a sea-port town of Italy, situated on the Mediterranean, about fifteen miles north-east of Genoa.

ALBERTUS, a gold coin, worth about fourteen French livres; it was coined during the administration of Albertus archbishop of Austria.

ALBESIA, in antiquity, a kind of shields, otherwise called decumana. See the article Decumana.

ALBI, in geography. See Albay.

ALBIAN, a name given to the albigenses. See the article Albigenses.

ALBICILLA, in ornithology, a name sometimes used for the bird, called by the generality of authors Pygargus. See the article Pygargus.

ALBIGENSES, in church-history, a sect of Christians, which appeared in the XIth and XIIth centuries. They are ranked among the grosser of heretics, the Manichæans, by Roman Catholics; from which charge protestants generally acquit them, though with some limitation. See the article Manicheans.

At the time of the reformation, those of the albigenses who remained, embraced Calvinism. See Calvinists.

ALBIGENSES is also a name sometimes, though improperly, used for a sect, more usually known by that of Waldenses. See the article Waldenses.

ALBIGEOIS, a small district of France, in the higher Languedoc, containing the dioceses of Albi and Caffres.

ALBII, in church history, the same with Albigenses. See Albigenses.

ALBINOs, the name by which the Portuguese call the white Moors, who are looked upon by the negroes as monsters. They
They are the issue of a black man and black woman, and at a distance might be
taken for Europeans; but when you come near them, their white colour ap-
pears like that of persons affected with a
leprosy.

**ALBION**, the antient name of Britain.

See the article **BRITAIN**.

**New Albion**, a name given by Sir Fran-
cis Drake to California. See the article **CALIFORNIA**.

**ALBITROSSE**, in ornithology, a bird of
prey frequent in Jamaica, but not reduced
to any certain genus.

**ALBLASSERWAERT**, a district of south
Holland, lying eastward of Dort, be-
tween the rivers Meuse and Leck.

**ALBOGALERUS**, in roman antiquity, a
white cap worn by the *flamen dialis*, on
the top of which was an ornament of the
olive branches.

**ALBONA, ALBON, or ALBONA, a
river of Italy, in the duchy of Milan,
which waters the Novarese and district of
Laumello.

**ALBORAK**, among the mahometan
writers, the beast on which Mahoma rode,
in his journeys to heaven.

**ALBORAN**, a small island of Africa, lying
on the coast of the kingdom of Fez.

**ALBOURG, or ALBOURG**, a sea-port town
of north Jutland, in the kingdom of
Denmark.

**ALBRET, or ALBRET, a small town of
France, in the province of Gascony,
about thirty-five miles south of Bour-
deuax.

**ALBUS, in botany, a name by which
some call the white asphodel. See the
article **ASPHODEL**.

**ALBUGINEA, tunica**, in anatomy, the
third or innermost coat of the teftilces, so
called from its white colour.

**ALBUGINEA** is also a name sometimes
given to one of the coats of the eye, other-
wise called *adnata*. See **ADNATA**.

**ALBUGINEUS**, an appellation given by
some to the aqueous humour of the eye.
See the article **EYE**.

**ALBUGO, among physicians, denotes a
difter of the eye, caused by a white,
dense, and opaque spot growing upon the
tunica cornea, and obstructing the sight.
It is otherwise called *leucoma*. See the
article **LEUCOMA**.

**ALBULA, in ichthyology, a name given by
different authors to very different fis-
es; particularly to the *cyprinus* with
twenty bones in the belly-fin, and to se-
veral species of *coregonus*. See the articles
**CYPRINUS** and **COREGONUS**.

The *albula nobilis*, or *coregonus* with
fourteen rays in the back-fin, is repre-
sented in plate XI. fig. 4.

**ALBULA indica**, a small scaly fish with a
thick head, caught in the East-Indies,
and called by the Dutch *ruit-fish*; in shape
it greatly resembles a herring.

**ALBUM, in antiquity, a kind of table,
or registre, wherein the names of certain
magistrates, public transactions, &c. were
entered. Of these there were various sorts,
as the *album fenatorum*, *album judicum*,
*album pretorius*, &c.

**ALBUM, in natural history, is sometimes
used for the white of an egg, more usu-
ally called *albumen*. See **ALBUMEN**.

**ALBUM** is also used for white lead, or ce-
rus. See the article **CEIUS**.

**ALBUM griseum**, among physicians, denotes
the white dung of dogs, said to be good
for inflammations of the throat; but little
regarded at present.

**ALBUM nigrum**, a term sometimes used for
mice-dung.

**ALBUM oculi**, the white of the eye; other-
wise called *albuginea and adnata*.

**ALBUMEN**, the term used by medical
writers for the white of an egg. See the
article **EGG**.

The *albumina, or whites of eggs, are,
on account of their agglutinating and
cooling quality, used in collyriums for
the eyes; also for burns, and in some mix-
tures with bile armoniac for fresh wounds.
Boiled with any liquor, they serve to cla-
riify it; for being thereby hardened, they
carry off with them the gross and feulent
parts.

**ALBUQUERQUE**, a city of Spain, in the
kingdom of Leon and province of Eltre-
madura, situated on the frontier of Por-
tugal. W. long. 7°; N. lat. 39°.

**ALBURG**. See the article **ALBOURG**.

**ALBURN, the english name of a compound
colour, being a mixture of white and red,
or reddish brown.**

**ALBURNUM, among ancient naturalists,
denoted the fistest part of the wood of a
tree, or that next the bark, answering to
what in English is called the blea. See the
article **BLEA**.

**ALBURNUS, ichthyology, a name fre-
quently used for a species of *cyprinus*,
called in English the bleak. See the article
**CYPRINUS**.

**ALBURNUS lacustris**, the name of another
species of *cyprinus*, otherwise called *ba-
lerus*. See the article **CYPRINUS**.

**ALBUS pilosis**, a name sometimes used for
a species of *cyprinus*, called in English the
chub. See the article **CYPRINUS**.

ALBY,
ALBY, or ALBI, a city of France, in the province of Languedoc, situated in 40° east longitude, and 45° 50' north lat.

ALCA, or ALKA. See ALCA.

ALCALA, or ALCAICS, e.g., in Portugal, in the province of Languedoc, and in the province of Andalucia, about forty-five miles south of Lisbon. W. long. 9°, N. lat. 38° 30'.

ALCAICs, in ancient poetry, a denomination given to several kinds of verse, from their inventor Alcaeus. The first kind consists of five feet, viz.: 1. a spondee or iambic; 2. an iambic; 3. a long syllable; 4. a dactyl; 5. a dactyl: such is the following verse of Horace:

Omnes [eo, dem] cogitans, omnium
Verfatur urrua, &c.

The second kind consists of two dactyls, and two trochees: such is

Ex ilium impolitura symbe.

Besides these two, which are called dactyllic alcaics, there is another termed simply alcaic, and consisting of: 1. an epitrite; 2. a coriambus; 3. a coriambus; 4. a bacchins; thus:

Cur timet flatum Tiberim tangere, cur olivam?

ALCAIC ode, a kind of manly ode, composed of several strophes, each consisting of four verses; the two first of which are always alcaics of the first kind; the third verse is an iambic dimeter hyperpataletic, that is, it consists of four feet and a long syllable; and the fourth verse is an alcaic of the second kind; such is the following strophe of Horace, who calls this kind of poetry minaces Alcaei camen:

Non possestem multa vocari
Retulit beatum; reliquis occupat
Nomem beatum, qui iugurum
Muneribus satpienter sui, &c.

Lib. IV. Od. ix. ver. 45.

ALCACAR, in geography. See the article ALCAZAR.

ALCAID, ACLAYDE, or ALCALDE, in the polity of the Moors, Spaniards, and Portuguese, a magistrat, or officer of justice, answering nearly to the French provost, and the British justice of peace. The alcaid, among the Moors, is vested with supreme jurisdiction, both in civil and criminal cases.

ALCALA de Gualadaira, a town of Spain, in the province of Andalucia, about six miles south of Seville.

ALCALA de Henares, a town of Spain, in the province of New Castile, about sixteen miles east of Madrid.

ALCALA de Real, a city of Spain, in the province of Andalucia, about fifteen miles north-west of the city of Granada.

ALCALY, or ALKALY, in chemistry, &c. See the article ALKALY.

ALCANITZ, a small town of Spain, in the kingdom of Aragon, situated on the river Guadalope.

ALCANA, in commerce, a powder prepared from the leaves of the Egyptian privet, in which the people of Cairo drive a considerable trade. It is much used by the Turkish women, to give a golden colour to their nails and hair. In dying, it gives a yellow colour, when steeped with common water; and a red one, when infused in vinegar. There is also an oil extracted from the berries of alcanna, and used in medicine as a calmer.

ALCANA is also a name sometimes used for lingulfa, or ichtyocolla. See the article ICHTHYOCELLA.

ALCANTARA, a city of Spain, in the province of Estremadura, on the frontiers of Portugal. W. lon. 7°, N. lat. 39° 10'.

Knights of ALCANTARA, a military order of Spain, which took its name from the abovementioned city.

The knights of Alcantara make a very considerable figure in the history of the expeditions against the Moors.

ALCARAZ, a town of Spain, in the province of New Castile, situated on the river Guadarema. W. lon. 3°, N. lat. 38° 3'.

ALCAZAR de Sal, a small town of Portugal, in the province of Estremadura, near the confines of that of Alentejo.

ALCE, the elk, in zoology. See the article ELK.

ALCEA, VERVAIN-MALLOW, in botany, the name of a distinct genus of plants, the characters of which are the same with those of the malva, or mallow, except that the leaves of the alcea are more deeply divided. It belongs to the monadelphus class of Linnaeus. See plate XII. fig. 1.

The medicinal virtues of alceas are said to be much the same with those of mallow, only in a lesser degree. See the article MALVA.

ALCEA vesicaria, the bladder-alcea, a name sometimes used for a species of ketmia. See the article KETMIA.

ALCEDO vocalis, a name by which several writers call the reed-sparrow, or junco. See the article JUNCO.

ALCHEMILLA, in botany, the same with alcumilla. See ALCHEMILLA.

ALCHEMIST and ALCHEMY. See the articles ALCHEMIST and ALCHEMY.

ALCHIMILLA, LADIES-MANTLE, in botany, a genus of plants, the flower of which is spatulous, being composed of four flat...
ALC [88] ALC

minera, arising out of a funnel-fashioned cup, divided into several segments at the edge; this cup finally becomes a capsule, containing one or more feeds.

The alcheimists belong to the tetrarquia monoquia class of Linneus, and are esteemed powerful vulneraries and incraftants; they are likewise said to have considerable efficacy in stopping the floodings of the menesex and flor albus; and some apply them externally in a poëma pulmonum.

ALCHIMY, the fame with alchemy. See the article ALCHIMY.

ALCHITRAM, or ALCHITRAN, a term used by alchemists, sometimes for oil of juniper, sometimes for liquid pitch, and sometimes for arsenic prepared by ablation.

ALCHYMIST, or ALCHEMIST, a person who professes or deals much in alchemy. See the next article.

ALCHYMY, or ALCHEMY, denotes the higher or more secret parts of chemistry. See the article CHEMISTRY.

The principal objects of alchemy are these.
1. The making of gold.
2. An universal medicine, or panacea.
3. An universal dissolvent, or alkahest.
And, 4. An universal ferment.

See the articles PANACEA, ELIXIR, and ALKAHEST.

As to the making of gold, it has been attempted three different ways, by separation, by maturation, and by transmutation; which last they pretend to effect by means of the philosopher's stone. See the article PHILOSOPHER'S STONE.

Kircher tells us, that the ancient Egyptians were great adepts in alchemy; but that they had no need to transmute the base metals into gold, as having ways to separate it from all kinds of bodies, even the mud of the Nile.

Be this as it will, modern alchemists, who pretend to transmute metals into gold, are a set of arrant cheats: they put into a crucible the metal to be changed into gold; then set it on the fire, blow, and stir it with rods; and, after a great deal of tarce, gold is at length found in the bottom of the crucible, instead of the matter put in. But this there are several ways of effecting, without a transmutation of one metal into another; sometimes it is done by secretly dropping in a piece of gold; sometimes by casting in some gold-dust under the appearance of some elixir, or the like; sometimes a crucible is used with a double bottom, and gold concealed between them; sometimes the rod, employed to stir the metal, is pullow, and filled with gold-dust; and at other times some gold-dust is mixed with the charcoal, the ashes of the furnace, and the like. By so many ways do these charlatans impose upon mankind, who are nevertheless so excessively credulous as to believe them.

ALCHEMY is also sometimes, though in a lea's proper sense, used for common chemistry. See the article CHEMISTRY.

ALCIBIADUM, or ALCIBIADUM, in botany, a name used by the antients for a species of echium, or viper's-bugloss.

ALCMAER, a town of north Holland, remarkable for the fine pastures in its neighbourhood, and the great quantities of butter and cheese made there.

ALCMANIAN, in ancient lyric poetry, a kind of verse consisting of two dactyls and two trochees, as "Virginius puellus vigileque canto.

ALCOA ARBOR, the name of a tree found in St. Helena, the wood of which emulates ebony; but it is not known to what genus it belongs.

ALCOBACA, a small town of Portugal, in the province of Estremadura: it is defended by a very strong castle; but what makes it most remarkable, is the abbey of St. Bennet, which is the burying-place of most of the kings of Portugal.

ALCOHOL, or ALKOHOL, in chemistry, denotes spirit of wine rectified by repeated distillations, till it has acquired the utmost subtlety and perfection of which it is capable. See the article SPIRIT.

Pure alcohol is the lightest of all fluids next to air; it is extremely thin, pelucid, and simple; it is wholly inflammable, leaving no phlegm or feces behind. It is a great refifter of putrefaction, and therefore used to preserve various animals, which being suspended in it, will continue entire for many ages.

ALCOHOL is also used for any highly rectified spirit. See the article SPIRIT.

ALCOHOL also denotes a very fine impalpable powder.

ALCOHOLIZATION, among chemists, the process of rectifying any spirit, or reducing it to a perfect alcohol.

ALCOHOLIZATION is sometimes used in a synonymous sense with pulverization. See the article PULVERIZATION.

ALCOLA, a term used by alchemists for the tartar of urine, which is found either resolved in form of an impalpable powder, in small grains of a whith or reddish sand, or mucilaginous and viscid.

ALCORAN, or ALKORAN, the name of a book held equally sacred among the mahometans.
The word **alcoran** properly signifies reading; a title given it by way of eminence, just as we call the old and new testament scriptures.

That Mahomet was the author of the alcoran is allowed both by Christians and the mahometans themselves; only the latter are fully persuaded that it was revealed to him by the ministry of the angel Gabriel; whereas the former, with more reason, think it all his own invention, affixed by one Sergius a christian monk.

As to the book itself, as it now stands, it is divided into a hundred and fourteen *furas* or chapters, which are again divided into smaller portions or verses. But besides these divisions, mahometan writers farther divide it into sixty equal portions, called *bich* or *hazah*, each of which they subdivide into four parts.

So numerous are the commentaries on the alcoran, that a catalogue of their bare titles would make a volume; we have a very elegant translation of it into English by Mr. Sale; who has added a preliminary discourse, with other occasional notes, which the curious may consult on this head.

**Alcoran** is also used, in a more limited sense, for a part or chapter of the alcoran.

**Alcoran**, in a figurative sense, is an appellation given to any books full of impostures, or impiety.

**Alcoran**, among the Persians, is also used for a narrow kind of steeple, with two or three galleries, where the priests, called moravites, say prayers with a loud voice.

**Alcoranists**, among the mahometans, an appellation given to those who adhere closely to the alcoran, as the ultimate rule of faith: such are the Persians, in contradistinction from the Turks, Arabs, &c. who admit a multitude of traditions besides the alcoran.

**Alcost**, or **Alecost**, in botany, a name sometimes given to a species of tansy, more usually called coltsfoot.

**Alcove**, among builders, a recess or part of a chamber, separated by an efrade or partition of columns and other corresponding ornaments; in which is placed a bed of state, and sometimes seats to entertain company.

These alcoves are frequent in Spain, and the bed raised two or three ascents, with a rail at the feet.
A L D E R M A N, in the British policy, a magistrat subordinate to the lord-mayor of a city, or town-corporate. The number of these magistrates is not limited, but more or less according to the magnitude of the place. In London, they are twenty-six; each having one of the wards of the city committed to his care. Their office is for life; so that when one of them dies, or resigns, a ward-mote is called, who return two persons, one of whom the lord-mayor and aldermen choose to supply the vacancy. By the charter of the city of London, all the Aldermen who have been lord-mayors, together with the three eldest ones not arrived at that dignity, are justices of the peace.

A L D E R M A N, among our Saxon ancestors, was a degree of nobility, answering to earl or count at present.

A L D E R M A N was also used, in the time of king Edgar, for a judge or justice; in which sense Alwine is called aldermannus totius Angliae.

A L D E R N E Y, or AURIGNI, an island on the coast of Normandy, subject to the crown of Great Britain.

A L D I I, an appellation given to those servants who attended their masters to the wars.

A L E, a fermented liquor, obtained from an infusion of malt, and differing only from beer by having a less proportion of hops. See Beer and Brewing.

Ale is thought to be the same kind of liquor with the cervisia, zythum, and curmi of the ancients.

There are several sorts of ale, some prepared one way, some another. Pale ale is brewed of malt highly dried, and is esteemed more valid than brown ale, which is made of malt more highly dried or roasted.

The annual consumption of ale, or malt-liquors, in the British dominions, is very great; some making it amount to four millions sterling.

Medicatid Ales, those wherein medicinal herbs have been infused, or put to ferment: such are the cervisia cephalica, cervisia epileptica, &c.

Gill-ale, or that prepared by infusing the dried leaves of ground-ivy, is esteemed absterfive and vulnerary; and therefore good in disorders of the breath and obstructions of the viceria.

A L E-B E R R Y, the popular name for ale that is boiled with bread and mace, sweetened, strained, and drank hot.

A L E- CO N N O R, an officer in London, who inspects the measures of public houses. They are four in number, and chosen by the common-hall of the city.

A L E- S I L V E R, a tax paid yearly to the lord-mayor, by all who sell ale within the city.

A L E- M E A S U R E. See Measure.

A L E A, in Roman antiquity, denotes in general all manner of games of chance; but in a more restricted sense, was used for a particular game played with dice and tables not unlike our Back-gammon. See the article Back-gammon.

A L E A T O R I U M, a place in the ancient gymnasia, where they played at the ales.

A L E C, in ichthyology, a name given by Gaza to a species of Sparus. See the article Sparus.

A L E C O S T, in botany. See Alcote.

A L E C T O R I A, in natural history, a stone found to be formed in the stomach, liver, or rather gall-bladder of old cock; to which old medical authors attribute a great many fabulous virtues.

A L E C T O R I C A R D I T E S, in natural history, the name by which Dr. Plot calls a stone resembling a pullet's heart.

A L E C T O R I U S lapis. See the article Alectorria.

A L E C T O R O M A N T I A, in ancient antiquity, a species of divination performed by means of a cock, in the following manner: A circle being described on the ground, and divided into twenty-four equal parts, in each of these spaces was written one of the letters of the alphabet, and on each of the letters was laid a grain of wheat; after which a cock being turned loose in the circle, particular notice was taken of the grains picked up by the cock, because the letters under them being formed into a word, made the answer desired.

A L E G A R, or A L E G E R, the name of a kind of vinegar, made of ale, instead of wine.

A L E G R E T T E, a town of Portugal in the province of Alentejo, situated on the river Caya. W. lon. 7°. 50'. N. lat. 39°.

A L E I P H A, among ancient physicians, a term used for all kinds of fatty bodies, including the oils of plants, as well as the fat of animals; but more especially for compositions of this kind, intended to anoint the body.

A L E M B I C, or L E M B I C, a chemical vessel, usually made of copper, being an oblong roundish body, terminating in a sloping tube, or rostrum, through which the condensed
ALE

condensed vapoors pass in distillation.

The alembic, properly speaking, is only the upper part of an apparatus used for distilling, but some less accurate writers often use it to denote the whole.

Alembics are either open, that is, where the head and curcubit make two separate parts; or blind, where the capital is sealed hermetically upon the curcubit. See the articles STILL and DISTILLATION.

ALEMBROTH, among alchymists, denotes a kind of fixed alkaline salt, nearly allied to halonitrum and alun, and put-taking of the nature of alkahest. See the article ALKAEHEST.

Some use the term alembroth desiccation, for salt of tarair. See the article TAR-TAR.

ALENCON, the name with Alzon See.

ALENGNER, a town of Portugal, in the province of Estremadura, about twenty-seven miles N. E. of Lisbon.

ALENON, among antient physicians, a term used for oil of sweet almonds.

ALENTOJO, a province of Portugal, lying southward of the Tagus.

ALENZON, a large city of Normandy, situated under the same meridian with London, in 48° 33'. N. latitude.

It is the capital of a duty of the same name.

ALEORE, among antient physicians, denoted an internisition of the intestines from the violent pain of acute diseases.

ALEPPO, a large city of Asia Minor, situated in E. longitude 37° 44'. and N. latitude 36° 30'.

It is an inland town, lying almost in the middle between the river Euphrates and the levant sea. The Christians who are allowed the free exercise of their religion, have their chapels and churches in the suburbs.

The beglerbeg of Aleppo commands the whole extent of country between the levant-sea and the Euphrates.

ALERION, or ALLERION, in heraldry. See the article ALLERION.

ALESSANO, a town of the kingdom of Naples, situated about twelve miles west of the city Otranto.

ALESSIO, a town of European Turkey, in the province of Albania, situated near the mouth of the river Drino.

ALET, or ALETH, a city of France, situated in the upper Languedoc at the foot of the Pyrenees, about 32 miles S. W. of Narbonne. E. lon. 2°. N. lat. 43° 10'.

ALEUROMANCY, aleuromancy, a species of divination performed by means of meal or flour.

ALEXANDERS, in botany, the English name of a distinct genus of plants, called by botanists alpynum. See SYMRINUM.

ALEXANDRETTA, in geography, the name with Scanderoon. See the article SCANDEROON.

ALEXANDRIA, a port-town of Egypt, situated in E. longitude 31° 15' and N. latitude 9° 30'. about fourteen miles westward of the most westerly branch of the river Nile.

ALEXANDRIA is also the name of a city of Italy, situated on the river Tanare, about forty-five miles N. W. of Genoa. E. longitude 3° 52'. N. latitude 44° 34'.

ALEXANDRIAN, or ALEXIRIN, in poetry, a kind of verse, consisting of twelve, or of twelve and thirteen syllables alternately; so called from a poem on the life of Alexander, written in this kind of verse by some French poet.

Alexandrians are peculiar to modern poetry, and seem well adapted to epic poems. They are sometimes used by most nations of Europe, but chiefly by the French; whose tragedies are generally composed in Alexandrians.

ALEXANDRINUM, the name of a drawing plaster described by Celsus, l. v. c. 19.

ALEXICACUS, alexicacus, among antient physicians, a term of much the same significance with alexiterial. See the article ALEXITERIAL.

ALEXICACUS was also a name under which the fishermen used to invoke Neptune, to preserve their nets from being torn to pieces by the sword-fish.

ALEXIPHARMIC, among physicians, an appellation given to such medicines as relish poison, and correct or expel the causes of malignant disorders.

Alexipharmics produce their effect chiefly by promoting perspiration, whereby the putrid particles are carried off; they are therefore nearly allied to the diaphoretics. See DIAPHORETICS.

Alexipharmics agitate and attenuate the humours, on which account they are improper in all cases where these are acrid or too thin; also in inflammatory disorders, unless administered with great caution. On the contrary, they are very serviceable in those diseases, which pro-

N 2
ALEXIPHARMIC, makes a large class of medicines, but the principal ones are these: 1. Of the animal kingdom, harthoom, bezoars, and the bones and teeth of different animals. 2. Of the vegetable kingdom, the leaves and flowers of all the aromatic plants, especially such as are umbelliferous. 3. Of the mineral kingdom, the different preparations of antimony, the dulcified spirit of vitriol with alcohol.

ALEXITHERIAL, among physicians, a term of much the same import with alexipharmac; though sometimes used in a fynonymous sense with amulet. See ALEXIPHARMIC and AMULET.

ALEXANDER, among the Moors, the name generally used for their clergy, or those who teach the mahometan religion, in opposition to the morabites, who answer to monks among christians.

ALFELD, a town of Germany in the bishopric of Hildesheim, and circle of lower Saxony, situated about ten miles S. of Hildesheim, in E. longitude 9° 50' and N. latitude 52°.

ALFET, in our old customs, denotes a cauldron full of boiling water, wherein an accutted person, by way of trial or purgation, plunged his arm up to the elbow.

ALGA, in botany, a genus of submarine plants, called in English, grass-wreck, and composed of long slender leaves or a dusky-green colour, very much resembling some kinds of grass. See plate XII. fig. 3.

Authors enumerate several species of alga, the most considerable of which is the alga-marina, so much used in the glass trade.

ALGAROT, or ALGARL, among chemists, an arabic term for an emetic powder, prepared from rhaguls of antimony dissolved in acids, and separated again by repeated lotions in lukewarm water. By evaporating two third parts of all these lotions, is obtained a very acid liquor, called spirit of philosophic nitre.

ALGARVA, the most southerly province of the kingdom of Portugal. See the article PORTUGAL.

ALGEBRA, a general method of computation by certain signs and symbols; or it is the method of resolving problems by means of equations. See EQUATION. Some call algebra specious, literal, or universal arithmetic. Others define it to be the art of resolution and equations. Cardan calls it very justly, ars magna, the great art.

From the Arabians, the Moors and Saracens brought this art into Spain; from whence it came into England, and that before we knew any thing of Diophantus, a greek writer who published a system of algebra about the year 800 of the christian era.

To the facility, conciseness, and great extent of the algebraical method of computation, may, in a great measure, the modern improvements in geometry and the other branches of mathematics be ascribed. It has, indeed, been accused of obscurity, but without reason; for as we have no ideas more clear or distinct than those of numbers, it frequently happens that more satisfactory knowledge is obtained from computations, than from constructions.

The obscurity complained of, has chiefly arisen from the use of the negative sign. See NEGATIVE.

NUMERAL ALGEBRA, that wherein all the given quantities are represented by numbers, and only the unknown quantity expressed by some letter or other symbol. This is otherwise called vulgar algebra, and was that used by the antients.

SPECIOUS OR LITERAL ALGEBRA, that wherein all the qualities, known as well as unknown, are expressed by letters of the alphabet.

This way of notation pleases the mind, affixes the imagination, and eases the memory: neither is it, like the numeral, limited to certain kinds of problems, but serves equally for the investigation and demonstration of all theorems and problems both arithmetical and geometrical.

In this art, the given quantities are generally marked with the first letters of the alphabet, a, b, c, d, &c. and the quantities sought are distinguished by the last letters z, y, x, &c. but Harriot and some others denote the unknown quantities by vowels, and the known by consonants.

We have a multiplicity of books on this subject; but those of Saunderson, Simpson, and Maclaurin are undoubtedly the best.

As to the several rules and operations of algebra, they will be treated of under their respective articles. See ADDITION, SUBTRACTION, &c.
ALGEBRAIC, or ALGEBRALCAL, denotes any thing belonging to algebra. Thus we say algebraical characters, algebraical curve, &c. See the articles Character, Curve, &c.

ALGENEB, a fixed star of the second magnitude, on the right shoulder of the constellation Perseus. See PERSEUS.

ALGHER, or ALGERI, a city on the north-west coast of the island of Sardinia. Situated in E. longitude 8° 40'. and N. latitude 41° 30'.

ALGIABARI, among the mahometans, the name of a sef of predetinarians. See Predestination.

ALGIER, or ALGERI, a kingdom of Africa, situated in E. longitude 4° 40'. and N. latitude 35° 30'.

ALGHER, or ALGERI, a city on the north-west coast of the island of Sardinia. Situated in E. longitude 8° 40'. and N. latitude 41° 30'.

ALGIABARI, among the mahometans, the name of a sect of predeterminists. See Predestination.

ALGIERS, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGHER, or ALGERI, a city on the north-west coast of the island of Sardinia. Situated in E. longitude 8° 40'. and N. latitude 41° 30'.

ALGIABARI, among the mahometans, the name of a sect of predeterminists. See Predestination.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.

ALGIER, or ALGERI, a kingdom of Africa, situated between 30° and 37° degrees of N. latitude; and between 5° W. and 9° E. longitude. It is bounded by the Mediterranean on the north, by the kingdom of Tunis on the east, by Mount Atlas on the south, and by the river Mulvia, which separates it from the empire of Morocco, on the west; extending 600 miles from east to west, along the barbary coast.

The Turks, who are masters of this kingdom, are but few in number in comparison of the Moors, or natives, who have no share in the government. The Arabs who live in tents are distinct from either. The day of Algiers is an absolute, though an elective monarch. He is chosen by the Turkish soldiers only, and is frequently deposed, or even put to death, by them.
ALIADÈ, the same with alhidade. See ALHIDADE.

ALIDES, among the mahometans, a designation given to the descendants of Ali; between whom and the Omnidades, there was a warm dispute about the kaliphate. See KALIPHATE.

ALJEMBUT, or GEMBUT, in botany, a name used by arabian writers for a species of acacia. See ACACIA.

ALIEN, in law, a person born in a strange country, not within the king's allegiance, in contradistinction from a denizen or natural subject.

An alien is incapable of inheriting lands in England, till naturalized by an act of parliament. No alien is entitled to vote in the choice of members of parliament, has a right to enjoy offices, or can be returned on any jury, unless where an alien is party in a cause; and then the inquest of jurors shall be one half denizens and the other aliens.

ALIEN-DUTY, an impost laid on all goods imported by aliens, over and above the customs paid for such goods imported by British, and on British bottoms. See DUTY.

ALIEN-PRIORIES, a kind of inferior monasteries, formerly very numerous in England, and so called from their belonging to foreign abbeys.

ALIENABLE, denotes something that may be alienated. See ALIENATION.

All estates are alienable; except those in tail and for life; a bond too, with condition not to alien, is said to be good.

ALIENATION, alienatio, in law, denotes the act of making over a man's property in lands, tenements, &c. to another person.

To alien or alienate in fee, is to sell or convey the fee-simple of lands, &c.

Alienation, in mortmain, is making over lands, tenements, &c. to a body politic, or to a religious house, for which the king's licence must first be obtained, otherwise the lands, &c. aliened will be forfeited. See the article MORTMAIN.

Alienation of crown lands is always supposed to be made under a faculty of perpetual redemption.

A perpetual copy-hold is also a kind of alienation.

ALIENATION, in roman antiquity, was used for a father's discarding a son in his own life-time. See ABJURATION.

ALIENATION-OFFICE is that to which are carried all writs of covenants and entry upon which fines are levied, in order to have fines for alienation set upon them.

ALIFORMIS, in anatomy, the name of a pair of muscles arising from the pterygoide bones, the proces of the os cuneiforme, with a beginning partly nervous, and partly fibrous, and ending in the neck of the lower jaw towards the internal seat of the head.

ALIFORMIS PROCESSUS, a name sometimes given to the prominences of the os cuneiforme. See CUNEIFORME OS.

ALIMA, in natural history, a kind of sand found in gold mines, of which they make lead.

ALIMENT, in a general sense, whatever contributes to the nourishment of a body, whether animal or vegetable.

ALIMENT, among physicians, whatever is capable of nourishing the human body. Aliment is either animal or vegetable, of an attenuating or incrustating nature; and with respect to the taste, is sweet, fat, acid, astringent, flatulent, bitter, and acrid. See DIET, FOOD, DIGESTION, and SANGUINIFICATION.

Aliment should always be of a lower nature than the body nourished; for too near an approximation or similarity of substance bewtixt the aliment and the body to be nourished, succeeds but badly.

ALIMENT is also sometimes used in a synonymous sense with alimony. See ALIMONY.

ALIMENTARY, in a general sense, a term applied to whatever belongs to aliment or food.

ALIMENTARY DUCT, a name by which some call the intestines, on account of the food's passing through them.

Morgan in his mechanical practice of physic, considers the alimentary duct as a great gland; the last deals being its secretory vesicles, and the intestines from the pylorus to the anus its vas expurgatorium.

Some make the alimentary duct to be the true characteristical of an animal. See the article ANIMAL.

ALIMENTARY DUCT is sometimes also used for the thoracic duct. See THORACIC.

ALIMENTARY CHILDREN, alimentarii pueri, in roman antiquity, an appellation given to those educated in houset, not unlike our hospitals, erected for that purpose. There were likewise alimentary girls, alimentaria puella, who owed their maintenance to the bounty of several emperors as the boys did theirs to that of the emperors.

ALIMENTARY LAW, among the same people, that whereby children were obliged to maintain their aged parents.
ALIMENTATION, a term used by some writers, particularly Lord Bacon, for what is commonly called nutrition. See Nutrition.

ALIMONY, alimonia, in law, denotes the maintenance sued for by a wife, in case of a separation from her husband, where-in she is neither chargeable with elopement nor adultery.

Antiently, this was recoverable only in aliquot parts given to the common liquorice, on account of its palling the appetite.

ALIMOS, alim, in botany, a name given to the common liquorice, on account of its palpating the appetite.

ALINDEIS, alides, among antient physicians, a kind of exercise, which consisted in a person’s rolling himself in the dust, after being first blemearcd with oil.

ALIOS-BATON, in ichthyology, the name by which Aristotle calls the rana peregrina. See Rana.

ALIPÆNOS, alaepen, among antient physicians, a term used to denote dry, topical medicines, without any admixture or fat.

ALIPIARUS, or ALIPLUS, in roman antiquity, a servant belonging to the baths, whose business it was by means of waxen platters and an instrument called vulfellum, to take off the hairs from the arm-pits, and even arms, legs, &c. this being deemed a point of cleanliness.

ALIFTA, in grecian antiquity, the name with iatralipta. See Iatralipta.

ALIPTERIUM, alipterion, in the antient gymnasia, the same with elicethium. See the article Eleothesium.

ALIPOW MONTIS CETI, a kind of white turbith found in Languedoc, particularly near Cetti, whence the modern botanists have given it its name: it is used instead of seina, but is a much stronger purgative.

ALIQUANT parts, in arithmetic, those which will not divide or measure the whole number exactly. Thus 7 is an aliquant part of 16, for twice 7 wants 2 of 16, and three times 7 exceeds 16 by 5.

ALIQUOT part, is such part of a number as will divide and measure it exactly without any remainder.---For instance, 2 is an aliquot part of 4, 3 of 9, and 4 of 16.

To find all the aliquot parts of a number, divide it by its least divisior, and the quotient by its least divisor, until you get a quotient not farther divisible, and you will have all the prime divisors or aliquot parts of that number. Thus 60 divided by 2, gives the quotient 30, which divided by 2 gives 15, and 15 divided by 3, gives the indivisible quotient 5. Hence the prime aliquot parts are 1, 2, 3, 5; and by multiplying any two or three of these together, you will find the compound aliquot parts, viz., 4, 6, 10, 12, 15, 20, 30.

Aliquant parts must not be confounded with commensurable ones; for though the former be all commensurable, yet these are not always aliquot parts; thus 4 is commensurable with 6, but is not an aliquot part of it. See the article Commensurable.

ALISE, or Alize, a small town of France in the district of Auxois.

ALISE, or Elise, is a small island in the irish sea, not far from the mull of Galloway.

ALISMA, in botany, a name by which some call the water-plantain. See Plantain.

ALITES, in roman antiquity, a designation given to such birds as afforded matter for auguries by their flight; in which sense, they are contradistinguished from those called ofines. See Oscines.

ALIZE, in geography. See Alise.

ALKA, in ornithology, a bird of the anseres, or goose-kind, about the size of a duck, and all over black except the breast and belly which are white: it is called in English the awk or razor-bill. See Plate XIII. fig. 1.

ALKAHEST, or Alcahest, among chemists, denotes an universal menstruum capable of resolving all bodies into their first matter, or ens primum; and that without suffering any change, or diminution of force by &c. doing.

Van Helmont affires us, in the most positive manner, that he himself was master of such a menstruum; concerning which many have been the opinions and hypotheses of chemists. Some have had sanguine expectations of finding an alkahest in sea-salt, and mercury; others from nitre; in short, there are few bodies, but some one or other has fixed on as the subject of his researches after this so much famed menstruum. But the most general opinion is, that it is to be obtained from human urine. We are told, that the matter of this dissolvent is both base and precious; that it cools nothing; that all men have it in their power; that Adam carried it with him when he went out of Paradise; that it
ALK [96] ALK

is concealed in the microcosm, and very powerful in the macrocosm; in short, that it is human urine.

Paracelsus ufed no synonymous terms for the alkaheft; but Helmont calls it ignis aqua, ignis gebennae, and fummum et felicitatem omnium fatum. He adds, that it was no natural production, but solely to be obtained by art.

Alkaheft, according to Starkey, is composed of three principles; a volatile urinous falt; an intermediate spirit, or essential oil of urine; and an acid nowife corrosive, which is nothing but the vininous spirit of urine. When the oily spirit has coagulated the falt, both are to be divided by the vinous spirit, which will likewise unite with them by fermentation. This operation is to be repeated, till the whole becomes an entirely fiery and spiritual effence, or what is the fame thing, a falt without phlegm.

Various other processes are delivered, by different authors, for obtaining an alkaheft; which, it is said, will tranform the ftones, gems, metals, and in general, all bodies whatever, whether belonging to the animal, vegetable, or mineral kingdom, into an actual falt, equal in quantity to their whole bulk.

It is an obervation of Boerhaave, that nothing in all nature is more surprizing than the change of bodies attributed to the action of this menstruum; inasmuch as they are changed into a quite different matter, without losing any of their virtues or weight in the operation. By means of alkaheft, the most solid bodies, not excepting gold and gems, are faid to be changed into a saline volatile fubftance, which contains all their virtues, and is capable of mixing with animal fluids. In this state they become potable, in the true fenfe of the word; for what the chemifts mean by potable gold, is only gold reduced to a faltine and soluble fubftance, capable of circulating through all the veffels of the human body.

Another equally surprizing property of alkaheft, is its being able to diflolve all thefe bodies, without mixing with, or suffering any change from them; fo that it must produce its effects, by only acting externally upon the fubjedt:

After all, many great chemifts have doubted whether it be poffible to obtain fuch an universal menstruum, as the alkaheft is reprefented to be. Thofe who defire a more particular account of the alkaheft, may consult Boerhaave's

elements of chemistry; alo Starkey, Pelletrier, Juncker, Baldwin, &c. who have all treated of this fubjedt.

Alkaheft is oftern times alfo used for all fixed fafts, volatilized; in which fene, it differs widely from the universal solvent. See Sal Circulatum.

Alkahestic, a term fometimes applied to all powerful menstruums, as being fuppofed to partake of the alkaheft.

ALKALI, among chemifts and phyficians, an appellation given to all fubftances which excite a fermentation when mixed with acids.

Originally, the term alkali signified only the falt extracted from the ashes of kali or glafs-wort; afterwards, it was used for the falts of all plants, extracted in the fame manner; and as these were obferved to ferment with acids, the signification of the term was still farther extended, fo as to comprehend whatever fubftances had this effect.

Alkalies, or alkaline fubftances, are therefore of various and widely different kinds. Some are earthly, as quick-lime, marble, and falted earths; others mettaline, as gold, filver, tin, &c. others of animal origin, as fheffs, bezoars, the calculus humanus, &c. and, laftly, all the ftones and submarine plants, as coral. Alkalies are either fixed, as falt of tartar, and oil of tartar per deliquium; or volatile, as spirit of hartthorn. The fixed may be diftinguifhed from the volatile, as the former will give a red orange colour to a folution of quick-flver by the spirit of nitre; whereas the latter gives to this folution a white milky-colour. But every alkaline fubftance, whether fixed or volatile, being mixed with the juices of tumulfs, roifes, or violets, prefently changes their natural colours to a green. It must be obferved, that no vegetables can afford an alkaline falt without the action of fire, on the contrary, if suffered to dry or rot fponaneously, they vanifh or change their form, without leaving the leaft fixed alkali behind. Hence we may conclude, that fixed alkaline fafts have their nature imparted to them by fire, and not by any natural vegetable operation.

There is, however, a natural fixed alkali of the mineral kind, namely natrum, which is more common than is generally imagined, and is often found in mineral waters. Of the feveral kinds of fixed alkalies, the moft common is that called by the name of pot-alkali.

The
ALKALINE, in general, a term applied to all such things as have the properties of an alkali. See ALKALI.

ALKALIZATION, among chemists and physicians, denotes the impregnating a liquor with alkaline salts.

ALKALY, the name with alkali. See the article ALKALI.

ALKANET, in botany, the English name of a distinct genus of plants, called by botanists, anchnura. See ANCHUSA.

ALKEBLA, or ALKIBLA, the name with kebla. See the article KEBLA.

ALKENGi, WINTER-CHERRY, in botany, the name of a distinct genus of plants, the flower of which consists of one leaf, of a rotated form, and divided into several segments. This is succeeded by a soft fruit, resembling a cherry in shape, and containing a number of flat seeds. See plate XIII. fig. 2. This genus is called by Linnaeus, phyllis, and makes one of the pentandria monogyina class of the same author.

ALKERMES, in pharmacy, a compound cordial medicine, of the form and consistence of a confection. It is made of various ingredients, as rose-water, sugar, cinna- mon, aloes-wood, &c. but the principal one is kermes. See KERMES.

ALKIN, a city in Arabia felix, seven days journey south from Mecca.

ALKOOL, the fame with alcohol. See the article ALCOHOL.

ALKORAN. See the article ALCORAN.

ALKY of lead, a name used by some alchemists for a sweet sub stance obtained from lead.

ALL-HALLOWS, the fame with all- saints. See the next article.

ALL-SAINTS, a festival observed by most denominations of christians, in commemoration of all the faithful deceased. It is kept on the first of November.

ALL-SAINTS BAY, or BAIHA DE TODOS FANDOS, a spacious harbour near St. Salvador in Brazil, in south America, on the atlantic ocean, W. longitude 40°. S. latitude 12°.

ALL-SOULS, a festival kept in commemoration of all the faithful deceased, on the second of November.

ALLA, or ALLAH, the name by which all the professors of mahometanism call God. The term alla is arabic, derived from the verb alah, to adore. It is the name with the hebrew eloah, which signifies the adorable being. See ADORATION.

ALLANTOIS, or ALLANTOIDS, in comparative anatomy, a vehicle investing the foetus of several animals, as cows, sheep, goats, &c. and filled with an urinous liquor conveyed thither from the urachus. The word allantois is derived from alata, a gut, and ato, shape. As to the existence of the allantois in the human species, anatomists are by no means agreed; some contending for it, and others denying it.

ALLAY, the name with alloy. See ALLOY.

ALLEGATION, in a law sense, in matters of literature, is the quoting an author in regard to the subject in hand.

ALLEGIANC, in law, denotes the obedience which every subject owes to his lawful sovereign.
Oath of Allegiance, in the British policy, that taken in acknowledgment of the king, as a temporal prince; as the oath of supremacy acknowledges him for the supreme head of the church.

ALLEGORICAL, a term applied to whatever belongs to, or partakes of the nature of an allegory. See Allegory.

ALLEGORIST, one who deals much in allegories: such were many of the Christian fathers.

ALLEGORY, allegoria, in matters of literature, a mode or species of writing, wherein something else is signified than the words, in their literal meaning, express. An allegory may be considered as a series or chain of metaphors, continued through a whole discourse. For example, when the prophets represent the Jews under the allegory of a vine planted, cultivated and watered by the hand of God, which instead of producing good fruit, brings forth vinegar and four grapes.

Allegories have entered into the various orders of the gentile world, undertaking to give a rational account of the many shocking absurdities which the poets had introduced into their religion, found it necessary to maintain that these fictions contained mysteries, and signified something very different from what they seemed to express. Hence came the word allegory, or a discourse that in its natural signified something other than what seems intended to be meant.

ALLEGORY is sometimes also used in a synonymous sense with accommodation. See the article Accommodation.

ALLEGRO, in music, an Italian word denoting that the part is to be played in a sprightly, brisk, lively, and gay manner.

Allegros move swifter in triple than in common time. See the article Time. Più Allegro signifies that the part it is joined to should be sung or played quicker; as Poco piu Allegro, intimates that the part to which it refers ought to be played or sung only a little more briskly than allegro alone requires.

ALLEGRETT. See ALLEGRETTE.

ALLELENGION, or Allelengy, a term of great solemn music, with good measure and a slow movement.

ALLELIMANNIC, in a general sense, denotes any thing belonging to the ancient Germans. Thus we meet with allemannic history, allemannic language, allemannic law, &c.

The allemannic law, as well as language, prevailed in the more southern parts of Germany, as the saxon law did in the northern.

ALLENDORF, a little city in the landgrave of Hesse Caffel, in Germany, situated upon the river Wefer, E. longit. 10°. N. latitude 51° 30'.

ALLE, a river which runs through the duchy of Lunenburg and falls into the Wefer, a little below Verden.

ALLES, or ALDER, a term used in our old writers to denote the superlative degree. Thus aller-good signifies the greatest good.

ALLEGION, or Alerion, in heraldry, a sort of eagle without beak or feet, which reason they are more common in French than in German coats of arms.

ALEU, or ALLODE. See the articles Allodial and Allodium.

ALLEVIARE, in old records, signifies to levy or raise an accustomed fine or composition.

ALLEVIATION is the act of making a thing lighter or more easy to be born.

ALLEVEURE, a small brass Swedish coin, worth about 2 ½ d. English money.

ALLEY, in gardening, a straight parallel walk, bounded on both sides with trees, shrubs, &c. and usually covered with gravel or turf.

An alley should be broad enough for two persons to walk abreast, and therefore should not be less than five feet in width. By this it is distinguished from a path. See the article Path.

Some say, that an alley ought never to exceed fifteen feet in breadth.

Covered Alley, that over which the branches of the trees meeting, form a shade.
ALLEY in zizae, that which having too great a descent, is apt to be damaged by floods.

ALLEY of compartment, that which divides the squares of a parterre. See the article PARTERRE.

ALLEY, among builders, denotes a narrow passage leading from one place to another.

ALLEY, in perspective, that which, in order to have a greater appearance of length, is made wider at the entrance than at the termination.

Counter alleys are little alleys by the sides of the great ones.

ALLIANCE in the civil and canon law, the relation contracted between two persons or two families by marriage. An alliance is thus contracted between the husband and his wife's relations, between the wife and her husband's relations, but not between the relations of the husband and wife.

ALLIANCE is also used for a treaty entered into by sovereign princes and states, for their mutual safety and defence. In this sense, alliances may be ranked treaties of subsidy. See the article SUBSIDY.

ALLIANCE, in a figurative sense, is applied to any kind of union or connexion: thus we say, there is an alliance between the church and state.

ALLIATI, in roman antiquity, the basest kind of slaves, who were usually kept fettered. See the article SLAVE.

ALLIER, a river of France, which rising in Languedoc, waters part of Auvergne and Bourbonnois, and falls into the Loire a little below Nevers.

ALLIGATION, in arithmetic, is the rule of mixture, which teaches to compound several species of ingredients or commodities together, according to any intent or design proposed; and is either medial or alternate.

ALLIGATION medial shews the rate or price of any mixtures, when the several quantities of the mixture, and their rates, are known.

Rule: multiply each quantity given, by the price; and then, by direct proportion, say, as the sum of the quantities given, to the sum of the products; to is any part of the mixture, to the value of that part. Example: a goldsmith melts 3 oz. of gold, at 41. 6s. 8d. per ounce, with 12 oz. at 4l. per ounce, and 8 oz. at 4l. 5s. per ounce; when they are all melted together, one ounce will be found to be worth 4l. 2s. 7½ d. Thus, oz. l. s. d.

\[
\begin{array}{c|c|c|c}
3 & 468 & 1 & \\
12 & 400 & \text{multiplied to-} & 48 \\
8 & 450 & \text{gether produce} & 34 \\
\hline
23 & \text{Sum} & 95 & \\
\end{array}
\]

Then as \(23 : 95:: 1 : 4 \approx 7 \frac{1}{4}\) Ans.

ALLIGATION alternate teaches to mix goods, of different prices, in such proportion, that the mixture may be sold for any price proposed.

Rule: set down the names of the things to be mixed, together with their prices; then, finding the difference between each of these, and the proposed price of the mixture, place these differences in an alternate order, and they will shew the proportion of the ingredients. Thus,

To find in what proportion rum at 10s. the gallon, ought to be mixed with brandy at 4s. the gallon, that the mixture may be sold for 8s. the gallon: first set down the rum and brandy, together with their prices, as in the margin; then finding the difference between 8, the proposed price, and 4, the price of the brandy, place this difference, \(\text{vizz.} 4\), alternately, that is opposite to the rum; and, after the same manner, place the difference between 10 and 8, \(\text{vizz.} 2\), opposite to brandy: then will 4 and 2 shew the proportion of the rum to the brandy, that is, there must be four gallons of rum for two gallons of brandy.

Those who are curious to have a fuller explanation of this rule, may consult Ward, Wallis, Tacquet, Malcom, and other books on arithmetic.

ALLIGATOR, in zoology, a name given to the smaller kind of crocodiles in the West-Indies. See CROCODILE.

An alligator swells fo strong of mufk as to affect the water and air at a considerable distance.

ALLIGATOR-PEAR, in botany, a name sometimes used for a species of pear. See the article PEAR.

ALLIOTH, a star in the tail of the greater bear, much used for finding the latitude at sea.
ALLOWANCES, at the custom-house, to goods rated by weight, are two, viz., draught and tare. See the articles Draught and Tare.

ALLOY, or Alloy, a proportion of a bolder metal mixed with a finer one. Thus all gold coin has an alloy of silver and copper; as silver coin has of copper alone; the proportion in the former cafe, for standard gold, being two carats of alloy in a pound troy of gold; and in the latter, eighteen penny-weight of alloy for a pound troy of silver.

According as gold or silver has more or less alloy than that mentioned above, it is said to be coarser or finer than the standard. However, it ought to be remarked, that the coin of different nations varies greatly in this respect; some using a larger, and others a less proportion of alloy, the original intention of which was to give the coin a due degree of hardness. There is a method of examining, by means of touch-needles, what proportion of alloy is contained in any coin. See the article Touch-needles.

ALLUM, the same with alum. See Alum.

ALUMNI0R, in some of our old statutes, a person whole trade it is to colour, or paint upon paper or parchment.

ALLUSION, in rhetoric, a figure by which something is applied to, or understood of another, on account of some similitude between them.

An allusion to words is trifling and low, making what we commonly call a pun. See the article Pun.

However, allusions to some apophthegm, remarkable event, or generally received custom, are not only extremely pleasing, but approved by the best writers, antient as well as modern.

ALLUVION, also, among civilians, denotes the gradual increase of land along the sea-shore, or on the banks of rivers. This, when slow and imperceptible, is deemed a lawful means of acquisition; but when a considerable portion of land is torn away at once, by the violence of the current, and joined to a neighbouring estate, it may be claimed again by the former owner.

ALLY, faction, in matters of polity, a sovereign prince or state, that has entered into alliance with others. See the article Alliance.
ALMACANTARS, the same with almacantars. See Almucantars.

ALMACARRON, a port-town of Spain, in the province of Murcia, at the mouth of the river Guadalentin: west longitude 1° 15', north latitude 37° 40'.

ALMADE, a town of Almadin, long boats, fitted out at Calicut, which Almadin is also the name of a kind of Almagest, also the title of other Almagest, in natural history, the name of a fine deep-red ochre, with a faint admixture of purple, used both in painting and medicine, being an excellent astringent. It is the same with what the antients called filatticum.

ALMAGEST, in matters of literature, is particularly used for a collection or book composed by Ptolemy, containing various problems of the antients both in geometry and astronomy.

ALMAGEST is also the title of another collection of this kind. Thus, Riccioli has published a body of astronomy, which he calls Almagestum botanicum.

ALMAGRA, in natural history, the name of a fine deep-red ochre, with a faint admixture of purple, used both in painting and medicine, being an excellent astringent. It is the same with what the antients called filatticum.

ALMANFURNACE, the same with almonfurnace. See Almond.

ALMANAC, in matters of literature, a table containing the calendar of days and months, the rising and setting of the Sun, the age of the moon, &c.

Authors are neither agreed about the inventor of almanacs, nor the etymology of the word; some deriving it from the Arabic particle at, and manah, to count; whilst others think it comes from almmanah, i.e. handels, or new year's gifts, because the astrologers of Arabia used, at the beginning of the year, to make presents of their ephemerides for the year ensuing.

As to the antiquity of almanacs, Dlugos informs us, that the Egyptian astrologers, long before the Arabians, used the term almenach, and almenachica description, for their monthly predictions. Be this as it will, Regiomontanus is allowed to have been the first who reduced almanacs to their present form.

Construction of Almanacs. The first thing to be done, is to compute the sun's and moon's place for each day of the year, or it may be taken from some ephemerides and entered in the almanac; next, find the dominical letter, and, by means thereof, distribute the calendar into weeks: then, having computed the time of easter, by it fix the other moveable feasts; adding the immovable ones, with the names of the martyrs, the rising and setting of each luminary, the length of day and night, the aspects of the planets, the phases of the moon, and the Sun's entrance into the cardinal points of the ecliptic, i.e. the two æquinoxes and solstices.

These are the principal contents of almanacs; besides which there are others of a political nature, and consequently different in different countries, as the birth-days and coronation of princes, tables of interest, &c.

On the whole, there appears to be no mystery, or even difficulty, in almanac-making, provided tables of the heavenly motions be not wanting.

ALMANDINE, a name given by antient naturalists to the carbuncle.

ALMANZA, a little town in the province of New Castile in Spain, remarkable for the defeat of the confederate army by the French, in 1707: west longitude 1° 15', north latitude 39°.

ALMARIA, a term found in some antient records for the archives of a church, monastery, and the like.

ALMARIC HERESY, in church-history, one broached in France in 1209, the distinguishing tenet of which was, that no christian could be saved unless he believed himself to be a member of Christ.

ALMEDA, a town in the province of Estremadura, in Portugal: west longitude 9° 40', north latitude 38° 40'.

ALMEDIA, a frontier town in the province of Tralos Montes, in Portugal: west longitude 7°, north latitude 40° 40'.

ALMEHRAK, in the mahometan customs, a rich in their mosques, pointing towards the kebla, or temple of Mecca, to which they are obliged to bow in praying. See the article Kebla.

ALMELILETU, in the mahometan customs, a rich in their mosques, pointing towards the kebla, or temple of Mecca, to which they are obliged to bow in praying. See the article Kebla.

ALMEHRAK, a term used by Avicenna, for a preternatural heat, which sometimes remains after a fever is gone.

ALMENE, in botany, a name sometimes used for the prickly lotus of America, otherwise called lotus acanthus, and simply acanthus. See Acanthus.
ALMENE, in commerce, a weight of two pounds, used to weigh saffron in several parts of the continent of the East-Indies.

ALMENDINE, ALMADINE, or ALMADINE, a kind of ruby, but softer and lighter than the oriental ruby. See RUBY.

ALMAGRA, a sea-port town of Spain, situated at the mouth of the river Almoria or Bolcuday.

ALMARY, the same with amby. See the article AMBRY.

ALMIGGIM, ALMERY, a city of Dalmatia, subject to the Venetians, and called by the Slavonians, Omica.

ALMIZADIR, a term used, among all languages, is thought to be the same name.

ALMODIA, a kind of very long and narrow boat, used in the East-Indies. See the article ASTROLABE.

ALMODIZIR, a term used, among alchemists, sometimes for verdigris, sometimes for the procés of the philosopher's stone, and sometimes for the aqua mercurialis, or aqua philosophorum.

ALMODIA, a kind of very long and narrow boat, used in the East-Indies. See the article FRANK-ALMON.

ALMOND, the fruit of the almond-tree. See the next article.

ALMOND, the fruit of the almond-tree. See the next article.

ALMOND, the fruit of the almond-tree. See the next article.

ALMOND, the fruit of the almond-tree. See the next article.

ALMOND, in commerce, a measure by which the Portuguese fell their oil; twenty-six almonds make a pipe.

ALMONDS, amygdale, in anatomy, a name sometimes given to the two glands, more usually called tonsils. See the article TONSILS.

ALMOND-FURNACE, among refiners, that in which the flags of litharge, left in refining silver, are reduced to lead again, by the help of charcoal.

ALMOND is also a name given to pieces of rock-crystal, which lapidaries use in adorning branch-candlesticks, &c. on account of the resemblance they bear to the fruit of the same name.

ALMONDBURY, a village in England, six miles from Hallifax.

ALMONER, an officer appointed to distribute alms to the poor.

ALMONER is sometimes also used for a deacon of a church, a chaplain, or even a legatee.

ALMONRY, AMBRY, or AMBRY. See the article AMBRY.

ALMS, eleemosyne, a general term for what is given out of charity to the poor.

In the early ages of christianity, the alms of the charitable were divided into four parts, one of which was allotted to the bishop, another to the priests, and a third to the deacons and sub-deacons, which made their whole subsistence; the fourth part was employed in relieving the poor, and in repairing the churches.
The manner of collecting alms in the assemblies of the primitive christians, is explained by St. Paul, in the ninth chapter of his second epistle to the Corinthians.

ALMS also denotes lands or other effects left to churches, or religious houses, on condition of praying for the soul of the donor. Hence,

Free ALMS, was that which is liable to no rent or service.

Reasonable ALMS was a certain portion of the estates of intestate persons, allotted to the poor.

ALMS-BOX, or ALMS-CHEST, in churches, and hospitals, &c. a strong box, with a hole or slit in the upper part, to receive the alms of the charitably disposed. Those of churches have three keys, one kept by the parson, and the other two by the church-wardens.

ALMS-FOEH, or ALMS-FEOH, a term antiently used for Peter's pence. See the article PETER'S PENCE.

ALMS-HOUSE, a kind of petty hospital for the maintenance of a certain number of poor, aged, or disabled persons. Of these there are a great number about London and Westminster; some endowed by public companies, and others by private persons.

ALMS-TEE, or ALMUTAZAPHUS, a magistrate of Aragon, whose office it was to inspect measures and weights, and search houses for stolen goods.

ALMUCANTARS, in astronomy, an arabic word denoting circles of the sphere passing through the center of the sun, or a star, parallel to the horizon, being the same as parallels of altitude. See the article PARALLELS OF ALTITUDE.

Almucantars are the same with the azimuts and horizon, that the parallels of latitude are with regard to the meridians and equator.

ALMUCE, mentioned in the scriptures, which the vulgate translates ligna thyina, and the septuagint worted-wood, is underfooted by the bell commentators to be a gummy oily fort of a tree, and particularly that which produces gum arabic.

ALMUCIUM, a port-town of Granada, in Spain, situated upon the Mediterranean; west longitude 3° 45', north lat. 36° 40'.

ALMUTAZAPHUS, a magistrate of Aragon, whose office it was to inspect measures and weights, and search houses for stolen goods.

ALMUTHEN, in astrology, the planet which surpasses the rest, with respect to dignities. See the article DIGNITY.

ALNABATI, a name given by arabian writers to the filgue dalcis, or carob-tree. See the article SILIQUA.

ALNAGER, in the english polity, the measuring of woollen manufactures, with an ell, and the other functions of the alnager.

Alnage was at first intended as a proof of the goodness of the commodity, and therefore a seal was invented as a signal, that the commodity was made according to the statute. But now, that these seals may be bought and affixed to whatever commodity the buyer pleases, our rivals have acquired an opportunity of supplanting our trade with foreign nations, to the great prejudice of our woollen manufactures.

ALNAGE, or AULNAGE, in the english polity, the measuring of woollen manufactures, with an ell, and the other functions of the alnager.

There are now three officers relating to the alnage, namely, a searcher, measurer, and alnager; all which were formerly comprized in the alnager, until by his own neglect it was thought proper to separate these offices.

ALNAM, in botany, a name by which some call penny-royal, or the common water-mint. See the article MINT.

ALNEY, a small island formed by the branches of the Severn, near Glocefter, in England; called also the Eight.

ALNUDE, a measure of liquids, the same with almond. See the article ALMOND.

ALNUS, the ALDER-TREE, in botany, a well-known genus of trees, with ameneceous flowers, and fruit of a squamosa structure;
ALOE [104] ALOE

structure, containing numerous compressed feeds. See plate XIII. fig. 3.
The alder-tree belongs to the monoeclad tetrandria class of Linnæus.

ALNUS, or the berry-bearing alder, a name used by some authors for the
grandula. See the article FRANGULA.

ALNWICK, the county-town of Northumberland, in England, situated upon the Aln.

ALOA, in grecian antiquity, a festival kept in honour of Ceres, by the husbandmen, and supposed to resemble our harvest-home.

ALOE, in botany, a genus of plants with a liliaceous flower, consisting of only one tubular leaf, divided into six deep segments at the edge: its fruit is an oblong capsule, divided into three cells, and containing a number of angulated seeds. It is one of the hexandria-monogynia class of Linnæus. See plate XIII. fig. 4.

Several species of this exotic plant are cultivated in the gardens of the curious, where they afford a very pleasing variety, as well by the odd shape of their leaves as by the different spots with which they are variegated.

Some aloes are arboreal, or divided into a number of branches, like trees; others are very small, growing close to the ground. The two most considerable species are the lœ of America, and that of Asia; the former on account of its beautiful flowers, and the latter for the drug prepared from it.

Aloe, or ALOES, in pharmacy, the inner juice of the alcoholic aloe, prepared in the following manner: from the leaves, fresh pulled, is pressed a juice, the thinner and purer part of which is poured off, and set in the sun to evaporate to a hard yellowish substance, which is called succotrine aloe, as being chiefly made at Succotra. The thicker part, being put into another vessel, hardens into a substance of a colour, and the latter called xylo-aloes. The thicker part, or sediment, hardens into a coarse substance, called aloe caballina, or the horse-aloe, as being chiefly used as a purge for horses.

This juice is famous for its purgative virtues, being usually given in the form of a tincture in wine, which is called hi-era pieria: it purges off a large quantity of bilious and putridous humours, and promotes the menses and hemorrhoidal discharges; but then it should always be administered with caution, and never given to people subject to spitting of blood, or hemorrhages of any kind. It is also to be avoided in all acute and inflammatory disorders, as well as by women with child, for fear of abortion.

ALOE rofata, a preparation of succotrine aloes, which being dissolved in the juice of roses, or violets, and exposed to the sun, or put upon a flow fire, thickens to a consistence proper for making pills.

Aloes is accounted an excellent purging medicine, especially to cold constitutions, a good feomantic, and, applied outwardly, is extremely serviceable in cicatrizing wounds.

ALOE WOOD, lignum aloes, or xylo-aloes, in botany. See the article XYLO-ALOES.

ALOE-DARY, among antient physicians, a purging medicine, the chief ingredients of which was aloes.

ALOE-TICS, a general term for all medicines, the basis or principal ingredient of which is aloes.

Aloe-tics are reputed hurtful in hemorrhages, as also in the teneinums, hemi-

ALOE-WOOD, lignum aloes, or xylo-aloes, in botany. See the article XYLO-ALOES.

ALOE-CIDE, among antient heretics, who denied that Jesus Christ was the logos or eternal word; and consequently rejected the gospel of St. John, as impious.

ALOE-GOTROPHIA, among physicians, denotes an unequal nutrition, or growth in some part of the body, as is the case in the rickets.

ALOIDE'S, in botany, a name used by some authors for a genus of plants, called by Linnæus fratiotes. See the article STRATIOTES.

ALOOF, in the tea-language, a word of command from the person who coms to the man at the helm, to keep the ship near the wind, when, failing upon a quarter-wind.

ALOPHIA, in medicine, denotes a falling off of the hair, occasioned either by a defect of nourishment, or by a bad state of the humours.

Some make a distinction between the alp-. specia and defluxius capillorum, as in the former, certain spots are left entirely bald; whereas, in the latter, the hair only grows excessively thin. They likewise distinguisit from the cphias, as the baldness in this last creeps in spiral lines about the head, like the windings of a serpent.

The intention of cure, however, seems to be much the same in them all; viz. to supply proper nourishment, where that is wanting;
Fig. 1. Alka, the Awk or Razor-Bill.

Fig. 2. Alkerengi.

Fig. 3. Alnus, the Alder - Tree.

Fig. 4. The Aloe.
wanting; and to correct the bad qualities of the humours, where these are in fault. To prevent the hair from falling off by degrees, the head is to be waflied every night, at going to bed, with a lye, prepared by boiling the ashes of vine branches in red wine. A powder, made by reducing hermodactyls to fine flour, is also recommended for the same purpose. In cafes where the baldness is total, a quantity of the finest burdock roots are to be bruiled in a marble mortar, and then boiled in white wine till there remains only as much as will cover them. This liquor, carefully strained off, is laid to cure baldness, by washing the head every night with some of it warm. A lye made by boiling the vine branches in common water, is also recommended with this intention. A fresh-cut onion rubbed on the part till it be red, and itch, is likewise said to cure baldness.

ALOEPIA is also used by Galen, for a change in the hair to another colour. ALOPECIAS, the SEA-FOX, in ichthyology, a name by which some call the species of Squalus, which has a tail longer than its body. See the article SQUALUS.

ALOPECOPITHECUS, in zoology, a name given by several authors to the opof-ium, falsely supposed to partake of the nature both of the fox and ape. See the article OPOSsum.

ALOPECURUS, FOX-TAIL-GRASS, in botany, a distinct genus of plants, the flower of which consists of only one hollow valve, with a long awn or beard inserted on its back part, near the base: it is one of the triandra-dirynia of Linnaeus.

ALOSA, in ichthyology, a species of clupea, with the upper jaw bifid at the extremity, and spotted with black; called in English the hind, or mother of herrings. See the article CLUPEA.

ALOST, a town in the austrian Flanders, upon the river Derder, half-way between Bruffels and Ghent.

ALOWAY, a port-town of Scotland, situated on the river Forth, remarkable for the coal mines in its neighbourhood: west longitude 3° 45', north latitude 56° 10'.

ALP, in ornithology, a name used in several parts of the kingdom for the bullfinch. See the article BULLFINCH.

ALPHA, among grammarians, the name of the first letter of the Greek alphabet, answering to our A.

The alpha, when compounded with other words, is most frequently used in a privative or negative sense, answering to the English particle in or un: thus agamuis, alego, signifies unmarried, being compounded of the privative a and eago, marriage. Sometimes, however, it augments the signification of the words it is compounded with, as aleo, valeo ro-bustus.

As a numeral, alpha stands for one, or the first of any thing; only, for distinction sake, there used to be an acute accent placed over it, when not a letter of order, thus α'.

Hence it is that we find alpha frequently used among ancient writers, for the first or principal person of a class or set of men: thus Plato is called the alpha of wits, as Eratosthenes was surnamed beta, or the second Plato. And, for the same reason, it is used for the beginning of a thing, as omega for the last; both which together, viz. A and α, denote the eternity of God.

ALPHABET, in matters of literature, the natural or accustomed series of the several letters of a language. As alphabets were not contrived with design, or according to the just rules of analogy and reason, but have been successively framed, and altered, as occasion required, it is not surprising that many grievous complaints have been heard of their deficiencies, and divers attempts made to establish new and more adequate ones in their place.

All the alphabets extant are charged by bishop Wilkins with great irregularities, with respect both to order, number, power, figure, &c.

As to the order, it appears (says he) inartificial, precarious, and confused, as the vowels and consonants are not reduced into classes, with such order of precedence and subsequence as their natures will bear. Of this imperfection the Greek alphabet, which is one of the least defective, is far from being free: for instance, the Greeks should have separated the consonants from the vowels; after the vowels they should have placed the diphthongs, and then the consonants; whereas in fact, the order is so perverted that we find the ψιρος the fifteenth letter, in order of the alphabet, and the θαλας, or long ο, the twenty-fourth and last, the ε the fifth, and the η the seventh.

With respect to number, they are both redundant and deficient; redundant, by allotting the name found to several letters, as in the Latin c and k, f and ph; or by reckoning double letters among.
Among the simple elements of speech, as in the Greek ζ and μ, the Latin g or cu, α or eο, and the j consonant; deficient in many respects, particularly with regard to vowels, of which seven or eight kinds are commonly used, though the Latin alphabet takes notice only of five. Add to this, that the difference among them, with regard to long and short, is not sufficiently provided against.

The powers again, are not more exempt from confusion; the vowels, for instance, are generally acknowledged to have each of them several different sounds; and among the consonants we need only bring as evidence of their different pronunciation, the letter c in the word *circa*, and *g* in the word *negligence*. Hence it happens, that some words are differently written, though pronounced in the same manner, as *caffe* and *jaffa*; and others are different in pronunciation, which are the same in writing, as *give*, *dare*, and *give*, *vivulum*.

Finally, the figures are but ill-considered, there being nothing in the characters of the vowels answerable to the different degrees of aeposition; nor in the consonants analogous to their agreements or disagreements.

Alphabets of different nations vary in the number of their constituent letters. The English alphabet contains twenty-four letters, to which if j and w consonant are added, the sum will be twenty-six; the French, twenty-three; the Hebrew, Chaldee, Syrian, and Samaritan twenty-two each; the Arabic, twenty-eight; the Persian, thirty-one; the Turkish, thirty-three; the Georgian, thirty-six; the Coptic, thirty-two; the Mulecote, forty-three; the Greek, twenty-four; the Latin, twenty-two; the Eloavonic, twenty-seven; the Dutch, twenty-six; the Spanish, twenty-seven; the Italian, twenty; the Ethiopic, as well as Tartarian, two hundred and two; the Indians of Bengal, twenty-one; the Baramo, nineteen; the Chinese, properly speaking, have no alphabet, except we call their whole language their alphabet: their letters are words or rather hieroglyphics, and amount to about 80,000.

If alphabets had been constructed by able persons, after a full examination of the subject, they would not have been filled with such contradictions between the manner of writing and reading; as we have shewn above, nor with their imperfections that evidently appear in the alphabets of every nation. Mr. Lecdvic, however, and Bishop Wilkins, have endeavoured to obviate all these, in their universal alphabets or characters. See the article Universal Character.

Alphabet is also used for a cypher, or table of the usual letters of the alphabet, with the corresponding secret characters, and other blank symbols intended to render the writing more difficult to be deciphered. See Deciphering.

Alphabet, among merchants, a kind of index, with the twenty-four letters, in their natural order, in which are set down the names of those who have open accounts, referring to the folios of the ledger.

Alphabetical, something belonging to, or partaking of the nature of an alphabet. Thus we say, alphabetical order, method, &c.

Alphenic, a name sometimes used for white barley-sugar, or twisted sugar.

Alphesera, in botany, a name used among arabian writers for the white bryony. See the article Bryony.

Alphestes, in ichthyology, a name by which some call a species of labrus. See the article Labrus.

Alpheta, in astronomy, the name with lucida coronae. See Lucida Coronae.

Alphitidian, αλπίδης, from αλφίς, flour, a kind of fracture mentioned by ancient physicians, wherein the bone of a limb is crushed or ground to pieces.

Alphitomancy, αλφητόμαντες, a species of divination otherwise called aleuromancy. See Aleuromancy.

Alphonson, in surgery, an instrument for extracting bullets out of gun-shot wounds.

This instrument derives its name from the inventor Alphonius Ferrier, a physician of Naples. It consists of three branches, which are closed by a ring. When closed and introduced into the wound, the operator draws back the ring towards the handle, upon which the branches opening take hold of the ball; and then the ring is pushed from the haft, by which means the branches grasp the ball so firmly as to extricate the ball from the wound. See the article Gun-shot-wounds.

Alphonsine Tables, astronomical tables calculated by order of Alphonfius king of Castile, in the construction of which that prince is supposed to have contributed his own labour. See Table.

Alphos, αλφός, among physicians, a diffac of the skin, otherwise called *leuc*
ALPS is sometimes also used in a more general sense, for any mountains of extraordinary height.

ALPINE, something belonging to the alps. See the article Alps.

ALPS, a chain of exceeding high mountains, separating Italy from France and Germany.

ALPS is sometimes also used in a more general sense, for any mountains of extraordinary height.

ALQUIER, in astronomy, the name of a star of the first magnitude, otherwise called arcturus. See Arcturus.

ALRUM, among ancient botanists, the name by which they called the tree which produces the gum-baccilium. See the article Baccilium.

ALSACE, a province formerly belonging to Germany, but almost entirely ceded to France by the peace of Munster, is situated between the river Rhine on the east, and Lorraine on the west; Switzerland on the south, and the palatinate of the Rhine on the north.

ALSADAF, in the materia medica, the name by which Aviennus calls the unguis odoratus. See the article Unguis.

ALSAHARATICA, a name used by some botanists for the parthenium, or feverfew. See Parthenium.

ALSEN, an island in the Leffer Belt, at the entrance of the Baltic-Sea, between Slefwic and Funen. E. longitude 10°. N. latitude 52° 12'.

ALSCHARCUR, in the materia medica, the name sometimes used for the skink. See the article Skink.

ALSFIELD or Asfield, a town of Hesse Cassel, in Germany. E. longitude 9°. N. latitude 50° 40'.

ALSIMBEL, a name by which Aviennus calls the nardus indica, or Indian spike-nard. See the article Nardus.

ALSINA STRUM, in botany, a genus of plants, so called from their resemblance to the aline, or chickweed.

The characters are these: the flower and fruit agree with those of the aline; but the cup is composed of several leaves, whereas that of the aline consists only of one.

ALSINASTRUM is also a name by which Vaillant calls a genus of plants, comprehended by Linnaeus among the elatinse. See the article Elatine.

ALSINE, Chickweed, in botany, the name of a large genus of plants, the flower of which is rofaceous; consisting of several petals disposed in a circular form, and sometimes whole, sometimes bifid at the ends. The fruit is a membranaceous capsule, of a roundish or conic shape, and containing a number of seeds affixed to a placenta. See plate XIV. fig. 1.

The alines are reputed cooling, and therefore good in fevers of the blood, and consumptions arising from hectic disorders.

ALSRAT, in the mahometan theology; denotes a bridge laid over the middle of hell, the passage or path whereof is sharper than the edge of a sword; over which, however, everybody must pass at the day of judgment, when the wicked will tumble headlong into hell, whereas the good will fly over it like the wind.

ALSONE, a small city of Languedoc in France, upon the river Frequeil, between Carcassonne and St. Papoul.

ALSWANGEN, a town of Livonia, in the duchy of Courland, situated upon the Baltic.

ALT, in music, a term applied to the high notes in the scale. See Scale.

ALTAMURA, a city in the kingdom of Naples at the foot of the Apennines. E. longitude 19°. N. latitude 41°.

ALTAR, altar, or ara, a place upon which sacrifices were antiently offered to some deity.

The heathens at first made their altars only of turf; in following times they were made of stone, of marble, of wood, and even of horn, as that of Apollo in Delos. Altars differed in figure as well as in materials. Some were round, others square, and others oval. All of them were turned towards the east, and stood lower than the statues of the gods, and were generally adorned with sculpture, inscriptions, and the leaves and flowers of the particular tree consecrated to the deity. Thus, the altars of Jupiter were decked with oak, those of Apollo with laurel, those of Venus with myrtle, and those of Minerva with olive.

The height of altars also differed according to the different gods to whom they sacrificed. Those of the celestial gods were raised to a great height above the ground; those appointed for the terrestrial were almost on a level with the surface of the earth; and, on the contrary, they dug a hole for the altars of the infernal gods. According to Servius, the first were called alteria, the second ara, and the last eromenes; but this distinction is not...
not every where observed, for we find in
the best authors, the word ara, a genera-
ral word, including the altars of celestial,
infernal, and terrestrial gods.
Before temples were in use, altars were
erected sometimes in groves, sometimes in
the highways, and sometimes on the
tops of mountains; and it was a custom
to engrave upon them the name, proper
enlign or character of the deity to whom
they were consecrated. Thus, S. Paul
observed an altar at Athens, with an inscrip-
tion to the unknown god.
In the great temples of ancient Rome,
there were ordinarily three altars; the
first was placed in the sanctuary, at the
foot of the statue of the divinity, upon
which incense was burnt, and libations
offered: the second was before the gate
of the temple, and upon it they sacrificed
the victims: and the third was a porta-
ble altar, upon which were placed the
offerings and the sacred vessels.
Besides these ues of the altars, the an-
tients swore upon them, and swore by
them in making alliances, confirming
 treaties of peace, and on other solemn
occasions. Altars also served as a place
of refuge and sanctuary to all those who
fled to them, whatever crime they had
committed.

Among the Jews, altars in the patriar-
chial times were very rude. The altar
which Jacob set up at Bethel was noth-
ing but a stone, which served him in-
stead of a bolster; that of Gideon, a stone
before his house; and the first which God
commanded Moses to erect to him, was
probably of earth or unpolished stoneswith-
out any iron; for if any use was made of
that metal, the altar was declared impure.
The principal altars of the Jews were
those of incense, of burnt-offering, and
the altar, or table, for the shew-bread.
The altar of incense was a small table of
shittim wood, covered with plates of gold,
of one cubit in length, another in width,
and two in height. At the four corners
there were four kinds of horns, and all round
a little border or crown over it. This
was the altar hidden by Jeremiah before
the captivity, and upon it the officiating
priest offered, every morning and even-
ing, incense of a particular composition.
See plate XIV. fig. 4.
The altar of burnt offerings was made
of shittim wood, and carried upon the
shoulders of the priests by staves of the
fame wood, overlaid with brass. In the
time of Moses, this altar was five cubits
square and three high, but in Solomon's
temple it was much larger, being twenty
cubits square and ten in height. It was cov-
ered with brass, and at each corner was
a horn or spire wrought out of the fame
wood with the altar, to which the sacri-
cifices were tied. Within the hollow was
a grate of brass, on which the fire was
made; through it fell the ashes, and were
received in a pan below. At the four
corners of the grate were four rings
and four chains, which kept it up at the
horns. This altar was placed in the
open air, that the smoke of the burnt-
offerings might not fully the inside of the
tabernacle. See plate XIV. fig. 5.

The altar or table for the shew-bread,
was likewise of shittim wood, covered
with plates of gold, having a little border
round it, adorned with sculpture. It was
two cubits long, one wide, and one
and half in height. Upon this table, which
stood in the holy of holies, were put every
fabbath-day, twelve loaves, with salt and
incense. See Shew-Bread.
The jewilh altars, after the return from
the captivity, and the building of the
second temple, were in some respects dif-
ferent from those described above.

That of burnt-offerings was a large
pile, built of unhewn stones, thirty-two
cubits square at the bottom, and twenty-
four square at the top. The aicent was
by a gentle rising thirty-two cubits in
length, and sixteen in breadth.

Altar- Thane, in our old law books, an
appellation given to the priest, or parson
of a parish, to whom the altarage be-
longed. See the article Altarage.

Altarage, among ecclesiastical writ-
ers, denotes the profits arising to a priest
on account of the altar, as well as the
offerings themselves made upon it.

Altarist, altarifia, the same with
Altar-thane. See Altar-thane.
"ALT"

ALTEA, a sea-port town of Spain, situated upon the Mediterranean, in the province of Valencia, about forty-five miles south of the city Valencia. W. longit. 1° 15'. N. lat. 38° 40'.

ALTEMBURG, a town of Tranilvania, subject to the house of Austria, situated in 23° east longit. and 46° 25'. north latitude.

ALTEMBURG is also used by some for Altenburg. See the article Altenburg.

ALTENA, a port-town of Holstein, in Germany, situated on the river Elbe. It belongs to the Danes, and is the place where all their east-india goods are sold.

ALTERNATIVE, a term used by some philosophers for what is more usually called diversity. See the article Diversity.

ALTERNATION, a debate between two companions. Thus we say, they have continually some altercation, though they never come to an open rupture.

ALTERNATE, in botany, a name by which some old writers call the hyoscyamus of other botanists. See the article Hyoscyamus.

ALTERDOCHAON, a town of Portugal, in Estremadura, three leagues south-west of Portalegre.

ALTERATION, alternation, alterratio, in a general sense, denotes some variation in the qualities or circumstances of a thing, without wholly changing its nature. Thus, a piece of cloth is altered by being dyed a different colour; so is a piece of wood, by being fashioned into a different shape; and so in other cases.

ALTERATION, in medicine, is particularly used to denote the action of alterant medicines. See Alterants.

ALTERATION, in a still more limited sense, is used for the change which food undergoes before it becomes proper nourishment to the body; in which sense, it comprehends digestion and assimilation. See Digestion and Assimilation.

ALTERATION of quantities, a term used by some algebraists for what others call permutation. See Permutation.

ALTERATION, in a general sense, denotes much the same with alterants. See Alterants.

ALTERNATION, a debate between two companions. Thus we say, they have continually some altercation, though they never come to an open rupture.

ALTERNATE, in botany, a name by which some old writers call the hyoscyamus of other botanists. See the article Hyoscyamus.

ALTERNATIVE, in a general sense, denotes much the same with alternate. See the article Alternate.

ALTERNATIVE PROMISE, that whereby two or more persons are bound, conjunctly and severally, to perform something; which being done by any one of them, all the rest are acquitted.
ALTERNATIVE PROPOSITIONS, the same 
with those more usually called disjunctive 
one. See DISJUNCTIVE PROPOSITIONS

ALTINA, MARSH-MALLOW, in bot-
any, a genus of plants, with a double 
calyx, the exterior one being divided into 
nine segments; the fruit consists of nu-
merous capsules, each containing a single 
seed. It belongs to the monadelphus 
polyandria class of Linnaeus.

Its flowers and fruit are nearly the same 
with those of the malva, or mallow. See 
the article MALVA.

Altinea is much used as an emollient. 
The root and leaves are of great use a-
gainst sharp corroding humours in the 
Stomach; also balsamic and pectoral, and 
are often ordered in Clysters for the stone, 
and in cataplasm and fomentations 
against swellings.

ALTIMETRY, altimetria, denotes the 
art of measuring altitudes or heights. 
See ALTITUDE and HEIGHT.

ALTINCAR, among metallurgists, a kind 
of flux-powder, used in the fusion and 
purification of metals.

ALTIN, a kingdom of Asia, in great Tar-
tary, between the sources of the Irrith 
and the Oby. It is bounded on the 
north by the Kirgises, on the east by 
the Amanduners, on the south by the 
kingdom of Eluth, and on the west by 
the Jrrich, which separates it from 
Barabinkoi.

ALTIN is also the capital of the kingdom 
of that name, situated in the northern 
part of the kingdom, at the head of the 
river Kilam.

ALTIN, in commerce, a kind of money 
current in Muscovy, worth three copies.

ALTITH, in botany, a name sometimes 
given to the plant which produces the 
asafoetida of the fllops. See ASA-FOETIDA.

ALTITUDE, altitude, in geometry, one 
of the three dimensions of body; being 
the fame with what is otherwise called 
height. See the article HEIGHT.

ALTITUDE of a figure, is the nearest 
distance of its vertex from its base, or the 
length of a perpendicular let fall from 
the vertex to the base. See FIGURE, 
PERPENDICULAR, &c.

ALTITUDE, in optics, is the height of an 
object above a line, drawn parallel to the 
horizon from the eye of the observer.

ALTITUDE of the eye, in perspective, is its 
perpendicular height above the geome-
trical plane.

ALTITUDE of a star, &c. in astronomy, is 
an arch of a vertical circle, intercepted 
between the stars and the horizon.

This altitude is either true or apparent, 
according as it is reckoned from the ra-
tional or sensible horizon, and the dif-
tinction between those is what is called by 
astronomers the parallel of altitude. See 
the article PARALLAX.

Near the horizon, this altitude is always 
increased by means of refraction. See 
the article REFRACTION.

Sailors commonly take the altitudes of 
stars with a quadrant, but as this method 
is liable to an error of six, seven, or 
more minutes, by reason of the motion 
of the ship, as well as the coarseness of 
their instruments, Mr. Parent has given 
a new way of finding their altitudes, by 
means of a common watch. His meth-

od is this: having observed the dif-
tinction of time between the rising of two 
stars, the right ascension and declination 
of which are known from astronomical 
tables, it will be easy to distinguish the 
part of the difference which arises from 
their different position from that arising 
from the obliquity of the sphere. Now 
this last is precisely the altitude of the 
pole of the place of observation; for as 
to the way the ship may have made 
between the rising of the two stars, it is 
so small as to be safely overlooked, or at 
most estimated in the common way of 
reckoning.

As to the methods of taking the meridian 
altitude of the sun, or of a star, by means 
of a gnomon, pin, or quadrant, see 
GNOMON, PIN, and QUADRANT.

ALTITUDE of motion, according to Dr. 
Wallis, is its measure estimated in the 
line of direction of the moving force.

ALTITUDE, in astrology, is the same with 
what is otherwise called exaltation. See 
the article EXALTATION.

ALTITUDE of fluids is more usually ex-
pressed by the term depth. See DEPTH.

Determinative ALTITUDE, that from 
whence a heavy body falling, acquires a 
certain velocity by its natural accele-
ration.

ALTITUDE of the equator. See EQUATOR.

ALTITUDE of the nonagesimal. See the 
article NONAGESIMAL.

ALTITUDE of the pole. See POLE.

Circles of ALTITUDES. See CIRCLE.

Parallels of ALTITUDE. See PARALLEL.

ALTIKIRK, a town of Allace in German-

y, situated on the river Ill, in n. lat. 
47°. 40', and £. longit. 7°. 15'.

ALTMORE, a town of Ireland, in the 
county of Tyrone, and province of 
Ulster, situated in N. latit. 54°. 34', and 
W. longit. 7°. 21'.

ALT
ALT MUL, a river of Germany, which arising in Franconia, runs south-east by the city of Ansbach; and continuing its course east by Papenheim and Aichfletz, falls into the Danube at Kelheim, about twelve miles above Ratibon.

ALTO and BASSO, in law, denotes the absolute subm ission of all differences high and low to some arbitrator.

AL TOM, a name given in several parts of the turkish dominions to what the Europeans call a sequin. See SEQUIN.

ALTO-MONTE, a town of the hither Calabria, in the kingdom of Naples, at the foot of the Appenines, ten miles from Caffano.

ALTO-RELIEVO. See RELIEVO.

AL TO RIPIENO, in music, the tenor of the great chorus which sings or plays only now and then in some particular places.

ALT ORF, a town of Germany, in the circle of Swabia, situated in N. latitude 47° 46'. and E. longit. 9° 31'.

ALT ORF is likewise the name of a town in the circle of Franconia, situated in N. latit. 49° 20'. and E. longit. 11° 20'.

ALT ORF is also the capital of the canton of Uri, in Switzerland, situated on the lake Lucern, in N. latit. 46° 50'. and E. longit. 8° 30'.

AL TRINGHAM, a town of Cheshire in England upon the borders of Lancashire, seven miles from Mancheffer.

AL TRIP, a small town of Germany, in the diocese of Spire, situated upon the Rhine, a little above Manheim.

ALT U MAL, a term sometimes used to denote the mercantile style or dialect.

ALTUS, in music. See COUNTER-TENOR.

ALT ZHEIM, or ALT ZEY, a town of Germany, situated in N. latit. 49° 45'. and E. longit. 7° 42'. about forty-two miles north-west of Heidelberg.

AL VA DE TORMES, a town of Spain, in the province of Leon, situated on the river Tormes, in N. latit. 41°. and W. longit. 6°. about sixteen miles south-east of Salamanca.

AL VAH, among the mahometans, the name by which they call the wood wherewith Moles sweetened the waters of Marah; though Josephus will have it, that he used the wood which came first to hand.

AL VAH AT, a province of higher Egypt, situated under the tropics.

AL VARI D, in the history of Spain, a kind of magistrate or judge, differing very little from the alcaid. See ALCAID.

AL VARI STS, in church-history, a branch of theologians, so called from Al- vares their leader; who affected sufficient grace, instead of the efficacious grace of the antient theologians. See the article THOMISTS.

AL UCO, in ornithology, the name by which authors call the common white owl, or barn-owl. See OWL.

AL UDEL S, a kind of sheep's leather, one side of which has the wool on.

AL UDEL S, in chemistry, are earthen pots ranged one above another, for retaining the flowers which ascend in the process of sublimation. See SUB LIMATION.

The lowest aludel is fitted to a pot, placed in the furnace, wherein is the matter to be sublimed; and at top is a close head, to retain the flowers which ascend highest.

AL VE ARIUM properly signifies a bee-hive, from alveus, a channel, or cavity. Hence,

AL VE ARIUM, among anatomists, denotes the hollow of the auricle, or outer ear. See the article EAR.

AL VE ARIUM, in matters of literature, is used in a figurative sense for a collection, or theaurus. See THESAURUS.

AL VE O LUS, in natural history, properly denotes one of those waxen cells, whereof the combs in bee-hives consist. These are cells, or cells, serve for different purposes. As store-houses, they preserve honey and wax for future use; and as nidules, they serve to defend the embryobees while hatching. See BEE.

Naturalists and mathematicians have bestowed no little pains in examining the structure of these cells; the form of which appears to be the most commodious that it is almost possible for art to invent, as requiring the least wax to contain the same quantity of honey. The body of the cell is hexagonal, or consists of six sides; and the sides are of a pyramidal figure, composed of three rhombuses, the obtuse angles of which have been found by mensuration to be nearly 110°, varying only about half a degree from what, by the strictest rules of geometry, they ought to be, viz. 109° 28'. 10'.

As to the disposition and arrangement of these cells in combs, see COMB.

AL VE O LUS, in anatomy, the socket-like cavity in the jaws, wherein each of the teeth is fixed.

AL VE O LUS, in botany, a name given to the cells in which the seeds of certain plants,
plants, as the diplopus and corona solis, are ranged.

ALVEOLUS, in the history of fossils, a marine body, not known at present in its recent state, but frequently found fossil. The alveoli are of a conic shape, and composed of a number of cells, like so many bee-hives, jointed into one another, with a siphunculus, or pipe of communication, like that of the nautilus. They are sometimes met with entire, but more frequently truncated, or with their smaller ends broken off.

ALVEUS, properly signifies a channel; and hence is used by some anatomists for the tumid lacrimal vessels, proceeding from the receptaculum chyli.

ALVIDOSA, a town of Calabria in the kingdom of Naples upon the gulf of Rotaio.

ALVI FLUXUS, among physicians, the same with diarrhoea. See the article TETARRHEA.

Obstructio ALVI, the same with what we more usually call colicivenes. See the article CESTIVENESS.

ALVIDOCA, among physicians, a term used for laxative or purging medicines. See the article CATHARTICS.

ALUM, alumen, in natural-history, a peculiar kind of salt, separated by art from various substances. In Italy, it is obtained from a soft reddish stone; about Puteoli, from several kinds of earth; and in England, from a whitish or bluish stone, called irish slate. In some parts of the world, alum is found pure; having been washed from its ore by water, and afterwards, on the evaporation of the water, left in a dry form.

Process of making ALUM. At Whitby, in Yorkshire, alum is made thus: having burnt a quantity of the ore with whins, or wood, till it becomes white; they then draw it in a pit, where it is steeped in water for eight or ten hours. This liquor, or lixivium, is conveyed by troughs to the alum-house into cisterns, and from them into the pans, where it is boiled about twenty-four hours. Then add a certain quantity of the lee of kelp; the whole is drawn off into a settler; where having remained about an hour, that the sulphur and other dregs may have time to settle to the bottom, it is conveyed into coolers. This done, to every ton of the liquor they add about eight gallons of urine; and having stood four days and nights, till quite cool, the alum begins to crystallize on the sides of the vessel, from which being scraped off, it is washed with fair water, and then thrown in a bing, to let the water drain off. After this it is thrown into a pan, called the roching pan, and there melted; in which state it is conveyed by troughs into tuns, where it stands about ten days, till perfectly condened. Then having the tuns, the alum is taken out, chipped, and carried to the store-houses. This is what we commonly call roche or rock alum, as being prepared from stones cut from the rocks of the quarry; and stands contradistinguished from the common alum, or that prepared from earths.

Properties and uses of ALUM. In medicine alum is a very valuable and powerful astringent: the old authors are full of its praises in stopping haemorrhages of all kinds, in softening the teeth, and in strengthening the gums; on this account it was an ingredient in all their dentifrices, and obtains a place in most of ours to this day. Alum, mixed with honey, cures the aphtae; and with the juice of knot-graft, is good for exanthemata and rheums in the ears; with cabbage-leaves boiled honey, it is effectual in the leprous; and very good in warm water to make a fomentation for the itch, preserved to diSolve it, and when a proper
proper quantity of that is evaporated, it forms octagonal crystals, of a sweet, auster and very styptic taste. A solution of alum congeals milk, turns the tincture of heliotropium purple, makes no alteration in the solution of corrosive sublimate, turns the infusion of galls turbid and whitish; with salt of tartar it concretes into a white coagulum, without any sensible heat or smoke; and often upon mixing this solution with oil of tartar, an urinous smell is perceived; but this only happens when the alum has been purified with urine. There is no such smell from the roman alum.

Artificial Alum, that prepared by art, in contradistinction from the native alum. Artificial Alum is also used for alum produced by causing burnt earthen vessels imbib to a large quantity of oil of vitriol; the effect of which is, that they are thereby reduced to a mucilage, which being exposed to the open air, affords crystals of pure alum. Tobacco-pipes, wetted with spirit of sulphur, likewise afford beautiful crystals of plumose alum. See the article Plumose Alum, infra.

Burnt Alum is that melted in a fire-shovel, or crucible, where it is allowed to bubble till it becomes a white hard substance. The watery part of the alum being thus expelled, the remainder is left potifed of all its acids, less clogged, and more in a condition to exert its effects. It proves a gentle efcharotic, and is used in small quantities, mixed with other ingredients, in tooth-powders.

Common Alum, that made from earths. See Proces of making Alum, supra.

Crude Alum, that which has undergone no other refinement than what it receives at the alum-works.

Native Alum, or Poffible Alum, that formed by nature, without the assistance of art. There are flill mines of native alum in the island of Chio, consisting of a kind of vaults, or apartments, crusted over with alum, which may be looked upon as exfoliations from the rock.

Plumose Alum, or Plume Alum, a kind of natural alum, composed of a sort of threads, or fibres, resembling feathers; whence it has its name.

Prepared Alum, or Purified Alum, that which is dissolved in hot rain-water, and afterwards made to crysallize, by evaporating the water.

Roche-Alum, or Rock-Alum. See the article Proces of making Alum, supra.

Roman Alum, a sort of rock alum, of a reddish colour, made in the country near Rome.

Saccharine Alum is a composition of common alum with rofe-water and the whites of eggs, which being boiled to the confluence of a paste, is formed in the shape of a sugar-loaf; hence it obtained its name; it is used as a cosmetic.

Sciffle Alum, the same with plumose alum.

Alum-water. See Aluminous, infra.

Alum-works, places where alum is manufactured, or prepared. See the article Alum, supra.

Alum-works differ from alum mines, as in thefe laft the alum is found native.

Alumen, alum, in natural history. See the article Alum.

Alumen catini, a name used by some naturalists for the slat of the herb kali. See the article Kali.

Alumen fragiloa, a name by which some call the lapis specularis. See the article Specularis lapis.

Aluminous, an appellation given to such things as partake of the nature and properties of alum. See Alum.

Aluminous waters, those impregnated, either naturally or artificially, with the virtues of alum. Of the former kind is the spaw at Scarborough represented to be; and of the latter, the aqua aluminofa of the fops. See the articles Scarborough, and Aqua aluminofa.

Alumta, in botany, a name used by some old latin authors for the luteola, or dyer’s-weed. See the article Luteola.

Alus, or Alum, names used by antient physicians for two very different plants, the symphytum petrum, or rock-comfrey, and a species of garlick. See the articles Symphytum and Garlick.

Alusma, in botany, the same with usma. See the article Usma.

Alvus, in anatomy, denotes the lower belly, or venter; but Celus uses it to signify the belly relative to stools. Thus Albus liquida is when the faces are liquid, and albus adfritta when the belly is bound.

Alwaidii, a sect of mahometans who believe all great crimes to be unpardonable. The alwaidii attribute more to good works, and less to belief, than other mahometans.

Alypas, in the materia medica, a kind of white turbithe. See Turbithe.
ALYPUM, in botany, a name sometimes given to the narrow-leaved *Thymalus*, or spurge. See *Thymalus*.

ALYPUM is also used for a species of *ape-cynum*, or dog’s-bane. See the article *Dog’s-bane*.

ALYPUM is also the name by which some call the *globularia* of other botanists. See the article *Globularia*.

ALYSSOIDES, ALYSSON, ~oLYSSON ALYT, ALZACHI, ALZIRA, given to the narrow-leaved; *leucoium* or *purge*. See the article *Dog’s-bane*.

Some botanists rank *alyssoides* with the *leucoium*; others, particularly Linnaeus, with the *alyssum*. See *Leucoium* and the next article.

ALYSSON, or ALYSSUM, in botany, the name of a genus of plants, called in English mad-wort: the flower is of the cruciform kind, and consists of four leaves; the fruit is a small roundish capsule, divided into two cells, in which are contained a number of small roundish seeds. See plate XIV. fig. 1.

This genus, according to Linnaeus, comprehends the *alyssum*, *alyssoides*, and *vesicaria* of Tournefort.

As to the medicinal virtues of *alysson*, it is said to be appetitive, and good for the bite of a mad dog; being of a very penetrating and diaphoretic nature, and agreeing in other respects with the *furry-grafe*.

ALYSSON is also a name sometimes used for the *myagrum* of the generality of botanists. See the article *Myagrum*.

ALYTARCHA, a priest of Antioch, in Syria, who, in the games instituted in honour of the gods, preceded over the *axiolos*, or officers who carried rods to clear away the crowd, and keep order. In the Olympic games, the alytarches had the same command, and obliged every person to preserve order and decency. See the article *Anguria*.

ALZACHI, among Arabian physicians, the name by which they call the *anguria*, or citrul, of the generality of botanists. See the article *Anguria*.

ALZAGI, or ALZEGI. See the article *Zeki*.

ALZARAC, among Arabian physicians, denotes a coarse kind of camphor, of a brown colour. See the article *Zeki*.

ALZIRA, a town of Spain, in the province of Valencia, situated on the river Xucar, about eighteen miles south of the city of Valencia. W. lon. 20°, N. lat. 39° 10'.
Flavius Blandus, inventor of the sea-man's compass. E. lon. 15° 20', N. lat. 48° 50'.

AMALGAM, amalgama, denotes a mass of mercury united and incorporated with some metal. See AMALGAMATION.

Amalgams grow soft with heat, and hard with cold; and the metals amalgamated with mercury, assume a consistence harder or softer, in proportion to the quantity of mercury employed in the amalgam.

Amalgams are used either to render a metal fit to be extended on some works, as in gilding; or else to reduce the metal into a very subtle powder.

Thus gilders, to lay gold on any other body, dissolve it in hot mercury; which done, they apply the solution on the body to be gilt, then setting it over the coals, the mercury evaporates, and leaves the gold adhering to the body like a crust.

The amalgams of gold, silver, tin, lead, zinc, bismuth, and copper, are all white; and when the proportion of the quantity of the metal to that of mercury is considerable, they form a kind of paste.

AMALGAMATION, in chemistry, the operation of making an amalgam, or of mixing quicksilver with some metal, is performed by fusing, or at least igniting the metal, and in this state adding a proportion of mercury to it; upon which they mutually attract and incorporate with each other.

Of all metals, gold unites with mercury with the greatest facility; next to that, silver; then lead, tin, and every metal, except iron and copper, the last of which incorporates with quicksilver with great difficulty, and the former scarce at all.

The amalgam of gold is thus made: take a dram of the regulus of gold, beat it into very thin plates, and upon thefe, heated in a crucible red hot, pour an ounce of quicksilver; stir the matter with an iron rod, and when it begins to fume, cast it into an earthen pan filled with water, and it will coagulate and become tractable. Gold will retain about thrice its weight of mercury.

To make an amalgam of lead: melt clean lead in an iron ladle, add to it an equal weight of melted mercury, stir them together with an iron rod, then let them cool; and you will have an uniform mass of a silvery colour, somewhat hard, but growing softer and softer by triturating. Put this mass into a glafs mortar, grind it, and mix with it any quantity of mercury at pleasure, and it will unite with it, as salt with water.

The amalgam of tin is made exactly in the same manner, and this also may be diluted by the addition of mercury.

To have an amalgam of copper: take a solution of pure copper, made in aqua fortis, so strong that the aqua fortis could dissolve no more of the metal; dilute the solution with twelve times its quantity of fair water; heat the liquor, and put into it polished plates of iron, and the copper will be precipitated in a powder to the bottom, while the iron will be dissolved; proceed thus till all the copper is fallen, pour off the liquor, wash the powder with hot water, till it becomes perfectly infipid; then dry the powder, and grind it in a glafs mortar with an equal weight of hot quicksilver, and they will unite into an amalgam, which will also receive a further addition of mercury.

An amalgam of copper in any other way is very difficult to make. Pure silver precipitated from aqua fortis, may in the same manner be made into an amalgam.

From these operations we may perceive, that the making of amalgams is the foundation of the art of gilding, both in gold and silver, and that metals by that art may be mixed, confounded, and secretly concealed among one another.

AMALGAMATION is also used by some in a lea proper fene, for a solution of sulphur with mercury.

AMALOZQUE, in ornithology, the name of a water-fowl, of the size of a turtle, but without webbed feet; common about the lakes and rivers of Mexico.

AMAN, a port of Africa, in the kingdom of Morocco, upon the Atlantic ocean, between cape Ger and cape Cantin.

AMAN is also the name of a kingdom near the middle of the island of Sumatra, in the East-Indies.

AMANCE, a town of Lorraine, situated in 6° 10' east longitude, and 48° 40' north latitude, about seven miles north-east of Nancy.

AMAND, or St. Amand, the name of two towns; one situated in the duchy of Bourbon, in the province of Lyonois, in France; and the other in French Flanders, about six miles north of Valenciennes.

AMANTEA, a sea-port town and bishop's see of the kingdom of Naples, situated near the bay of Euphemia, in the province of Calabria, in 16° 20' east longitude, and 39° 15' north latitude.
AMAPALLA, a sea-port town of Mexico, in the province of Guatimala, situated on the Pacific ocean, in $93^\circ$ west longitude, and $12^\circ30'$ north latitude.

AMARACUS, among ancient botanists, &c. a name given to the sweet marjoram. See the article MARJORAM.

AMARANTA, or AMARANTE, an order of knighthood, instituted in 1653, by Christina queen of Sweden, in memory of a masquerade, wherein she had assumed that name, which signifies unfading, or immortal. Her nobility likewise assumed different characters, viz. of gods, goddesses, shepherds, nymphs, &c. and so well pleased was the queen with the diversion, that she instituted this order in memory of it, consisting of sixteen lords and as many ladies, with the motto dolce nella memoria.

AMARANTH, amaranthus, in botany, the name of a genus of plants, sometimes called prince's-feather, the flower of which is roaceous, and its fruit an oval or roundish fruit. See plate XV. fig. 1.

AMARANTHUS, amaranthus, in botany, a distinct genus of plants, with flofculous flowers collected into a squamos head, and a roundish fruit. See plate XV. fig. 2.

AMATITLAN, a town of north America, situated in the valley of Mixco, in the province of Guatimala.

AMAZON, AMAZONS, in a more limited sense, were an antient nation of women, inhabiting that part of leffer Asia now called Amaia. See the article AMASIA. The Amazons are said to have killed all their male children, and to have cut off their name, who are represented as fighting for martial exercises. The existence, however, of such a nation is controverted by many judicious authors, and defended by others, particularly Mr. Petit, who has published a dissertation on the subject, wherein are several curious inquiries concerning their arms, dress, &c.

We also read of Scythian Amazons, of German Amazons, of Lybian Amazons, and Amazons of America, living on the banks of the great river which bears their name, who are represented as governed by a queen, no men being permitted to live among them; only, at a certain season, those of the neighbouring nations are suffered to visit them, for the
fake of procreation. The Amazons of Lybia are famous for their wars with another female nation, called Gorgons. See the article GORGONS.

On medals, the buff of the Amazons is ordinarily represented armed with a little battle-ax, called by the Romans biceps, or securis, which they carried on their shoulder, with a small buckler in form of a half moon, distinguished by the name of pelta, upon their left arm.

AMAZONS, in a figurative sense, an appellation given to bees, as being governed by a queen. See the article Bee.

AMAZON, in geography, a great river of south America, which rising in Peru, near the equator, runs eastward a course of more than three thousand miles; and, like other rivers between the tropics, annually overflows its banks, at which season it is about one hundred and fifty miles broad, where it falls into the Atlantic ocean.

AMAZONIAN, in a general sense, denotes something belonging to the Amazons. See the article AMAZON.

AMAZONIAN, amazonius, among ancient physicians, an epithet given to a troch, which is prepared of the seeds of smal-lage and anife, the tops of wormwood, myrrh, pepper, opium, castor, and cinnamon. It is generally called the Amazon's troch, and is prescribed for pains of the stomach, and bilious vomitings.

AMBA, in botany, a name given by J. Bauhin to the mango-tree. See the article MANGO-TREE.

AMBACHT, a term used in some parts of Germany and Flanders, for the magistracy of a city, or the district or territory belonging to it.

AMBADOR, a city of Africa, in the upper Ethiopia, situated upon the Nile, between the provinces of Darnbeca and Savea.

AMBAGES, an idle circumlocution, or vain connecting together of words and sayings, remote from the true purpose of the speaker. See CIRCUMLOCTION.

AMBAMARJAM, or AMBARA, the capital city of Abyssinia, or higher Ethiopia, situated on the side of a lake, out of which the river Nile issues; in 35° east longitude, and 13° south latitude.

AMBARVALIA, in antiquity, a ceremony among the Romans, when, in order to procure from the gods an happy harvest, they conducted the victims thrice round the corn-fields in procession, before sacrificing them.

Ambarvalia were either of a private or public nature: the private were performed by the master of a family, and the public by the priests who officiated at the solemnity, called fratres arvales.

The prayer preferred on this occasion, the formula of which we have in Cato, de Re Rust. cap. cxlii. was called carmen ambarvalae.

At these feasts they sacrificed to Ceres a sow, a sheep, and a bull or heifer, whence they take the name of suovetaurilia.

The method of celebrating them was, to lead a victim round the fields, while the peasants accompanied it, and one of their number, crowned with oak, hymned forth the praises of Ceres, in verses composed on purpose.

This festival was celebrated twice a year, at the end of January, according to some, or in April, according to others; and for the second time, in the month of July: but we have nothing certain as to the particular day.

AMBARVALIS FLOS, in botany, a name by which some authors call the polygona, or milk-wort. See POLYGALAE.

AMBASSADOR, the same with embassador. See the article EMBASSADOR.

AMBE, among surgeons, an instrument for reducing dislocated bones, consisting of a horizontal lever, moved by a hinge, upon a vertical standard, or foot.

This is the ambe of Hippocrates, which being found inconvenient, new improvements of it have been made. See the article LUXATION.

AMBE, among anatomists, a term used for the superficial jutting out of a bone. See the article BONE.

AMBER, fictum, or eletrum, in natural history, a pellucid and very hard inflammable substance, of one uniform structure, of a bituminous taffe, of a very fragrant smell when rubbed, and highly endowed with the property from it called electricity.

Origin and nature of Amber. Naturalists have been extremely in the dark about the origin of amber: some have maintained it an animal substance, others take it for a resinous juice oozing from poplars and firs, frequent on the coasts of Prussia, where it is found in great abundance. But the generality of authors contend for its being a bitumen, which trickling into the sea from some subterraneous sources, and then mixing with the vitriolic salts which abound in those parts, becomes congealed and fixed; the result
refult of which congelation is amber.

However, as good amber is found in
digging at a great distance from the sea,
it is most probable that it is wholly of
mineral origin, and is a bitumen, once
liquid, of the *napthia* or *petroleum* kind,
hardened into its present state by a mineto
ral acid, of the nature of spirit of sulphur,
or oil of vitriol; more especially as these
substances abound in the earth, and an
artificial mixture of them produce a body ve-
ry much like native amber, and affording
all its principles on a chemical analysis.
The natural colour of amber is a fine pale
yellow, but it is often made white, fome-
ous bodies. Sometimes it is tinged with
hardened into its prefent
ral

yellow, is into a dufky brown.

The fossils we know, is soluble in fpirit of
fubll:ances

and

a ftyptic

substances

no eifervefcence with acids; and when
rubbed fo as to heat, it will
bits of paper, or any other light fubftance,
peculiar fragrant

form; the oils greatly

oil of

amber,
(500,1184),(561,1217)

\[ \text{AMBERGREASE, or AMBERG} \]

\[ \text{AMBER, in geography, a river,}\]

\[ \text{AMBER-WEED, a name fometimes ufed for}\]

\[ \text{AMBER, in a river, which,}\]

\[ \text{AMBERGRISE. or AMBERGREISE,}\]

\[ \text{AMBERGRISE, ambra grifa, in natural hiftory, a so-
olid, opaque, and fragrant fubfance, of a}
greyiih or afh colour, and melting almof-
like wax.}\]

\[ \text{Nature and origin of AMBERGRISE. The}\]

\[ \text{opinions concerning the nature and ori-

in of ambergrife are as various as those}

relating to amber. Some take it for the
excrement of a bird, which being diffolv-
ed by the heat of the fun, and
washed off the shore by the waves, is swelled by
whales, who return it in the condition we
find it. Others fuppofe it a fpongy earth,
washed into the sea, where it floats, be-
ing lighter than the water. Others ima-
gine it a fort of gum, which exudating
from trees, drops into the sea, and con-
going into ambergrife: Others contend
for its being formed from honey-combs,
which fall into the sea from the
rocks where the bees had formed their
nels. And, laftly, others will have it a fort of
bituminous juice, which springs out of
the bottom of the sea, as *napthia* does
out of fome fprings, and there thickens and
hardens. But the later writers have referred
it to the mineral kingdom, to which, in all
probability it belongs, being a frothy and
light bitumen exudating out of the earth
in a fluid form, and distilling into the
sea, where it hardens, and floats on the
surface, or is thrown upon the shore.

Ambergrife is found on the sea-coafs,
particularly thofe of Africa, from the
Cape of Good-hope to the

red-ic, in
humps sometimes very large, in the middle
of which we frequently meet with ftones,
shells and bones.\]

\[ \text{Properties, preparations, and ufe of AM-
BERGRISE. Ambergrife is a coarfe ir-
regular} \]
regular substance, of a lax incoherent texture, remarkably light, so as not to sink in water, of a rugged surface, very soft and fatty, and when moist pure and perfect is of a light grey colour, a strong scent, and being pricked with a hot needle yields an odorous smell. It is neither soluble, nor makes the least effervescence with any acid. It melts very freely over a fire, into a kind of yellow rosin. It is inflammable, and burns with a bright whitish flame; and is soluble in spirit of wine, which, however, does not take up its whole substance, but always leaves a remainder in form of a black bituminous matter. On analysis it yields by distillation, first a quantity of insipid phlegm, then an acid spirit with a yellowish oil, and a small portion of an acid salt. Ambergris is much used by perfumers, in giving a rich sweet odour in mixture, especially with musk. In medicine it is a very high cordial, of great use in convulsions, with us; and in the eastern nations is in great repute as a provoking to venery, and a prolonger of life. The only preparation of ambergris in use, is its tincture or essence, which has all the virtues of the ambergris in substance.

AMBERING, a term used by some writers for giving the scent of amber to any thing.

AMBERT, a city of France, in the lower Auvergne, remarkable for its manufactures in paper and camlets.

AMBETTUWAY, in botany, the name of a tree, the leaves whereof being boiled in wine, are said to create an appetite; and used by the people of Guinea with that intention.

It is not known to what genus this tree belongs, we having no other description of it, but that its leaves are rough, and resemble those of the elm both in shape and size.

AMBIA, a kingdom of Ethiopia, situated between the Nile and a river which riles out of the lake Zaffan.

AMBIDEXTER, a person who can use both hands with the same facility, and for the same purposes, that the generality of people do their right hands.

Were it not for education, some think that all mankind would be ambidexters; and, in fact, we frequently find nurses obliged to be at a good deal of pains before they can bring children to forego the use of their left hands. It is the more pity, that any of the gifts of nature should be thus rendered in a great measure useless, as there are many occasions in life which require the equal use of both hands: such are the operations of bleeding in the left arm, left ankle, &c.

AMBIDEXTER, among lawyers, a juror or embracer, who accepts money of both parties, for giving his verdict; an offence for which he is liable to be imprisoned, forever excluded from a jury, and to pay ten times the sum he accepted of. See the article DECIUS TANTUM.

AMBIEGNÉ, in the heathen sacrifices, an appellation given to such ewes as, having brought forth twins, were sacrificed together with their two lambs, one on each side. We find them mentioned among other sacrifices to Juno.

AMBIENT, a term used for such bodies, especially fluids, as encompass others on all sides: thus, the air is frequently called an ambient fluid, by reason it is diffused round all terrestrial bodies.

AMBIGENAL HYPERBOLA, a name given by Sir Isaac Newton to one of the triple hyperbolas of the second order, having one of its infinite legs falling within an angle formed by the asymptotes, and the other falling without. See HYPERBOLA.

AMBIEIS, a city of France, three leagues from Rouanne, and fifteen from Lyons, on the borders of the Lionnois.

AMBIGUITY, in rhetoric and grammar, a defect of language, whereby words are rendered ambiguous. See the next article.

AMBIGUOUS, a term applied to a word or expression which may be taken in different senses. See EQUIVOCAI.

The responses of the ancient oracles were always ambiguous. See ORACLE.

AMBILLON, a village of France, in Touraine, where there is a great quarry for millstones.

AMBIT, ambitus, in geometry, is the same with what is otherwise called the perimeter of a figure. See PERIMETER.

AMBITION, ambitios, is generally used in a bad sense, for an immoderate or illegal pursuit of power. In the strict meaning, however, of the word, it signifies the same with the ambitus of the Romans. See the next article.

AMBITUS, in roman antiquity, the setting up for some magistracy, or office, and formally going round the city to solicit the interest and votes of the people.

On these occasions it was not only usual to solicit the interest of their friends and others, with whom they were personally acquainted; but the candidates, being attended
tended by persons of an extensive acquaintance, who suggested to them the names of the citizens, and thence called *nomenclatorum, or interpretis,* made their application to all they met. This method of suing for offices was deemed allowable, and therefore never prohibited by law; but to restrain all undue influence, whether by bribery, or by exhibiting games, shews, and the like, many laws were enacted, and severe fines imposed.

**AMBLE**, in horsemanship, a peculiar pace by which a horse's two legs of the same side move at the same time. Many methods have been proposed to bring a young horse to amble: some try it by new ploughed fields; some endeavour to bring him to amble from the gallop; and many use weights: some attempt to procure an amble in hand, ere they mount his back; others, by the help of hind shoes, made on purpose; others, by folding fine soft lifts about the gam-brels of the horse; and others, by the tramel. All these methods, however, are attended with great danger to the horse; and the best way is to try with the hand, by a gentle deliberate racking of the horse, by helping him in the weak part of the mouth with a smooth, big, and full snaffle, and correcting him first on one side, then on the other, with the calves of your legs, and sometimes with a spur.

**AMBLETEUSE**, a small sea-port town by which a horse's two legs of the same side move at the same time. Many methods have been proposed to bring a young horse to amble: some try it by new ploughed fields; some endeavour to bring him to amble from the gallop; and many use weights: some attempt to procure an amble in hand, ere they mount his back; others, by the help of hind shoes, made on purpose; others, by folding fine soft lifts about the gam-brels of the horse; and others, by the tramel. All these methods, however, are attended with great danger to the horse; and the best way is to try with the hand, by a gentle deliberate racking of the horse, by helping him in the weak part of the mouth with a smooth, big, and full snaffle, and correcting him first on one side, then on the other, with the calves of your legs, and sometimes with a spur.

**AMBLETEUSE**, a small sea-port town situated about five miles north of Boulogne.

**AMBLYGON** and **AMBLYOPY**, *amblygonium,* in geometry, denotes an obtuse-angled triangle, or a triangle, one of whose angles consists of more than ninety degrees.

**AMBLYOPY**, *a·melopias,* among physicians, denotes the name with *gutta ferena.* See the article *Gutta ferena.*

**AMBRO**, or **AMBON,** in ecclesiastical antiquity, a kind of pulpit, or reading-deck, where that part of the divine service called the gradual, was performed. See the article **GRADUAL.**

Beside the gospel, which was read at the top of the ambo, and the epistle, which was read a step lower, they likewise published from this place the acts of the martyrs, the commemoration of departed saints, and the letters of peace and communion, sent by one church to another: here too converts made a public profession of their faith; and bishops, their defence, when accused: treaties also were sometimes concluded, and the coronations of emperors and kings performed in the same place.

**AMBOHETSMENES,** a province in the island of Madagascar, near the mountains of the same name.

**AMBONOCLASTES,** a term used by Mr. Thiers for the demolishers of the ambos, formed, no doubt, in imitation of *iconoclastes.* See *ICONOCLASTES.*

He thinks it a pity, that fo-ornamental, as well as commodious a part should have been dilapidated. See AMBO.

**AMBONUM**, a term which seems to be only a corruption of *ambus,* used by some naturalists for the prominences on certain stones, as the *oculus beli.* See the article *OCULUS BELI.*

**AMBOINA,** an island of the East-Indies, lying between the Molucca islands and those of Banda, in 116° east longitude, and 5° 40' south latitude. In this island, which is about seventy miles in circumference, the Dutch have a strong fort, garrisoned by seven or eight hundred men. What makes it the more remarkable, is the cruel usage and expulsion of the English factors by the Dutch, in the reign of king James I.

**AMBOSINE,** a province of Africa, in the kingdom of Benin.

**AMBOTE,** a town of Poland, in Samogitia, upon the river Wardaria, two polished miles from Siade, and nine from the Baltic sea.

**AMBOULE,** a large country in the island of Madagascar, to the north of Carcassoffi.

**AMBOULE** is also the name of a considerable village in that country.

**AMBOURNAY,** a small town of France, upon the river Ain, on the road from Lyons to Geneva.

**AMBRA,** or **AMBRA-GRISIA,** in natural history, the same with *ambegrise.* See the article *AMBERGRISE.*

**AMBRASI,** a river of Africa, which, after washing the kingdom of Congo, falls into the ethiopian ocean.

**AMBRES,** a city of France, in the upper Languedoc, in the diocese of Cautres.

**AMBRESBERRY,** a market-town in Wiltshire, about six miles north of Salisbury.
bury, and situated in 1° 46' west longit. and 51° 20' north latitude.

**AMBROSE**, or **St. AMBROSE in the rosary**, an order of religious, who use the ambrosian office, and wear an image of that faint engraven on a little plate: in other respects they conform to the rule of the augullins. See **AMBROSIAN OFFICE**, and **AUGUSTINS**.

**AMBROSIA**, in heathen antiquity, denotes the solid food of the gods; in contradistinction from the drink, which was called nectar. See the article **NECTAR**.

It had the appellation ambrosia, as being supposed to render those immortal who fed thereon. However, Lucian makes himself merry at the expense of this plant, which takes its name from Bacchus, who in his notes the solid food of the gods, compote of several small infundibuliform flowers, composed of several small infundibuliform flowers, divided into five segments: these, however, are barren; the fruit, which in some measure resembles a club, growing on other parts of the plant. See plate XV. fig. 3.

**AMBROSIA** is also an appellation given to certain medicines, freed from their gruffer parts, and said to be possessed of extraordinary virtues; in which sense it amounts to much the same with quintessence. See the article **QUINtEssENCE**.

**AMBROsia**, among antient naturalists, a term used for the rough or crude wax, supposed to be the food of bees. See the article **WAX**.

**AMBROsia**, in grecian antiquity, a name sometimes used for a festival of Bacchus, otherwise called lenea. See the article **LENEXA**.

**AMBROSIA**, in botany, the name of a distinct genus of plants, with flo[ci]bulous flowers, composed of several small infundibuliform flo[ci]bules, divided into five segments: these, however, are barren; the fruit, which in some measure resembles a club, growing on other parts of the plant. See plate XV. fig. 3.

This genus belongs to the *monoecia-pentandra* class of Linnaeus.

It is of a repelling and astringent quality, revives the heart and brain, stops fluxes, and is prescribed both externally and internally.

**AMBROSIAN OFFICE**, in church-history, a particular formula of worship in the church of Milan, which takes its name from St. Ambrose, who instituted that office in the fourth century. Each church originally had its particular office; and when the pope, in after-times, took upon him to impose the roman office upon all the western churches, that of Milan sheltered itself under the name: and authority of St. Ambrose; from which time the ambrosian ritual has prevailed, in contradistinction from the roman ritual.

**AMBROSIN**, a coin formerly struck by the dukes of Milan, representing St. Ambrose on horseback, with a whip in his right-hand.

**AMBURUN**, in geography, the same with Embrun. See the article **EMBRUN**.

**AMBRY**, a place in which are deposited all utensils necessary for house-keeping. In the antient abbes and priories, there was an office under this denomination, wherein were laid up all charities for the poor.

**AMBURA Aë**, in roman antiquity, were immodest women, who came from Syria to Rome, where they lived by prostitution, and by playing on the flute: the word is derived from the syriac *abbub*, which signifies a flute; although others make it come from *am* and *Baiæ*, because these prostitutes often retired to Baiæ. According to Cruquius, these women used likewise to sell paint for ornamenting the face, &c.

**AMBUBEJA**, in botany, a name by which some call wild fury. See the article **CICHOREUM**.

**AMBUILA**, or **AMBOILA**, a country of Africa, in the kingdom of Congo, between the lake Aquelonde and St. Salvador.

**AMBULATION**, the same with walking. See the article **WALKING**.

**AMBULATION**, in surgery, a term given to the spreading of a gangrene or mortification.

**AMBULATORY**, a term applied to such courts as were not fixed, but removed sometimes to one place, sometimes to another: thus the court of parliament and court of king's bench were formerly ambulatory.

**AMBULATORY CONDITION**, among civilians, is such as cannot be fulfilled in the person of one, but of several heirs.

**AMBULATORY-WILL** is such a will as can be at any time revoked before the person's death.

**AMBURBIUM**, in roman antiquity, a procession made by the Romans round the city and *pomarium*, in which they led a victim, and afterwards sacrificed it, in order to avert some calamity that threatened the city.

Scaliger, in his notes upon Festus, will have the *amburbiun* to be the same with the ambrosiun; but Servius, upon the
third eclogue makes a distinction between them. See the article AMBARYALE.

AMBURY, or AMBURY, among farriers, denotes a tumor, wart, or swelling, which is soft to the touch and full of blood.

This disorder of horses is cured by tying a horse-hair very hard about its root; and when it has fallen off, which commonly happens in about eight days, stirring some powder of verdigris upon the part, to prevent the return of the complaint. If the tumor be so low, that nothing can be tied about it, they cut it out with a knife, or else burn it off with a sharp hot iron; and in finewy parts, where a hot iron is improper, eat it away with oil of vitriol, or white sublimate.

AMBUSCADE, or AMBUSH, in the military art, properly denotes a place where soldiers may lie concealed, till they find an opportunity to surprise the enemy.

AMBUSTION, anfhipha, among physicians, the fame with what we commonly call a burn. See the article BURN.

AMBÜY, a town of the aulfran Netherlands, in the province of Limburg, situated opposite to Meefricht, on the ealt side of the river Maeë, in 50° 45' east longitude, and 50° 46' north latitude.

AMEA, in botany, a plant with large slated leaves, which, being dried and powdered, are used by the natives of Guinea for stopping bleedings at the nose. It is not known to what genus of plants it belongs.

AMCAN, or AMICA, a city of Asia, in Media Potamia; the Arabian call it Darbeker, and the Turks Kara-Amed.

AMEDEWAT. See AMADAPAT.

AMEDIANS, amdtis, in church-history, a congregation of religious in Italy, so called from their profiting themselves amantes deum, lovers of God; or rather, amati dei, beloved of God.

AMEIA, in zoology, a kind of lizard, found in the Braňis, in all regions like the varaguira, except that its tail is said to be bifid; a peculiarity, which, without the most unexceptionable evidence, will hardly gain credit among the judicious or at all be attributed to some accident. See the article TARAGUIRA.

AMEL, a term frequently used by Mr. Boyle, in a synonymous sense with enameil. See the article ENAMEL.

AMELAND, an island of the United Provinces, in the German ocean, near the coast of Friesland, from which it is separated by a strait called the Wadt.

AMELEBURG, in geography, the same with Cumenburg. See the article OMMENBURG.

AMELIA, a city of Italy, situated on a mountain, about fifty miles north-east of Rome, in 13° 20' east longitude, and 42° 40' north latitude.

AMELLUS, in botany, a name used by antient authors for two very different plants, star-wort and marsh-marygold.

AMEN, in the scripture-language, a formula, or conclusion to all prayer, signifying so be it. The term amen is hebrew, being derived from the verb aman, i.e. to be true, faithful, &c. so that, strictly speaking, it signifies truth; and, used adverbially, is as frequently done in the gospel, truly or verily. Sometimes it is repeated twice together, and then it stands for the superlative, as amen, amen, dico vobis.

AMENABLE, or MAIMABLE, among lawyers, one that may be led or governed, a term commonly applied to a woman governable by her husband.

AMEND, or AMENDE, in the french custom, a pecuniary punishment imposed by a judge for any crime, false prosecution, or groundless appeal.

Amende honorable, an infamous kind of punishment inflicted, in France, upon traitors, Parricides, or sacrilegious persons, in the following manner: the offender being delivered into the hands of the hangman, his shirt is stripped off, and a rope put about his neck, and a taper in his hand; then he is led into court, where he must beg pardon of God, the king, the court, and his country. Sometimes the punishment ends here, but sometimes it is only a prelude to death, or banishment to the galleys.

Amende honorable is a term also used for making recantation in open court, or in presence of the person injured.

AMENDOLARA, a city of the kingdom of Naples, in the lither Calabria.

AMENDMENT, in a general sense, denotes some alteration or change made in a thing for the better.

AMENDMENT, in law, the correction of an error committed in a process, which may be amended after judgment, unless the error lies in giving judgment, for in that case it is not amendable, but the party must bring a writ of error.

A bill may be amended on the file at any time before the plea is pleaded; but not afterwards, without motion and leave of the court.
AMENDMENT, in a literary sense, denotes the correction of some impropriety in the first impressions of a book.

AMENDMENT of a 'bill', in Parliament, is some alteration made in the first draft of it. We even read of amendments of amendments. However, it is to be observed, that all amendments are made in the house, from whence the thing to be amended originally proceeded.

AMENDMENT, in husbandry, is used for the enriching of land by laying manure on it, otherwise called melioration. See the article MELIORATION.

AMENTACEOUS, in botany, an appellation given to such flowers as have an aggregate of summits hanging down in the form of a rope, or cat's-tail, which is also called an 'julus or catchin.' See plate XV. fig. 4.

AMENTUM, in Roman antiquity, a term of amendment, and for its effect. We even read of a murderer in the city of Philadelphia, given to the fore-finger in order to recover the weapon as soon as it was discharged. The antients made great use of the amentum, thinking it helpful to enforce the blow.

Amentum also denotes a latchet that bound their sandals.

AMERTUM, among alchemists, a term used to express 'sulfur' or alum. See the article AURUM.

AMERADE, the same with emir. See the article EMIR.

AMERCEMENT, or AMERICAN, in law, a pecuniary punishment imposed upon offenders at the mercy of the court. Amercements differ from fines, the latter being certain punishments growing expressly from some statute, whereas the former are imposed arbitrarily in proportion to the fault.

Besides, fines are ascribed by the court, but amercements by the country.

A court of record only can fine; all others can only amend. Sheriffs are amercable for the faults of their officers, and clerks of the peace may be amerced in the King's-bench for gross faults in indictments removed to that court.

A town is subject to amercement for the escape of a murderer in the day-time, and if the town is walled, it is subject to amercement whether the escape happens by day or night.

The statute of Magna Charta ordains, that a freeman is not to be amerced for a small fault, but in proportion to the offence, by his peers and equals.

AMERGO, or MERO, a city of Africa in the kingdom of Fez three leagues from Beni-Tadl.

AMERIA, in geography. See AMELIA.

AMERICA, one of the four grand divisions of the earth, otherwise called the West-Indies, is a vast continent lying between 86° north latitude, and 33° south latitude, and between 145° and 146° west longitude, bounded by the Atlantic Ocean, which separates it from Europe and Africa on the east, and by the Pacific Ocean, usually called the South Sea, which divides it from Asia, on the west.

This vast continent is divided into two peninsulas, called north and south America, and separated from each other by the isthmus of Panama.

America, sometimes called the new world, as being unknown to the antients, is possessed at present by the European nations. To Spain belong old and new Mexico, Florida, Terra Firma, Peru, Chili, Patagonia, or Terra Magellanica, Paraguay, and the islands Cuba, Hispaniola, Porto-Rico, and Trinidad. The Portuguese are masters of the extensive maritime country of Brazil. The British possess the provinces of Georgia, south and north Carolina, Virginia, Maryland, Pensylvania, the two Jerseys, New York, New England, New Scotland, New Britain, and the islands Jamaica, Barbadoes, St. Christophers, Newfoundland, &c. and lately, Hudson's-bay, or British Canada. The French claim all that extent of country, lying westward of the British plantations, and in possession of the islands of Curi, Martinique, Guadaloupe, &c. The Dutch are possessors of Surinam, and of some islands on the north coast of Terra Firma, as Curassow, Aruba, Bonaire, &c. And to Denmark belongs the island of St. Thomas. See the articles MEXICO, FLORIDA, &c.

AMERICAN, an appellation given to whatever belong to America. Thus, we lay, American colonies, American islands, &c.

AMERICIMA, in zoology, the name of a small Brazilian lizard, not above three fingers breadth long, and about the thickness of a swan's quill, generally esteemed poisonous.

AMERSFORT, a town of the Dutch Netherlands in the province of Utrecht, situated on the river Ems, about fourteen miles north-east of Utrecht, in 8° 20'. east longitude and 52° 25'. north latitude.
AMERSHAM, a market-town of Buckinghamsire, about twenty-seven miles westward of London. It is situated in 40°. west longitude, and 51°. 40' north latitude, and sends two members to parliament.

AMETHYST, *amethystus*, in the history of precious stones, a gem of a purple colour, which seems composed of a strong blue and a deep red; and according as either of these prevails, affording different tinges of purple, sometimes approaching to violet, and sometimes even fading to a pale rose-colour.

Though the amethyst be generally of a purple colour, it is nevertheless sometimes found naturally colourless, and may at any time be easily made so by putting it into the fire; in which pellucid, or colourless state, it so well imitates the diamond, that its want of hardness seems the only way of distinguishing it.

Some derive the name amethyst from its colour, which resembles wine mixed with water: whilst others, with more probability, think it got its name from its supposed virtue of preventing drunkenness; an opinion, which, however imaginary, prevailed to that degree among the antients, that it was usual for great drinkers to wear it about their necks.

Be this as it will, the amethyst is scarce inferior to any of the gems in the beauty of its colour; and in its purest state is of the same hardness, and at least of equal value with the ruby and sapphire. It is found of various sizes, from the bigness of a small vetch, to an inch and an half in diameter, and often to much more than that in length. Its shape is extremely various, sometimes roundish, sometimes oblong, and at others flattened, at least on one side; but its most common appearance is in a cristalliform figure, consisting of a thick column, composed of four planes, and terminated by a flat and short pyramid, of the same number of sides: or else, of a thinner and longer hexagonal column; and sometimes of a long pyramid, without any column. It makes the gayest figure in the list of these stones, but is hardest and most valuable in the roundish and pebble-like form.

The amethyst is found in the East and West-Indies, and in several parts of Europe; the oriental ones, at least some of the finer specimens, being so hard and bright, as to equal any of the coloured gems in value. However, by far the greater number of amethysets fall infinitely short of these, as all the European ones, and not a few of those brought from the East and West-Indies, are very little harder than common crystal.

Counterfeit or fallacious *amethyst* a kind of glass made of crystal frit, manganese, and zaffre; which, in colour, greatly resembles the natural amethyst.

AMETHYST, in heraldry, a term for the purple colour in the coat of a nobleman, in tie with those who blazon by precious stones instead of metals and colours. This in a gentleman's escutcheon is called Purpure, and in those of sovereign princes Mercury.

AMETHYSTINE, in a general sense, an appellation given to whatever partakes of the nature, or emulates the colour of the amethyst.

AMEY, a city of Savoy, situated in a plain upon the lake Nicy.

AMGAILA, or AMGAILAM, the name given by Arabian physicians to a prickly plant, called by the Greeks acanthara and Lymicina. See the article ACANTHE.

AMHAR, or AMHARA, a kingdom of Abyssinia in Africa, subject to the great Negus. It is bounded on the north by the kingdom of Bajemder; on the east, by that of Angote; on the south, by the kingdom of Walaca; and on the west, by the Nile, which separates it from the kingdom of Gojam. This country is remarkable for the mountains Glighen and Ambacel, where the children and near relations of the kings of Abyssinia were formerly confined, upon which account it is regarded as the native country of the modern emperors.

AMIA, in ichthyology, the name of a fish nearly of the shape of the common mackerel, only that it is much larger; being usually three feet in length. It is a species of scromber, with the last ray of the hinder dorsal fin very long. See the article SCOMBER.

AMIABLE, or AMICABLE numbers, such as are mutually equal to the sum of one another's aliquot parts, as the numbers 284 and 220. Van Schouten was the first who gave this name to such numbers, of which it is easily apprehended, there are but very few at least to be set down and manageable by us. For 284 and 220 are the two least, and the two next greater are 18416 and 17296.

AMI-
AMIANTHUS, in natural history, vulgarly called earth-lax, a fibrofe, flexible, and elastic mineral substance, composed of short and abrupt filaments. There are several species of amianthi; that of a greyish green colour, with short, abrupt, and interwoven filaments, is the same with the plumeous alum of the flops. See the article plumage ALUM. The properties of the am anthus are very wonderful. They will neither give fire with steel, nor ferment with aqua fortis; and if thrown into the fire, will endure the most extreme heat without the least injury to their texture. In medicine, they are used as an ingredient in pilothura, and are said to refit poifons, and to cure the itch. See the article Asbestos.

AMICABLE, in a general sense, denotes anything done in a friendly manner, or to promote peace. AMICABLE BENCHES, scenea amicabilia, in roman antiquity, were, according to Ptiticus, lower and less honourable seats allotted for the judices pedanei, or inferior judges, who upon being admitted of the emperors's council, were dignified by him with the title ami ci.

AMICABLE COMPOUNDER, amicabils compoundor, in some old law-books, the same with arbitrator. See ARBITRATOR.

AMICTIA, or tenure in AMICTIA, tenure in amictiam, in the feudal customs, were lands granted freely to be enjoyed only so long as the donor pleased. See the article TENURE.

AMICTUS, in roman antiquity, was any upper garment worn over the tunica.

AMICTUS, among ecclesiastical writers, the uppermost garment antiently worn by the clergy; the other five being the alba, fungulum, fitola, manipulus, and planeta.

The amictus was a linen garment, of a square figure, covering the head, neck, and shoulders, and buckled, or clasped, before the breast. It is still worn by the religious abroad.

AMICULUM, in roman antiquity, a woman's upper garment, which differed from the palla, as we learn from Livy; but in what that difference consisted, we are at a loss to know, unless that it was shorter than the palla. The amiculum was worn both by matrons and countezans. The amiculum worn by men resembled the chlamys or paludamentum.

AMICUS CURÆ, a law term, to denote a by-stander, who informs the court of a matter in law that is doubtful or misfaken.

AMIENS, the capital city of Picardy in France, situated on the river Somme, in east longitude 2°. 31'. and north latitude 49°. 50'. Amiens is a beautiful town, and a bishop's see, under the archbishop of Rheims. Here too is an university of considerable note.

AMIGDALUS, or AMYGDALUS, in botany. See the article AMYGDALUS.

AMYGDALUS, or AMGDALES, cotton cloths, which come from the East-Indies.

AMILICTI, in the antient chaldean theology, one of the triads of perifons in the third order of the divine hierarchy. See the article HIERARCHY.

AMINA, a city of Ethiopia in Africa, nine miles from Albcar.

AMINEUM CETUM, a vinegar so called, because it was made of the wine of Aminæ, a town of Campania in Italy.

AMIRANTE, in the spanish polity, a great officer of State answering to our lord high-admiral. See ADMIRAL.

AMISIA, or AMISSA, in geography. See the article AMASIA.

AMISS, or drawing AMISS, among sailors, a phrase importing the loss of liberty of swearing in any court. The punishment of a champion overcome or yielding in battle, of jurors found guilty in a writ of attainder, and of a person outlawed.

AMMA, or HAMMA, among surgeons. See the article HAMMA.

AMMA, among ecclesiastical writers, a term used to denote an abbes or spiritual mother.

AMMÆA, in geography. See AMED.

AMMAN, or AMMANT, in the german and belgic policy, a judge who has the cognizance of civil causes.

AMMANT is also used among the french for a public notary, or officer who draws up instruments and deeds.

AMMANNIA, in botany, the name of a genus of plants, belonging to the tetrandria monogynia class of Linnaeus; the flower of which is composed of four oval patent petals, growing within the cup; and its fruit is a roundish capsule covered by the cup, and containing four cells.

AMMERGAW, or AMMERLAND, a small territory
AMM, [126] AMN

The best ammoniac is always freed from drops, of a yellowish-colour without and white within, of a bitterish taste and caustor smell.

Ammonia is in great esteem with modern physicians. It attenuates and deluges, and therefore is prescribed in all distempers arising from grumes and vicinities, which prevent a due motion of the nervous fluid. It is found of vast service in asthma's, and infarctions of the lungs, in all nervous cases, and particularly those termed hysterical. Sometimes it is given in pills, but more usually in an emulsion of hydrops-water, which is called lac ammoniacum. It also enters into the composition of many topics as a suppurrative, and is sometimes used externally in plasters.

Sal Ammoniac, a kind of chemical salt, more usually called sal-ammoniac. See the article Armoniac.

Ammonitae, in natural history, the same by which some call a congeries of flatagmite. See Stalagmite.

AMMOCOETUS, in ichthyology, a name by which Gaffier calls the ammodytes, or sand-eel.

AMMOCHEOSIA, amnixesis, among ancient physicians, a kind of remedy for drying the body, which for that purpose must be laid upon the sand, and covered over with sand. The sand should be very hot, and of the sea, for that of rivers is too moist.

AMMOCHEYSOS, in natural history, the same by which some call the ammonites, or mica, with gold-coloured spangles. See Mica.

Reduced to powder, it is used to fire over writing.

AMMODYTES, the sand-eel, in ichthyology, a genus of malacophtygeous fishes. See Plate XVI. fig. 1.

It has got the appellation ammodytes, from its diving into, or burying itself under the sand.

AMMON, or Hammon, in heathen antiquity. See the article Hammon.

Curna Ammonis, in natural history, the same with the ammonites, or snake-stones. See Cernua Ammonis, and Snake-Stone.

AMMONIAC, or Gum-Ammoniac, in the materia medica, a gum, or more properly a gum-resin, extracted from a fernaceous plant growing in some parts of Africa and Asia. It is brought to us in drops or granules, and sometimes in large mases, composed of a number of these granules connected together by other matter of the same kind.

The best ammoniac is always freed from droops, of a yellowish-colour without and white within, of a bitterish taste and caustor smell.

Ammonia is in great esteem with modern physicians. It attenuates and deluges, and therefore is prescribed in all distempers arising from grumes and vicinities, which prevent a due motion of the nervous fluid. It is found of vast service in asthma's, and infarctions of the lungs, in all nervous cases, and particularly those termed hysterical. Sometimes it is given in pills, but more usually in an emulsion of hydrops-water, which is called lac ammoniacum. It also enters into the composition of many topics as a suppurrative, and is sometimes used externally in plasters.

Sal Ammoniac, a kind of chemical salt, more usually called sal-ammoniac. See the article Armoniac.

AMMONITAE, in natural history, the same with the curna ammonis, or snake-stones. See Curna Ammonis, and Snake-Stones.

AMMUNITION, a general term for all warlike provisions, but more especially powder, ball, &c.

Ammunition, arms, utensils of war, Gun-powder, imported without licence from his majesty, are, by the laws of England, forfeited and triple the value.

And again, such licence obtained, except for furnishing his majesty's public stores, is to be void, and the offender to incur a pramunire, and be disabled to hold any office from the crown.

AMMUNITION BREAD, SHOES, &c. such are served out to the soldiers of an army or garrison. The if.

Whoever is curious to know the quantity of ammunition necessary for the siege of a place, may consult the chevalier de St. Julien's treatise de la forge de Vincain; and the quantity requisite for the defence of a place, will be found in Suirey de St.Remy's memoires d'artillerie.

AMNA, among ancient physicians, denotes water found in limy soils, and otherwise called amnis alcalifatus. See the article Amnis.

AMNETSY, amnesia, in matters of policy, an act by which two parties at variance, promise to pardon and bury in oblivion all that is past. See Oblivion.

Amnesty is either general and unlimited, or particular and restrained, though most commonly universal without condition or exceptions; such as that which passed
in Germany at the peace of Osnaburg in the year 1648.

**AMNESTY**, in a more limited sense, denotes a pardon granted by a prince to his rebellious subjects, usually with some exceptions: such was that granted by Charles II. at his restoration.

**AMNIMODAR**, in astrology, denotes the planet which refines a nativity, or rather the method of doing it.

**AMNIOIDAE**, in anatomy, a thin pellicul. membrane, which surrounds the foetus. The amnios is an interior membrane contiguous to the exterior one called the chorion, having no vessels, or at the utmost very few; and contains a pellicul glutinous liquor which flows out upon the breaking of this membrane at the time of delivery.

With regard to the liquor inclosed in the amnios, the famous Harvey thought it absolutely nutritious both from its taste and confidence, but later anatomists have disproved that doctrine, and have shown that the use of that liquor is to prevent the weight of the child, and the inequalities of its body from bearing hard upon the neck of the uterus; to defend the child from receiving hurt when it moves, and also to prevent it from adhering to the uterus.

**AMNIS ALCALISATUS**, among some naturalists, is used for water impregnated with an alcaline quality, by passing through a limy, or other alcaline substances. See the article **ALKALI**.

**AMOER**, in geography, the name of Amour. See **AMOUR**.

**AMOER** is also an island situated east from Niuilham, and north-west from the land of Yello.

**AMNITES**, a corruption of ammites. See the article **AMMITES**.

**AMOEBAEUM**, **AMOEBAEUS**, in ancient poetry, a kind of poem, representing a dispute between two persons, who are made to answer each other alternately: such are the third and seventh of Virgil's eclogues.

**AMOL**, a city of Thabaristan in Asia upon the Gihu. See the article **GIHUN**.

**AMOMI**, a name used by the Dutch for jamaica-pepper. See **PEPPER**.

**AMOMUM**, in the materia medica, the name of a species of funum, an aromatic plant, the seed whereof is a powerful diuretic, and aperient; and, consequently, esteemed good in nephritic cases, obstructions of the vili, and suppression of the men. See the article **SIMUM**.

As to the amomum of the antients, it is a congeries of round membranaceous fruits the external coats of which are striated like those of the cardamoms, but not tough like them. They have no pedicel, but are affixed by their bases to a wooden stem of a fibrous texture, aromatic smell, and acid taste. The flowers are like those of leucovium, and the leaves like those of briony.

The best amomum is that which is white or reddish, of a diffused substance, with pods full of seed, ponderous and fragrant.

**AMORBACH**, a small city of Franconia in Germany, belonging to the elector of Mentz.

**AMORE**, in ichthyology, the name of a genus of brazilian fishes, of which there are three species. 1. The amore-guaçu. 2. amore-tenga. 3. amore-pixuma. The amore-guaçu is about half a foot long, with a pretty thick head, and large gills. It has seven fins, an oblong tail rounded at the extremity, and is covered with very large scales. This fish is altogether of a darkish colour, except in the belly, where it is a little more white.

The amore-tenga is of the same figure with the former, but less. Its scales are white and stained with black spots. The amore-pixuma is as large as the tomarata, and resembles that fish very much. Its colour is very dark, except in the belly.

**AMORGOS**, an island of the archipelago, about ninety miles north of Candia, lying in-east longitude 26° 13', and north latitude 37°.

**AMORPHA**, in botany, a genus of plants, belonging to the diadelphus decandria class of Linnaeus; the flower of which consists of one petal vertically ovated, hollow and erect; and the fruit is a lunate pod, of a compressed form, and covered with tubercles, in which are contained two seeds, of an oblong kidney-like shape.

**AMORTIZATION**, in law, the alienation of lands or tenements to a corporation or fraternity, and their successors. See the article **MORTMAINE**.

Amortization also denotes the privilege of taking lands, &c. in mortmain, for which purpose the king's consent must first be obtained. This licence is granted upon paying to the king and the superior a certain sum to indemnify them for several incidental dues, which in the com-
A M P [ 1 2 8 ] A M P

mon way would have fallen to them, but by the amortization are cut off.

AMOSSON, a river of France, in the province of Languedoc.

AMOVING, the act of expelling a person from his place or office. There is a statute for amoving papists from London and Westminster, and ten miles round them.

AMOUR, a large river of Asia, which, arising in Siberia, runs eastward through Chinese Tartary, and falls into the bay of Corea in the Indian ocean.

AMOV, an island on the south-west coast of China, situated in east longitude 118°, north latitude 25°.

AMPANIA, in botany, the name used in the hortus malabaricus for the borassus of Linneus. See Borassus.

AMPELIS, in zoology, a species of crow, of a chiefnut-brown colour with a ferruginous breast. This bird has a head of a bright, vivid, white flame. It is a native of Bohemia.

AMPELITES, in botany, the Greek name for the vine. See Vine.

AMPELITES, CANNEL-CoAL, in natural history, a solid, dry, opaque fossil, very hard, not fusible, but easily inflammable and burning with a bright, vivid, white flame. It is found in many parts of England, but particularly in a quarry near Alengon in France: it is of a very good black, tho' not near so deep and shining as jet, and slender legs of a bluish black colour. It is a native of Bohemia.

AMPELIS, in botany, the Greek name for the vine. See Vine.

AMPHIARTHROSIS, αμφιαρθρωσις, in anatomy, a term under which some moderns comprehend all those junctures of the bones, which have a manifest motion, and which differ from the several articulations of the diarthroses either in regard to their figure or motion. See the article Diarthrosis.

AMPHIBIOUS, among zoologists, an appellation given to a class of animals, which live part of their time in the water, and part of it on land. The distinguishing characters of this class, according to Linneus, are these: they have either naked or scaly bodies, and sharp-pointed fore-teeth, but without any grinders, or dentes malores: to which add, that they have no radiated fins.

To this class belong the tortoise, the frog-kind, and the lizard and serpent-kinds. See Tortoise, &c.

Anatomists observe, that the lungs of amphibious animals are so formed, that though respiration be necessary to them, yet it is not requisite to be performed at short intervals. Hence it is, that they can remain a long time under water without being suffocated, and many of them even a considerable part of their lives.

AMPHIBIOUS, in botany, a term sometimes applied to the plants, more usually called aquatic. See Aquatic.

AMPHIBLESTROIDES, in anatomy, a name by which some call the retina of the eye. See Retina.

AMPHIBOLIA. See the next article.

AMPHIBOLOGY, αμφιβολογία, in grammar and rhetoric, a term used to denote a phrase susceptible of two different interpretations. Amphibology arises from the order of the phrase, rather than from the ambiguous meaning of a word. Vossius rather chose to call this defect of language, amphibolia.

AMPHIBRACHYs, in ancient poetry, the name of a foot consisting of three syllables, whereof that in the middle is long, and the other two short: such is the word θυερέ.

AMPHICTYONS, αμφιχτιόνες, in Grecian antiquity, an assembly composed of deputies from the different states of Greece, and resembling, in some measure, the diet of the German empire. See the article Diet.

The amphictyons met regularly at Delphi, twice a year, viz. in spring and autumn.
AMPHIDRYON, AMPHIDROMIA, AMPHIMACER, AMPHIPOLIS, AMPHIPROSTYLE, AMPHISBÉNA, in AMPHITHEATRE, AMPHITANEA, as the word imports, have their shadows one part of the year towards the north, and at the other towards the south, according to the sun's place in the ecliptic. They are also called Ascii. See the article Ascii.

AMPHISMILA, among antient anatomists, a dissecting knife, with a double edge.

AMPHITANE, among antient naturalists, a stone said to attract gold, as the loadstone does iron. By the accounts they give of it, it appears to be the pyricbium of Dr. Hill; but neither this, nor any other stone, has any such virtue as they attributed to it.

AMPHIATAPA, in antiquity, a garment frized or shagged on both sides, which was laid under persons going to sleep.

AMPHITHEATRE, in antiquity, a spacious edifice built either round or oval, with a number of rising seats, upon which the people used to fit and behold the combats of gladiators, of wild beasts, and other sports.

Amphitheatres were at first only of wood, and it was not till the reign of Augustus, that Statilius Taurus built one for the first time of stone. The lowest part was of an oval figure, and called arena because, for the convenience of the combatants, it was usually floored with sand, and round the arena were vaults filed caves, in which were confined the wild beasts appointed for the fows. Above the caveæ was erected a large circular peristyle, podium, adorned with columns. This was the place of the emperors, senators, and other persons of distinction.

The rows of benches were above the podium. Their figure was circular, and they were entered by avenues, at the end of which were gates, called vomitoria. The most perfect remains we now have of antient amphitheatres, are that of Vespasian called the coliseum, that at Verona in Italy, and that at Nîmes in Languedoc. See the article Coliseum.

AMPHITHEATRE, in gardening, a temple of view, erected on a rising ground, of a semicircular figure.

These amphitheatres are formed of evergreens, observing always to plant the shortest growing trees in the front, and the tallest trees behind. They are also made of slopes on the sides
of hills, and covered with turf, being formerly esteemed great ornaments in gardens, but they are now generally excluded; as the natural slope of such hills is to persons of true taste, far more beautiful than the stiff angular slopes of these amphitheatres.

AMPHITHEATRE, in the antient churches was the veil or curtain, separating the chancel from the rest of the church.

AMPHITRITE, in zoology, the name of a small naked sea insect, of an oblong figure, with only one tentacleum, resembling a piece of thread. There are several species of this animal, some of which are margined, and variously furrowed, so as to bear some resemblance to a quill. See plate XVI. fig. 3.

AMPHODONTA, among antient zoologists, an appellation given to all such animals as have teeth in both jaws.

AMPHORA, in antiquity, a liquid measure, in use among the Greeks and Romans. See the article Measure. The roman amphora contained forty-eight sextaries, and was equal to about seven gallons one pint, english wine-measure; and the grecian, or attic amphora, contained one third more.

AMPHORA was also a dry measure, likewise in use among the Romans, and contained three bushels.

AMPHORA, among the Venetians, the largest measure used for liquids. It contains four bigorzas, the bigorza being four quarts, the quart four fachies, and each sachie four leras; but by wholesale, the amphora is fourteen quarts, and the bigorza three quarts and a half.

AMPHORA, in astronomy, a name sometimes used for one of the twelve signs of the zodiac, more usually called aquarius. See the article Aquarius.

AMPHOTIDES, in antiquity, a kind of armour or covering for the ears, worn by the antient pugilets, to prevent their adversaries from laying hold of this part.

AMPITHILL, a pretty town in the heart of Bedfordshire in England.

AMPLIATION, ampliation, in a general sense, denotes the act of inlarging or extending the compacts of a thing.

AMPLIATION, in roman antiquity, was the deferring to pass sentence in certain caufes. This the judge did, by pronouncing the word amplius; or by writing the letters N. L. for non liquet; thereby signifying, that as the cause was not clear, it would be necessary to bring farther evidence.

AMPLIFICATION, in rhetoric. See the article Exaggeration.

AMPLITUDE, in astronony, an arch of the horizon intercepted between the east or west point, and the center of the sun, or a planet at its rising and setting, and so is either north or south, or ortive and occifive.

The sun's amplitude, either rising or setting, is found by the globes, by bringing the sun's place to the horizon, either on the east, or west side, and the degrees from the east point, either north or south, are the amplitude required. To find the amplitude trigonometrically, say, as the coine of the latitude : radius : sine of the present declination : sine of the amplitude. This problem is useful in navigation, to find the variation of the compafs.

Magnetical Amplitude, the different rising or setting of the sun, from the east or west points of the compafs. It is found by observing the sun, at his rising and setting, by an amplitude-compafs.

AMPLITUDE OF THE RANGE OF A PROJECTILE, the horizontal line, subtending the path in which the projectile moved. See the article PROJECTILE.

AMPUlla, in antiquity, a round bigelled vessel, which the antients used in their baths, to contain oil for anointing their bodies. Ampulla was also a cup made of glass, and sometimes of leather, for drinking out of at table.

AMPUllaCÆ CONCHÆ, in natural history, a genus of shells, more usually called concha globosa and dolia. See the article Dolium.

AMPURIAS, a town of Spain, capital of the district of Ampozudan in Catalonia, and situated in east longitude 2° 54', and north latitude 42° 15'.

AMPUTATION, in surgery, the cutting off a limb, or other part of the body, with an instrument.

The amputation of limbs is as much as possible to be avoided, yet in many cases it is absolutely necessary to save the patient's life. Such as 1. When the muscles of the part, or limb, are fpaseolated. 2. When the muscles and bones are violently contused and shattered. 3. When there is an incurable caries, or fpina ventosa. 4. When a large artery is either totally divided, or fo wounded, that the hemorrage is not to be stopped without the danger of mortification.
When it is required on account of either of these cauæs to amputate a limb, the arm for example; two things must be observed: 1. The place where the amputation is to be made, which should be one or two fingers breadth above the injured part, and never in it. 2. The preparation of the several necessary instruments. The whole apparatus being provided, the patient, assistants, and surgeon being disposed in proper postures, and the tourniquet applied to the arm, the operation is begun by an annular incision made through the skin with a scalpel, upon which the skin is drawn upwards as much as possible. Then the flesh is divided down to the bones with the crooked scalpel, the ligaments between the ulna and radius are cut, and the periosteum are separated from the bones. The last step is to fix the saw so that it may work upon the bones of the cubitus at the same time. It must also be moved gently at the beginning, but when well entered, the motion may be faster. And thus in one or two minutes, the amputation may be completed.

The business, however, of the surgeon is not at an end here. He is to make a strict compression and deligation upon the larger arteries, to suppress the hemorrhage. This is done, by securing the larger arteries by ligature with needle and thread, and the smaller by square compresses of linten, and sometimes, as among the antients, by the actual cautery. The flesh and ends of the bones, likewise, are to be inwelted with doffils of dry lint, upon which a piece of the fungus called crepitus lupi, with a holter of tow, are to be fixed and retained on the stump by a wet bladder or plaster; so that the skin may be drawn down to cover the wound, and procure a speedy cicatrization. See the article WOUND.

AMRAS, a strong castle in the Tyrolean, east long. 12° 10', north lat. 47°.

AMSDORFIANS, in church-history, a sect of protestants, in the XVIIIth century, who took their name from Amstorf, their leader. They maintained, that good works were not only unprofitable, but even opposite and pernicious to salvation.

AMSEGGETES, in roman antiquity, those whole lands bordered upon a public road.

AMSTERDAM, a large and beautiful city of Holland, situated on the river Amstel, and an arm of the sea, called Wye, a little eastward of the Zuyder-sea, in 4° 39' east longitude, and 52° 20' north latitude.

It is computed to be half as big as London; and, in point of trade, equal to any town of the known world; there being people in it of almost every nation and religion of Europe, who apply themselves, with the utmost diligence, to heap up wealth, not with a view to enjoy it, but to have the pleasure of dying rich.

AMSTERDAM is also the name of a town of the Curacoens, in America: likewise the name of three isles, one of which lies in the Indian ocean, between New Holland and Madagascar; the second between Peru and the islands of Solomon; and the third in the Chinese sea, between Japan and the Island Formosa.

AMULET, a charm, or preservative against mischief, witchcraft, or diseases. Amulets were made of stone, metal, simples, animals, and, in a word, of every thing which fancy or caprice suggested; and sometimes they consisted of words, characters, and sentences, ranged in a particular order, and engraved upon wood, &c. and worn about the neck, or some other part of the body. See the article ABRACADABRA.

At other times they were neither written nor engraved, but prepared with many superstitious ceremonies, great regard being usually paid to the influence of the star. The Arabsians have given to this species of amulet the name of talisman. See the article TALISMAN.

All nations have been fond of amulets: the Jews were extremely superstitious in the use of them, to drive away diseases; and the Muins forbids them, unless received from an approved man, who had cured at least three persons before, by the same means.

Even amongst the christians of the early times, amulets were made of the wood of the crofs, or ribbands with a text of scripture written in them, as preservatives against diseases; and therefore the council of Laodicea forbids ecclesiastics to make such amulets, and orders all such as wore them to be cast out of the church.

AMULET, in cookery. See the article OMELET.

AMULETICS, among physicians, a term denoting all medicines which are amulets. See AMULET.

AMURCA, among antient physicians, a medicine prepared by boiling the remain or pieces of oil of olives to the con-
ANABAPTISTS, the behaviour of their brethren of Hindustan, beyone the Gangetic waters, near the lake Chiansai, on the borders of the kingdom of Kanduana. and learning: the Scaligeriana was the first book that appeared with a title in ano, and was afterwards followed by the Perroniana, Thuana, Naudeana, Menagiana, and even by Arlequiniana, in ridicule of all books in ano. The Menagiana are accounted the best.

ANABAPTISTS, in church-history, a sect of reformers, which sprung up in Germany, in 1521, immediately after the rise of lutheranism. At first, they preached up an entire freedom from all submission to the civil as well as ecclesiastical power; but the tenet from whence they take their name, and which they still maintain, is their re-baptism of all new converts to their sect, and condemning infant-baptism. Great troubles were occasioned in Germany by this sect; but of all places, where they prevailed, none suffered so much by them as the town of Munster. The anabaptists, however, of Holland and Friesland disapproved the seditious behaviour of their brethren of Munster: and, at present, though this sect still subsists as well in Britain as abroad, yet they no longer pretend to be divinely inspired, they no longer oppose magistrates, nor preach up a community of goods, &c.

The anabaptists support their principal doctrine upon those words of our Saviour, He that believeth, and is baptized, shall be saved. Now, as adults, or grown persons, are alone capable of believing, they argue, that none but adults are fit to be baptized. This doctrine is opposed by alleging the contrary practice of the primitive church, as well as from scripture, which tells us, that children are capable of the kingdom of heaven, and at the same time allures us, that, except a man be baptized, he cannot enter into the kingdom of God.
As for the anabaptists in England, they differ in very little from the other protestant dissenters, except their rejecting infant-baptism; as appears from their confession of faith, published in 1689.

ANABASII, in antiquity, expeditious couriers, who carried messages of importance, and travelled either on horseback, or in wheel-carriages. See the article COURIER.

They are mentioned by St. Jerome, in his third book against Rufinus.

ANABASIS, among physicians, denotes either the increafes or augmentation of a fever in general, or of any particular paroxysm.

ANABASIUS, among antiquity, the name of a plant otherwise called ephedra. See the article EPHEdra.

ANABATHRA, in antiquity, a kind of stones erected by the sides of highways, to affift travellers to mount their horses.

ANABIBAZON, in astronomy, a name given to the northern node of the moon, or dragon's head. See DRAGON'S HEAD.

ANABLATUM, in botany, the name of two small fins of the must of otherwis called DENTARIA. See the article DENTARIA.

ANABLEPS, in ichthyology, a genus of malacopterygious fishes, with six bones in the branchiopteryge membrane, and only two small fins at the extremity of the back. Of this genus there is only one known species.

ANACALYPTERIA, ANACALYPTERIA, in antiquity, a kind of little edifices adjacent to the churches, designed for the entertainment of strangers and poor persons.

ANACANTHUS, among botanists, the name of a distant genus of plants, called in English orpin. See the article ORPIN.

ANACANTHERIA, in ecclesiastical antiquity, a kind of little edifices adjacent to the churches, designed for the entertainment of strangers and poor persons.

ANACANTHIC, a name applied by the antients to that part of optics which treats of reflection, being the same with what is now called catoptrics. See the article CATOPTRICS.

It is also used with regard to echoes, which are founds produced by reflexion.

ANACANTHOS, in music, a term used by Martianus Capella, to signify what is otherwise called ductus revertens. See the article DUCTUS.

ANACARDINE CONFESSION, ANACARDINE CONFESSION, among physicians, a preparation of anacardiums, or molucca-beans, with mirobalans, pepper, cafforeum, refined fugar, laurel-berries, cyprus, coffee, and rocket; esteemed excellent in all cold disorders: also for strengthening the memory and understanding.

ANACARDIUM, in botany, the name by which two very distinct genuses of plants, the acajou, or cashew-nut-tree, and that which produces the molucca-beans, are called. See ACAJOU and MOLUCCA.

ANACATHARSIS, ANACATHARSIS, among physicians, denotes a discharge of noxious humour by purging; in which sense it stands contradistinguished from cathartics, or a purgation by stool.

ANACATHARTIC, in pharmacy, an appellation given to all such medicines as promote an anacatharsis; though some likewise comprehend emetics, erinthes, masticatories, &c. under this term. See the article EMETICS, &c.

ANACATHARTIC, in pharmacy, an appellation given to all such medicines as promote an anacatharsis; though some likewise comprehend emetics, erinthes, masticatories, &c. under this term. See the article EMETICS, &c.

ANACAPRIS, among physicians, denotes a discharge of noxious humours by purging; in which sense it stands contradistinguished from cathartics, or a purgation by stool.

ANACARTHETAC, in church-history, denotes a hermit, or solitary monk, who retires from the society of mankind into some desert, with a view to avoid the temptations of the world, and
and to be more at leisure for meditation and prayer.

Such were Paul, Anthony, and Hilary, the first founders of a monastic life, in Egypt and Palestine.

Anachorets, among the Greeks, consist principally of monks, who retire to caves or cells, with the leave of the abbot, and an allowance from the monastery; or who, weary of the fatigue of the monastery, purchase a spot of ground, to which they retreat, never appearing again in the monastery, unless on solemn occasions. They are sometimes called ascetae. See the article ASCETIC.

In the west, anchorites are extolled, by Peter Damian, as the most perfect sort of monks: they often amassed great riches, by the presents that were brought to them, out of regard to their piety; and all their wealth was bequeathed, at their death, to the monastery they had belonged to, in consequence of the permission to retire and live a solitary life.

ANACHRONISM, in matters of literature, an error with respect to chronology, whereby an event is placed earlier than it really happened, in which sense it stands opposed to parachronism. See the article PARACHRONISM.

ANACLASTICS, anaclastica, that part of optics which considers the refraction of light. See the article REFRACTION.

ANACLASTIC glasse. See GLASS.

ANACLETERIA, in antiquity, a solemn festival celebrated by the antients, when their kings or princes came of age, and assumed the reins of government. It is so called, because proclamation being made of this event to the people, they went to salute their prince during the anacleteria, and congratulate him upon his new dignity.

ANACLINOPALE, among the antient athletes, a kind of wrestling, performed on the ground; the combatants voluntarily throwing themselves down for that purpose.

ANACLINTERIA, in antiquity, those parts of the triclinar couches, on which a cussion was placed for supporting the head.

ANACOLLEMA, anacholæma, among physicians, a topical application to the head, to prevent defusions on the eyes, usually composed of astringent powders, as bole, dragon's-blood, &c.

ANACREONTIC VERSE, in antient poetry, a kind of verse, so called, from its being much used by the poet Anacreon. It consists of three feet and an half, usually spondees and iambuses, and sometimes anapests: such is that of Horace,

Lydia dic per omnes.

ANACRISIS, anaquris, among civilians, an investigation of truth, interrogation of witnesses, and enquiry made into any fact, especially by torture.

ANACURIUS, in geography, a people of Brazil in America.

ANADAVADÆA, in ornithology, a small bird of the East-Indies, about the size of the gold-crested wren, with the beak of the chaffinch, and feet of the lark.

ANADEMA, anaedma, in antiquity, denotes the fillet which the kings of Persia wore round their head.

Anadema denotes also a kind of ornament which women wore on their heads like a garland.

ANADIPLOSI S, anadiplose, in rhetoric and poetry, a repetition of the last word of a line, or clause of a sentence, in the beginning of the next: thus,

Pierides, vos habe faciebis maxima Gallio; Gallo, cujus amor, &c.

Et matutinis accredula vocibus infatias, Vocibus infatias, &c. See the article ANAESTHESIA.

ANADIPLOSI S, among physicians, the renewal of a cold fit, in a febile fever, before the fit is entirely ended.

ANADOLI, the name by which the Turks call Natolia. See NATOLIA.

ANADOLI HISSARI, a name given by the Turks to the castle of the Dardanelles, on the aiotic side.

ANADOSIS, anadosis, among antient physicians, denotes the distribution of the aliment over the body. See the article SANGUINIFICATION.

ANADROMOUS, among ichthyologists, a name given to all fish which, at fated seasons, go from the fresh waters into the sea, and afterwards return back again. Such are the salmon, and some other truttaceous fishes.

Anadromous fishes frequent rivers chiefly to deposit their spawn; which done, they return again to the sea: the young fry likewise make for the sea, where having acquired their full growth, they return into the fresh water, to lay their spawn.

ANÆDEIA, anædia, in grecian antiquity, a foil wherein the accursed perfume was placed to make his defence. See HYBRIS.

ANÆSTHESIA, anæsthesia, a term used by some physicians for a privation of sense.

ANAGALLIS, in botany, a genus of plants, belonging to the pantandra-mo-

nognia
ANAGLYPHICE, or ANAGLYPTICE, ANAGARSKAYE, ANAGNI, ANAGNOST, ANAGOGICAL, signifies mysterious, of the person or thing to which the name belongs: thus, from Galenus is formed Angelus: from James, Simea; and of others.

Those who adhere strictly to the definition of an anagram, take no other liberty than that of omitting or retaining the letter $N$, at pleasure; whereas others make no scruple to use $E$ for $X$, $V$ for $W$, $S$ for $Z$, and $C$ for $K$; and vice versa.

Besides anagrams formed as above, we meet with another kind in antient writers, made by dividing a single word into several; thus, *fus tinea mus* are formed out of the word *fuscineamus*.

Anagrams are sometimes also made out of several words; such is that on the question put by Pilate to our favour, *Quid est veritas?* wherein we have this admirable anagram, *vix. est vir qui ad*.

ANAGRAMMATIST, a person who composes or deals much in anagrams. See the preceding article.

ANAGROS, in commerce, a measure for grain used in some cities of Spain, particularly at Seville. Forty-six anagrams make about $\frac{1}{10}$ quarters of London.

ANAGYRIS, BEAN-TREFOIL, in botany, a genus of plants with papilionaceous flowers, the vexillum of which is shorter than any of the other petals, and its fruit an oblong pod, containing kidney-like seeds. To this it is to be added, that three leaves stand on every petal. It belongs to the *diadelphio-decandria* clafs of Linnaeus.

According to Lemery, the leaves of anagyris are laxative, and its seeds emetic.

ANALECTA, or ANALECTS, in antiquity, a servant whose chief business was to read to them during their leisure. They were taught to read with clearness, propriety, and good accent. They were in great credit under the emperor Claudius.

ANAGOGICAL, signifies mysterious, transporting, and is used to express whatever elevates the mind, not only to the knowledge of divine things, but of divine things in the next life, such as they pass, and will pass eternally between God and his saints. This word is seldom used, but with regard to the different senses of scripture. The anagogical sense is, when the sacred text is explained with a regard to eternal life, the point which Christians should have in view: for example, the rest of the sabbath, in the anagogical sense, signifies the repose of everlasting happiness.

ANAGOGY, or ANAGOG, among ecclesiastical writers, the elevation of the mind to things celestial and eternal. It is also an interpretation of a passage of scripture, by which the mind is raised to the consideration of these things. See the preceding article.

ANAGRAM, *anagamma*, in matters of literature, a transposition of the letters of some name, whereby a new word is formed, either to the advantage or disadvantage of the person or thing to which the name belongs: thus, from Galenus is formed Angelus: from James, Simea: and of others.

Those who adhere strictly to the definition of an anagram, take no other liberty than that of omitting or retaining the letter $N$, at pleasure; whereas others make no scruple to use $E$ for $X$, $V$ for $W$, $S$ for $Z$, and $C$ for $K$; and vice versa.

Besides anagrams formed as above, we meet with another kind in antient writers, made by dividing a single word into several; thus, *fus tinea mus* are formed out of the word *fuscineamus*.

Anagrams are sometimes also made out of several words; such is that on the question put by Pilate to our favour, *Quid est veritas?* wherein we have this admirable anagram, *vix. est vir qui ad*.

ANAGRAMMATIST, a person who compiles or deals much in anagrams. See the preceding article.

ANAGROS, in commerce, a measure for grain used in some cities of Spain, particularly at Seville. Forty-six anagrams make about $\frac{1}{10}$ quarters of London.

ANAGYRIS, BEAN-TREFOIL, in botany, a genus of plants with papilionaceous flowers, the vexillum of which is shorter than any of the other petals, and its fruit an oblong pod, containing kidney-like seeds. To this it is to be added, that three leaves stand on every petal. It belongs to the *diadelphio-decandria* clafs of Linnaeus.

According to Lemery, the leaves of anagyris are laxative, and its seeds emetic.

ANALECTA, or ANALECTS, in antiquity, a servant whose chief business was to read to them during their leisure. They were taught to read with clearness, propriety, and good accent. They were in great credit under the emperor Claudius.

ANAGOGICAL, signifies mysterious, transporting, and is used to express whatever elevates the mind, not only to the knowledge of divine things, but of divine things in the next life, such as they pass, and will pass eternally between God and his saints. This word is seldom used, but with regard to the different senses of scripture. The anagogical sense is, when the sacred text is explained with a regard to eternal life, the point which Christians should have in view: for example, the rest of the sabbath, in the anagogical sense, signifies the repose of everlasting happiness.

ANAGOGY, or ANAGOG, among ecclesiastical writers, the elevation of the mind to things celestial and eternal. It is also an interpretation of a passage of scripture, by which the mind is raised to the consideration of these things. See the preceding article.

ANAGRAM, *anagamma*, in matters of literature, a transposition of the letters of some name, whereby a new word is formed, either to the advantage or disadvantage of the person or thing to which the name belongs: thus, from Galenus is formed Angelus: from James, Simea: and of others.

Those who adhere strictly to the definition of an anagram, take no other liberty than that of omitting or retaining the letter $N$, at pleasure; whereas others make no scruple to use $E$ for $X$, $V$ for $W$, $S$ for $Z$, and $C$ for $K$; and vice versa.

Besides anagrams formed as above, we meet with another kind in antient writers, made by dividing a single word into several; thus, *fus tinea mus* are formed out of the word *fuscineamus*.

Anagrams are sometimes also made out of several words; such is that on the question put by Pilate to our favour, *Quid est veritas?* wherein we have this admirable anagram, *vix. est vir qui ad*.

ANAGRAMMATIST, a person who compiles or deals much in anagrams. See the preceding article.

ANAGROS, in commerce, a measure for grain used in some cities of Spain, particularly at Seville. Forty-six anagrams make about $\frac{1}{10}$ quarters of London.

ANAGYRIS, BEAN-TREFOIL, in botany, a genus of plants with papilionaceous flowers, the vexillum of which is shorter than any of the other petals, and its fruit an oblong pod, containing kidney-like seeds. To this it is to be added, that three leaves stand on every petal. It belongs to the *diadelphio-decandria* clafs of Linnaeus.

According to Lemery, the leaves of anagyris are laxative, and its seeds emetic.

ANALECTA, or ANALECTS, in antiquity, a servant whose chief business was to read to them during their leisure. They were taught to read with clearness, propriety, and good accent. They were in great credit under the emperor Claudius.

ANAGOGICAL, signifies mysterious, transporting, and is used to express whatever elevates the mind, not only to the knowledge of divine things, but of divine things in the next life, such as they pass, and will pass eternally between God and his saints. This word is seldom used, but with regard to the different senses of scripture. The anagogical sense is, when the sacred text is explained with a regard to eternal life, the point which Christians should have in view: for example, the rest of the sabbath, in the anagogical sense, signifies the repose of everlasting happiness.

ANAGOGY, or ANAGOG, among ecclesiastical writers, the elevation of the mind to things celestial and eternal. It is also an interpretation of a passage of scripture, by which the mind is raised to the consideration of these things. See the preceding article.

ANAGRAM, *anagamma*, in matters of literature, a transposition of the letters of some name, whereby a new word is formed, either to the advantage or disadvantage of the person or thing to which the name belongs: thus, from Galenus is formed Angelus: from James, Simea; and of others.

Those who adhere strictly to the definition of an anagram, take no other liberty than that of omitting or retaining the letter $N$, at pleasure; whereas others make no scruple to use $E$ for $X$, $V$ for $W$, $S$ for $Z$, and $C$ for $K$; and vice versa.

Besides anagrams formed as above, we meet with another kind in antient writers, made by dividing a single word into several; thus, *fus tinea mus* are formed out of the word *fuscineamus*.

Anagrams are sometimes also made out of several words; such is that on the question put by Pilate to our favour, *Quid est veritas?* wherein we have this admirable anagram, *vix. est vir qui ad*.
ANALEPSIS, among physicians, denotes the augmentation or nutrition of an emaciated body. Hence, ANALEPATICS, in pharmacy, are restorative medicines, proper to nourish the body when much weakened. See the article RESTORATIVES.

ANALOGICAL, in a general sense, denotes something belonging to, or partaking of the nature of analogy. Hence, ANALOGICAL SYLLOGISM is one whose force a language. See the article ANALOGY.

ANALYSTA, among civilians, denotes a tutor who is not obliged to give an account of his conduct. ANALOGY, anathyes, in matters of literature, a certain relation and agreement between two or more things, which in other respects are entirely different: thus the foot of a mountain bears an analogy to the foot of an animal, although they are two very different things.

There is likewise an analogy between beings that have some conformity or resemblance to one another: for example, between animals and plants, and between metals and vegetables; but the analogy is still stronger between two different species of certain animals. Analogy enters much into all our reasoning, and serves to explain and illustrate but not to demonstrate. Nevertheless, a great part of our philosophy hath no other foundation than analogy, the utility of which consists in superceding all necessity of examining minutely every particular body; for it suffices us to know, that every thing is governed by general and immutable laws, in order to regulate our conduct with regard to all similar bodies, as we may reasonably believe that they all are endowed with the same properties; thus, we never doubt that the fruit of the same tree has the same taste.

It is true, reasoning by analogy may sometimes induce to error: thus, the analogy between the constellation called leo, and the animal of that name, has given room to some astrologers to imagine that children born under that constellation were inspired with a martial spirit.

ANALOGY, among grammarians, is the correspondance which a word or phrase bears to the genius and received forms of a language.

ANALOGY of doctrine, among critics, is the explaining the passagge of an author, in a manner consistent with the system which he is known to have generally followed. And, nearly in the same sense, is ANALOGY of faith, among divines, the connection which subsists between the several articles of the christian faith, in contradistinction from reason on the one hand, and from authority and tradition on the other. Hence, by analogy of faith, all obscure passages of scripture are to be interpreted, agreeably to the general system clearly demonstrable from holy writ.

ANALOGY, in rhetoric, a figure of speech otherwise called comparison. See the article COMPARISON.

ANALYSIS, in a general sense, is the resolution of something compounded, into its constituent parts. Hence, ANALYSIS, among logicians, is a method of tracing things backward to their source, and of resolving knowledge into it original principles. It is also called the method of resolution, and stands opposed to the synthetic method, or method of composition. See the article METHOD.

The art of this method consists chiefly in combining our perceptions, and classing them together with address; and in contriving a proper expression of our thought, so as to represent their several divisions, classes,
ANALYSIS, among mathematicians, the art of discovering the truth or falsehood of a proposition, or its possibility and impossibility. This is done by supposing the proposition, such as it is, true; and examining what follows from thence, until we arrive at some evident truth, or some impossibility, of which the first proposition is a necessary consequence; and from thence establish the truth or impossibility of that proposition.

The analysis of the antient geometers consisted in the application of the propositions of Euclid, Apollonius, &c. till they arrived, proceeding step by step, at the truth required. That of the moderns, though not so elegant, must, however, be allowed more ready and general. By this last, geometrical demonstrations are wonderfully abridged, a number of truths are frequently expressed by a single line, and whole sciences may sometimes be learned in a few minutes, which otherwise would be scarcely attained in many years.

Analysis is divided, with regard to its object, into that of finites and infinites.

Analysis of finite quantities, that which is called specious arithmetic. See the article Arithmetic.

Analysis of infinites, the same with fluxions. See the article Fluxions.

Analysis, in chemistry, the reduction of a mixed body into its principles. This is the chief object of chemistry; and is principally effected by means of fire. The antient chemists admitted only three principles or elements, salt, sulphur, and mercury; to which the moderns have added two more, water and earth; into these all bodies are resolvable by a chemical analysis, though no operation, no human art, can exhibit them pure and elementary.

On this then, as well as on other accounts, it is far from being clear, that a chemical analysis gives the true first elements of things; for it appears that there are corpuses, which, when alone, are either too hard as to be incapable of being divided, or changing their figures; or too minute, as to escape the action of such bodies; as might otherwise divide them.

Analysis is also used to signify the anatomical dissection of an animal. See the article Anatomy.

Analysis, among grammarians, is the explaining the etymology, construction, and other properties of words. See the article Etymology, &c.

Analysis, in rhetoric, is the stripping a discourse of all its gorgeous dress of tropes and figures; or, laying what use the orator has made of them, to embellish and set off every thing to the best advantage.

Analysis of powers, is the operation of resolving them into their roots, otherwise called evolution. See Evolution, Power, and Root.

Analysis is also used for a brief, but methodical illustration of the principles of a science; in which sense it is nearly synonymous with what we otherwise call a synopsis.

Analysis likewise denotes a table of the principal heads of a continued discourse, disposed in their natural order.

ANALYST, a person who makes use of the analytical method of resolving problems. See the article Analysis.

ANALYTIC, or ANALYTICAL, in a general sense, denotes something belonging to analysis. See Analysis.

ANALYTICS is more particularly used for the mathematical and logical analyses above explained.

ANAMNESTICS, among physicians, signify by which the present state of the body is discovered, in contradistinction from prognostics. See the article Prognostics.

Anamnestics, according to Biancardi, are the aids in restoring the memory: such are all spirituous things.

ANAMORPHOSIS, ἀναμορφώσις, in perspective and painting, a monstrous projection, or representation of an image on a plane or curve surface, which, beheld at a proper distance, shall appear regular and in proportion.

To delineate an anamorphosis upon a plane: 1. Draw the square A B C D, (plate XVI. fig. 6.) of a bigness at pleasure, and subdivide it into a number of little squares. 2. In this square, called the crotal prototype, let the image to be represented deformed, be drawn. 3. Then draw the line a b (ibid. fig. 7.) equal to A B, and divide it into the same number of equal parts as the side of the prototype A B. 4. Erect the perpendicular E V, in the middle of a b, so much the longer as the deformity of the image is to be greater. 5. Draw V S perpendicular
ANAPÆSTIC VERSES, those consisting wholly or chiefly of anapests.

ANAPES, a town in Flanders, situated upon the river Marque, something more than a league's distance from Lille.

ANAPHORA, αναφορα, in ancient astronomy, an allusion of the twelve signs of the zodiac from the east, by the daily course of the heavens.

ANAPHORA, in rhetoric, the repetition of the same word or words in the beginning of a sentence or verse: thus Virgil,

Pan etiam Arcadiæ necum se judicis ceter,

Pan etiam Arcadiæ dicat se judicia ceterum.

ANAPHORA, among ancient physicians, denotes the throwing up of purulent matter by the mouth.

ANAPHORA, among ecclesiastical writers, a term sometimes used for the hoist. See the article HOST.

ANAPHRODISIA, αναφροδισία, in ancient physic, denotes impotence, with regard to venereal commerce.

ANAPLASIS, among ancient physicians, the replacing of a fractured bone in the same situation it obtained before it was broken.

Anaplas also signifies a reattachment of the extruded flesh.

ANAPLEROSES, in a general sense, is the same with repletion. See the article REPLETION.

ANAPLEROSES, among surgeons, expresses the restoring deficiencies; and in this sense is the same with pros thesis. See the article PROSTHESIS.

ANAPLOROTICS, in pharmacy, such medicines as promote the growth of flesh in wounds and ulcers.

Of this kind are several gums and balsams, as farcocolla and the vulnerary balain.

Anaplerotics are also called incarnatives. See the article INCARNATIVE.

ANAPODOPHYLLUM, in botany, the name by which Tournefort calls the podophyllum of Linnaeus. See plate XVII, fig. 2. and the article PODOPHYLLUM.

ANAPULA, a province of Venezuela, in south America.

ANACHITO, a country of Peru, in south America, in the government of Quito.

ANARCHY, in matters of polity, such a confusion in the state, that no supreme authority is lodged either in the prince or other rulers, and consequently the people live...
Fig. 1. Ananas

Fig. 2. Anapodophyllum

Fig. 3. The Anchovy
ANARRHICA, in the artdian system of ichthyology, the name of a genus of malacoerygous fishes, called by other writers lupus-marinus, the sea-wolf. See the article LUPUS.

ANARRHINON, among antient botanists, a name used for the antirrhiunm of the moderns. See ANTIRRHINUM.

ANARRHOPA, a genus of bird-souls, distinguished from all others by having neither wings nor limbs.

ANAS, in zoology, a name used for the antirrhium of the moderns. See ANTIRRHINUM.

ANARRHICA, among physicians, a tendency of the humours towards the superior parts, in contradistinction to catarrhopia. See the article CATARRHOPA.

ANARTHA, a class of naked insects, distinguished from all others by having neither wings nor limbs.

To this class belong all kinds of worms and leeches.

ANAS, in zoology, a genus of birds of the order of the anseres, according to Linnaeus, the beak of which is convex, with an obtuse point, and the whole verge furnished with transverse lamellose teeth; the tongue is obtuse and eliuated. Under this genus are comprehended the platea, cygnus, anser, eider, bernatla, penelope, boschas,clangula, glaucium, querquedula, fuligula, &c.

ANAS CAMPESTRIS, a name by which the tetrax, a bird of the gallinaceous kind is sometimes called. See TETRAX.

ANASAPTA, among antient physicians. See the article ANA.

ANASARCA, in medicine, a species of dropsy, wherein the skin appears puffed up and swelled, and yields to the impression of the fingers, like dough. The cauæs of this disease are, 1. A diminution of the vis viæ. 2. A viscidity in the blood and lymph, by which means the extremities of the vessels being obstructed, and the adipose cellules filled up, a greater quantity of lymph is collected in the body than can be received by the veins and lymphatic ducts, or expelled by the pores and other absorbent vessels. If the humour be too viscous, it is called leucophleghmatia. See the article LEUCOPHLEGMATIA.

As to the remedies for this distemper, see the article DROPSY.

ANASSAS, in botany, the name of a beautiful and delicious fruit of Africa, thought to be the same with the ananas. See the article ANANAS.

ANASTALTICS, in pharmacy, the same with fhyptics. See the article STYPTICS.

ANASTASIS, among antient physicians, denotes a rising up to go to stool. It likewise signifies a migration of humours, when expelled from one place, and obliged to remove to another.

ANASTATICA, in botany, the name of a genus of tetradyamous plants called in English the role of jericho; its flower consists of four roundish petals, disposed in the form of a cross; and its fruit is a short bilocular pod, containing in each cell a single roundish seed.

ANASI; OCCHICOSIS, a resolution of the solids and fluids of the body into their first elements.

It usually signifies a colliquation of the solids and fluids, when in a morbid state, in order for their expulsion out of the body.

ANASTOMASIS, or ANASTOMOSIS, in anatomy, the opening of the mouths of vessels, in order to discharge their contained fluids; as in the menes, hemorrhoids, blood from the nose or lungs, occasioned either by the weakness of the vessel, or the quantity of blood.

ANASTOMASIS, likewise, denotes the communication of two vessels at their extremities; for example, the inoculation of a vein with a vein, of an artery with an artery, or of an artery with a vein.

ANASTOMATICS, in pharmacy, medicines which have the power of opening the mouths of vessels, and promoting the circulation of the blood. Such are all deobstruant, cathartic, fororific, and diuretic medicines.

ANASTROPHE, a name in rhetoric and grammar, denotes the inversion of the natural order of the words; such is, saxa per & sepultus, far per saxa & sepultus.

ANATÈS, among physicians, a disease of the anus. See the article ANUS.

ANATHHEMA, among ecclesiastical writers, imports whatever is set apart, separated, or devoted; but is most usually meant to express the cutting off a person from the privileges of a society and communion with the faithful.

The anathema differs from excommunication in the circumstance of being attended with curses and execrations. It was practised in the primitive church against notorious offenders; and the form of
of that pronounced by Synecius against one Andronicus, is as follows: "Let no church of God be open to Andronicus, but let every sanctuary be shut against him. I admonish both private men and prelates, neither to receive him under their roof, nor to their table; and priests more especially, that they neither converse with him living, nor attend his funerals when dead."

Several councils also have pronounced anathemas against such as they thought corrupted the purity of the faith, and their decisions have been conceived in the following form: *Si quis dixerit, &e. anathema sit.*

There are two kinds of anathemas, the one judiciary, and the other abjuratory. The former can only be denounced by a council, a pope, or a bishop; the latter makes a part of the ceremony of abjuration, the convert being obliged to anathematize the heresy he abjures. See the article **ABJURATION.**

**ANATHEMA,** in heathen antiquity, was an offering or present made to some deity, so called from its being hung up in the temple. Whenever a person left off his employment, it was usual to dedicate the tools to the patron-deity of such a trade. Persons too, who had escaped some imminent danger, as shipwreck and the like, or had met with any other remarkable instance of good fortune, seldom failed to testify their gratitude by some present of this kind.

**ANATHEMATA** likewise denote chillian offerings, otherwise called donations. See the article **DONATIONS.**

**ANATHEMATIZING,** the act of pronouncing an anathema against some person or other. See the article **ANATHEMA.**

**ANATICULA,** little duck, in the ancient roman customs, a term of fondness used by lovers.

**ANATIFERA CONCHA,** in the history of shell-fish. See the article **CONCHA.**

**ANATOCISM,** *anóthēs,* in antiquity, an unfruitful interest for the use of money. This is when the lender accumulates together the interests of several years, and requires a new interest to be paid for them, as for the first principal.

**ANATOLIA,** in geography, the same with Natolia. See the article **NATOLIA.**

**ANATOMICAL,** in a general sense, denotes something belonging to anatomy; hence we say anatomical preparations, injections, &c. See **PREPARATION** and the next article.

**ANATOMY,** *anáthēma,* among physicians, surgeons, &c. the art of dissecting, or taking to pieces, the several solid parts of animal bodies, with a view to discover their structure and uses.

Anatomy, in respect of its subject, is divided into human and comparative. Human anatomy is that which is employed on the human body, and comparative anatomy that which is employed upon the bodies of other animals, these serving for the more accurate distinctions of several parts, and supplying the defects of human subjects.

Anatomy, from its various ends, may be said to be of four kinds; the primary one is an acquaintance with the work of the creator, in the human frame, as an intimate knowledge of the figure of the several parts of the human body, their connections, communications, actions, and uses, is one of the strongest arguments against atheism: the science, therefore, treated in this light, may be called philosophical or theological anatomy.

Of the secondary ends, the first is health, for the preservation of which, restoring it when impaired by diseases, or even preventing their access, nothing surely is more necessary than a true knowledge of the structure of that frame which is liable to be injured: in this sense anatomy is styled medical; and many, indeed, establish this as the first species of it, and the preferring and restoring health as its primary object.

Another end of anatomy is determining the cause of suspicious deaths, impotency, barrenness, the true times of pregnancy and delivery, the mortality of wounds, and a multitude of other cases of great importance to be adjusted in a court of judicature; and in this sense the science may be called juridical.

But, lastly, a great end of anatomy is the determining the cause and manner of the death of diseased persons, from a subsequent dissection of the body: this is of the utmost use in the practice of physic, to discover the latent causes of many diseases, which, without the assistance of these dissections, the world could never have been truly acquainted with.

Upon the whole, then, it appears that the use of anatomy is very great, nor is it confined to the bounds of medicine alone: the philosopher and the magistrate, the painter and the sculptor, are, in their respective
refractive employments, more or less qualified, in proportion to the progress they have made in this science; but the physician and surgeon are the people to whom it is most immediately necessary; and who, without a perfect knowledge of it, cannot do justice to the world in their professions. What the needle is to the mariner, anatomy is to both thefe; and we may venture to say, that without its assistance, they would be rather detrimental than beneficial to mankind.

Anatomy is also used, in a less proper sense, for the analyzing of compound bodies. See the article Analysis.

Anatomy, in some old statutes, is used to denote the subject to be anatomized.

Anatomy, in a figurative sense, is sometimes used for a strict examination of an affair, discourse, or performance.

Anatomy of plants, is otherwise called dendroanatomy. See the articles Plant and Dendroanatomy.

Anatolia, a small city of Greece, upon the river Aopai, five miles from the Straights of Negropont.

Anatrom, Natron, or Natrum, in natural history. See Natrum.

Besides the salt commonly called by this name, some likewise used it to denote the fioam found on the surface of the composition of glass, when in fusion; as also for the terra farrafenica, and a nitrous juice, which concretes in vaults and other subterraneous places.

Anatrom is sometimes also used for a compound salt, made of quick lime, alum, vitriol, common salt, and nitre; and used as a flux to promote the fusion of metals. See the article Fluxes.

Anaudia, a term used by some writers to denote dumbness; or the want of the use of speech.

Anaxagoria, as-axagoria, in grecian history, an anniverfary festival, kept in honour of Anaxagoras by the people of Lampfucus.

Anaximandrians, in the history of philosophy, the followers of Anaximander, the most antient of the philosophic al atheists, who admitted of no other substance in nature but body.

Anazzo, a town in the province of Bari, in the kingdom of Naples. It is sometimes called Gnazi.

Anbar, a city of Asia, situated upon the Euphrates, twenty leagues from Bagdat. It is called by the natives Hatchemiah.

Anbury, among farriers, the same with ambury. See the article Ambury.

Ancamares, a people of South America, along the river Madeira, which afterwards falls into the river of the Amazonas.

Ancarano, a small city of the ecclesiastical state in the marquisate of Ancora.

Ancaster, a town of Lincolnshire, near Lincoln, west longitude 50°. north latitude 52°. 50'.

Ancenis, a town of France in the province of Brittany, west longitude 1°. north latitude 47°. 20'.

Ancestors, those from whom a person is descended in a strict line, the father and mother not included.

The law makes a difference between ancestors and predeceffors, the first being applied to a natural person, as a man and his ancestors, and the latter to a body politic, as a bishop and his predeceffors.

We say likewise, a prince and his predeceffors, to signify the kings that have reigned before; but we never say a king and his ancestors, unless he is by birth descended of his predeceffors.

Ancestrel, in law, something that relates to, or has been done by one's ancestors. Thus, Homage ancstrel signifies homage performed by one's ancestors.

Anchialus, a city of Thrace, upon the Euxine sea, by the Turks called Kipkis, and by the Greeks Anchio.

Anchilops, in medicine, a small tumour in the great angle of the eye, frequently degenerating into an abscess, or fistula lacrymalis. See Fistula.

Most authors use the terms anchilops and zigilops, in a synonymous sense. See the article Zigilops.

Anchoi, in geography. See Anchialus.

Anchor, anchora, in maritime affairs, an extremely useful instrument, serving to retain a ship or boat in its place.

It is a very large and heavy iron instrument, with a double hook at one end, and a ring at the other, by which it is fastened to a cable.

It is cast into the bottom of the sea, or rivers, where taking its hold, it keeps ships from being drawn away by the wind, tide, or currents.

The parts of an anchor are: 1. The ring to which the cable is fastened. 2. The beam, or shank, which is the longest part of the anchor. 3. The arm, which is that which runs into the ground. 4. The flouke or fluke, by some called the palm, the broad and peaked part, with its bars, like the head of an arrow, which fastens into the ground. 5. The stock
ANCHOR, in heraldry, are emblems of hope, and are taken for such in a spiritual as well as in a temporal sense.

ANCHORAGE, or ANCHORING-GROUND, a place where a ship may cast anchor.

The best anchoring ground is stiff clay or hard sand; and the best place for riding at anchor, is where a ship is land-locked, and out of the tide.

ANCHORAGE, in law, is a duty taken of ships for the use of the port or harbour, where they cast anchor; for the ground there belonging to the king, no man can let fall anchor thereon, without paying the king's officers for so doing.

ANCHORALIS PROCESUS, the same as the proce dúss coraconides. See the article CORACOIDES.

ANCHORED, or ANCHORED, is said of a crois, the four extremities of which resemble the flouks of an anchor.

This crois resembles very much the crois moline, the whole difference between them consisting only in this, that the anchored crois is somewhat sharper at the points than the moline. See Moline.

ANCHOVY, in ichthyology and commerce, a species of clupea, with the upper jaw longest. See the article CLUPEA. The anchovy is so like the common sprat, another species of clupea, that it is no wonder this fish is often pickled and sold under its name. See PLATE XVII. fig. 5.

Anchoyves are much esteemed in sauces; the common way of eating them being with oil, vinegar, &c.

ANCHUSA, in botany, the name by which Linnaeus calls the bugloss of other botanists. See the article BUCKLOSS.

ANCHYLOBE PHARON, among physicians, denotes a cohabition of the eye lids. See the article EYE.

ANCHYLOPS, the same with anchilops. See the article ANCHILOPS.

ANCEINT, or ANTIENT, an epithet given to whatever belongs to antiquity. See the articles ANTIENT and ANTIQUITY.

ANCIENTLY, in some old statutes, a term used to denote seniority.

ANCLABRIS, in roman antiquity, the table whereon the prieset eat their portion of the sacrifices.

ANCLAM, a town of Pomerania in Germany, situated on the river Pene, in eatt longitude 14°, and north latitude 54°, about forty-five miles north-west of Stettin.

ANCHORS AND EGGS BEING CARVED ALTERNATELY THROUGH THE WHOLE BUILDINGS.
ANCLE, in anatomy. See Talus.
ANCObER, or Rio-Corbe, a river on the coast of Guinea, in Africa.
ANCILIA, in antiquity. See Ancyle.
ANCONEs, in anatomy, the gibbose eminence, or flexure of the cubit, the middle of the eminence on which we lean, being the greatest of the two apophyses of the ulna, and the same with the olecranon. See Olecranon.
ANCONA, a sea-port town of Italy, situated on the gulf of Venice, in east longitude 13°, and north latitude 43° 20'.

It is the capital of a marquisate of the same name, subject to the pope.
ANCONEs, in anatomy, the sixth muscle of the elbow. See Muscle.
ANCONES, in architecture, the corners, or coins of walls, cross-beams, or rafters. Vitruvius calls the consoles, which are a sort of shouldering pieces, by the name ancones.
ANCONY, in mineralogy, denotes a bloom of iron fashioned into a flat bar, about three feet long, with a square rough knot at each end.
ANCRe, a town of Picardy in France, upon a river of the same name between Corbic and Bapaume.
ANCReE, in heraldry, the same with anchored. See the article Anchored.
ANCUAH, a city of the province of Alva-hat, in the northern parts of Egypt.
ANCUBITUS, among antient physicians, a term to denote that affection of the eyes in which they seemed to contain fand.
ANCUD, a province of Chili, in South America, having on the west the Archipelago of the same name; the Andes on the east; the county of Orono on the north; and the country of Magellan on the south.
ANCYLE, ancpln, in antiquity, a kind of shield which fell, as was pretended, from heaven, in the reign of Numa-Pomphilus. At which time, likewise, a voice was heard, declaring that Rome should be mistress of the world as long as she should preserve this holy buckler.

Authors are much divided about its shape: however, it was kept with great care in the temple of Mars, under the direction of twelve priests, and left any should attempt to steal it, eleven others were made to look as not to be distinguished from the sacred one. These ancylia were carried in procession every year round the city of Rome.
ANCYLE, in surgery, a distortion of the joints, caused by a settlement of the humours, or a diffusion of the nerves; in which case remedies of a mollifying and relaxing nature are required.
ANCYLOGLOSSUM, ancylaglossus, among physicians, denotes a contraction of the ligaments of the tongue, hindering speech. This happens, either when the membrane which supports the tongue is naturally imperfect, or of too hard a substance, or is occasioned by a preceding ulcer, and a hard cicatrix left under the tongue. It is to be cured only by manual operation by the surgeon.
ANCYLOGLOSSUS, ancylaglossus; one who is affected with an ancyloglossum. See the preceding article.
ANCYLOMELaE, a surgeon's crooked probe. See Probe.
ANCYLOSIS, ancyloticus, in surgery, the same with ancyle. See Ancyle.
ANCYROIDES, ancyloticus, among anatomists, the same with what is called coracoides. See Coracoides.
ANCZAKRICH, a river of Podolia, which falls into the black sea, near Octakow.
ANDA, a large brazilian tree, the bark of which has an intoxicating quality.
ANDABATÆ, andasta, in antiquity, a sort of gladiators, who mounted on horse-back, or in chariots, fought hoodwinked, having a helmet that covered their eyes.
ANDALUSIA, the most south-west province of Spain, having Efremadura and New Caflile on the north; and Granada, the shores of Gibraltar, and the Atlantic ocean on the south. New Andalusia, a province of Terra Firma, in South America, lying on the coast of the Atlantic ocean, opposite to the leeward islands, having the river Oroonoaco on the west.
ANDAMAN, the name of some small islands, situated on the east side of the entrance of the bay of Bengal, in east longitude 92°, and north latitude 15°.
ANDANAGAR, a town of the peninsula in India, on this side the Ganges, in the kingdom of Decan.
ANDANCE, a town of Languedoc in France, situated near the confluence of the Rhone and the Dome.
ANDANTI, in music, signifies, especially in thorough basses, that the notes are to be played diffusely.
ANDAYE, a town in France, upon the Spanish frontiers, within two leagues of St. Jean de Luz.
ANDELI, a town of Normandy in France, situated
ANDERO, an island in the north sea, upon the coast of Norway. It is only inhabited by fishermen.

ANDERENÉ SAL, a name sometimes used for the natum of the antients. See the article NATRUM.

ANDERLECHT, a fortress of the arian Netherlands, about two miles south of Bruffels.

ANDERNACHT, a city of Germany, situated on the lower Rhine, in east longitude 5°. and north latitude 50°. 25'. about thirty miles south of Cologne.

ANDERO, a sea-port town of Spain, in the province of Biscay, about sixty miles west of Bilboa, situated in west-longitude 4°. 30' and north latitude 43°. 20'. Here the Spaniards build and lay up some of their men of war.

ANDES, a vast ridge of mountains, which runs almost the whole length of south America. They are esteemed the highest in the world, being covered with snow, in the warmest climates, and from thence called the Sierras Nevada, or the snowy mountains.

ANDERVALLO, a small country of Spain in Andalusia, upon the frontiers of Portugal and Spanish Estremadura.

ANDEUZE, a city of Languedoc in France situated in east longitude 3°. 40'. and north latitude 43°. 45'.

ANDIRIAR, in botany, the name by which some call the fabago of the generality of botanists. See FABAGO.

ANDORINHA, in ornithology, a name given to the brazilian sparrow, more usually called tapera. See TAPERA.

ANDOVER, a large market-town in Hampshire, situated about ten miles north west of Winchester, in west longitude 1°. 30' and north latitude 51°. 20'. It sends two members to parliament.

ANDRACHNE, in botany, the name given by Linnaeus to a genus of plants, called by Tournefort telephioides. See TELEPHIOIDEA.

Andrachne was also used by the Greeks for purplain, according to Macer, who tells us, 

Andrachne Graecis, quae Portulaca Latinis, 

Dicitur.

Sometimes also, we find andrachne denoting the arbutus, or strawberry-tree. See the article ARBUTUS.

ANDREJOS, a town situated near the Bohrithenes, between Muscovy and Poland.

ANDREW, or Knights of St. Andrew, an order of knights more usually called the order of the thistle. See THISTLE.

Knights of St. Andrew is also an order instituted by Peter the great of Muscovy, in 1693; the badge of which, is a golden medal, on one side whereof is represented St. Andrew's cross, and on the other are these words: Cesar Pierre monarque de tout la Russie.

This medal, being fastened to a blue ribbon, is suspended from the right shoulder.

St. Andrew's Cross, one in form of the letter X. See the article CROSS.

St. Andrew's Day, a festival of the christian church celebrated on the thirtieth of November, in honour of the apostle St. Andrew.

St. Andrew's, in geography, a city in the county of Fife in Scotland, situated on the german ocean, in west longitude 2°. 25'. and north latitude 56°. 20'. about thirty miles north-east of Edinburgh.

St. Andrews was formerly an archbishop's see, but at present is chiefly remarkable on account of its university.

St. Andrew's is also the name of a town of Carinthia in Germany, situated in east longitude 15°, and north latitude 47°. about a hundred miles south of Vienna.

ANDRIA, in greek antiquity, public entertainments first instituted by Minos of Crete, and, after his example, admitted by Lycurgus at Sparta, at which a whole city, or a tribe, ascribed. They were managed with the utmost frugality, and perons of all ages were admitted, the younger being obliged by the law-giver, to repair thither as to schools of temperance and sobriety.

Andria, among some naturalists, denotes an hermaphroditical woman, who has the parts of both sexes. See the article HERMAPHRODITE.

ANDRIA, in geography, a town of Italy, in the kingdom of Naples, situated in east longitude 17°, and north latitude 41°. 0'. It is a bishop's see.

ANDROAS, or ANDROIDAMAS, among antient naturalists, a kind of pyrite, to which they attributed certain magical virtues.

ANDROGYNOUS, in zoology, an appellation given to animals, which have both the male and female sex in the same individual. These are otherwise called hermaphrodites. See the article HERMAPHRODITE.
ANDROGYNOUS BATHS, in antiquity, those common to both sexes. See BATH.

ANDROIDES, anthropoid, in mechanics, a human figure, which by certain springs, performs several external functions of a man. See the article AUTOMATON.

ANDROLEPSY, anthropoda, in grecian antiquity, an action allowed by the Athenians, against such as protected persons guilty of murder. The relations of the deceased were empowered to seize three men in the city or house, whther the murderer had fled, till he were either surrenderred, or satisfaction made some other way for the murder.

ANDROLEPSY is sometimes also used to signify reprisals. See REPRIZAL.

ANDROMACHUS'S TREACLE, andromachi Theriac, in pharmacy, &c. See the article THERIACA.

ANDROMEDA, in astronomy, a small northern constellation, consisting of twenty-seven stars, visible to the naked eye; behind Pegase, Cassiopeia, and Perseus. See the article PEGASUS, &c.

ANDROMEDA, in botany, the name used by Linnaeus for the chammerhoddendros of Tournefort. See the article CHAMERHODDENDROS.

ANDRON, anthrop, in grecian antiquity, denotes the apartment in houses, designed for the use of men; in which senate, it stands opposed to gynaeceum. See GYNÆCEUM.

ANDRONION, among ancient physicians, a name given to truches invented by Andron.—They were made of balustines, birthwort, phumos arium, vitriol, myrrh, aloes, frankincense; and were reckoned good for deterring the callisities of ulcers.

ANDROPHAGI, anthropaga, the same with anthropophaici. See ANTHROPOPHAGI.

ANDROS, an island in the archipelago, near the south end of Néapomont.

ANDROSACE, in botany, a distinct genus of plants, the flower of which consists of one saucer-like petal, very wide at the mouth, and divided into three segments; and its fruit is a globule, unilocular capsule, containing a number of small oval or roundish seeds, affixed to a placenta. See plate XVIII. fig. 1.

This genus, which belongs to the pentandria monogynea class of Linnaeus, takes its name from the relief it gives mankind; being appetitive, and good in the gout, dropsy, and irritation of urine.

ANDROSÆNÕM, TUTSAN, in botany, constitutes a distinct genus of plants, according to Tourtinfort; but is comprehended by Linnaeus, among the hypericums. See the article HYPERICUM.

ANDROTOMY, or ANDRANATOMY, the dissection of a human body, in contradistinction to zootomy. See ZOOTOMY.

ANDRUM, a kind of hydrocele, to which the people of Malabar are very subject. See the article HYDROCELE.

ANDRYALA, in botany, a genus of plants, called by Viallini eriophorus; the flower of which is monopetalous, and the seed, which is single, oval, and crowned with down, has no other but the cup.

It belongs to the fagophora polygyna clade of Linnaeus. See SYNGENESIA.

ANDUXAR, a city of Andalusia in Spain, situated on the river Guadalquiver, about thirty-two miles east of Cordobas; in west longitude 4°, and north latitude 37° 30'.

ANDUZE. See ANDUE.

ANECDOTE, anecdote, in matters of literature, some fact relating to history, not formerly published to the world, or generally known.

Anecdotes have something in them very alluring, especially when they regard persons of distinction; such is the infaillible thrist of mankind after knowledge! However, it is proper to remark, that few of the many pieces published under the title of anecdotes, truly deserve that name, as being filled with a multitude of facts and circumstances to be found in other writers.

ANECDOTES, anecdota, is also a name given to the works of the ancients, which have never been published in print.

ANEE, in commerce, a measure for grain, used in some provinces of France.

ANEE at Lyons, signifies also a certain quantity of wine, which is the load an afe can carry at once. That load is fixed at eightyenglish quarts wine measure.

ANEGADA, one of the Carribee islands, situated in west longitude 63° 51', and north latitude 18°.

ANELE, or ANIL, in our old statutes, names used for indigo. See INDIGO.

ANEMABO. See ANNAMABO.

ANEMIUS, among chemists; an appellation given to a wind furnace used in making fierce fires for melting and distillation.

ANEMOMACHIA, anemographia, a term used by antient naturalists for a whirlwind, or hurricane. See HURRICANE.

ANEMOMETER, among mechanical philosophers, an instrument contrived for measuring the strength of the wind.
There are various kinds of anemometers: that of which Wolfius gives the structure, is moved by hairs like those of a windmill. He experienced, he says, the good effects of it, and affirms that the inward structure may be preferred to measure even the force of running water, or that of men and horses when they draw. In the Memoirs of the Academy of Sciences is described a new anemometer, which expresses on paper, not only the several winds that have blown during the space of twenty-four hours, but also the strength and velocity of each.

**ANEMONE, Wind-flower, in botany, the name of a distinct genus of plants. See the article Wind-flower.**

**ANEMOSCOPE, according to Vitruvius's description, a machine for knowing from what point of the compass the wind blows.** Such is that at Buckingham-house in London. This is done by means of an index moving about an upright circular plate, the index being turned by an horizontal axis, and the axis by an upright staff, at the top of which is the fane moved about by the wind.

Anemoscope denotes also an instrument invented to foretell the changes of the wind. Otto Guerick gave this name to a machine he invented, consisting of a little wooden man, which by rising and falling in a glass tube, showed the change of the weather. But it has been discovered, that this was only an application of the common barometer. See Barometer.

**ANET, a town in the isle of France, upon the river Eure.**

**ANETHUM, Dill, in botany, a distinct genus of umbelliferous plants. See the article Dill.**

**ANEURISM, or ANEURYSM, in surgery, a throbbing tumour, distended with blood, and formed by a dilatation or rupture of an artery.** Surgeons usually distinguish two kinds, the true and the spurious. A true aneurism has always a pulsation more or less, and is formed by a dilatation only of the artery either all around, or on one side of it. The spurious aneurism is when the artery being opened by a puncture, wound, erosion, or other external violence, extravasates the blood betwixt the muscles and integuments, the limb being thereby rendered livid and fuddled. A true aneurism may likewise degenerate into one that is spurious, by a gradual dilatation of the artery, till by the burst-

...
execute the will of God, in the government of the world.
The existence of angels has been admitted in all religions. The Greeks and Latins acknowledged them under the name of genii or demons, and in the alcoran, we find frequent mention of them, the mahommedans affigning them different orders and degrees, and different employments both in heaven and earth. Though among the Jews in general, the existence of angels was believed (the Sadduces only excepted, who denied the existence of all spirits whatever but God) yet they do not seem to have known the names of any angel before the babylonian captivity. Tobit, who is thought to have lived at Nineveh some time before that event, is the first who has called an angel by his name. He mentions Raphael; and Daniel, who lived sometime after Tobit, has taught us the names of Michael and Gabriel. As to the nature of angels, authors are not so unanimous as about their existence. The most universal opinion is, that they are of a corporeal nature; yet many of the old fathers imagined them to be corporeal, and capable of sensuous pleasures. Nor are they better agreed concerning the time when angels were created. Some think that they were created at the same time as the heavens; the Hebrews conjecture that God created them upon the second day of the world; and finally, others have asserted, that they existed long before the sensible world.

As to their office or employment, some are said to preside over empires, nations, provinces, cities, and particular persons. These latter are styled guardian angels. Thus Michael is acknowledged to be the protector of the people of Israel; and in the New Testament, we read of Saint Peter's angel who set him at liberty; and Jesus Christ enjoins us not to despise little ones, because their angels continually behold the face of God.
The number of angels is no where mentioned in scripture; but it is always represented as immenely great, and also that there is a subordination among them. Hence ecclesiastical writers make an hierarchy of nine orders, in the list of which are angels. See HIERARCHY.

But besides these, we read of evil angels, the ministers of God's wrath; as the destroying angel, the angel of death, the angel of Satan, and the angel of the bottomless pit. Thus God smote Sennacherib's army with the sword of the destroying angel; he flew David's subjects with the sword of the angel of death; and the angel of Satan buffeted St. Paul. The angel of the bottomless pit is the prince of devils, the same with the destroying angel. In general, good and bad angels are distinguished by the opposite terms of angels of light, and angels of darkness.

And to conclude, those angels that kept not their first estate, but fell from their obedience into sin, for which they were expelled the regions of light, and cast down into hell, to be reserved in everlasting chains under darkness, until the judgment of the great day, are called fallen angels.

ANGEL is likewise a title given to bishops of several churches. In this sense is St. Paul understood by some authors, where he says women ought to be covered in the church, because of the angels; and thus in the Revelations, the seven stars are the angels, that is, bishops of the seven churches.

ANGEL, in commerce, the name of an ancient gold coin in England, of which some are still to be seen in the cabinets of the curious. It had its name from the figure of an angel represented upon it. It was 23 1/2 carats fine, and weighed four penny-wrights. Its value differed in different reigns.

The French have also had their angels; but they are now out of use.

ANGEL-FISH, in ichthology, a name by which some call the squalus, with no pinna ani, and the mouth situated in the top of the head. See SQUALUS.

ANGELIC, or ANGELICAL, in a general sense, an epithet given to whatever belongs to, or partakes of the nature of angels. See ANGEL.

ANGELIC is also a denomination figuratively given to several things, on account of their superior excellence. Thus we read of an angelical life, angelical poem, angelical pills, &c.

ANGELIC-ART. See the article ART.

ANGELIC-HABIT. See the article HABIT.

ANGELICA, in botany, a genus of umbelliferous plants with rosetaceous flowers, and an oval or roundish fruit, containing two seeds, larger than those of parsley, plain on one side, and convex or striated on the other.

Anglica is a simple much esteemed for its medicinal virtues, being reputed stomachic, cordial, alexipharmic, and of great
Use in pestilential fevers, in all contagious distempers, and the plague itself. But the virtues ascribed to it on this account, are somewhat too great. At present, it is regarded little otherwise than as a carminative. It has been made an ingredient in many of our official compositions. The stalks make a very pleasant sweetmeat preferred with sugar, which is a very good way of taking angelica on many occasions.

Angelica, in Grecian antiquity, a celebrated dance performed at their feasts; so called, because the dancers were dressed in the habit of messengers.

Angelics, angelici, in church history, an antient sect of heretics, supposed by some to have got this appellation from their excessive veneration of angels, and by others from their maintaining that the world was created by angels.

Angelics, angelici, is also the name of an order of knights, instituted in 1191, by Angelus Flavius Comnenus, emperor of Constantinople.

Some will have this order, which still subsists in Italy, to have been much more antient, making Comnatus its founder.

Angelics is also a congregation of nuns, founded at Milan in 1534, by Louia Terelli, countess of Guasalla. They observe the rule of St. Augustine.

Angelites, angelites, in church history, an antient sect of heretics, whose distinguishing tenet was, that the persons of the trinity have no distinct subsistence, but partake in common of the same divine essence.

Angelo, or St. Angelo, a sea-port town of Apulia in Naples, situated on the gulf of Venice, in 16° 25' east longitude, and 44° 30' north latitude.

St. Angelo is also the name of two other small towns in Italy, one situated in the kingdom of Naples, and the other in the province of Urbino.

AngeloLatria, among ecclesiastical writers, the adoration or worship of angels. See the articles Angel andadoration.

Angelos, a fine city of Mexico, situated in 103° west longitude, and 19° north latitude, about seventy-five miles southeast of the city of Mexico.

Angelot, in the history of coins, a gold coin struck at Paris, while subject to the English, so called from the representation of an angel supporting the arms of England and France.

Angelus, Angel. See Angel.

Anger, ira, among moral philosophers, denotes a violent passion, or propensity, to take vengeance on the authors of some supposed injury done the angry person. Anger in scripture is often attributed to God, not that he is capable of those irregular motions which this passion produces, but because he punishes the wicked with the severity of a provoked father.

Angeburb, a city of Prussia in the province of Bartenland, upon the river Angerap.

Angermania, a maritime province of Sweden, lying on the western shore of the Bothnian gulf.

Angermund, a town of the duchy of Berg in Germany, situated on the east side of the Rhine in 6° 20' east longitude, and 51° 10' north latitude. It lies about nine miles north of Dusseldorf, and is subject to the elector palatine.

Angeronalia, in antiquity, feasts celebrated at Rome in honour of Anglesea, the goddess of silence and patience. They were instituted, according to Macrobius, in consequence of a vow, when the people were afflicted with the quinzy, angina. They were held on the twenty-fifth of December.

Angers, a large city of France, capital of the province of Anjou, and situated on the river Loire, in 30° west longitude, and 47° 30' north latitude. It is a bishop's see, and has a royal academy for the study of the law chiefly.

Anghiera, a town of the Milanese in Italy, situated on the east side of the Laco Maggiore, about forty miles west of Milan, in 9° east longitude and 45° 40' north latitude.

Angina, in medicine, a violent inflammation of the throat, otherwise called quinzy. See the article Quinzy.

Angina Lini, in botany, a name by which some call the dodger growing on flax, from it choking that plant. See the article Dodder.

Angiosperma, in the linnzean system of botany, denotes those plants of the dyynamia class, which have their seeds inclosed in a capsule, or seed-veil. See the article Didynamia.

Angle, angulus, in geometry, the inclination of two lines meeting one another in a point, and called the legs of the angle. Thus A B C (plate XVIII. fig. 2. No. 1.) is the angle made by the two lines A B, B C meeting in the point B, which is the vertex of the angle.

Angle
Angles are either rectilineal, or right-lined, as ABC, above referred to; or curvilineal, as DEF (fig. 2. No. 2.); or, lastly, formed of a straight line and a curve one, and thence called mixed, as HIG (ibid. No. 3.)

Angles are of great use in almost every branch of mathematics. They make one half the subject of trigonometry, and have much to do in geography, astronomy, &c.

Rectilineal ANGLES, according to the greater or lesser degree of inclination, are either right, acute, or obtuse.

Right Angle, is that formed between two lines, one of which stands upright, or perpendicularly, on the other, inclining no more one way than it does the other: such is the angle EBC; (ibid. No. 4.) for if BC be produced to D, E B will be found to stand upright on DC, or to incline neither way. A right angle is said to be an angle of ninety degrees, because measured by a quadrant of a circle, or \[90^\circ = 90\]; so that a right angle, or an angle of ninety degrees, is the same thing.

Acute Angle, one whose vertex is acute, or sharp, being always less than a right angle: such is the angle A B C; (ibid.)

Obtuse Angle, one with a blunt or obtuse vertex, as ABD, which is always greater than a right angle; (ibid.)

Angles likewise receive other denominations from their different positions, and the relation they bear to the figures they are in, and to the lines which form them. Hence,

Angles in a semi-circle, those subtended by the diameter of that circle, as DFC, DGC, (ibid.) which are always right angles.

Angle at the center, that formed by two radii, or semi-diameters of a circle, as OCN (ibid. No. 5.)

Angle at the circumference, or in a segment, that formed by two chords of a circle meeting at the circumference: such is OPN, (ibid.) which is only half of the angle at the center OCN, subtended by the same chord ON; or, which comes to the same thing, it is equal to half the arc OSN. Moreover, all angles in the same segment, and consequently subtended by the same chord ON, as OQN, OPN, ORN, are equal to one another.

Angle of a semi-circle, that formed by a diameter and the circumference of a circle, as BAO, (ibid. No. 6.) which is less than a right angle, and yet greater than any rectilineal acute one.

Angle of a segment, that which a chord in a circle makes with the tangent at the point of contact: such are the angles EDC, FDC; the former being the angle of the greater segment, and the latter of the less segment (ibid.)

Angle of contact, that which the tangent of a circle forms with its circumference, as EDA, (ibid.) which is less than any right-lined angle.

Angles are said to be adjacent or contiguous, which have one leg common to both, as DGI and DGE, (ibid. No. 7.) which taken both together are equal to two right angles.

Opposite, or vertical Angles, those formed by two lines crossing each other, as the angles DGI, EGF, (ibid.) which are always equal.

An angle is also said to be opposite to the side that subtends it; thus GHF is to the side opposite GF.

Again, when one of the sides of a triangle is produced, as from F to K, (ibid.) the external angle GFK, is equal to the two internal angles FGH and FHG, which are said to be opposite to it.

Alternate Angles, the internal angles of acute or obtuse angles, formed by a right line DL cutting two parallel right lines IE, HK (ibid.): such are EGF and GFB, both acute and equal; also the obtuse ones IGF and GFK, likewise equal.

Spherical Angle, that formed by the intersection of two great circles of the sphere.

Solid Angle, that formed by the meeting of three or more plane angles, not being in the same plane, in one point: such is the angle of a dice, of a square box, or the like.

In regard to solid angles, it has been demonstrated, that the plane angles forming them, are always less than three hundred and sixty degrees, or four right angles.

For the other properties and appellations of angles, when combined in triangles, squares, polygons, circles, &c. see the articles Triangle, Square, &c.

For the lines, tangents, and secants of angles, see the articles Sine, Tangent, and Secant.

And, lastly, for the various denominations of angles, peculiar to different branches of mixt mathematics, as navigation, fortification, optics, mechanics, astronomy, &c. See the articles Navigation, Fortification, &c.

Angle
The several methods of angling for salmon, trout, carp, tench, perch, pike, dace, gudgeons, roach, flounder, &c., may be seen under the articles Salmon Fishing, Trout Fishing, &c.,


**ANGLO-CALVINISTS**, a name given by some writers to the members of the church of England, as agreeing with the other calvinists in most points, except church-government. See CALVINISTS.

**ANGLO-SAXON**, an appellation given to the language spoken by the English Saxons, in contradistinction from the true Saxon, as well as from the modern English. See SAXON and ENGLISH.

**ANGOL**, a city of Chili, in South America, situated in 78° west longitude, and 38° south latitude.

**ANGOLA**, a large maritime country on the south-west side of Africa, lying between 10° and 15° east longitude, and 5° 16' south latitude.

The Portuguese have several colonies and considerable settlements on this coast, which does not hinder the other nations of Europe from driving a traffic in slaves with the natives, who are all negroes.

**ANGOLA-SEEDS**, the same with mouluca-beans. See MOLUCCA.

**ANGONÉUS**, in anatomy, a name sometimes given to the mulcif, called by the generality of writers anconæus. See the article ANCONÆUS.

**ANGOR**, among ancient physicians, a concentration of the natural heat, the consequence of which is a pain of the heart, palpitation, and faintness. It is a very bad prognostic in the beginning of acute fevers.

**ANGOULESME**, a city of France, situated about sixty-four miles south-east of Rochelle, in 90° east longitude, and 45° 40' north latitude. It is the capital of Angoumois. See the next article.

**ANGOUMOIS**, a province of France, bounded by Poitou on the north, by Limousin
Limosin on the east, by Perigord on the south, and by Sainton on the west.

**ANGONRA, or ANCYRA, a large populous city of Natolia, in Asia Minor, situated on the river Melus:** east longitude 33°, north latitude 41° 5'.

**ANGRA, the principal town of the island of Tercera, one of the Azores.** See the article AZORES.

**ANGROGANIA, a town of Piedmont, situated about seven miles west of Pignerol:** east longitude 7°, north lat. 44° 43'.

**ANGUIAN, or ANGUIA, a small town of the Netherlands, between Brussels and Mons.**

**ANGUILLA, or ANGUILLARA, a town in the territory of the Netherlands, between Brussels and Mons.**

**ANGUILLARUM, or ANGUINEAL,** denotes something resembling them in shape.

**ANGULOSPETUS, or ANGULOSPERTUS,** sometimes used for the eel.

**ANGULATA, or ANGULATUM,** denotes something resembling the eel, as well as for a species of moris.

**ANGULUS, or ANGULATION,** denotes something resembling a nail. It was worn by the Roman knights, as the sign from its capital Forfar. See the article TRICHOSEANTHUS.

**ANGURIA, in botany, a name used by different authors for two very distinct genera of plants, called by Linnaeus Calla and Trichosanthes.** See the articles CALLA and TRICHOSEANTHUS.

**ANGUINEAL,** denotes something resembling a snail, *anguis.* Hence we say, anguineal curve, hyperbola, verie, &c. See the articles CURVE, HYPERBOLA, &c.

**ANGUINUM OVVM, among ancient naturalists, a fabulous kind of egg, laid to be produced by the saliva of a cluster of serpents, and possessed of certain magical virtues.**

This name is also given by Mercatus to the *lapis scolopendritae.* See the article SCOLOPENDRITES.

**ANGUIS, in zoology, a genus of amphibious animals, with a round body, covered over with scales, without any scuta.**

This genus comprehends the *viperia, cecilia, apis, matrix, caudifera, cobra, emdris, hydrus,* and *anguis scolopendri.* See the articles VPER, CECILIA, &c.

**ANGULAR, in a general sense, denotes something relating to, or that hath angles.** See the article ANGLE.

**ANGULAR, in botany, a name sometimes given to the ephedra of Linnaeus.** See the article EPHEDEA.

**ANGUREK, in botany, a name sometimes given to *Trichosanthes.***

**ANGURI, in botany, makes a distinct genus of plants, according to Tournefort; but is comprehended by Linnaeus among the cucumbers.** See CUCUMBER.

**ANGUS, a shire or county of Scotland,** bounded on the north by the shire of Merns; on the east, by the German ocean; on the south, by the frith of Tay, which divides it from the shire of Fife; and on the west, by the shire of Perth.

This county, which for the most part is exceeding fertile, is otherwise called Forfarshire, from its capital Forfar.

**ANGUSTICLAVIA, in Roman antiquity, a tunica embroidered with little purple studs, according to most antiquarians; but Rubennius pretends that it was an oblong band of purple woven in the tunica, resembling a nail. It was worn by the Roman knights, as the laticlavia was by the senators.**

**ANHALT, a province of the circle of upper Saxony, in Germany, lying southward of the duchy of Magdeburg.**

**ANHELATIO, or ANHELITUS, among physicians, a shortness of breath which happens to found persons, but especially to valetudinarians, after violent exercise.** See the article ASTHMA.

**ANHELMUS, among chymists, signifies horie-dung.**

**ANHIMA, in ornithology, a Brazilian bird, resembling in some degree a crane; from which, however, as well as from all other birds, it is distinguished by a slender horn of a bony substance, inserted a little above the origin of its beak; its wings too have each a horn of this kind, growing out of the fore-part of the bone. It is longer than a swan, and mottled with black, grey, and white, with a very little yellow in some places.** See plate XVIII. fig. 3.

**ANHINGA, in ornithology, an extremely beautiful water-fowl of the Brasils, about the size of our common duck. Its beak is about three fingers breadth long, and has a row of hooked prickles both above and below; its neck is slender and long;
ANI

its head and neck are yellowish; the upper part of the back is brown, spotted with yellow; and the breast, belly, and thighs, are of a silvery white. See plate XVIII. fig. 4.

ANHUIBA, in botany, a name sometimes given to the saffafiras-tree. See the article Sassafras.

ANHYDROS, in botany, a name used by the ancients for several species of the Solanum, or night-shade. See the article Solanum.

ANI, in ornithology, a brazilian bird about the size of a thrush, all over black, and seeming to belong to the paroquette-family.

ANIAN, a large maritime country on the eastern coast of Africa, lying between the equator and 12° north latitude, and between 40° and 50° east longitude.

ANIAN is also the name of a strait, supposed to lie between the north-eaft of Asia, and north-west of America.

ANJengo, a small town and factory on the malabar-coaft, belonging to our east-india company.

ANIENT, or ANIente, a law term, signifying to be void, or of no force.

ANIL, in botany, the name by which Morison calls the plant which produces the indigo. See the article Indigo.

ANIMA, among divines and naturalists, denotes the soul, or principle of life, in animals. See the article Soul.

ANIMA, in a less proper sense, is used for the principle of vegetation in plants. See the article Vegetation.

ANIMA, among chemists, denotes the volatile or spirituous part of bodies.

ANIMA, among physicians, a term sometimes given to highly refined medicines, or such as are possessed of an extraordinary virtue. Thus, we read of anima rhabarbari, anima pulmonum, &c. the former, denoting an extract of rhubarb, and the latter faffron, on account of its supposed efficacy in disorders of the lungs. Thus also, anima hepatis, is a name by which some call sal maris, or salt of iron, on account of its efficacy in diseases of the liver.

ANIMA articulorum, an appellation given to hermodactyls, as being good in disorders of the joints. See the article Hermodactyl.

ANIMA fettina, a white powder obtained by pouring distilled vinegar on litharge, of considerable use in enameling. See the article Enamel.

ANIMA mundi, i. e. soul of the universe, is by some defined to be a certain, pure, etherial substance, which being diffused through the mass of the world, informs, actuates, and unites the divers parts of it into one great, perfect, organical body. The animamundi of the modern platonists, is an etherial spirit which exists pure in the heavens, but pervading elementary bodies on earth, assumes something of their nature, and thence becomes of a peculiar kind.

Others define it to be an ignific virtue infused into the chaos, and disseminated through the whole frame for the conservation, nutrition, and vivification of it. The anima mundi is rejected by most of the modern philosophers, altho' many of them substitute something very much like it. Thus the cartesians have their subtle matter; some later philosophers have admitted fire; and others, an elastic spirit or medium diffused through all the parts of space.

ANIMA, or ANIMATO, in music, the fame with allegro. See Allegro.

ANIMACHA, a river of India, in the kingdom of Malabar. It rises in the kingdom of Calicut, and falls into the ocean six leagues from Cranganor.

ANIMACHA is also the name of a town upon that river.

ANIMADVERSION, in matters of literature, is used to signify, sometimes correction, sometimes remarks upon a book, &c. and sometimes a serious consideration upon any point.

ANIMAL, in natural history, an organized and living body, which is also endowed with sensation: thus, minerals are said to grow or increase, plants to grow and live, but animals alone to have sensation.

The description; history, and classing of animals, makes not only a considerable, but the most excellent part of natural history, known by the name of zoology. See the article Zoology.

Different authors have established different divisions of families of animals; but the most natural one seems to be into quadrupeds, birds, fishes, amphibious animals, insects, and animacules, visible only by the help of a microscope. See the articles Quadruped; Bird, &c.

Generation of ANIMALS. See the article Generation.

ANIMALS, in heraldry, are much used, both as bearings and supporters.

It must be observed, that in blazoning,
ANIMAL SYSTEM denotes the whole class of beings endowed with animal life, otherwise called animal kingdom.

ANIMAL ECONOMY. See ECONOMY.
ANIMAL OIL. See the article OIL.
ANIMALCULE, an animal so minute in its size, as not to be the immediate object of our senses.

Animalcules are seen only by the assistance of microscopes, and are vastly more numerous than any other part of the animal creation; but the species, on a close examination, are found to be extremely few, in proportion to the number of individuals. The most obvious distinction among them is, that some have, and others have not tails; and that some have, and others have not visible limbs. According therefore to these characters, they are arranged by Dr. Hill under three classes, distinguished by the names of gymnia, cercaria, arthronia; the first containing those which have no visible limbs, nor any tail; the second, those which have tails; the third, those which have visible limbs.

Animalcules are discovered by the microscope in most liquids, as water, wine, vinegar, &c. in several chalybeat waters, in oats, barley, &c., and in the pulsfules of the itch. Some authors pretend to have found them even in the human seed.

ANIMATED, or ANIMATE, in a general sense, denoted something endowed with animal life. See ANIMAL.

ANIMATED also imports a thing to be impregnated with vermin, or animacules; in which sense, all terrestrial bodies whatever may be said to be animated.

ANIMATED MERCURY, a term used by Mr. Boyle to denote mercury which being impregnated with spirituous particles, may grow hot when mingled with gold.

ANIMATED NEEDLE, is one touched with a loadstone. See NEEDLE and MAGNET.

ANIMATED POWER, in mechanics, denotes a man, or other animal, in opposition to weights, &c.

ANIMATED HORSE-HAIRS. See the article HORSE-HAIRS.

ANIMATION signifies the informing an animal body with a soul. Thus the foetus in the womb is said to come to its animation, when it begins to act like a true animal.

ANIMATION, among alchemists, in the transmutation of metals, is when the white foliated earth is to be fermented with the celebral water of sulphur.

ANIMATION is also used figuratively, for the act of giving life and energy to a discourse.
ANIME, or GUM ANIME, in natural history and pharmacy, a kind of gum, or rather resin, being a friable substance, inflammable, and soluble in oil. There are two kinds, the oriental and occidental: the oriental is a dry resin, brought in large cakes, and of a very uncertain colour, some being greenish, some reddish, and some of the colour of myrrh. The occidental is a yellowish white, resembling frankincense in colour. Both kinds are used in perfumes; and in medicine externally, for cold flatulent affections of the head, nerves, and joints, palpitations, contractions, contusions, &c.

ANIME, in heraldry, a term used when the eyes of any rapacious creature are borne of a different tincture from the creature itself. We also say, incensed of such or such a tincture.

ANIMETTA, among ecclesiastical writers, denotes the cloth wherewith the cup of land, one in the province of Anchas, passes to give absolution.

ANIMI LIQUIUM, fainting, or swooning, in medicine. See LIPOTHEMY and SWOONING.

ANINGA, in commerce, a root which grows in the Antilles islands, and is pretty much like the china plant. It is used by sugar bakers, for refining the sugar, and is more effectual and less dangerous than the sublimate of mercury and arsenic.

ANJOU, a county, or rather earldom of France, bounded by the province of Maine on the north, by Touraine on the east, by Poitou on the south, and by Brittany on the west.

ANISCALPTOR, in anatomy, a name by which some call the latifimus dorsi. See the article LATISSIMUS.

ANISE, animum, in the materia medica, a small seed, of an oblong shape, ending each way in an obtuse point, with a surface very deeply striated, and of a lax and brittle substance. The plant which produces it is of the pentandria-digyna class of Linnaeus. The beet seed is what is fresh, full, free from mouldiness, and has a very strong smell. It is of a hot nature, good to expel wind out of the bowels and stomach, and is used by the confectioners in sugar-plums, of various denominations. There is extracted from it when bruised, an oil, which, as well as that expressed from it when bruised, answers all the purposes of the seed itself; and during the distillation, there comes off a water called anise-feed water, which is a celebrated cordial and carminative.

ANITERSOR, in anatomy, a name by which some call the latifimus dorsi. See the article LATISSIMUS.

ANKER, a liquid-measure at Amsterdam. It contains about thirty-two gallons English measure.

ANNA, in roman antiquity, an appellation given to the moon. See the article Moon.

ANNA, in geography, a city of Arabia Petraea, situated on the western shore of the river Euphrates, in 41° 35' of east longitude, and 35° 30' north lat.

ANNAACIOUS, a people of Brasil, in America, whose country borders on the government of Porto Seguro.

ANNABERG, a small town of Germany, in the province of Misflia, situated near the river Schop, about eleven German miles from Leipzic.

ANNAGH, the name of two towns in Ireland, one in the province of Ulter, and the other in the county of Downe.

ANNALE, in the church of Rome, a term applied to the masses celebrated for the dead, during a whole year.

ANNALS, annales, in matters of literature, a species of history, which relates events in the chronological order wherein they happened. They differ from perfect history in this, that annals are a bare narration of events, the writers who imitated this simple method called annales maximi; and hence the writers who imitated this simple method of narrating facts were called annalists.

ANNALES, in law. See YEARLINGS.

ANNAMABOE, an English factory on the gold-coast, in Guinea, in Africa.

ANNAND, the capital of the shire of Annandale, in Scotland, situated upon a river of the same name, in 3° west longitude, and 54° 40' north latitude.

ANNAPOLIS, the capital of Maryland, a British colony in north America, in 78° west longitude, and 90° 25' north lat.

ANNAPOLIS is also the name of the capital of Nova Scotia, situated in 64° west longitude, and 45° north latitude.

ANNATES,
ANNATES, among ecclesiastical writers, a year's income of a spiritual living. These were, in antient times, given to the pope throughout all christendom, upon the decease of any bishop, abbot, or parish-clerk, and were paid by his successor. In England, the pope claimed them first of such foreigners as he conferred benefices upon, by way of provision; but afterwards they were demanded of all other clerks on their admission to benefices. At the reformation they were taken from the pope, and vested in the king; and finally, queen Anne restored them to the church, by appropriating them to the augmentation of poor livings.

ANNEALING, or Nealing, the burning or baking glass, earthen-ware, &c. in an oven or furnace. See Nealing.

ANNEALING of glass. } Glast.
ANNEALING of iron. } Iron.
ANNEALING of steel. } Steel.

ANNE, or St. Anne's day, a festival of the christian church, celebrated by the Latins on the twenty-sixth of July, but by the Greeks on the ninth of December. It is kept in honour of Anne, or Anna, mother of the Virgin Mary.

ANNECY, a town of the duchy of Savoy, situated upon a lake of the same name, subject to the king of Sardinia; in 6° 10' east longitude. and 46° north lat.

ANNEXATION, in law, a term used to imply the uniting of lands or rents to the crown.

ANNU NUBILES, in law, denote the marriageable age of a woman, viz. after she has arrived at twelve.

ANNIENTED, in law, signifies annulled or made void.

ANNIHILATION, the act of reducing any created being to nothing. Annihilation stands opposed to creation, and both are the works of omnipotence; for bodies naturally admit of changes and alterations in their forms, but not of annihilation. It is objected against this notion of annihilation, that it requires an act; whereas, according to the opinion of some philosophers, annihilation must ensue upon God's merely ceasing to act. Annihilation, in a moral sense, is sometimes used: thus, the capital of the fourth sea is reduced to one half; and unless great care be taken, the male practices of brokers will soon render another annihilation necessary.

ANNIS COMMUNIBUS. See the article Communibus annis.

ANNIS-SEED. See Anise.

ANNIVERSARY, the annual return of any remarkable day. Anniversary days, in old times, more particularly denoted those days in which an office was performed for the souls of the deceased, or the martyrdom of the saints was celebrated in the church.

ANNOBON, an island of Africa, on the coast of Guinea, in 7° east longitude, and 10° 50' south latitude.

ANNO DOMINI, i.e. the year of our lord, the computation of time from our saviour's incarnation. The English is now inereted in the dates of all our deeds.

ANNOISANCE, in law, the same with nuisance. See the article Nusance.

ANNOMINATION, in rhetoric, the same with what is otherwise called paronomasia. See the article Paronomasia.

ANNONA, in roman antiquity, denotes provision for a year of all forts, as of flesh, wine, &c. but especially of corn. Annona is likewise the allowance of oil, salt, bread, flesh, corn, wine, hay, and straw, which was annually provided by the contractors for the maintenance of an army.

ANNONAE PRAEFECTUS, in antiquity, an extraordinary magistrate, whose business it was to prevent a scarcity of provision, and to regulate the weight and fineness of bread.

ANNONAY, a town of France, in the upper Vivares, situated on the river Deume, in 5° 22' east lon. and 45° 15' north lat.

ANNO, a small city in the mountains of Provence, in France, in 7° east lon. and 44° 4' north latitude.

ANNOTATION, in matters of literature, a brief commentary, or remark upon a book or writing, in order to clear up some passage, or draw some conclusion from it: thus the critics of the last age have made learned annotations upon all the classics.

ANNOTATION, among physicians, the beginning of a febrile paroxysm, when the patients use to shiver, to yawn, shiver, and be dryly.

Annotation is also proper to hectic fevers, and happens when the patient, an hour or two after eating, feels an increase of heat, with a flittering pulse, but without any of the forementioned symptoms.

ANNUA PENSIONE, in law, an old writ for granting an annual pension to one of the king's chaplains.
ANNUAL, in a general sense, an appellation given to whatever returns every year, or is always performed within that space of time: thus we say, the annual motion of the earth, annual plants, &c. See the articles Earth, Plant, &c.

ANNUAL ARGUMENT of longitude. See the article Argument.

ANNUAL FACT, in chronology. See the article Fact.

ANNUAL EQUATION, in astronomy. See the article Equation.

ANNUAL, or ANNUAL, in the Scotch law, any yearly revenue, or rent, payable at the two great terms, Whitmas and Martinmas.

ANNUENTES MUSCULI, in anatomy, the same with regi interni minores. See the article Regi.

ANNUITY, a yearly income arising from money, &c. and either paid for a term of years, or upon a life.

Annuities are said to be in arrear, when they are due either yearly or half yearly, and are unpaid for any number of payments. If, therefore, the amount of annuities in arrear, at simple interest, be wanted, let a be the annuity, \( r \) the rate of one pound per annum, \( m \) the amount thereof, and \( n \) the number of years; then \( a + nr \) will be the amount of the first year's annuity, \( a + 2nr \) of the second year, \( a + 3nr \) of the third, and \( a + n - 1 \times nr \) will be the \( n \) year's amount: wherefore \( m \), the sum of those amounts, will be equal to 
\[
na + \frac{n(n - 1)}{2}ar.
\]
So that when any of these four quantities \( m \), \( a \), \( n \), \( r \) are given, the value of the fourth may be easily found, as in the following table:

<table>
<thead>
<tr>
<th>Prob.</th>
<th>Given</th>
<th>Required</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>( nr ) ( m )</td>
<td>( na + \frac{n(n - 1)}{2}ar )</td>
<td>( \frac{x - 1}{x} \times \frac{nx - 1}{x}a )</td>
</tr>
<tr>
<td>2</td>
<td>( m ) ( nr ) ( a )</td>
<td>( \frac{2m}{z + nr - r \times n} )</td>
<td>( \frac{2 + 2nrxs}{2s - an + a \times n} )</td>
</tr>
<tr>
<td>3</td>
<td>( n ) ( r )</td>
<td>( \frac{m - na \times 2}{n - 1 \times na} )</td>
<td>( \frac{z + z \times r + a \times 2a = 0}{2ra} )</td>
</tr>
<tr>
<td>4</td>
<td>( m ) ( r ) ( a )</td>
<td>( \frac{a + \frac{z + n - 1}{2} + 8m \times r}{2ra} )</td>
<td>( \frac{\sqrt{x - 1} \times \sqrt{x - 1} \times x}{x} )</td>
</tr>
</tbody>
</table>

Supposing \( 2a - ra = z \)

But if the interest be compound, and \( x = 1 + r \) be equal to the principal and interest of one pound, at any given rate, then any three of the four quantities \( a \), \( m \), \( n \), \( r \) being given, the fourth will be found as under:

\[
L = \frac{L - 1 \times m + a - La}{L x}.
\]

It being the logarithm of \( x - 1 \) and \( a \).

If the discount in buying and selling annuities at simple interest be wanted; then since the amount of one pound for any time is to one pound as the amount of an annuity is to its present value, that is, \( \frac{1 + nr}{1} : \frac{na + m - n \times ar}{2} \). Therefore,

\[
\frac{2 + 2nrxs}{2s - an + a \times n} \end{array}
\]

But when it is compound interest:

\[
s \end{array}
\]

And if \( n \) be supposed to be infinite, \( a \) being the annual rent, \( s \) will be equal to \( sx - a \). If then it is required to find how many years purchase, at compound interest, any annuity is worth, \( n \) will be equal to \( \frac{1}{x - 1} \), and \( x = \frac{n - 1}{n} \). As
As to the doctrine of annuities upon lives, founded upon bills of mortality, see Dr. Halley's Discourse in the Philosophical Transactions. De Moivre's treatise, and the article Life-annuity.

There are several differences in law between an annuity and a rent; every rent is flowing out of lands, but an annuity charges only the grantor, his heirs, &c. Also no action lies for an annuity but the writ of annuity; but for the recovery of rent, the same remedy lies as for lands.

Annular, in a general sense, something in the form of, or resembling a ring. Hence,

Annular, in anatomy, is an appellation given to several parts of the body: thus, the annular cartilage is the second cartilage of the larynx; annular ligament, that which encompasses the wrist, and binds the bones of the arm together; annular process, or protuberance, a part of the medulla oblongata. See the articles Cartilage, Ligament, &c.

Annular is also a peculiar denomination of the fourth finger, commonly called the ring-finger.

Annulata, in zoology, a species of coluber. See the article Coluber.

Annulet, in architecture, a small square member in the doric capital, under the quarter-round. Annulet is also a narrow flat moulding, which is common to divers places of the columns, as in the bafes, capitals, &c. It is the same member which Vitruvius calls a fillet; Palladio, a liftel or cincture; Scamozzi and Mr. Brown, a supercillium, lift, tinea, eye-brow, square, and rabbit.

Annulet, in heraldry, a mark of distinction which the fifth brother of a family ought to bear in his coat of arms. The hieroglyphic of the annulet is very various: some of the antients used it to denote servitude; the romans represented it by liberty and nobility. It is an emblem of secrecy; if it have a seal; and of love, if the cypher, the face, or the arms of the person beloved are engraved upon it.

Annulling, a term sometimes used for cancelling, or making void, a deed, sentence, or the like.

Annunciada, Annuntiada, or Annuntiata, an order of knighthood in Savoy, first instituted by Amadeus I. in the year 1409; their collar was of fifteen links, interwoven one with another, in form of a true lover's knot, and the motto F. E. R. T. signifying fortidudo ejus Rerum tenuit. Amadeus VIII gave the name Annunciada to this order, which was formerly known by that of the knot of love, changing, at the same time, the image of St. Maurice, patron of Savoy, which hung at the collar, for that of the Virgin Mary; and instead of the motto abovementioned, substituting the words of the angel's salutation.

Annunciada is also the title of several religious orders, instituted at different times, and at different places, in honour of the announcement. See the next article.

Annunciation, the tidings brought by the angel Gabriel to the Virgin Mary, of the incarnation of Christ. Annunciation is also a festival, kept by the church on the twenty-fifth of March, in commemoration of these tidings: it is of very great antiquity. In the comith church, on this feast the pope performs the ceremony of marrying or cloytering a certain number of maidsens, who are presented to him in the church della Minerva, cloathed in white ferje, and muffled up from head to foot; an officer stands by, with purses containing notes of fifty crowns for those who make choice of marriage, and notes of an hundred for those who choose the veil. Annunciation is likewise a title given by the jews to part of the ceremony of their passover.

Annuntiator, the name of an officer in the church of Constantinople. It was his business to inform the people of the festivals that were to be celebrated.

Anoctoron, a term used by some ecclesiastical writers for a church. See the article Church.

Anocisti, in the history of shell-fish, a denomination given to a class of echini marini, with the anus at the top of the shell. See the article Echinius.

Anodyne, in pharmacy, a term applied to medicines which mitigate pain. Anodynes are of two kinds; the first proper, called also paregorics; the second improper, because they rather flupify than alleviate, and are known by the name of hypnotics and narcotics. See the article Hypnotics, &c.

Among anodynes may be reckoned all relaxing medicines, diluters, and medicines which by any means destroy acrimony or expel wind, together with the compound medicines of the shops, which pass under this name; such is the ano-

dyne
ANO

[158]

ANO

dyne balsam made of castile soap, opium, camphire, saffron, and spirit of wine, accounted excellent in allaying the tortures of the gout; and in obstructions of the urinary passages.

ANOlympiaD I S, anolympiaD I S, in grecian antiquity, an appellation given by the Eleans, to such Olympic games as had been celebrated under the direction of other states besides themselves. See the article OLYMPIAD.

AnomolIstIcal yeA r, in astraromy, the time that the earth takes to pass through her orbit; it is also called the periodical year.

The space of time belonging to this year is greater than the tropical year, on account of the preceffion of the equinoxes. See the article PRECESSION.

Anomalous, in a general sense, is applied to whatever is irregular, or deviates from the rule observed by other things of the like nature.

Anomalous verbs, in grammar, such as are not conjugated conformably to the paradigm of their conjugation; they are found in all languages; in Latin the verb *loco* is the paradigm of the third conjugation, and runs thus, *loco*, *legis*, *legit*; by the same rule it should be *fero*, *feris*, *ferit*, but we say *fero*, *feris*, *ferit*; *fero* then is an anomalous verb. In English the irregularity relates often to the preter tené, and passive participle; for example, *gave*, were it formed according to rule, would make *gived* in the preter tené, and passive participle; whereas, in the former, it makes *gave*, and in the latter *given*.

Anomaly, in grammar, that quality in words which renders them anomalous. See the preceding article.

Anomaly, in astronomy, an irregularity in the motion of the planets, whereby they deviate from the aphelion or apogee; which inequality is either mean, excentric, or coequate and true.

Mean Anomaly, in the old astronomy, is the distance of a planet from the line of the apses, according to its mean motion; thus, if E S D (plate XIX. fig. 1. n°. 1.) be the sun's orbit, A M N B the ecliptic, the earth at T, the sun at S, and A B the line of the nodes; then is the angle A T M, or the arch A M, the sun's mean anomaly.

But, in the new astronomy, where a planet, at P, describes an ellipse A P B A (ibid. n°. 2.) about the sun, situated in the focus S, the mean anomaly is the arch, or angle, or trili-
near area A S P, contained under the line of the apses A B (viz. the transverse axis) and the line S P, which is proportional to the time. Again, drawing Q P H perpendicular to A B, and S F perpendicular to the radius Q C, continued, the mean anomaly will be represented by the trilinear circular area A Q S, or by the arch A Q + S F; as is demonstrated by astronomers.

Excentric Anomaly, in the new astronomy, is an arch A Q of the excentric circle A Q B, terminated by A B, and by the line Q H, drawn through the centre of the planet P, perpendicular to A B.

Coequate or true Anomaly is the distance of the sun from its *apogee*, or of a planet from its *aphelion*, where it is seen from the sun; that is, it is the angle A S P at the sun, under which the planet's distance from the *aphelion* appears.

For a farther account of anomaly, see Gregory, Keil, &c.

Anomoeans, in church-history, ancient heretics, who asserted, that the Son was of a nature different from, and in nothing like to that of the father. This was the name by which the pure arians were distinguished, in contradistinction to the semi-arians, who acknowledged a likeness of nature in the Son, at the same time that they denied, with the pure arians, the consubstantiality of the word. The semi-arians condemned the anomoeans in the council of Seleucia; and the anomoeans in their turn condemned the semi-arians in the council of Constantinople.

Anomorphomoidia, in natural history, a genus of crystalline spars, of no determinate form, easily sifille, but cleaving more readily in an horizontal than in a perpendicular direction, their plates being composed of irregular arrangements of short and thick rhomboidal concretions. See the article Spar.

Anona, in botany, a genus of plants, belonging to the *polyandra-polygynia* class of Linnaeus: the perianthium is composed of three cordated, hollowed, and acuminated leaves; the corolla consists of six cordated filice petals, three alternately interior and smaller: the flamina are scarce visible, but the antherae are numerous: the fruit is a large berry, of an oval figure, covered with a squamous punctuated bark: the seeds are numerous, hard, of an oblong figure, and are placed circularly.

Anonis,
ANONIS, REST-HARROW, in botany, a
genus of plants, the flower of which is
papilionaceous, and its fruit a turgid
villiöse pod, containing a few kidney-like
seeds.

This genus belongs to the diadelpho-
diandra class of Linnaeus, who calls it
ononis.

ANONYMOS, in botany, the name by
which Gronovius calls the chelone of Lin-
naeus. See the article CHELONE.

ANONYMOUS, something that is name-
less, or of which the name is concealed.
It is a term usually applied to books which
do not express the author's name, or to
authors whose names are unknown.

ANONYMOUS, in chemistry. See the ar-
ticle ADIAPHOROUS.

ANONYMOUS, in anatomy, an appellation
given to parts newly discovered, and con-
sequently without any proper names: thus
the annular cartilage of the throat, known
frequently without any proper names: thus
genus of plants, the

kecl.
papilionaceous,
which Gronovius calls the
ononis.
do not express the author's name,
authors whose names are unknown.
ticle
given to parts newly difcovered, and
ill difpolition
An anorexy is occafioned either from an
f~rent,
dundancy of humours. The cure is dif-
ring,

ring, which has Norway on the north, Jutland
and the ring
ille

13° east longitude, and 56° 36' north lat.

ANS, or duck-kind. 3. The mergus.
4. The alca. 5. The colymbus, or diver-
kind. 6. The larus, or gull-kind, &c.
See the articles PELICAN, ANAS, &c.

ANSE, more particularly, used for the
common goofe. See the article GOOSE.

ANSE, in aeronautics, a star of the fifth or
sixth magnitude, in the milky-way, be-
tween the fwan and eagle.

ANSES, in aeronautics, the fame with an-
SE. See the article ANSE.

ANSIANACTES, a people of Africa, in
the western part of the ifle Madagascar.

ANSLO, a tea-port town of Norway, and
province of Aggerhuys, situated in 10°
12' east long., and 59° 30' north lat.

It is the capital of the marquifate of An-
spach, of which family was the late queen
Caroline.

ANSPESSADES, in the french armies,
a kind of inferior officer in the foot, below
the corporals, but above the common cen-
tinels. There are usually four or five of
them in a company.

ANSTRUTHER EASTER, two royal burghs of Scotland, situated
on the south-eaft coast of the county of Fife, in 2°
35' weft longitude, and 56°
26' north latitude.

ANSWER, the reply made to a queftion.

To answer for a man, in a commercial
senfe, signifies to be his furety.

ANSWER, in law. See REJOINDER.

FOREIGN ANSWER. See FOREIGN.

ANT, formica, in zoology, a well-known
insect, much celebrated for its industry
and economy.
The ant makes a definite genus of insects,
of the order of the hymenoptera, or those
with membranaceous wings; and is dif-
tinguished from the other genera of this
order, by having an erect squama, or fcaly
body, placed between the thorax
and abdomen.

Ants are all furnished with four wings,
excepting the mules, as they are called, or
those of no fex, which have none at all.

Of this genus we have the following spe-
cies in England: 1. A small blackifh
ant. 2. A small reddifh brown ant. 3.
A middle-sized black ant. 4. A middle-
sized reddifh ant. 5. The great ant,
or horfe-ant, alfo known by the name of
hippomyrmex.

ANT-BEAR, in zoology. See the article
MYRMEOPHAGA.

ANT-EGGS. See the article EGG.
ANT-HILLS, in husbandry. See the article Hill.

ANTA, in the antient architecture, a square pillar, placed at the corners of buildings.

Anta is used by M. Le Clerc for a kind of shaft of a pillar, without base or capital, and even without any moulding.

ANTA, in zoology, an American animal, resembling an ass in every respect, except that its ears are shorter.

ANTALIUM, in ichthyology, a shell-fish, from its tubular shape.

ANTALIUM, a name used by different authors for two distinct fishes, the singlas-fish and the furgeon.

ANTACHATES, in natural history, a bituminous stone, which yields a smell like myrrh, in burning.

ANTACIDS, in pharmacy, an appellation given to all medicines proper to correct acid, or four humours: such are the absorbent and obdurent clusses, together with the clusses of immutants, or alterants, particularly lixious salts and soap.

ANTAGONIST, antagōnista, denotes an adversary, especially in speaking of combats and games.

ANTAGONIST MUSCLES, in anatomy, those which have opposite functions, as flexors and extensors, adductors and adductors, &c.

ANTEALE, in the history of shell-fish. See the article ANTAGALUM.

ANTALGICS, antalgica, in pharmacy and medicine, the same with anodynes. See the article ANODYNE.

ANTALIUM, in ichthyology, a shell-fish, otherwise called tubius marinus, from its tubular shape. See Tubulus.

ANTAMBA, a beast of prey resembling a leopard, found in the island of Madagascar.

ANTANAACLASIS, in rhetoric, a figure which repeats the same word, but in a different sense, as, dam vivimus, vivimus.

ANTANAGOGE, in rhetoric, a figure by which, when the accusation of the adversary is unanswerable, we load him with the same, or other crimes.

ANTANISOPHYLLUM, in botany, the name by which Vaillant calls the boerhaavia of Linnaeus. See Boerhaavia.

ANTAPHRODISIACS, in pharmacy, medicines proper to diminish the seed, and consequently extinguish or lessen all desires of venery.

ANTARCTIC, in a general sense, denotes something opposite to the arctic, or northern pole. Hence

ANTARCTIC CIRCLE, in geography and astronomy, is one of the lesser circles of the sphere, and distant only 23° 30' from the south pole, which is likewise called antarctic, for the same reason.

ANTARES, a star of the first magnitude, otherwise called the scorpion's heart. See the article SCORPION.

ANTAVARES, a people of the southern part of Madagascar, between the country Matane to the south, and the Vohimenes to the north.

ANTE', in heraldry, denotes that the pieces are let into one another in such form as is there expressed, as, for instance, by dove-tails, rounds, swallows tails, or the like.

ANTEAMBULONES, in roman antiquity, servants who went before persons of distinction, to clear the way before them. They used this formula, Date locum domino meo; i.e. make room, or way, for my matter.

ANTECEDENT, in general, something that goes before another, either in order of time or place.

ANTECEDENT DECREE, among schoolmen, is a decree preceding some other decree, or some action of man, or the prevision of that action. It is much disputed, whether predestination be a decree antecedent or subsequent to faith.

Antecedent will, or desire, is that in which in God precedes another will or desire, or some knowledge or prevision.

But it is to be remarked, that these terms are applied to God only in respect to the order of nature, and not to an order of succession.

ANTECEDENT NECESSITY. See the article Necessity.

ANTECEDENT, in grammar, the word to which a relative refers: thus, God whom we adore, the word God is the antecedent.

ANTECEDENT, in logic, is the first of the two propositions in an enthymema. See the article ENTHYMEMA.

ANTECEDENT, in mathematics, is the first of two terms of a ratio, or that which is compared with the other, as in the ratio of 2 to 3, or a to b, 2 and a are each antecedents.

ANTECEDENT SIGNS, in medicine, such as are observed before a distemper is so formed as to be reducible to any particular class, as a bad disposition of the blood,
blood, which precedes an infinite number of diseases.

**ANTECEDENT TERM,** in mathematics, the first one of any ratio; thus, if the ratio $a : b$, $a$ is the antecedent term.

**ANTECEDENCE,** **anteecedentia,** in astrology, an apparent motion of a planet towards the west, or contrary to the order of the signs, *viz.* from taurus towards aries, &c.

**ANTECEDENCY**, or **ANTECEDENCE**, in a general sense, denotes the property or prerogative of being antecedent. See the article **ANTECEDENT**.

**ANTECESSOR**, one that goes before. It was an appellation given to those who excelled in any science: Justinian applied it particularly to professors of civil law; and in the universities of France, the teachers of law take the title antecedores in all their theses.

**ANTECHAMBER**, or **ANTICAMBER**. See the article **ANTICAMBER**.

**ANTECHRIST**, See **ANTICHRIST**.

**ANTECURSORES**, in the Roman armies, a party of horse detached before, partly to get intelligence, provisions, &c. and partly to choose a proper place to encamp in. These were otherwise called antecesores, and by the Greeks prodomi.

**ANTEDATE**, among lawyers, a spurious or false date, prior to the true date of a bond, bill, or the like. See **DATE**.

**ANTEDELUVIAN**, whatever existed before Noah's flood: thus, the generations from Adam to Noah are called the antediluvians. There are great disputes among philosophers about the form, constitution, figure, and situation of the antediluvian earth. Dr. Burnet contends that it was only a hollow crust, with an uniform equal surface, without mountains and without seas, and in all respects different from what we now find it to be. Dr. Woodward undertakes to prove that its appearance was the same as at present; that it had the same position in respect of the sun, and consequently the same vicissitudes of seasons: and Mr. Whitson imagines, that the chaos, of which our earth was formed, had been the atmosphere of a comet; that the annual motion of the earth began as soon as it assumed a new form; but that the diurnal motion did not take place till the fall of Adam; that before the deluge the year began at the autumnal equinox; that the orbit of the earth was a perfect circle: and that the solar and lunar years were the same, each consisting of just three hundred and sixty days. The state of the antediluvian philosophy has likewise been the subject of much debate among authors.

**ANTEGO**, one of the Caribbee islands, in the Atlantic or American ocean, situated in 63° west longitude, and 17° 30' north latitude. It is about twenty miles long, and as many broad.

**ANTEJURAMENTUM**, by our ancestors called *juramentum calumniae*, an oath which antiently both accuser and accused were to take before any trial or purgation. The accuser was to swear that he would prosecute the criminal; and the accused to make oath, on the day he was to undergo the ordeal, that he was innocent of the crime charged against him.

**ANTELOPE**, in zoology, a species of goat, otherwise called gazella. See the article **GAZELLA**.

**ANTEMURALE**, in the antient military art, denotes much the same with what the moderns call an out-work.

**ANTECLENEMA**, in rhetoric, called by the Latins *relatio*, is that when the fault is imputed, upon any misfortune happening, to the person to whom it happened; thus, Orestes blamed his Mother, Horatius his sister, and Milo blamed Clo­dius.

**ANTENNÆ**, in the history of insects, slender bodies with which nature has furnished the heads of these creatures; being the same with what in English are called horns, or feelers. See **HORN**.

**ANTEPAGMENTA**, in the antient architecture, the jambs of a door. They are also ornaments, or garnishings, in carved work, of men, animals, &c. made either of wood or stone, and set on the architrave.

**ANTEPENULTIMA**, in grammar, the third syllable of a word from the end, or the last syllable but two. The Greeks put the acute accent upon the antepenultima; and the Latins, when the penultimate is to be pronounced short, put it upon the antepenultima, as in the word *abominus*.

**ANTEPILANI**, in the Roman armies, a name given to the haftati and principes, because they marched next before the triarii, who were called pilani.

**ANTEPILEPTICS**, among physicians, medicines esteemed good in the epilepsy. See the article **EPILEPSY**.

**ANTEPOSITION**, in grammar, the placing a word first, which should stand last. **ANTE-**
ANTEPREDICAMENTS, among logicians, certain preliminary questions, which illustrate the doctrine of predicaments and categories. They are so called because Aristotle has placed them before the predicaments, in order to treat that subject afterwards without interruption. See PREDICAMENTS.

ANTEQUIERA, a town of Granada in Spain, situated in west longitude 4° 40', and north latitude 36° 40', about twenty-five miles north of Malaga.

ANTEQUIERA NOVA, an episcopal city of New Spain in America, in the province of Guaxaca.

ANTERIDES, in the ancient architecture, buttresses erected to support a wall. See the article BUTTRESS.

ANTERIOR, or ANTERIOUR, denotes something placed before another, either with respect to time or place.

ANTEROTES, in natural history, a name given by the antients to a species of amethyst. See the article AMETHYST.

ANTESIGNANI, in the roman armies, soldiers placed before the standards, in order to defend them, according to Livius and Sallust. The antelignani as the first line, or first body, of heavy-armed troops. The velites, who used to skirmish before the army, were likewise called antesignani.

ANTESTATURE, in fortification, a small retreatment made of palisadoes, or facks of earth, with a view to dispute with an enemy the remainder of a piece of ground. This term is grown obsolete. See the article RETRENCHMENT.

ANTEVIRGILIAN, an appellation given by Mr. Tull, to his new method of horie-hoeing husbandry. See the article HUSBANDRY.

ANTHAKIA, in geography, the same with Antioch. See the article ANTOCH.

ANTHELIX, in anatomy, the inward protuberance of the external ear, being a semicircle within, and almost parallel to the helix. See the article HELIX.

ANTHELMINTICS, among physicians, medicines proper to destroy worms. See the article WORMS.

ANTHEM, a church-song performed in cathedral service by choristers, who sing alternately. It was used to denote both parables and hymns, when performed in this manner. But at present, anthem is used in a more confined sense, being applied to certain passages taken out of the scriptures, and adapted to a particular solemnity.

ANTHEMIS, in botany, the name used by Linnaeus for the chamemile of other writers. See CHAMEMILE.

ANTHERAE, among botanists, denote the little roundish or oblong bodies, on the tops of the flamina of plants. See the article STAMINA.

The anther is the principal part of the male organ of generation in plants, answering to the glans penis in animals.

It is tumid and hollow, containing a fine powder called farina facundani. See PLANT, GENERATION, FARINA.

ANTHERICUM, in botany, the name by which Linnaeus calls the phalangium of Tournefort. See PHALANGIUM.

ANTHESPORIA, in antiquity, a sicilian festival, instituted in honour of Proserpine. Another solemnity of this kind seems to have been observed at Argos, in honour of Juno.

ANTHESTHERIA, in grecian antiquity, festivals celebrated in the spring by the antients, in honour of Bacchus, during which the masters feasted their slaves, as the Romans did in the time of the Saturnalia. See SATURNALIA.

It was usual, during these feasts, to ride in chariots, and pafs jets upon all that paffed by.

ANTHESTERION, in antient chronology, the sixth month of the athenian year, answering to the latter part of our November, and beginning of December.

ANTHIA, in ichthyology, a name sometimes used for a species tania, called allo fex venetorum. See the article TANIA.

ANTHIAS, in ichthyology, the name given by the antients, to a species of labrus. See the article LABRUS.

ANTHINE WINE, w{e at anduis, among the antients, a kind of wine medicated with the flowers of plants.

ANTHOCEROS, in botany, a genus of mosses, without any flower-petals or flamina; instead of which there is a fingle, very long and subulated anthera, springing from the base of the cup. The female flower is sometimes found on the same plant with this anthera; and sometimes on a different one. It is monophyllous, divided into six patent segments, and commonly contains three roundish seeds lodged in its bottom.

ANTHOCEROS, in botany, a genus of mosses, without any flower-petals or flamina; instead of which there is a fingle, very long and subulated anthera, springing from the base of the cup. The female flower is sometimes found on the same plant with this anthera; and sometimes on a different one. It is monophyllous, divided into six patent segments, and commonly contains three roundish seeds lodged in its bottom.

ANTHOLOGY, the title of the service book used in the greek church.

It is divided into twelve months, containing the offices sung throughout the year, on the festivals of our favour, the virgin, and other remarkable feasts.
ANTHOLOGY, ἄνθολογία, a discourse of flowers, or of beautiful passages from any authors.

ANTHOLOGY is also the name given to a collection of epigrams taken from several greek poets.

ANTHOLYZA, in the linnaean system of botany, makes a distinct genus of plants, the flower of which consists of one tubular petal; and its fruit is a roundish capsule, consisting of three valves, and divided into three cells, containing a number of triangular seeds. This genus belongs to the triandria monogynia class, and is comprehended among the gladioli by other botanists. See the article GLADIOLENS.

ANTHONY, or Knights of St. Anthony, a military order, instituted by Albert duke of Bavaria, Holland, and Zealand, when he designed to make war against the Turks in 1582. The knights wore a collar of gold made in form of a hermit's girdle, from which hung a fick cut like a crutch, with a little bell, as they are represented in St. Anthony's pictures. St. Anthony's Fire, a name sometimes given to the crypiperas. See ERYSPIELAS.

ANTHOPHYLLI, a name by which some medical writers call the larger species of cloves. See the article CLOVES.

ANTHORA, in botany, &c. an appellation given to several species ofaconite. See the article ACONITE.

The anthora radix of the shops, is the root of the healing aconite of physicians. It is esteemed good in malignant fevers, and is preferred as an antidote against poisons, particularly to obviate the bad effects of the poisonous aconite. Given in powder from one to two scruples at a dose, it is said to destroy worms, and relieve in pains of the bowels.

ANTHORISMUS, in rhetoric, denotes a contrary description or definition of a thing, from that given by the adverse party.

ANTHOS, ἄνθος, a greek term properly signifying flower, but used by some writers to denote rosemery, by way of eminence.

ANTHOS is sometimes also used for the elixir of gold, as well as for a medicine, extracted from pearls.

ANTHOS PHILosophorum denotes a certain method of transmuting metals by vitriol.

ANTHOSATUM ACETUM, the vinegar of rosemery flowers.

ANTHOSPERMUM, in botany, a genus of plants, by Pontedera called tournesol, and belonging to the polygama dioecia class of Linnaeus.

ANTHORYZAS, or ARTHROGLOTTUS, among zoologists, an appellation given to such animals as have tongues resembling that of mankind, particularly to the parrot-kind.

ANTHROPOGRAPHY, ἄνθρωπογραφία, denotes the description of the human body, its parts, structure, &c.

ANTHROPOLOGIA, ἄνθρωπολογία, in church-history, an appellation given to the Neftorians, on account of their worshipping Christ, notwithstanding that they believed him to be a mere man.

ANTHROPOLATORIA, the paying divine honours to a man, supposed to be the most antient kind of idolatry. See the article IDOLATRY.
ANTHROPOLOGY, 

ANTHROPOLOGY, among divines, denotes that manner of expression by which the inspired writers attribute human parts and passions to God. As in Genesis, God is said to have repented of having made man.

Anthropology, in speaking of God, is necessary to give us an idea of many things which otherwise we could not conceive.

ANTHROPOMANCY, a species of divination, performed by inspecting the intrails of a human creature.

ANTHROPOMORPHA, in the linnaean system of zoology, a class of animals, resembling in some degree the human form; the distinguishing characteristic of which is, that all the animals, comprehended in it, have four fore teeth in each jaw, and the teats are situated on the breast. Besides the human species, which stands at the head of this class, it likewise comprehends the monkey and fheet kinds.

ANTHROPOMORPHISM, among ecclesiastical writers, denotes the heresy, or error of the anthropomorphites. See the next article.

ANTHROPOMORPHITES, in church-history, a sect of ancient heretics, who taking every thing spoken of God in the scripture in a literal sense, particularly that passage of Genesis, in which it is said, God made man after his own image, maintained that God had a human shape. They are likewise called audeans from Audeus their leader.

ANTHROPOMORPHOUS, an appellation given to whatever resembles the human form; thus we meet with anthropomorphous plants, particularly mandrake; anthropomorphous animals, &c.

See the articles ANTHROPOMORPHA, and MANDRAKE.

ANTHROPOPATHY, a figure or expression by which some passage is ascribed to God, which properly belongs only to man. It differs from anthropology as the genus from the species; anthropology signifying any thing human attributed to God, but anthropopathy only human affections, passions, &c.

ANTHROPOSCOPY, that part of phytoonomy which judges of a man's character, &c. from the lineaments of his body.

ANTHROPOPHAGY, the act of eating human flesh. This custom, barbarous, as it is, can boast of great antiquity. Some authors trace its original as high as the deluge. The primitive christians were accused of it by the heathens, who in all probability grounded the caurnony on their misunderstanding what they had heard of the eucharist and the communion. In the southern part of Africa, and in some parts of America, this horrid practice is said still to prevail.

ANTROPOTHYSIA, the inhuman practice of offering sacrifices of men or women. See SACRIFICE.

ANTHUM, in botany, a name used in some antient writers for the epiphymum. See EPHIPHUM.

ANTHUS, in zoology, a name given to the bird, called in English the whinchat.

ANTHYPOPHORA, in rhetoric, a figure of speech; being the counter-part of an hypophora. See HYPOPORA.

ANTI, a Greek preposition, which enters into the composition of several words, both Latin, French, and English, in different senses. Sometimes it signifies before, as in antichamber, and sometimes opposite or contrary, as in the names of their medicines antiscorbutics, antivenereal, &c. See ANTICHAMBER, and ANTISCORBUTICS.

ANTI, in matters of literature, a title given to several books written in answer to others. Such are the Anti-baillet, Anti-menagiana, &c.

ANTIADES, in anatomy, a name sometimes used for the glands, more usually called tonsils. See the article TONSILS.

ANTIDIAPHRISTS, in church-history, the opposers of the adiaphorists. See the article ADIAPHORISTS.

ANTIBACCHIUS, in ancient poetry, a foot consisting of three syllables, the two first long, and the last one short, such is the word Ambros.

ANTIBES, a sea-port town of Provence in France, situated on the Mediterranean, in east longitude 7°, north latit. 43°.46".

ANTICARDIUM, in anatomy, the same with strebicum cordis. See the article SCROBICULUM.

ANTI-CHAMBER, an outer chamber, for strangers to wait in, till the person to be spoken with is at leisure.

A well proportioned anti-chamber ought to be in length the diagonal line of the square of the breadth, and not to exceed the breadth and half at molt.

ANTICRESIS, among civilians, the same with what in the common law is called a mortgage. See MORTGAGE.
ANTICHIST, among ecclesiastical writers, denotes a great adversary of Christianity, who is to appear upon the earth towards the end of the world. He is called in scripture, the man of sin, the son of perdition, &c. However, as the opinions of authors differ widely concerning him, we shall refer the curious to Malvenda, a Spanish monk, who has written expressly on the subject.

ANTICITHONES, in ancient geography, an appellation given to the inhabitants of opposite hemispheres, as the southern and northern.

ANTICIPATION, the act of doing a thing before the time. Anticipating a payment, is to pay it before the time be expired when it is to become due. See the article ADVANCE.

ANTICOR, or Anticoeur, among farriers, an inflammation in the horse’s throat; being the same with the quinzy in mankind.

ANTICOSTUS, an American island, situated before the mouth of the river St. Lawrence, in 64°. west longitude, and 49°. 52′. north latitude.

ANTICUS, a term used by anatomists, importing that the part with which it is joined, stands before some others: thus, we meet with serratus anticus, pereoneus anticus, tibialis anticus, &c. See the article SERRATUS, &c.

ANTIDATE, the same with antedate. See ANTEDATE. See the article ANTEDATE.

ANTIDICOMARIANITES, in church-hISTORY, heretics who maintained that the Virgin Mary did not preserve a perpetual virginity. See ANTIMONY.

ANTIDILUVIAN. See ANTEDILUVIAN.

ANTIDOTE, among physicians, a remedy taken to prevent, or to cure pestilential diseases.

It signifies also a medicine which prevents the ill effects of poison; in which sense it is the same with alexipharmic. See ALEXIPHARMIC.

ANTIENT, or Ancient, a term applied to things which existed long ago: thus, we say, ancient nations, ancient customs, &c.

ANTIENT, sometimes also denotes elderly, or of long standing, in opposition to young or new: thus, we say, an antient barrister, antient building, &c.

ANTIENT, in a military sense, denotes either the ensign, or the colours.

ANTIENT, in ships of war, the stamer or flag, borne in the stern.

ANTIENT DEMENTE, or DEMAIN, in law. See the article DEMAIN.
given from one ounce to two or three at a dose. 4. Emetic tartar, made by boiling equal quantities of washed crocus of antimony and crysals, or cream of tartar, in three times the weight of the whole of common water; and letting this stout again into crysals, which are the emetic tartar. This is said to be a good emetic, and preferable to all the other antimonial ones; its dose being from two grains to six or eight. 5. The milk of antimony, commonly called diaphoretic antimony. 6. The antimonial caustic, made with corrosive sublimate. 7. Cinnabar of antimony. 8. Tincture of antimony. 9. Butter of antimony. 10. Regulus of antimony, with a great dose. 4.

ANTIPODES, in geography, a name given to those inhabitants of the globe that live diametrically opposite to one another. They lie under opposite parallels, and opposite meridians. They have the same elevation of their different poles. It is mid-night with the one, when it is noon-day with the other; the longest day with the one is the shortest with the other; and the length of the day with the one is equal to the night of the other.

ANTIPope, in the romish church, one elected pope in an irregular manner, in opposition to another.

ANTI-PREDICAMENTS, in logic. See Antepredicaments.

ANTIPTOSIS, a figure which puts one case for another. See the article Case.

ANTIQUARY, a person who studies and searches after monuments and remains of antiquity. There were formerly, in the chief cities of Greece and Italy, persons of distinction called antiquaries, who made it their business to explain the antient inscriptions, and give every other assistance in their power to strangers, who were lovers of that kind of learning. We have in London a society of antiquaries incorporated by the king's charter.

ANTIQUATED, something obsolete, out of date, or out of use.

ANTIQUITY, in a general sense, something that is antient: but the term is chiefly used by sculptors, painters, and architects, to denote such pieces of their different arts, as were made by the antient Greeks and Romans. Thus we say, an antique bulk, an antique statue, &c. Antiquity is sometimes contradistinguished from antient, which signifies a less degree of antiquity. Thus, antique architecture is frequently distinguished from antient architecture.

ANTIQUITY signifies times or ages past long ago. Thus, we say, the heroes of antiquity, &c.

ANTIQUITY is also used to denote the works, or monuments of antiquity. Thus we say, England abounds in antiquities.

In this sense too, Bacon calls antiquities the wrecks of history, or such particulars as industrious persons have collected from genealogies, inscriptions, monuments, coins, names, etymologies, archives, instruments, fragments of history, &c.
This is, indeed, a laborious work, but such as ought to come in the place of those fabulous origins of nations we abound with; being not only more useful, but likewise more acceptable to the judicious part of mankind.

**ANTIQUITY**, likewise expresses the great age of a thing, and in this sense we lay the antiquity of a family, the antiquity of a kingdom.

**ANTIRRHNUM**, the name used by botanical writers for a genus of plants, called in English snapdragon. See the article SNAPDRAGON.

**ANTISAGOGE**, in rhetoric, the same with concession. See CONCESSION.

**ANTISCII**, in geography, people who live on different sides of the equator, whose shadows at noon are projected opposite ways.

**ANTISCORBUTICS**, among physicians, medicines good in all scurvy.

**ANTISEPTICS**, among physicians, a denomination given to all substances that resist putrefaction.

Concerning these, which are extremely numerous, we have several curious observations in Dr. Pringle's discharges of the army. The following table exhibits a comparative view of the antiseptic virtue of faults, the common sea-salt being reckoned equal to unity.

<table>
<thead>
<tr>
<th>Substances</th>
<th>Antiseptic Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea-salt</td>
<td>1</td>
</tr>
<tr>
<td>Salt of hartthorn</td>
<td>4</td>
</tr>
<tr>
<td>Salt of wormwood</td>
<td>4</td>
</tr>
<tr>
<td>Spirit minder</td>
<td>2 Borax</td>
</tr>
<tr>
<td>Salt of amber</td>
<td>20</td>
</tr>
<tr>
<td>Alum</td>
<td>30</td>
</tr>
</tbody>
</table>

Some refractious, and other substances, were found to be twelve times more antiseptic than sea-salt: such are myrrh, afsa-fecrida, fmove-rocket, pepper, ginger, faffron, contraverva-root, &c. Antiseptics are of use in all putrid, malignant, and pestilential cases.

**ANTISTOECHON**, in grammar, a figure by which two things mutually and particularly to the arians and fcinianists.

**ANTITYPE**, among ecclesiastical writers, denotes a type corresponding to some other type or figure.

**ANTITYPE**, in the greek church, is also an appellation given to the symbols of bread and wine in the sacrament, and that even after consecration: so that it should seem, they do not believe transubstantiation.

**ANTIVARI**, a sea-port town of Albaenia, situated on the gulf of Venice, in 19° 40' east longitude, and 42° 10' north latitude. It is subject to the Turks.

**ANTIVETRIA**, a province or subdivision of Terra Firma, in south America, lying southwards of Carthagena.

**ANTLER**, among sportsmen, a start or branch of a deer's attire.

**Brow-Antler**, denotes the branch next the head: and, **Bes-Antler**, the branch next above the brow antler.

**ANTOEI**, in geography, an appellation given to those inhabitants of the earth who live under the same meridian, but on different sides of the equator, and at equal distances from it.

**ANTONIAN WATERS**, antonianaque, medicinal waters of Germany, very plesant to the taste, and esteemed good in many chronic as well as hypochondriac cases.
ANTONIO, one of the Cape Verd islands, subject to the Portuguese, and situated in 26° west longitude, and 18° north lat.

ANTONOMASIA, in rhetoric, a figure, by which the proper name of one thing is applied to several others; or, on the contrary, the name of several things to one. Thus we call a cruel person, a Nero; and we say the philosopher, to denote Ariosto.

ANTRIM, the most north-east county of Ulster, in the kingdom of Ireland.

ANTRIM is also the name of the chief town of the aforesaid county, situated at the north end of Lough-neagh, in 6° 26' west longitude, and 54° 45' north latitude.

ANTRUM, among anatomists, a term used to denote several cavities of the body, as the antrum geneae, or that in the cheek-bone; the antrum biginorianum, or that in the maxillary or jaw-bone; and the antrum pilori, or that at the bottom of the pylorus.

ANTWERP, a beautiful city of the Austrian Netherlands, and capital of the marquise of the same name. It stands on the eastern shore of the river Scheld, about twenty-five miles north of Brussels, in 4° 15' east longitude, and 51° 15' north latitude.

ANTYX, in antiquity, denotes the circumference, or outermost round of a field.

ANVIL, an iron instrument on which smiths hammer or forge their work, and usually mounted on a firm wooden block.

A forged anvil is reckoned better than one of cast work.

ANUS, in anatomy, the extremity of the intestinum rectum, or orifice of the fundament. It is surrounded with a large quantity of fat, that it may be easily dilated in the evacuation of its contents, and is furnished with three muscles called elevators and sphincter. See the article SPHINCTER, &c.

Anus denotes also a small cavity in the third ventricle of the brain. See BRAIN.

ANUS, in botany, signifies the posterior opening of a monopetalous flower.

ANWEILLER, a small city of France, in the lower Allasse, upon the river Queich.

ANZAR, a city of Turquestan, near Catai, where Tamerlane died.

ANZERMA, a town of south America, in the kingdom of Popayan, upon the river Cauc, situated in 47° west longitude, 4° south latitude.

ANZUGUI, a town in the island of Japan, upon the bay of Meaco.

AOINIDES, in mythology, one of the many appellations of the muses, so called from Aonia, a part of ancient Boeotia.

AORIST, aorist, among grammarians, a tense peculiar to the greek language, comprehending all the tenses; or rather, expressing an action in an indeterminate manner, without any regard to past, present, or future.

AORTA, in anatomy, called also arteria magna, a large artery arising with a single trunk from the left ventricle of the heart above its valves, called semilunae, serves to convey the mass of blood to all parts of the body.

After ascending a little upwards, its trunk is bent, in manner of an arch, and from this part it sends, in human subjects, usually three ascending branches. This is called the aorta ascendens.

The descendens is that part of the trunk which, after the arch-like inflation descends thro' the thorax and the abdomen down to the os sacrum, and is usually larger in women than in men. The aorta hath four tunics, a nervous, a glandulous, a mucular, and a membranous one. See the article ARTERY.

AOUST, a town of Piedmont in Italy, capital of the duchy of the same name, situated about fifty miles north of Turin, in 4° 10' east longitude, and 45° 45' north latitude.

APAGOGICAL DEMONSTRATION, an indirect way of proof, by shewing the absurdity of the contrary.

APALACHION MOUNTAINS, a ridge of mountains of north America, lying westward of the british plantations, and extending from 30° to 40° north latitude.

APAMEA, or HAMA, a town of Syria, situated on the river Orontes, in 38° 30' east longitude, and 34° north latitude.

APAMEA is also the name of a town of Phrygia, upon the river Marfas; of a town of Midia, confining upon Parthia; and of a town of Bithynia, called by the Turks Myrea.

APANAGE, or APENNAGE, in the french customs, lands assign'd by a sovereign for the subsistence of his younger sons, which revert to the crown upon failure of male issue in that branch to which the lands are granted.

In England, the younger sons have no certain apenance, as in France, but only what the king is pleased to bestow upon them.
APE

APE, in zoology, the boar, or male of the hog-kind. See the article Hog.

APE, in ichthyology, a name by which some call two very different fishes, the geis and capriicus.

APEIPLAEPERAM RECTUS, in anatomy. See the article ELEVATOR.

APERTURES, or ApERTIONS, in architecture, are used to signify doors, windows, chimneys, outlets and inlets for light, smoke, &c. They ought to be as few in number, and as moderate in dimensions as possible, and never made too near the angles of the walls.

APERTURA TABULARUM, in law books, the breaking open a leaf will and testament. See the article WILL, &c.
APERTURA FEUDI, in the civil law, signifies the loss of a feudal tenure, by default of issue to him to whom the feud was first granted. See the article PE.

APETALOSE, or APETALOUS, among botanists, an appellation given to such plants as have no flower-leaves.

APEX, in antiquity, the crest of a helmet, but more especially a kind of cap worn by the flamens.

APEX, among grammarians, denotes the mark of a long syllable, falsely called a long accent. See the article ACCENT.

APHACA, APHERESIS, - APLHEA, in botany, a genus of plants, with papilionaceous flowers, and a small pod for its seed-vessel. Linnaeus makes it only a species of lathyrus. See plate XIX. fig. 4, and the article LATHYRUS.

APHÆRESIS, apophorism, in grammar, a figure by which a letter or syllable is cut off from the beginning of a word.

APHÆRESIS, that part of surgery which teaches to take away superfluitities.

APHIANES, PARSLEY-PIERT, in botany, a distinct genus of apetalous plants, approaching greatly to alchimilla. It belongs to the tetrandria digynia class of Linnaeus.

APHELIUM, or APELION, in astronomy, is that point in any planet's orbit, in which it is furthest distant from the sun; being in the new astronomy, that end of the greater axis of the elliptical orbit of the planet, most remote from the focus wherein the sun is.

The times of the aphelia of the primary planets, may be known by their apparent diameters appearing least; as also, by their moving slowest in a given time. They may likewise be found by calculation, the method of doing which is delivered in the atherm astronomers.

Kepler places the aphelia for the year 1700, as in tab. N°. 1, and De la Hire, as in tab. N°. 2.


De la Hire makes the yearly motion of them to be $1^\circ 22'$, $2^\circ 1^{1/4}$, $3^\circ 17'$, $4^\circ 2^{1/2}$, and $5^\circ 39'$.

APHIS, in zoology, the general name for the insects called in English tree-lice. The aphis has four crest wings, or none at all; its trunk is reflex; and the body is formed into two horns behind.

APHORISM, a maxim or principle of a science; or a sentence which comprehends a great deal in a few words. The term is seldom used but in medicine and law. We say the aphorisms of Hippocrates, the aphorisms of the civil law, political aphorisms, &c.

APHORISTIC, something belonging to, or partaking of the nature of an aphorism. See the preceding article.

APHRACTI, a term used in the maritime affairs of the ancients, were open vessels, without any decks.

APHRODISIA, in antiquity, ffemale feral kept in honour of Venus, the most remarkable of which was that celebrated by the Cyprians.

APHRODISIACS, among physicians, medicines which increase the quantity of seed, and create an inclination to venery.

APHRODITA, in zoology, one of the naked sea-infests, of an oval shape, and aculeated, with a perforation in the middle of the back.

APHRODITES, the same with gemma veneris. See the article GEMMA.

APHRONITRE, apophorism, in natural history, a name given by the antients to a particular kind of natrum, or native nitre. This they distinguished from the aphis nitrou, a class nitros, which was the froth that gathered in the vessels wherein they purified their nitre.

APTHÆ, in medicine, small, round, and superficial ulcers arising in the mouth. The principal feat of this disease, is the extremity of excretory vessels, salivary glands, and, in short all glands that furnish a humour like the saliva, as the lips, gums, &c.

Children and old men are subject to the atheræ, because the vis vitæ in both is languid, and the humours liable to become viscid. In the cure of the atheræ, it will be proper to use mel rosetum, aculated with the spirit of vitriol.

APHUA COBITES, in ichthyology, a species of gobius, called in English the bealoach. See the article GOBIIUS.

APHYLLANTHES, the blue montpelier-pink, in botany, a genus of plants, with lilaceous flowers, and a capsular fruit, containing three oblong oval seeds. This genus belongs to the hexandria monogyinia class of Linnaeus.

APIARY, a place where bees are kept, which should be properly defended from high
high winds, as well as from poultry, hogs, &c. whose dung is extremely offensive to the bees. See Bee and Hive.

APIASTELLUM, a name sometimes used to denote two very different plants, the common baum and black bryony.

APIASTER, in ornithology, the name by which the merops, or bee-eater is sometimes called. See Merops.

APIASTRUM was used by the ancients for extremely different plants, the common garden-baum, and the poisonous water-ranunculus.

APICES, in botany, the name with another. See the article Antheræ.

APIOS, in botany, a name given to two distinct plants, the tuberole-rooted thymalus, and the glycine of Linnaeus.

APIS, or Apes, in zoology, a genus of four-winged insects, with wings entirely membraneous, and their tails furnished with a tinging; comprehending the bee, hornet, wasp, and humble-bee. See the articles Bee, Hornet, &c.

APIUM, Parsley, in botany, a genus of umbelliferous plants, with rosaceous flowers, and an oval fruit, containing two seeds of an oblong oval shape, convex and striated on one side, and plane on the other. See the article Parsley.

APIVORUS BUTEO, in ornithology, the name by which the honey-buzzard is sometimes called, from its feeding on the maggots, or young brood of bees. See the article Buzzard.

APOBATERION, in antiquity, a valédictory speech or poem made by a person on departing out of his own country, and addressed to his friends or relations.

APOCALYPSE, apokalupsis, one of the sacred books of the new testament, so called from its containing revelations concerning several important doctrines of christianity.

It stands last in the canon of scripture, and is generally attributed to the apostle St. John; tho' there have not been wanting some, who ascribe it to other authors, and even wholly reject it as spurious.

APOCARPASUM, a poisonous drug, otherwise called carpusum.

APOCHYLISMA, in pharmacy, the same with rob. See the article Rob.

APOCOPE, among grammarians, a figure which cuts off a letter or syllable from the end of a word, as ingenii for ingenii.

APOCRISIARIUS, in antiquity, an officer who delivered the missal of the emperor. He became afterwards chancellor, and kept the seals. It was also a title given to a bishop's resident at court, to the pope's deputy at Constantinople; and to the treasurer of a monastery.

APOCRUSTICS, apokrustika, in medicine, the same with Repellents. See the article Repellents.

APOCRYPHAL, something dubious, is more particularly applied to such books as are not admitted into the canon of scripture, being either not acknowledged as divine, or rejected as heretical and spurious. The apocryphal books, according to the sixt article of the church of England, are to be read for example of life and instruction of manners; but it doth not apply them to establish any doctrine.

APOCYNUM, DOGSBANE, in botany. See the article Dogsbane.

APODICAL, among philosophers, a term importing a demonstrative proof, or systematical method of teaching.

APODOSIS, in rhetoric, the same with axiōsis. See the article Axiōsis.

APODYTERIUM, apodytērio, in the ancient baths, the apartment where persons dressed and undressed.

APOGEE, apogēm, in the old astronomy, that point of the orbit of a planet, or the sun, which is farthest from the earth.

Antient astronomy, which placed the earth in the center of the system, was much taken up in afterwards the apogee and perigee, which the moderns have changed for aphelium and perihelium. See the article Aphelium, &c.

APOGE of the moon, in astronomy. See the article Moon.

APOLLINARIAN GAMES, in roman antiquity, an appellation given to certain theatrical entertainments, celebrated annually in honour of Apollo.

APOLLINARIANS, or Apollinarists, in church history, a sect of heretics who maintained, that Jesus Christ had neither a rational human soul, or a true body.

APOLLINARIS, in botany, a name sometime given to henbane. See the article Henbane.

APOLLONIA, in antiquity, an annual festival celebrated by the Ægalians in honour of Apollo.

APOLLONIA, in geography, a promontory of Africa, upon the coast of Guinea, near the mouth of the river Mançu.

APOLLONIAN hyperbola and parabola. See Hyperbola and Parabola.

APOLOGETIC, or Apologesthetic, something said or written in the manner of an apology. See Apology.
APOLOGUE, in matters of literature, an ingenious method of conveying instruction by means of a feigned relation, called a moral fable.

The only difference between a parable and an apologue is, that the former being drawn from what paffes among mankind, requires probability in the narration: whereas the apologue being taken from the supposed actions of brutes, or even of things inanimate, is not tied down to the strict rules of probability. Apologies' fables are a model of this kind of writing.

APOLOGY, ἀπολογία, a Greek term literally importing an excuse, or defence, of some person, action, and the like; whether made by word of mouth, verba voce, or in writing.

APOMELI, among antient physicians, a decoction of honey and vinegar, much used as a detergent, promoter of ffool, urine, &c.

APONEUROSIS, ἀπονευρόσις, among physicians, a term sometimes used to denote the expansion of a nerve or tendon in the manner of a membrane; sometimes for the cutting off a nere; and, finally, for the tendon itself.

APONOGETON, in botany, a name used by Pontederia for the zannichellia of Linnaeus. See the article ZANNICHELLIA.

APOPHTHEGMATIZANTS, ἀποφθέγματιζόντας, among physicians, a term sometimes used to denote the expansion of a nerve or tendon in the manner of a membrane; sometimes for the cutting off a nere; and, finally, for the tendon itself.

APONEUROSIS, ἀπονευρόσις, among physicians, a term sometimes used to denote the expansion of a nerve or tendon in the manner of a membrane; sometimes for the cutting off a nere; and, finally, for the tendon itself.

APONYGE, in architecture, a concave part or ring of a column, lying above or below the flat member. The French call it le conge d'en bas, or d'en haut; the Italians, cavò de bafò, or di sopra, and sìlo il vicò di bafò.

The apophyse, originally, so more than the ring, or ferril, at first fixed on the extremities of wooden pillars, to keep them from splitting; which, afterwards, was imitated in stone.

APOPHYSIS, in anatomy, an excrescence from the body of a bone, of which it is a true continuous part, as a branch is of a tree.

The apophyses take different names, with respect to their situation, use or figure; such are coracoides, mamellaris, mastoides, styloides, obliqua, recta, superficialis, &c. See Coracoides, Mamelaries, &c.

The principal uses of the apophyses are, 1. to make the better articulations, whether these be intended to have motion, or to be fixed: 2. To afford a firm place of insertion for the muscles. And, 3. To defend the other parts.

APOPLEXY, whatever relates or belongs to an apoplexy. Thus we say, an apoplectic fit. See the next article.

APOPLEXY, a distemper in which the patient is suddenly deprived of the exercise of all the senses, and of voluntary motion; while a strong pulse remains with a deep respiration, attended with a stertor, and the appearance of a profound sleep. This disorder arises from whatever cause is capable of preventing either totally or in part, the influx of the nervous fluid to the organs of sense, and the reflux of the same fluid from these organs to the common fenory in the brain. 1. The natural make of the body may dispose to an apoplexy, when a large head and short neck favour the congelition of blood and humours in the head; or a corpulent body renders the capillary arteries subject to compression. 2. It may be occasioned by polypous concretions in the carotid or vertebral arteries, or by an inflammatory fistule, and thick pituitous disposition of the whole mass of blood. 3. By an extravasation of the respective fluids contained in the arterial, nervous and lymphatic vessels; and, finally, by whatever obstrue the return of the blood from the vessels of the brain to the heart. Hence it appears that apoplexies are produced by various causes, and may properly enough be distinguished into fanguineous and pituitous, to which may be added ferous, atrabilarious, polypous, &c.

An apoplexy may be foreseen from the frame of the body, from a knowledge of the predisposing causes; and from the first effects of these causes, as a tremor, vasillation, vertigo, stupor, deprivation of memory, and a frequent incubus. As to the cure and prevention of an apoplexy, no universal rules can be laid down; for the method of relief must vary, according to the predisposing causes and the parts principally affected. In general, however, it is necessary to procure evacuations by all possible means,
by emetics, and by acrid clysters; and not to omit external topics to the head, which irritate or resolve, of which kind blisters raised by cantharides are of the greatest service. During the fit, copious bleeding in the jugulars is to be used, strong volatiles to be applied to the nose, and the temples rubbed with cephalic mixtures. Arteriotomy, scarification of the occiput, and the actual cautery, are also recommended.

Aporrhoea, a term used by some writers, to denote any kind of effluvia. See the article Effluvia.

Aposiopesis, αποσιοπησις, in rhetoric, the suspending, or omitting to relate a part of the subject: thus the poet passes off the circumstance of Dido killing herself.

Dixerat, atque illam media inter talia ferro
Collapsam adsipientem.

Apostacy, the abandoning the true religion. The primitive christian church distinguished several kinds of apostacy. The first of those who went over entirely from christianity to judaism; the second of those who mingled judaism and christianity together; and the third of those who complied so far with the Jews, as to communicate with them in many of their unlawful practices, without making a formal profession of their religion. But the fourth was of those who, after having been sometime christians, voluntarily relapsed into paganism.

Apostasis, in medicine, the same with abscess. See the article Abscess.

Apostate, one who deserts his religion. Among the romanists, it signifies a man who, without a legal dispensation, forfakes a religious order of which he had made profession. Hence, Apostata capiendo, in the English law, a writ that formerly lay against a person who having entered into some order of religion, broke out again, and wandered up and down the country.

A posteriori, or demonstration a posteriori. See Demonstration.

Aposthume, or apostem, ἀπόσθημα, the same with abscess. See the article Abscess.

Apostil, apostilla, in matters of literature, the same with a marginal note.

Apostle, ἀπόστολος, properly signifies a messenger or person sent by another upon some business; and hence, by way of eminence, denotes one of the twelve disciples, commissioned by Jesus Christ to preach the gospel.

The apostles are usually represented with their respective badges: thus, Peter is painted with the keys; Paul, with a sword; Andrew, with a crofs; James the greater, with a pilgrim’s staff, and a gourd-bottle; James the less, with a fuller’s pole; John, with a cup and a winged serpent flying out of it; Bartholomew, with a knife; Philip, with a long staff, the upper end of which is formed into a crofs; Thomas, with a lance; Matthew, with a hatchet; Matthias, with a battle-ax; Simon, with a saw; and Jude, with a club.

Apostles’ Creed. See Creed.

Apostolii ointment. See Ointment.

Apostolate, the office or dignity of an apostle. See the article Apostle.

Apostolic, or apostolical, something connected with, or derived from the apostles. See the article Apostle.

Apostilici, an early sect of christians, who pretended to lead their lives in imitation of the apostles. They condemned marriage.

Apostrophe, in rhetoric, a figure by which the orator, in a vehement commotion, turns himself on all sides, and applies to the living and dead, to angels and to men, to rocks, groves, &c. Thus Adam in Milton’s Paradise lost,
O woods, O fountains, hillocks, dales, and bowers.

With other echo, &c.

Apostrophe, in grammar, a mark placed over a letter to shew that a vowel is cut off, as call’d for called, to audience for the audience.

Apostactites, in church history, a name given to the apostolici, from the shew they made of renouncing the world, more than other men. See the article Apostolici.

Apostevitz, a small city of Hungary, near the river Drave.

Apostecary, one who practises the art of pharmacy.

This is a genteel business, and has been in great vogue of late years; there being, as is computed, upwards of a thousand in and about London. A youth intended for this profession, should be a pretty good scholar, and have such a knowledge in the Latin tongue, as to be able to read the best writers upon the subject of botany, pharmacy, anatomy, and medicine. In London, the apothecaries are one of the city companies, and by an act which was made perpetual in the ninth year of George I, are exempted from
from serving upon juries, or in ward and parish offices. They are obliged to make up their medicines according to the formulas prescribed in the college dispensatory, and are liable to have their shops visited by the censors of the college, who are impowered to destroy such medicines as they think not good.

APOTHEOSIS, in antiquity, a ceremony by which the antient Romans complimented their emperors and great men after their death, with a place among the gods. It is described as follows. After the body of the deceased had been burnt with the usual solemnities, an image of wax, exactly resembling him, was placed on an ivory couch, where it lay for seven days, attended by the senate and ladies of the highest quality in mourning; and then the young senators and knights bore the bed of state thro’ the via sacra to the old forum, and from thence to the campus martius, where it was deposited upon an edifice built in form of a pyramid. The bed being thus placed, amidst a quantity of spices and other combustibles, and the knights having made a procession in solemn measure round the pile, the new gods.

APPARITION, in a general sense, something that is visible to the eye, or obvious to the understanding.

APPARENT, among mathematicians and astronomers, denotes things as they appear to us, in contradiction from real or true: thus we say, the apparent diameter, distance, magnitude, place, figure, &c. of bodies. See the articles DISTANCE, DISTANCE, &c.

APPARENT motion. See MOTION.

APPARITION, in general sense, denotes simply the appearance of a thing.

APPARITION, in a more limited sense, is used for a spectre, ghost, or the like preternatural appearance: thus we read of apparitions of angels, departed souls, &c.

APPARITION, in astronomy, signifies a star or other luminary’s becoming visible, which before was hid. It stands opposed to occultation.

Circle of perpetual APPARITION. See the article CIRCLE, &c.

APPARITOR, among the Romans, a general term to comprehend all attendants of judges and magistrates appointed to receive and execute their orders. Apparitor, with us, is a messenger, that serves the process of a spiritual court, or a beadle in an university, who carries the mace. See the article BEADLE.

APPARURA, among old law-writers, signifies furniture or tackle, particularly that belonging to a plough.

APPAUMEE, in heraldry, denotes one hand extended with the full palm appearing, and the thumb and fingers at full length.

APPEAL, in law, the removal of a cause from an inferior to a superior court or judge, when a person thinks himself aggrieved by the sentence of the inferior judge. Appeals lie from all the ordinary courts of justice to the house of lords. In ecclesiastical causes, if an appeal is brought before a bishop, it may be
be removed to the archbishop; if before an archdeacon, to the court of arches, and thence to the archbishop; and from the archbishop's court to the king in chancery. Appeal, in common law, is taken for the accusation of a murderer by a person who had interest in the party killed; or of a felon by an accomplice. It is prosecuted either by writ or by bill; by writ, when a writ is purchased out of the chancery by one person against another, commanding him to appeal some third person of felony, and to find pledges for doing it effectually; by bill, when the person himself gives in his accusation in writing, offering to undergo the burden of appealing the person therein named.

APPEAL OF MAIM is the accusing one that has maimed another.

APPEAL OF RAPE lies where any woman is ravished. These last are now much diffused, but the appeal of murder is frequently brought.

APPEARANCE, in a general sense, the exterior surface of a thing, or that which immediately strikes the senses.

APPEARANCE, in law, signifies a defendant's filing a common or special bail, on any process issued out of a court of judicature. In actions by original, appearances are entered with the phialer of the county; and by bill, with the prothonotary.

In perspective, appearance is the projection of a figure or body on the perspective plane. In optics, direct appearance is the sight of any object by direct rays, without refraction or reflection. In astronomy it signifies the name as phenomena or phaenae; and in physiology, the name as phanoma. See the articles PERSPECTIVE, PHENOMENA, PHASMATA, &c.

APEASING MEDICINES, the name with paregorics or anodynes. See the article ANODYNE.

APPELLANT, in a general sense, one who appeals. See the article APPEAL.

APPELLANTS, in church-history, an appellation given to such of the roman catholic clergy, as appeal from the constitution unigenitus, to a general council.

APPELLATIVE, in grammar, a noun which is applicable to a whole species or kind, as man, herse; in contradistinction to a proper noun. See NOUN.

APPELLEE, among lawyers, the person against whom an appeal is brought. See the article APPEAL.

APPENNAGE. See the article APPANAGE.

APPENDANT, in law, any thing that is inheritable, belonging to some more worthy inheritance; as an advowson, common, or court, may be appendant to a manor, land to an office, &c. but land cannot be appendant to land, for both are corporeal inheritances, and one thing corporeal cannot be appendant to another.

APPENDICULA VERMIFORMIS, in anatomy, a name by which some call the cecum. See the article COECUM.

APPENDIX, in literature, a treatise added at the end of a work, to render it more complete. See the article SUPPLEMENT.

APPENDIX, in anatomy, the name with epiphysis. See the article EPhipYSIS.

APPENZEL. See the article APENZEL.

APPREHENSION, or APPEAR, a term used by Leibnitz and his followers, for conscienties.

APPERTINANCES, the name with appurtenances. See APPURTEINANCES.

APPETITE, appetitus, in a general sense, the desire of enjoying some object, supposed to be conducive to our happiness. When this inclination is guided by reason, and proportioned to the intrinsic value of the object, it is called rational appetite; as, on the other hand, it is denominated sensitive appetite, when we have only a blind propensity to a thing, without determinate ideas of the good qualities for which we desire it.

APPETITE, in medicine, a certain painful or uneasy sensation, always accompanied with a desire to eat or drink.

An excessive appetite is called by physicians bulimy, or famine canina; a defect or loss of it, anorexy; and that after things improper for food, pica. See the articles BULIMY, ANOREXY, &c.

APPLAUSE, applause, or plaudus, an approbation of something signified by clapping the hands; in which sense it is still practised in colleges and theatres.

APPLE, a well-known fruit, consisting of a rind, pill, or skin; the pulp, or parenchyma; the branchery, or feed-vej:els; and the core.

The apple is not only used as food, but likewise for making cyder. See CYDER.

APPLE is also an appellation given to several fruits, on account of their resemblance to the common apple: such are the bitter-apple, custard-apple, love-apple, mad-apple, oak-apple, &c. See the article BITTER-APPLE, CUSTARD-APPLE, &c.
APPLE of the eye, a name not unfrequnently given to the pupil. See the articles EYE and PUPIL.

Gum of APPLES. See the article GUM.

APPLEBY, the chief town of the county of Westmoreland, situated on the river Eden, in 2° 26' west longitude, and 54° 30' north latitude. It sends two members to parliament.

APPLICATE, or Ordinate APPLICATION, in geometry. See the article ORDINATE.

APPLICATION, in a general sense, is the laying two things together, in order to discover their agreement or disagreement.

APPLICATION, in geometry, is used either for division; for applying one quantity to another, whose areas, but not figures, shall be the same; or for transferring a given line into a circle, or other figure, so that its ends shall be in the perimeter of the figure.

APPLICATION, among divines, a term used to signify the same as imputation. See the article IMPUTATION.

APPLY, or APPLYING, in geometry. See the article APPLICATION.

APPOGIATURA, in music, a small note inferred by the practical musician, between two others, at some distance.

APPRENTICE, a foot soldier, or officer in the french army, who receives a greater pay than others of the same rank, in consideration of his valour or long service.

APPRENTICE, in heraldry, the same as aguife: thus we say, a crofs appointed, to signify that which has two angles at the end cut off, so as to terminate in points.

APPOINTMENT, in a general sense, the same as designation. See the article ASSIGNATION.

Appointment, in a more restrained sense, signifies a pension given by princes and noblemen to retain certain persons in their service. See the article PENSION.

APPORTIONMENT, in law, the division of a rent into parts, in the same manner as the land out of which it issues is divided: for example, if a person leaves three acres of land for a certain rent, and afterwards grants away one acre thereof to another; the rent shall be apportioned between them. Conditions, however, are generally entire, and cannot be apportioned by an act of the party; neither can a contract be divided or apportioned so as to subject a man to two actions.

APPOSIHAL of sheriff signifies the charging them with money received on their accounts in the exchequer. See the article SHERIFF.

APPOSITION, in general, is the putting one thing by the side of another.

APPOSITION, in grammar, the placing two or more substantives together, in the same case, without any copulative conjunction between them; as, ardebat Aelixim delicias domini.

APPOSITION, among naturalists, the same with juxtaposition. See the article JUXTAPOSITION.

APPROAISING, the valuing or setting a price on goods. This is usually done by a sworn appraifer, who, if he values the goods too high, is obliged to take them at the price appraised.

APPREHENSION, in logic, the first or most simple act of the mind, whereby it perceives, or is conscious of some idea. See the article PERCEPTION.

APPREHENSION, in law, is the seizing a criminal, in order to bring him to justice.

APPRENTICE, a young person bound by indenture to some tradesman, in order to be instructed in the mystery or trade. By the laws of England, a matter may be indicted for not providing for, or for turning away his apprentice: and upon complaint from a master, that he neglects his duty, an apprentice may be committed to bridewell, or be bound over to the seions. A duty of 6d. in the pound is granted for every sum of 50l. or under, and 1s. in the pound for sums exceeding 50l. given with all apprentices, except such as are placed out by church-wardens, &c.

APPRENTICESHIP signifies either the condition of an apprentice, or the time he is bound to serve.

APPROACH, or APPROACHING, in a general sense, the acceding or coming together of two or more things.

APPROACHES, in fortification, the works thrown up by the besiegers, in order to get nearer a fortres, without being exposed to the enemies cannon: such, in a more particular manner, are the trenches, which should be connected by parallels, or lines of communication.

Counter APPROACHES. See the article COUNTER APPROACHES.

Curve of equable APPROACH. See CURVE.

APPROACHING, in gardening, the inoculating, or ingrafting the spire of one tree into another, without cutting it off from the parent-tree. This is also called inarching. See INARCHING.

APPROACHING, in fowling, a method of getting near the birds by means of a machine; made of hoops and boughs of
trees, within which the sportsman conceals himself.

APPROPRIARE COMMUNIAM, in law, is to divest, that is, to inclose any parcel of land, that before was open and common. See the article Common.

APPROPRIARE AD HONOREM, to bring a manor within the liberty of an honour. See the articles Manor and Honour.

APPROPRIATE, in law. See the next article.

APPROPRIATION, the annexing a benefit to the proper and perpetual use of a religious house, bishops', colleges, &c. Where the king is patron, he may make appropriations himself; but in other cases, after obtaining his licence in chancery, the consent of the ordinary, patron, and incumbent is requisite. Appropriations cannot be assigned over, but those to whom they are granted may make leaves of the profits.

APPROVEMENT, among old writers, is generally taken for the same as improvement; but in law is more particularly used for the inclosing part of a common by the lord of the manor.

If, however, there be not sufficient common left for the tenant, he may have a writ of affize and recover triple damages; in such a case also a commoner may break down the inclosures.

APPROVER, in law, one who, confessing that he has committed a felony, accuses one or more of his accomplices. Approvers, moreover, signify bailiffs of lords in their franchises, sheriffs, and likewise such persons as have the letting the king's demesne in small manors. See the articles Bailiff, Sheriff, Demesne.

APPROXIMATION, in arithmetic and algebra, the coming nearer and nearer to a root, or other quantity sought, without expecting to be ever able to find it exactly. There are several methods for doing this; to be found in mathematical books, being nothing but infinitely converging series, some approaching quicker, others slower towards the truth.

By such an approximation the value of a quantity may be found, though not to the utmost degree of exactness, yet sufficiently so for practice. Thus \( \sqrt{2} = 1.41421356, \&c. \) = the approximating series \( 1 + \frac{1}{2} + \frac{1}{2} + \frac{3}{8} + \frac{1}{16} + \frac{5}{32} + \frac{3}{64} + \cdots \), &c. or supposing \( x = \frac{1}{4}, \) equal to the series \( x^1 + \frac{1}{2} + \frac{4}{3} + \frac{5}{4} + \frac{7}{5} + \cdots \), &c.

Vol. I.
AQUA [178]

Hence the line connecting these points, is called the line of the apodes. See the articles ORBIT and PLANET.

APSID, among ecleciastical writers, denotes the inner part of the antient churches, answering to the modern choir.

APSID is also used for the bishop's throne, and sometimes for the ambo. See the article AMBO.

APSYRTUS, in botany, the name by which the antients called marrubium, or horchourd.

APTE, a small city of Provence, in France, situated about twenty-five miles north of Aix, in 5° 20' east longitude, and 43° 50' north latitude.

APTERIA, in the linean system of zoology, the seventh and last order of insects, the distinguishing characteristic of which is, that the insects comprehended in it, have no wings: such are the loufe, the flea, the podura, the monocus, the acarus, the spider, the scorpion, and the crab. See LOUSE, FLEA, &c.

APTHANE, a title antiently given to the highest degrees of nobility in Scotland. See the article THANE.

APTITUDE, a term sometimes used to signify the fitness of a thing, to answer a certain purpose.

APTITUDE, or APtness, in a more limited sense, is used for quickness or readiness of genius.

APTOTE, a small noun, among grammarians, an inescapable name, or one which has no variation of caes. See the article BERYL.

APUA, or Aphua, in ichthyology, a name by which some call the gobius with seventeen rays in the second back-fin.

APUA MEMBRAS, the name by which some call the pickard. See the article PICHARD.

APULIA, or PUGlia, in geography. See the article PUGLIA.

APUS, in astronomy, the same with bird of paradise. See PARADISE.

APYCNI SUONI, in music, founds disflant one or more octaves, and yet accord.

APYCNOS, in music, is said of the diatonic genus, on account of its having spacious intervals, in comparison of the chromatic and enharmonic. See the articles DIATONIC, CHROMATIC, &c.

APYREXY, a term among physicians, denotes the intermission of a fever.

AQUA, water, a term frequently met with in the writings of physicians, chemists, &c. for certain medicines, or menstruums, in a liquid form, distinguished from each other by peculiar epithets, as aqua alexiteria, aqua aluminosa, aqua fortis, &c.

AQUA ALEXITERIA, a water distilled from mint, sea-wormwood, and angelica; and said to be good in malignant and pestilential fea.

AQUA ALUMINOSA, ALUM-WATER, a solution of alum and white vitriol; esteemed good in ulcers and cutaneous eruptions.

AQUA FORTIS, a corrosive liquor, being the red fumes which arise in diilling niter and vitriol. This is a menstruum for dissolving all metals, except gold. It is used by dyers, in dyeing scarlet; by refiners, for parting silver from gold; by book-binders, to marble the covers of books; by diamond-cutters, to separate diamonds from metalline powders; by engravers, for etching on copper or brass plates; by workers in mosaic work, and also for staining woods, bone, ivory, &c.

AQUA MARINA, or AQUA MARINE, a name by which the jewellers call the beryl, on account of its sea-green colour. See the article BERYL.

AQUA MERCURIALIS, a solution of sublimate of mercury, and a little mercury, in aqua regia; by means of which the alchemists pretend to reduce all metals to their first principle, mercury.

AQUA OMNII FLORUM, in pharmacy, the water distilled from the dung of cows, when they go to graze: in English, all-flowers-water.

AQUA PAVOR, in medicine. See the article HYDROPHOBIA.

AQUA REGIA, a kind of aqua fortis, or acid spirit, in which there is a small proportion of sea-falt. It is prepared several ways; the most common method is, by mixing common falt, falt gem, or falt ammoniac, whether native or factitious, with aqua fortis, or spirit of nitre. But as the basis, or essential ingredient is common or sea-falt, this will always answer the purpose, in whatever form applied, whether as a fluid or a solid, a liquor or a spirit.

Aqua regia is so called, because it dissolves gold: it will also dissolve iron, copper, tin, mercury, regulus of antimony, bismuth, and zink. It does not at all affect silver, provided the sea-falt be mixed in a due proportion; but if the quantity is too small, it then corrodes the silver.

AQUA SECUNDIC, denotes aqua fortis, which has been used to dissolve fume metal.

AQUA
AQUA SULPHURATA, the same with gas sulphuris. See the article Gas.

AQUA VITÆ, the water of life, a name given to malt spirits, in contradistinction from brandy. See the articles Brandy and Spirit.

AQUA VITRIOLICA COERULEA, a solution of blue vitriol and alum, with some spirit of vitriol, in water; recommended in inflammatory and putrid cases.

AQUAEDUCT, in hydraulics and architecture, a conveyance made for carrying water from one place to another. Tho' of the antient romans were surprizingly magnificent. That which Lewis XIV built near Maintenon, for carrying the Buqu to Versailles, is perhaps the greatest now in the world: it is seven thousand fathoms long, with two thousand five hundred and sixty fathoms of elevation, and contains two hundred and forty-two arches.

AQUAEDUCT, in anatomy, a term applied by anatomists, to certain canals, on account of their form or use: such are the aqueduct of Fallopian, a canal situated between the apophyses, styloides, and mastoïdes; the aqueduct of Nuck, in the sclerotic coat of the eye; and the aqueduct of Sylvius, in the brain, the posterior surface of which is called its anus. See Styloïdes, Sclerotic; &c.

AQUA-NEGRA, a small town of the Mantuan, in Italy, situated upon the Chief, in 4° 30' north latitude, and 45° 10' north lat.

AQUAPENDENTE, a city of the Ecclesiastical state, in Italy, situated upon the river Paglia, abounding in waters.

AQuAPULCO, in geography. See the article Acapulco.

AQUARIANS, aquarii, in church-history, an antient sect of hereticks, who, under pretence of abstinence, made use of water instead of wine in the eucharist.

AQUARIUS, in astronomy, a constellation, which makes the eleventh sign in the zodiac, marked thus, ☊. It consists of forty-five stars in Ptolemy's catalogue, of forty-five in Tycho's, and in the Britannic catalogue of ninety-nine.

AQUA-SPARTA, a small city of Italy, in the duchy of Spoleto.

AQUATIC, in natural history, an appellation given to such things as live or grow in the water: thus we say, aquatic animals, aquatic plants, &c.

AQUAVIVA, a town of the kingdom of Naples, and province of Barri.

AQUAEDUCT, the same with aqueduct. See the article Aquaeduct.

AQUELEA, a patriarchal city of Italy, near the end of the gulf of Venice, situated in 15° 30' east longitude, and 46° 20' north latitude.

AQUEOUS, aquo, in a general sense, something partaking of the nature of water, or that abounds with it: thus we say, aqueous baths, ducts, &c. See the articles Bath and Duct.

AQUEOUS HUMOUR, in anatomy, called also the albiginous humour, is the utmost of the three humours of the eye, and fills up both its camera. In this the uvea fluctuates as it were, and moves at liberty; this humour also, when left, will be repaired by nature.

AQUI, and AQUITA, a city and province of Japan, in the island of Niphon.

AQUIFOLIUM, holly, in botany. See plate 20. fig. 2. and the article Holly.

AQUIGAN, one of the Marian islands, in the eastern ocean.

AQUIGURES, a people of Brazil, in south America; in the province of the Holy Ghost.

AQUILA, the eagle, in ornithology. See the article Eagle.

AQUILA, in aeronautics, a constellation of the northern hemisphere, consisting of fifteen stars in Ptolemy's catalogue, of seventy in Tycho's, and of seventy in the Britannic catalogue.

AQUILA, in geography, a large city of Abruzzo, in the kingdom of Naples, situated in 14° 30' east longitude, and 45° 40' north latitude.

AQUILA BRAVA, in botany. See the article Xylo-aloes.

AQUILA MARINA, in ichthyology, a fish of the pastrinachan kind, with a head somewhat resembling that of a toad.

AQUILEGIA, columbine, in botany, a genus of trees, with polyptalous anomalous flowers, and a fruit consisting of several capsules, collected into a sort of head. See plate XX. fig. 1.

Aquilegia belongs to the polyandra-magnifica class of Linnaeus, and is recommended in disorders of the breast and lungs, in malignant calses, the menfeis, &c.

AQUILICUM, or Aquiliciana, in roman antiquity, sacrifices performed in times of excessive drought, to obtain rain of the gods.

AQUILINE, something belonging to, or resembling an eagle: thus, an aquiline nose is one bent somewhat like an eagle's beak.

AQUINO, a ruinous city in the province of Lavoro, in the kingdom of Naples, situated in 14° 30' east longitude, and 41° 30' north latitude.

AQUOSE,
AQUEOUS, the same with aqueous. See the article AQUEOUS.

ARA, in astronomy, a southern constellation, containing eight stars.

ARABET, a town of turkish Tartary, situated near the Palus Moesotis. It is fortified with two castles, and is the place where the kan keeps his stud of horses, which are reckoned to be about seven thousand in number.

ARABIA, a large country of Asia, having Tukey on the north, Persia and the gulf of Peris on the east, the Indian ocean on the south, and the red-sea and isthmus of Suez on the west; and situated between 35° and 60° east longitude, and between 10° and 50° north latitude.

Arabia, though subject to a great many different princes, is only considered by geographers as subdivided into the three grand divisions of Arabia Felix, Arabia Deserta, and Arabia Petraea.

ARABIAN, or ARABIC, in a general sense, Arabian, or Arabic, in a general sense, the name of a Arabism, or ARAC, ARAC, or RACK.

ARACARI, in ornithology, a brasilian bird, or gallery of a

ARACH, the chief city of Arabia Petraea, situated in 49° east longitude, and 30° 20' north latitude.

ARACHIDNA, or ARACHIDNOIDES, in botany, the same with the arabis of Linnaeus. See the next article.

ARACHIS, in botany, a genus of the diadelphia-decandria class of plants, the flower of which is papilionaceous, and consists of three petals; and its fruit is an oblong unilocular pod, contracted in the middle.

ARACHNOIDES, in zoology, a name given to those echini marini, or sea-hedgehogs, which are of a circular form, but variously indented at the edges. See the article ECHINUS.

ARACHNOIDES, in anatomy, an appellation given to several different membranes, as the tunic of the crystalline humour of the eye, the external lamina of the pia mater, and one of the coverings of the spinal marrow.

ARAD, a city of upper Hungary, situated upon the banks of the Maritch.

ARAC, ARAC, or RACK. Biscay and the

ARAC, ARAC, or RACK. Biscay and the

ARACHIS, in botany, a genus of the diadelphia-decandria class of plants, the flower of which is papilionaceous, and consists of three petals; and its fruit is an oblong unilocular pod, contracted in the middle.

ARACHNOIDES, in zoology, a name given to those echini marini, or sea-hedgehogs, which are of a circular form, but variously indented at the edges. See the article ECHINUS.

ARACHNOIDES, in anatomy, an appellation given to several different membranes, as the tunic of the crystalline humour of the eye, the external lamina of the pia mater, and one of the coverings of the spinal marrow.

ARAD, a city of upper Hungary, situated upon the banks of the Maritch.

ARACARI, in ornithology, a brasilian bird, or gallery of a

ARACH, the chief city of Arabia Petraea, situated in 49° east longitude, and 30° 20' north latitude.

ARACHIDNA, or ARACHIDNOIDES, in botany, the same with the arabis of Linnaeus. See the next article.

ARACHIS, in botany, a genus of the diadelphia-decandria class of plants, the flower of which is papilionaceous, and consists of three petals; and its fruit is an oblong unilocular pod, contracted in the middle.

ARACHNOIDES, in zoology, a name given to those echini marini, or sea-hedgehogs, which are of a circular form, but variously indented at the edges. See the article ECHINUS.

ARACHNOIDES, in anatomy, an appellation given to several different membranes, as the tunic of the crystalline humour of the eye, the external lamina of the pia mater, and one of the coverings of the spinal marrow.

ARAD, a city of upper Hungary, situated upon the banks of the Maritch.

ARAC, ARAC, or RACK. Biscay and the
ARAMONT, a city of Languedoc, in France, situated in 5° east longitude, and 43° 54′ north latitude.

ARANDA DE DUERO, a city of old Castile, in Spain, situated on the Duero, between Olma and Valladolid; so called to distinguish it from another city of the same name, situated upon the Ebro.

ARANEA TUNICA, or ARANEOIDES. See the article ARACHNOIDES.

ARANEA CONCHA, the Spider-shell, a name given to several species of Murex. See the article MUREX.

ARANEUS, the Spider, in zoology. See the article SPIDER.

ARANEUS, or ARANEA, in ichthyology, is also the name by which some writers call the Trachinus with the lower jaw longest. See the article TRACHINUS.

ARANJUEZ, a palace belonging to the king of Spain, beautifully situated on the bank of the Tagus, about fifteen or sixteen miles eastward of Madrid.

ARAPHACA, in botany, a name by which Pluemer calls SpiGelia. See SPIGELIA.

ARARAT, the ancient name for Mount Caucaus, between the Euxine and Caspian seas. See the article MOUNT ARARAT.

ARASSI; ARASH, a city of the province of Persia, fituated near the Morlachia, in 16° east long., and 45° north lat.

ARBABEL, the same with crofs-bow.

ARBAC, a maritime city of Italy, in the province of Venice, situated on a river of its own name. See the article ARBOGUS.

ARBAGE, or ARBO, a city of Sweden, in the province of Westphalia, situated upon a river of its own name.

ARBALER, or IRBIL, in geography. See the article IRBIL.

ARBATES, or ARBATES, in civil law, a judge nominated by the magistrate, or chosen voluntarily by two parties, in order to decide their differences according to law.

ARBITREMENT. See arbitration.

ARBON, a town of Switzerland, in the province of Neuchâtel, situated on a river of its own name.

ARBOR, or ARBO, in the Latin appellation for trees in general. See PLANT, TREE, VEGETABLES, &c.

ARBOR DIANE. See DIANÆ ARBOR.

ARBOR GENEOLOGICA. See the article GENEOLOGICA ARBOR.

ARBOR LUNÆ, the same with arbore diane.

ARBOR MARTIS. See MARTIS ARBOR.

ARBOR PHILOSOphica, the same with ARBOR DIANE.
ARBOR PORPHYRIANA, among schoolmen. See Scala Predicamentalis.

ARBOR SCIENTIÆ, a general distribution or scheme of science, or knowledge: such is that in the preface to this dictionary.

ARBOR VINE, a name by which several species of bind-weed are called.

ARBOR, in mechanics, the principal part of a machine which serves to sustain the reft: also the axis or spindle on which a machine turns, as the arbor of a crane, windmill, &c. See CRANE, WINDMILL.

ARBOREOUS, something belonging to, or partaking of the nature of trees: thus mosses, &c. growing on trees, are called arboeous.

ARBORESCENT, a term applied to all such things as resemble trees: thus we read of arboreous shrubs, arboreous animals, &c. of which last kind is that great natural curiosity the star-fish.

ARBORIST, a person skilled in that part of botany, which treats of trees. See the article BOTANY.

ARBOUR, in gardening, a kind of shade for workmen on three centers.

ARBOUTANT, in building, an arched buttress. See the article BUTTRESS.

ARCH, in geometry, any part of the circumference of a circle, or curved line, lying from one point to another, by which the quantity of the whole circle or line, or some other thing sought after, may be gathered.

Similar Arches. If the arch BC (plate XX. fig. 5.) contains the same number of degrees as the arch DE; or if the radius AB is to the radius AD, as the arch BC to the arch DE; then these two arches are similar.

Equal Arches, those which contain the same number of degrees, and whose radii are equal.

Diurnal Arch, that part of a circle described by a heavenly body, between its rising and setting; as the nocturnal arch is that described between its setting and rising: both these together are always equal.

Arch of progression, or direction, an arch of the zodiac, which a planet seems to pass over, when its motion is according to the signs.

Arch of retrogradation, an arch of the zodiac, described by a planet, while it is retrograde, or moves contrary to the order of the signs.

ARCH, in architecture, a concave building, with a mold bent in form of a curve, erected to support some structure. Arches are either circular, elliptical, or stratish, as they are improperly called by workmen. Circular arches are also of three kinds: 1. Semicircular, which have their center in the middle of a line drawn betwixt the feet of the arch. 2. Scheme, or skene, which are less than a semicircle, containing some ninety, and some seventy degrees. 3. Arches of the third and fourth point, consisting of two arches of a circle meeting in an angle at the top, being drawn from the division of a chord into three or more parts at pleasure. Elliptical arches consist of a semi-ellipsis, and have commonly a key-stone and impost: they are usually described by workmen on three centers.

Strait arches are those used over doors and windows, having plain stratish edges, both upper and under, which are parallel, but both the ends and joints point towards a center.
Triumphal Arch, a stately gate of a semicircular form, adorned with sculpture, inscriptions, &c. erected in honour of those who had defeated a triumph.

Arch is also used to denote the interval between two piers of a bridge. See Bridge.

Archdeacon, Archcount, Archchantor, Archgancellor, Archchamberlain, and Archbutler, are terms sometimes given to the launian. See Lamium.

Archangel, in botany, a name sometimes given to the lamium. See Lamiunum.

Archangel, in geography, a city of the Triumphant Arch, a title given to dukes of greater authority and power than other dukedoms. The archduke of Austria is among the most antient; his principal privileges are, that he shall distribute justice in his own country, without appeal; that he cannot be deprived of his countries, even by the emperor and the states of the empire; and that he has a power of creating counts, barons, &c. throughout the whole empire. See Duke.

Arched, in a general sense, denotes something built or constructed in the fashion, or after the manner of an arch.

Arched skene. See Arch.

Arched legs, a fault in a horse, when his knees are bendéd arch-wise.

This expression relates to the fore quarters, and the infirmity happens to such horses as have their legs spoiled with travelling.

Arched fountain. See Fountain.

Archery, in the antient military art, one who fought with bows and arrows.

The English archers were esteemed the best in Europe, to whose prowess and dexterity the many victories over the French were in a great measure owing.

Archery, or Court of Archery, the supreme court belonging to the archbishop of Canterbury, to which appeals lie from all the inferior courts within his province.

Arches, in geography, a name used among navigators for the Archipelago.

Archetype, the first model of a work, which is copied after to make another like it. Among minters it is used for the standard weight by which the others are adjusted. The archetypal world, among platonists, means the world as it existed in the idea of God, before the visible creation.

Archery, among chemists, a term used to denote the predominating principle of things, whereby their peculiar qualities are fixed and determined.

Arcidana, a small city of Andalusia, in Spain, situated upon the Xenil.

Archilochoan, a term in poetry applied to a foot of verses, of which Archilocho was the inventor, consisting of seven feet, the four first whereof are ordinarily dactylic, the sometimes spondee, the three last trochees: as in Horace,

Sovietur acris hymnis, grandis vice veris

& Facem.

Archipelago, in geography, a general term for a sea interrupted with islands; but more especially denoting that between Greece and Asia.

Architect.
ARCHITECT, a person skilled in architecture, who not only draws the plans of edifices, but superintends and directs the architects.

ARCHITECTURE, the art or science of erecting edifices, whether for habitation or defence; and hence subdivided into civil, military, and naval.

Civil architecture, called absolutely, and by way of eminence, architecture, teaches how to make any kind of buildings, as palaces, churches, private houses, &c. and the rules to be observed in it are solidity, convenience, and beauty, to which some add, order, disposition, proportion, decorum and economy. Solidity implies the choice of a good foundation, and found materials; convenience consists in so ordering the parts of an edifice that they may not embarrass one another; beauty is that agreeable form and pleasing appearance, which it exhibits to the eye of a spectator; order gives each part of the building a convenient design, whether considered apart, or with relation to the whole; and disposition is the agreeable union of all the parts. Proportion is the relation that all the work hath to its parts, and which every one separately hath to the whole; decorum teaches to have a regard to design, custom, and nature; and economy to consider the expenses, in order to regulate the form and magnitude of the fabric.

With respect to the several periods and states of architecture, it is distinguished into antient, gothic, and modern. The Greeks and Romans were so happy in adjusting the various proportions of an edifice, that any neglect of their rules has been found to be a deviation from proportion and beauty itself. It is for this reason that the moderns have retrieved the primitive simplicity of antient architecture, which, upon the decline of the western empire was lost in the general confusion of arts and sciences, being succeeded by the gothic and morek, so called from the Goths and Moors. These made perfection to consist in the delicacy and multitude of the ornaments, which they bestowed on their buildings, with abundance of care, as may be seen in most of the antient structures in England and other parts of Europe.

The manner, then, of the antients being reputed the standard of beauty and grandeur, another division of architecture arises from the different proportions observed by them in different buildings, according to the bulk, strength, delicacy, richness, or simplicity required. This consists of five orders, all invented at different times, and on different occasions, viz. tuscan, doric, ionic, corinthian, and composite. See ORDER, TUSCAN, DORIC, &c.

Of all the antient writers on architecture, Vitruvius is the only intire author. The most celebrated of those who have treated that subject, since his time, are Baptista Alberti, Palladio, Scamozzi, Blondel, Goldman, Mr. Perault, Sir H. Wotton, Sturmian, and Wolfius.

Military Architecture, the same with what is otherwise called fortification. See the article FORTIFICATION.

Naval Architecture, the art of building ships. See SHIP-BUILDING.

Counterfeit Architecture, that which consists of projections, painted in black or white, or in colours after the manner of marble, which is also called scenework, in the painting of columns, &c., for the decoration of theatres.

Architecture, in perspective, a sort of building, the members of which are of different modules, and diminish proportionally to their distance, in order to make the work appear longer to the view than it really is.

ARCHITHALASSUS, in conchylology. See ADMIRAL-SHELL.

ARCHITRAVE, in architecture, that part of a column, or order of columns, which lies immediately upon the capital; being the lowest member of the entablature, and so called from its representing the principal beam in timber-buildings. See the article ENTABLATURE.

Over a chimney, this member is called the mantle-piece; and over doors or windows, the hyperthyron.

ARCHITYPE. See ARCHETYPE.

ARCHIVALT, in architecture, the inner center of an arch, or a band adorned with mouldings running over the faces of the arch-flanes, and bearing upon the impost. It has only a single face in the tuscann order, two faces crowned in the doric and ionic, and the same mouldings with the architrave in the corinthian and composite.

ARCHIVE, or ARCHIVES, an apartment in which are deposited the records, charters, and other papers of a state or community. The archives of the court of Chancery are in the Rolls office.

ARCHMARTHAL, the grand marshal of the empire, a dignity belonging to the elector of Saxony.

ARCHON, in grecian antiquity, the chief
chief magistrate of Athens, after the abolishing of monarchy; and also, the appellation given to several officers, both civil and religious, under the Greek empire. Thus weread of the archon of the gospel, the archon of the walls, &c.

ARCHONTICI, in church-histoiy, a branch of Valentinians, who maintained that the world was not created by God, but by angels called archontes.

ARCHPRIOR, a name by which the master of the order of the knights-templars was sometimes called.

ARCHTREASURER, the great treasurer of the German empire, a dignity belonging to the duke of Brunswick, king of Great Britain, but also claimed by the elector palatine.

ARCIGOVINO, a province of Dalmatia, bounded by Bosnia, Mantenero, and the adriatic sea, and called by the Italians Santa Sabata.

ARCLEUTO, in the Italian music, a lute longer and larger than ordinary.

ARCION, in botany, a name antiently given to tussilago, or colts-foot.

ARCO, a town of the bishopric of Trent in Italy, situated about sixteen miles south west of Trent, in 10° 46' east longitude and 46° north latitude.

ARCOS, the name of a town in Andalusia in Spain, and of one in old Castile upon the river Xalon.

ARCAPELIOTES, a term used to denote a north-east wind.

ARCTIC, *arctik*, in astronomy, an epiteth given to the north pole, and likewise to a circle of the sphere, parallel to the equator, and twenty-three degrees thirty minutes distant from the north pole. See NORTH-POLE, CIRCLE, &c.

ARCTICUM, in botany, the name by which Linnaeus calls the lappa. See the article Lappa.

ARCTOMYS, *pallas*, or *paljestaum*, a conftellation other­wise called arctotheca and anemo sperma. It is one of the *auligemina polymantia* of Linnaeus, with a radiated flower.

ARCTURUS, a fixed star of the first magnitude, in the skirt of bootes.

ARCTUS, *arctik*, in astronomy, the Greek name for the ura major and minor. See the article Ursa.

ARCUTION, in gardening, the raising of trees by layers, which is done thus. Strong mother plants, or stumps, must be planted in a clean border in a straight line, six feet asunder; and when they have shot five or six main branches from the root, and as many collateral branches, these main branches must be bent to the ground; for which reason, some cut them half through, and peg them fast down. The small branches must be covered three inches thick upon the joints, and have a large bason of earth made round them to hold the water. Some persons give the branches a twist, to make them root the sooner.

ARCULATION, in surgery, denotes a distortion or incurvation of the bones, as happens in the rickets, &c.

ARCUTIO, *arcuotto*, a machine consisting of hoops used in Florence by nurses, in order to prevent the child from being overlaid. Every nurse is obliged to lay her child in an arcuutio, under pain of excommunication.

ARCYRIA, in botany, the same with the clathrus of Micheli. See CLATHRUS.

ARDASSES, the coarsest of all the silks in Persia.

ARDEA, the heron, in ornithology, a genus of long-beaked birds; distinguished from all others by having the middle toe of each foot serrated, or jagged, with a series of scales on its outer side. This genus comprehends likewise the bittern, flork, crane, &c.

ARDEBIL, or ARDEBIL, in geography. See ARDEVIL.

ARDENBURG, a fortified town of Dutch Flanders, situated about twelve miles north east of Bruges, in 3° 20' east longitude and 51° 15' north latitude.

ARDENNE, a forest in Germany, lying between Thionville and Liege.

ARDENT, *ardenti*, something that is extremely hot, as if on fire: thus, we say, an ardent fever, &c. See FEVER.

ARDERS, among farmers, denotes the fallowings, or ploughings of grounds. See FALLING.

ARDEVIL, or ARDELIL, the burying place of some of the antient kings of Persia, situated in 64° 20' east longitude, and 36° north latitude.

ARDMAGH, in geography. See the article ARMAGH.

ARDMENACH, a district of the county of Rois in Scotland, being a kind of peninsula, lying westward of Cromarty.

ARDUCH, a small town of Perthshire in Scotland.
ARDOR-VENTRICULI, the same with the heart-burn.

ARDRES, a town of the province of Picardy in France, situated about ten miles south of Calais, in 2° east longitude, and 50° 45' north latitude.

ARDRES, or ARDRA, is also the capital of a country on the slave coast of Guinea in Africa, situated near the river Lagos, in 4° east longitude and 5° north latitude.

ARE, in music. See ALAMIRE.

AREA, in geometry, denotes the superficial content of any figure: thus, if we suppose a parallelogram six inches long, and four broad, its area will be $6 \times 4 = 24$ square inches.

The method of finding the areas of different figures, as triangles, circles, &c., will be given under the articles TRAPEZIUM, CIRCLE, &c.

AREA, among physicians, the same with the alopecia. See ALOPECIA.

AREBON, a town of Guinea in Africa, situated at the mouth of the river Formosa, in 5° east long. and 5° north lat.

ARECA, the fruit of a kind of palm-tree that grows in the East Indies. The properties ascribed to it are, that it strengthens the stomach, and carries off every thing that might corrupt the gums.

AREMBERG, a city of Germany, situated about twenty-five miles south of Cologne, in 6° 25' east longitude, and 50° 30' north latitude.

ARENA, SAND, in natural history. See the article SAND.

ARENA, in Roman antiquity, a place where the gladiators fought: so called from its being always fired with sand, to conceal from the view of the people, the blood spilt in the combat.

ARENARIA, in botany, a distinct genus of plants, according to Linnaeus, but comprehended among the alines by Tournefort. See the article ALSINE.

ARENARIA, the sandelting, in ornithology. See the article SANDERLING.

ARENATION, arenatio, a kind of dry bath, wherein the patient sits with his bare feet on hot sand.

AREMEFER, or AEREOMETER. See the article AEREOMETER.

ARENSWALD, a town of Germany, in the marquise of Brandenburg, upon the confines of Pomerrania.

AREOLA, among anatomists, the coloured circle surrounding the nipple of the breast.

AREOPAGUS, or ARCHEOPAGUS, &c., in grecian antiquity, a sovereign court at Athens, so famous for the justice and impartiality of its decrees, that the gods themselves are said to have submitted their quarrels to its determination.

AREOSTYLE, or ARCHEOSTYLE. See the article ARCHEOSTYLE.

AREOTICS, or ARCHEOTICS. See the article ARCHEOTICS.

AREQUIPPA, a city of Peru, in South America, situated in 73° west longitude and 17° south latitude.

AREZZO, a city of Tuscany, in Italy; situated in 11° 15' east longitude, and 41° 15' north latitude.

ARGAN, a city of new Castile in Spain, in the diocese of Toledo.

AREGA, or ARGEI, in Roman antiquity, thirty human figures, made of rules thrown annually by the priests or vestals into the Tiber, on the day of the ides of May.

ARGEMONE, the thorny Mexican poppy, in botany, a genus of plants, with roseaceous flowers, and an unilocular capsule for its fruit.

It belongs to the polyandria monogynia class of Linnaeus.

ARGENDAL, a small town of Germany, in the palatinate of the Rhine, between Simmeren and Bacherac. See the article BACHERAC.

ARGENT, in heraldry, the white colour of the coats of gentlemen, knights, and baronets: the white in the arms of the sovereign princes is called luna, and that in the arms of the nobility pearl: this is expressed in engraving, by the parts being left plain, without any strokes from the graver. See plate XX. fig. 7.

ARGENTAC, a town of France, in the Limousin, situated upon the Dordogne in 2° east longitude, 45° 5' north latitude.

ARGENTAN, a city of France, in the lower Normandy, upon the Orne, and 35° east longitude, 48° 34' latitude.

ARGENTARIA CRETACEA, in natural history, a perfectly pure white earth, found in Prussia, and much esteemed for cleaning plate.

ARGENTIERE, a small island in the Archipelago, situated about sixty miles east of the Morea, in 25° east longitude, and 37° north latitude.

ARGENTIERE is also the name of a small town of Languedoc in France, in 4° east longitude, and 44° 30' north lat.

ARGENTINA, in ichthyology, a genus of malacopterygious fishes, with an oblong, cylindrical body, and teeth on the tongue and palate.
ARGENTINA, in botany, a name by which some call the potentilla of Linnaeus. See the article POTENTILLA.

ARGENTON, a town of France, situated about forty-five miles south-west of Bourges, in 1° 31' east longitude, and 46° 40' north latitude.

ARGENTUM, SILVER, in natural history. See SILVER.

ARGILLA, in natural history. See the article CLAY.

ARGO, in astronomy, a constellation of fixed stars in the southern hemisphere, whose number of stars in Ptolemy's catalogue is 8, in Tycho's 11, and in Mr. Flamsteed's 25. See Constellation.

ARGONAUTS, in greek antiquity, a company of illustrious Greeks, who embarked along with Jason, in the ship Argo, on an expedition to Colchis, with a design to obtain the golden fleece.

ARGOS, a sea-port town of European Turkey, in the Morea, situated on the bay of Napoli de Romania, in 23° east longitude, and 37° 30' north latitude.

ARGOW, a country of Switzerland, bordering upon the lake Constance, so called from the river Aar.

ARGUINA, an island on the coast of Negreria. It lies in the Atlantic ocean about 20° north latitude.

ARGUMENT, argumentum, in rhetoric and logic, an inference drawn from premises, the truth of which is indisputable; or at least highly probable. The arguments of orators receive particular denominations, according to the topics from whence they are derived: thus, we meet with arguments from affection, which interest the passions of the person to whom they are addressed; arguments ad hominem, or those drawn from the professed principles of the person to whom they are addressed; also with arguments a tute, ad ignorantiam, ab invi- dia, &c. The arguments of logicians are the syllogism, enthymem, induction, &c. See SYLLOGISM, &c.

ARGUMENT, in astronomy, denotes a known arch, by means of which we seek another one unknown. The argument of the moon's latitude is her distance from the node; and the argument of inclination is an arch of a planet's orbit, intercepted between the ascending node, and the place of the planet from the sun, numbered according to the succession of the signs.

ARGUMENT, in matters of literature, denotes also the abridgment or heads of a book, history, comedy, chapter, &c. See the article SYLLABUS.

ARGUMENTATION, the act of him who argues, and the manner of framing arguments. See ARGUMENT.

ARGUN, a river of Tartary in Asia, serving as a boundary between the Chinese and Russian empires.

ARGUS-SHELL, a species of porcelain-shell, beautifully variegated with spots, resembling in some measure, those in a peacock's tail.

ARGYLAHIRE, a county of Scotland, lying westward of Glasgow, and comprising the countries of Lorn, Cowal, Knapdale, Kintyre, together with the islands Mull, Jura, Isla, &c. It gives the title of duke to the noble family of Campbell.

ARGYROPOEIA, among alchemists, a pretended art of transmuting, or changing other metals into silver.

ARTHUSEN, a city of Jutland, in Denmark, situated at the entrance of the Baltic-sea, in 10° 25' east longitude, and 56° north latitude.

ARIZONA, a town of the kingdom of Naples and province of Principata, situated about fifteen miles east of Benevento, in 15° 31' east longitude, and 41° 16' north latitude.

ARIAN, in church-history, a sect of antient heretics, who denied the three persons in the holy trinity to be of the same essence, and affirmed Christ to be a creature; that he was inferior to the Father as to his deity; that he was neither co-eternal, nor co-equal with him; also, that the holy ghost was not God, but a creature of the Son. In their dogologies, they ascribed glory to the Father in the Son, through the holy ghost.

ARICA, a sea-port town of Peru, in South America, situated on the Pacific ocean, in 70° 20' west longitude, and 18° 20' south latitude.

ARIDAS, a kind of taffety, manufactured in the East-Indies, from a shining thread which is got from certain herbs, whence they are called aridas of herbs.

ARIDULLAM, in natural history, a kind of zarnich found in the East-Indies. See the article ZARNICH.

ARIES, RAM, in zoology. See RAM.

ARIES, in astronomy, a constellation of fixed stars,
flars, drawn on the globe in the figure of a ram. It is the first of the twelve signs of the zodiac, from which a twelfth part of the ecliptic takes its denomination. It is marked thus ♂, and consists of nineteen flars.

ARIES, the battering ram, in antiquity. See the article RAM.

ARIGNANO, a town of Tuscany, situated upon the river Arno.

ARIMA, a city and sea-port of Japan, in the kingdom of Ximo.

ARIMOÂ, an island of Asia, near new Guinea.

ARIPO, a fortress in Asia, upon the western coast of the Isle Ceylon, belonging to the Dutch.

ARIOLI, or HARIOLI, in antiquity. See the article HARIOLI.

ARISARUM, in botany, the name by which two distinct generic names of plants, the callis and arum of Linnaeus, are called. See the article CALLA, &c.

The arisarum of Tournefort has a hooded kind of flower, from whence its English name Friars coul. The flower and leaves, applied in the way of ointment, are destitute and unerary; and the roots, taken in powder, are reckoned good in malignant eases.

ARISH, a perfain long measure, containing about 38 English inches.

ARISI, the Italian name for the plant which produces the rice. See RICE.

ARISTA, among botanists, a long needle-like beard, which stands out from the husk of a grain of corn, grass, &c.

ARISTA, in ichthyology, a species of athe­rina. See the article Atherina.

ARISTOCRACY, a form of government, where the supreme power is vested in the principal persons of the state, either on account of their nobility, or their capacity and probity. The republic of Venice is an aristocracy.

ARISTOLOCHIA, birth-wort, in botany, &c. See Birth-wort.

ARISTOTELIAN, something relating to Aristotle; thus we read of the aristotleian philosophy, school, &c. See the article Peripatetics.

ARISTOTELIAN wheel, rota aristotelica. See the article Rot.

ARISTOTUS, a name by which some call the father or mother of hermies. See the article SHAD.

ARITHMETIC, the art or science of numbering; being that branch of pure mathematics, which treats of the powers and properties of numbers.

The fundamental rules, or operations, of arithmetic, are four: viz. addition, subtraction, multiplication, and division; the practice of each of which is given under the heads Addition, Subtraction, &c.

But besides these, there are other rules contrived for facilitating computations of all kinds: such is the rule of proportion, rule of three, or golden-rule, as it is called; also, the rules of fellowship, interest, reduction, extraction of roots, barter, &c. all which will be delivered under the several heads Proportion, Interest, &c.

The number of books on arithmetic is very great. Wingate, Cocker, Leybourn, Hill, Pardon, &c. have written practical treatises of it; but by far the most complete is L'Art de calculer, in our, or perhaps in any other language, is that of Mr. Malcolm.

Binary Arithmetic. See Binary.

Common Arithmetic, besides that of integers, already described, comprehends vulgar fractions. See Fraction.

Decadal, that performed by nine figures and a cypher, taken, no doubt, from the number of our fingers. See the article Numeration.

Decimal Arithmetic, that containing the doctrine of decimal fractions. See the article Decimal.

Dyadic Arithmetic, the same with the binary. See the article Binary.

Harmonical Arithmetic. See the article Harmonical.

Arithmetic of Infinites, the doctrine of infinite series. See the article Series.

Instrumental Arithmetic, that performed by means of instruments, as the abacus, or counting-board, napier's bones, &c. See Abacus, Napier's bones, &c.

Literal Arithmetic, the same with figurative. See the article Algebra.

Logarithmical Arithmetic, that performed by means of logarithms. See the article Logarithm.

Logistic Arithmetic, the same with sexagesimal.

Numerous Arithmetic, the same with decadal.

Political Arithmetic. See Political.

Arithmetic of rationals and irrationals. See the article Rational.

Sexagesimal Arithmetic, the doctrine of sexagesimal fractions. See the article Sexagesimal.

Specious Arithmetic, the same with algebra. See Algebra.
**ARM**

**[189]**

**ARL**

**Arithmetical Arithmetic**, that wherein only 1, 2, 3, and 0 are used.

**Arithmetical**, in a general sense, something belonging to arithmetical. See the preceding article.

**Arithmetical complement of a logarithm**, the sum or number, which a logarithm wants of 10,000000; thus the arithmetical complement of the logarithm 8.154032 is 1.845968.

**Arithmetical mean.** See **Mean**.

**Arithmetical music.** See **Music**.

**Arithmetical progression.** See the article **Progression**.

**Arithmetical proportion.** See the article **Proportion**.

**Arithmetical ratio.** See **Ratio**.

**Arithmomancy**, **apothegmata**, a species of divination performed by means of numbers.

**Ariza**, a town of Aragon in Spain, upon the river Xalon. See **Aragon**.

**Ark, Arc, or Arch.** See **Arch**.

**Ark, area**, in the scriptural language, a kind of vessel, built by the express command of God, for preserving Noah and his family, together with the several species of animals, from the universal deluge. It was not like our modern ships, but of an oblong square form, not unlike a chest, only that the roof, or upper part, was built shelving, to carry off the rain.

Those who desire a more particular account of it, may consult Calmet's Dictionary of the Bible, Butero De arca Noe, Wilkin's Real character, &c.

**Ark of the covenant**, so the Jews called a small chest made of solid gold, wherein were contained the golden pot that had manna, Aaron's rod, and the tables of the covenant. It was held in the greatest veneration.

**Arki**, a town of Turkey in Europe, between Belgrade and Zagrow.

**Arklow**, a sea-port town of Ireland, situated in the county of Wicklow, about thirteen miles south of the city of Wicklow, in 6° 20' west longitude; and 52° 53' north latitude.

**Arles**, a city of Provence in France, situated on the eastern shore of the river Rhone, in 4° 45' east longitude, and 43° 32' north latitude.

**Arleux**, a town of Hainault, situated about six miles south of Douay, in 3° east longitude, and 50° 20' north latitude.

**Arlon**, a town of the duchy of Luxembourg, in the Austrian Netherlands, situated in 5° 30' east longitude, and 49° 45' north latitude.

**Arlyng**, in zoology, the fame with oenanthé. See the article **Oenanthé**.

**Arm, brachium**, a part of the human body terminating at one end in the shoulder, and at the other in the hand. Anatomists divide the arm into two parts, calling only that part the arm which is included between the shoulder and the elbow, the rest, from the elbow to the wrist, being taken into the greater hand, is called the fore arm. The arm, in this acceptance has only one large bone, called the os humeri, or the shoulder bone. The other part consists of two bones, viz. the radius, and cubitus, or ulna.

The os humeri has five sorts of motions, which are effected by five pair of muscles; upwards, by the deltoïdes, supraspinatus, and coraco-brachials; downwards by the teres, rotundus major, and latissimus dorsi; forwards by the pectoralis; backwards, by the infraspinatus.

The muscles of the other part are the biceps, brachiius internus, gemelli, brachiæus externus, anconæus, pronator, radii teres, & quadratus, supinator longus, & brevis. Its motions are confined to two kinds, that of rotation, and that of flexion and extension.

**Arm, in riding**, is applied to a horse, when by prevailing down his head, he endeavours to defend himself against the bit, to prevent obeying, or being checked thereby.

A horse is said to arm himself with the lips, when he covers his bars with his lips, and deadens the pressure of the bit.

**Arm, in geography**, denotes a branch of the sea or of a river.

**Arm** is also used figuratively for power.

**Arm, in respect of the magnet.** A loadstone is said to be armed, when it is included, capped, or set in iron or steel, in order to increase its magnetic virtue.

**Arma**, the name of a city and province of south America, in the kingdom of Popayan.

**Armada**, a Spanish term, signifying a fleet of men of war, as armadilla does a squadron.

The armada, which attempted to invade England in the time of Queen Elizabeth, is famous in history.

**Armadabat**, a very large city of Asia, the metropolis of the kingdom of Guzarat.
ARMADILLO, in zoology, an animal of the quadruped class, comprehended by some among the hedge-hogs, but made a distinct genus by Linnaeus, under the name Dasyus; the distinguishing characteristic of which is, that the animals are covered with a kind of bony or horny coat of mail, of various figures and dimensions. One of these with feet somewhat resembling the human hand, is represented in plate XX. fig. 6.

ARMAGH, once a considerable city of Ireland, but now much reduced, situated about thirty miles south of Londonderry, in 5° 45' west longitude, and 54° 30' north latitude. It is still the see of the primate of Ireland, and gives name to the county of Armagh.

ARMAGNAC, a district or territory, in the north-east part of Gascony in France. ARMAN, in farriery. ARMED, in heraldry, is the other thumb, Christ. This is the chief arm of the carpus. 

ARMENIAN, something concurring as Armenica, in botany. See the article Apricot. ARMENIAN, something belonging to, or produced in Armenia: thus we say, armenian hole, armenian stone, &c. See BOLE, and LAPIS ARMENUS.

ARMENIANS, in church-history, a sect or division among the eastern Christians; thus called from Armenia, the country antiently inhabited by them; there are two kinds of armenians, the one catholic, and subject to the pope, having a patriarch in Persia; and another in Poland; the other makes a peculiar sect, having two patriarchs in Natolia. They are generally accused of being manophytes, only allowing of one nature in Jesus Christ. As to the eucharist, they, for the most part, agree with the greeks: they abstain rigorously from eating of blood, and meats strangled; and are much addicted to fasting.

ARMENIERS, a fortified town in French Flanders, situated about seven miles west of Lille, in 59° 50' east longitude, and 50° 42' north latitude. ARMIERS, a town of Hainault, in the French Netherlands, situated on the river Sambre, about twenty miles south of Mons, in 3° 40' east longitude, and 50° 15' north latitude.

ARMIGER, an esquire, or armour-bearer. ARMILLA-MEMBROSA, in anatomy, is that circular ligament which comprehends all the tendons belonging to the whole hand within a circle, in the region of the carpus.

ARMILLARY, ARMILLARIS, in a general sense, something consisting of rings, or circles, from armilla, a bracelet.

ARMILLARY SPHERE, an artificial sphere, composed of a number of circles, representing the several circles of the mundane sphere, put together in their natural order, to give and affist the imagination, in conceiving the constitution of the heavens, and the motions of the celestial bodies.

The armillary sphere turns upon its axis PP (plate XXI. fig. 1.) within a silvered horizon HO, which is divided into degrees, and moveable every way, upon a brass supporter. E Q represents the equinoctial, and A B the zodiac, which is a broad circle divided into degrees, and into twelve equal parts, marked with the twelve signs γ, ζ, θ &c. A P B P is the meridian, likewise divided into degrees.

The other parts are the two tropics, and two polar circles, both delineated in the figure.

ARMILUSTRIUM, in roman antiquity, a feast held among the Romans, in which they sacrificed armed, to the sound of trumpets.

ARMINGS, in the sea-language. See the article Armed.

ARMINIANS, in church-history, a sect of christians which arose in Holland, by a separation from the calvinists. They are great affeters of free-will. They speak very ambiguously of the preience of God. They look on the doctrine of the trinity as a point not necessary to salvation; and many of them hold there is no precept in scripture, by which we are enjoined to adore the holy ghost; and that Jesus is not equal to God the father.
ARMIRO, a town of European Turkey, in the province of Thessaly, situated in 23° 30' east longitude.

ARMISTICE, a temporary truce, or cessation of arms for a very short space of time.

ARMOISIN, a silk stuff, or kind of taffety, manufactured in the East Indies, at Lyons in France, and Lucca in Italy. That of the Indies is lighter than those made in Europe.

ARMONIAC, or ammoniac, a natural salt ammoniac, used by the ancients, was found in the lands of Lybia, near the temple of Jupiter Ammon. It was supposed to be generated in those lands from the urine of camels. The artificial, or common salt ammoniac, is chiefly brought from Egypt; and though there is hardly a more common drug, it is but very lately we have known in what manner it is made; being procured by sublimation from all sorts of urine of men and beasts, mixed with common salt and foot. It must be chosen white, clear, transparent, dry, and without filth; and when broken, it must appear as if full of needles.

The use of this salt is very considerable in medicine, and several artificers use it; such as dyers, silver-smiths, pin-makers, farriers, &c. Its spirit is so sharp, that, when mixed with aqua-fortis, or spirit of nitre, it completes the dissolusion of gold, which those two powerful dissolvents could not effect without it.

Its preparations are, 1. Flowers of salt ammoniac. 2. Its volatile salt. 3. Its spirit. 4. Its dulcified spirit.

ARMOR, or Armour. See Armour.

ARMORIAL, something relating to arms, or coats of arms. See Arms.

ARMORY, a warehouse of arms, or a place where the military habiliments are kept, to be ready for use.

ARMOR is also a branch of the science of heraldry, consisting in the knowledge of coats of arms, as to their blazons and various intendments. See the articles Blazon and Heraldry.

ARMOURER, a person who makes or deals in arms and armour.

ARMS, arma, in general, all kinds of weapons, whether used for offence or defence.

Arms of offence, are the sword, pistol, musquet, bayonet, &c. See the article Sword, &c.

Arms of defence. See Armour.

Arms, in a legal sense, extend to any thing that a person wares for his own defence, or takes into his hand, and uses, in anger, to strike or throw at another.

Arms of courtesy or parade, were lances not shod, swords without edge or point, &c. used in the ancient tournaments. See the article Tournament.

Past of Arms, a kind of combat, when anciently one or more cavaliers undertook to defend a pass against all attacks.

Arms denote also the natural weapons of beasts, as claws, teeth, beaks, &c.

Arms, or Armories, in heraldry, marks of honour borne upon shields, banners, and coats, in order to distinguish states, families, and persons.

At this time, arms follow the nature of titles, which being made hereditary, they are also become so, being the several marks to distinguish families, as names serve to distinguish individuals. They are the gift of kings and princes, through the ministry of their kings and heralds of arms, who ought to be knowing and judicious, to give the proper arms to all persons.

Arms are said to be parted, couped, quartered, &c. See the articles Parted, Couped, &c.

Charged Arms, are such as retain their ancient integrity, with the addition of some new honourable bearing.

Canting or vocal Arms, those in which there are some figures, alluding to the name of the family.

Full or intire Arms, such as retain their primitive purity, without any alterations or abatements.

False Arms, such as are not conformable to the rules of heraldry.

Arms, in falconry, the legs of a hawk from the thigh to the foot.

Place of Arms, in fortification. See the article Place of Arms.

Assumptive Arms. See Assumptive.

Arms of patronage. See Patronage.

King at Arms. See King at arms.

Herald at Arms. See the article Herald.

Poursuivant at Arms. See Pursuivant.

College of Arms. See College of arms.
ARN [192] ARO

ARMUYDEN, a sea-port town of the island of Zetland, situated at the mouth of the canal of Middleburg, in 3° 35' and 52° 30' north latitude.

ARMY, a large number of soldiers, consisting of horse and foot, completely armed, and provided with artillery, ammunition, provisions, &c., under the command of one general, having lieutenant-generals, major-generals, brigadiers, and other officers under him. An army is composed of squadrons and battalions, and is usually divided into three corps, and formed into three lines; the first line is called the van-guard, the second the main body, and the third the rear-guard, or body of reserve. The middle of each line is policed by the foot; the cavalry form the right and left wing of each line; and sometimes they place squadrons of horse in the intervals between the battalions. When the army is drawn up in order of battle, the horse are placed at five feet distance from each other, and the foot at three. In each line the battalions are distant from each other one hundred and eighty feet, which is nearly equal to the extent of their front; and the same holds of the squadrons, which are about three hundred feet distant, the extent of their own front. These intervals are left for the squadrons and battalions of the second line to range themselves against the intervals of the first, that both may more readily march through those spaces to the enemy: the first line is usually three hundred feet distant from the second, and the second from the third, that there may be sufficient room to rally, when the squadrons and battalions are broken. This is to be understood of a land army only. A naval or sea army is a number of ships of war, equipped and manned with sailors and mariners, under the command of an admiral, with other inferior officers under him. See NAVY. For diseases incident to armies, see the articles CAMP, HOSPITAL, SOLDIERS, &c.

ARNAUT, in geography, the modern or turkish name of Albania. See ALBANIA.

ARNAY-LE-DUC, a town of Burgundy in France, situated on the river Arroux, in 4° east longitude, and 47° north latitude.

ARNEBERG, a town of Germany, upon the Elbe, between Angermund and Wurben.

ARNEO, a town of South America, upon the Pacific ocean, in Peru.

ARNHEIM, a large city of Guelderland, in the united Netherlands, situated on the river Lech, about ten miles north of Nimegueen, in 5° 52' east longitude, and 52° north latitude.

ARNICA, in botany, a species of doronicum. See the article DORONICUM.

ARNO, a river of Italy, which, after watering Tuscany, falls into the Mediterranean, below Pisa.

ARNOGLOSSUS, the name by which some call the lantern-fish.

ARNOLDISTUS, in church history, sectaries so called from their leader Arnold of Brescia, who was a great declamer against the wealth and vices of the clergy; and who is also charged with preaching against baptism, and the eucharist.

ARNOT, arnatta, the name by which some call the bulbocoatmanum, or earth nut. See BULBOCOSTANUM.

ARNSTADT, a town of Germany in Thuringia, upon the river Gora, east longitude 11° latitude 50° 34'.

AROLEC, an American weight, equal to twenty-five of our pounds.

AROMA, a name by which some call myrrh. See the article MYRRH.

AROMA philophorum, denotes either saffron, or the araph of Paracelus; as arona germanicum denotes elecampane.

AROMATIC, an appellation given to such plants and other bodies as yield a brisk fragrant smell, and a warm spicy taste. Besides all kind of spices, not a few of the nervous simples may be ranked among aromatics.

AROMATIC aum, that in which aromatics have been infused.

ARONA, a fortified town of the Milanese, situated on the south-west part of the lake Maggior, in 8° 48' east longitude, and 4° 40' north latitude.

ARONCHES, a town of the province of Alentejo, in Portugal, situated in 7° 50' west longitude, and 39° north latitude.

ARONDE, or queue d'ARONDE. See the article QUEUE.

AROOL, a city of Ruffia, upon the river Occa, east longitude 38° 50' north latitude 51° 48'.

ARO-ORCHIS, in botany, the same with the hempeeria of Linnaeus.

AROPH, a term used by Paracelus for lithontropic medicines. See the article LITHONTRIPTIC.

ARORNOS, a name given by some to juniper. See JUNIPER.
ARSEN, or WESTERAS, a city of Sweden, the capital of the province of Vastmanland.

AROW, a free city of the canton of Bern, in Switzerland.

AROURA, a grecoan measure of fifty feet. It was more frequently used for a 'square measure' of half the plethron. The Egyptian aroura was the square of one hundred cubits.

ARPAGIUS, or HARPAIS. See the article PARPAGIUS.

ARPENT, a term sometimes used to denote an acre.

ARQUATA, in ornithology, a species of numenius. See the article NUMENIUS.

ARQUEBUS, or HARPAGIUS. See the article PARPAGIUS.

ARRACAN. See the article ARACAN.

ARRACHEE, or ARACAN. See the article ARACAN.

ARRACK. See the article RACK.

ARRADING, in law, the arraigning or setting a thing in order, as a person is said to arraign a writ of arrears, or to arraign a person to be called a petitioner. It is more properly used to call a person to answer in form of law upon an indictment, &c. at the suit of the king.

ARRACK. See the article RACK.

ARRAVIS, or ARAXES, is also the name of a river of Georgia, which discharges itself into the Caspian sea.

ARRAY, in law, the ranking or setting forth of a jury, or inquest of men impaneled on a cause.

Battle-ARRAY, the order or disposition of an army, drawn up with a view to engage the enemy. See the article ARMY.

ARREARS, the remainder of a sum due, or money remaining in the hands of an accountant. It signifies also, more generally, the money that is due for rent, unpaid for land or houses; likewise what remains unpaid of pensions, taxes, or any other money payable annually, or at any fixed term.

C C

ARRHENOUS, a name given to a pellitory of the wall.
ARS

ARRHEPHORIA, a feast among the Athenians, instituted in honour of Minerva, and Herse, daughter of Cecrops.

ARRIERE, the hinder or posterior part of any thing. See the article REAR.

ARRIERE-BAN, in the French customs, is a general proclamation, whereby the king summons to the war all that hold of him; both his vassals, i.e. the nobleman, and the vassals of his vassals.

ARRIERE-fee, or PEEP, is a fee dependent on some other superior one.

ARRIERE-VASSAL, or TENANT, the vassal or tenant of another vassal or tenant.

ARROBA, a weight used in Spain, in Portugal, at Goa, and throughout all Spanish America. In all these places, they are scarce any other ways like each other but in name, being very different in weight, and in their proportion to the weights of other countries.

ARROE, an island of Denmark, situated in the Baltic sea, in 10° 14' east longitude, and 55° 15' north latitude.

ARROGATION, or ADROGATION. See the article ADROGATION.

ARRONDEE, in heraldry, a croft, the arms of which are composed of sections of a circle, not opposite to each other, so as to make the arms bulge out thicker in one part than another; but the sections of each arm lying the same way, so that the arm is every where of an equal thickness, and all of them terminating at the edge of the escutcheon like the plain crofts.

ARROW, a missive weapon, sharp-pointed and barbed, designed to be shot or thrown out of a bow. See BOW.

ARROW, in surveying, small sticks, shod with iron, to stick into the ground at the end of the chain.

ARROW, sagitta, in astronomy. See the article SAGITTA.

ARROW-ROOT, in botany, the same with the maranta of authors.

ARSCVIN, in commerce, a long measure used in China to measure stuffs. Four arsblins make three yards of London.

ARSCHEROT, a town of the Austrian Netherlands, situated about fourteen miles east of the city of Mechlin, in 4° 45' east longitude, and 51° 5' north latitude.

ARSELLA, in botany, a name used for argemone.

ARSENIAC, a poisonous mineral-preparation, which is either white, red, or yellow; all prepared from the flowers of cobalt. See the article COBALT.

ART

The white arsenic, which is prepared by subliming these flowers, without any additional, is the basis of the other two; the yellow arsenic being made by subliming ten pounds of the white kind, to which one pound of sulphur has been added; and red arsenic is sublimed from ten pounds of white arsenic, or flowers of cobalt, one pound of sulphur, and six ounces of fooræ of copper.

Properties and uses of ARSENIC. The smallest quantity of any of these arsennes, mixed with any metal, renders it friable, and absolutely destroys its malleability; so that the refiners dread nothing so much as arsenic in their metals. It preys most readily on iron, then on copper; both which it turns white. Silver, and even gold, are not able to withstand the corrosive power of arsenic; but tin suffers most of all from it, being thereby calcined in an instant to grey loose ashes. It is used in many manufactures. Potters, gla‘sd-men, painters in enamel, &c., find it of use in their several procussions.

Arsenic, taken internally, is the most fatal of all poisons, and therefore people cannot be too cautious in this respect. Hence also appears the extreme danger in selling yellow arsenic instead of orpiment, which is but too frequently done.

ARSENCIAL, in a general sense, something belonging to, or partaking of the nature of arsenic.

ARSENCIAL MAGNET, a preparation of white arsenic with antimony and sulphur, said to be a gentle caustic.

ARSENOTHELYS, arsenothelys, the same with hermaphrodite.

ARIS and THESIS, in music. A point is said to move per arsin and thesis, which rises in one part and falls in another, and vice versa.

ARSMART, in botany, the English name of several species of pericaria. See the article PERSICARIA.

ARSON, in law, the same with house-burning, which is felony at common law, and likewise by statute.

ART, ars, a system of rules, serving to facilitate the performance of certain actions; in which seine it stands opposed to science, or a system of merely speculative principles.

Arts are commonly divided into liberal and mechanical; the former comprehending poetry, painting, sculpture, architecture, &c. and the latter, the whole body of mechanical trades, as carpentry, masonry,
ART [ 195 ]

ART, or LARTA, a fer-port town of Epirus, in European Turkey, situated in 22° east longitude, and 39° north lat. 

ARTANITA, in botany, a name given by the antients to the leontopetalon. 

ARTEMISIA, in botany, a genus of plants with fleshy flowers, comprising not only the mugworts, but wormwood and southernwood; which all belong to the genus Mugwort, Wormwood, &c. 

Arte, however, most commonly denotes mugwort. See plate XXI. fig. 2. 

ARTERIA, artery. See ARTERY. 

ARTERIAL, or ARTERIOSE, in anatomy, any thing relating to the arteries. 

ARTERIOSE VEIN, a name given to the pulmonary artery. 

ARTERIOSE CANAL, a tube in the heart of a fetus, that, with the foramen ovale, is of use to preserve the circulation of the blood, &c. 

ARTERIOTOMY, the opening an artery, with design to procure an evacuation of blood. 

This operation is used only in extraordinary cases, as it is very dangerous, and must be practiced in the temples, forehead, or behind the ears, where the arteries are easily closed again. 

ARTERY, in anatomy, a conical tube or canal, which conveys the blood from the heart to all parts of the body. 

An artery is composed of three membranes, or coats; the outermost of which appears to be a web of fine blood-vessels and nerves, for nourishing the interior membranes. The next is composed of circular or spiral fibres, of which there are more or fewer, according to the bigness of the artery. These fibres being very elastic, contract themselves with some force, when the power ceases, by which they have been stretched out. The third and innermost membrane is of a dense contexture, yet transparent and fine. It serves to keep the blood within its channels, which otherwise would, upon the dilatation of the artery, separate, with much ease, the spiral fibres from one another. The pulse of the arteries consists of two reciprocal motions, like the pulse of the heart, being a sphygm and a dia-stole, keeping opposite times, the sphygym of the one answering to the diastole of the other. 

The arteries of the human body are, chiefly speaking, only two, viz. the pulmonary artery, and the aorta. See the articles Pulmonary and Aorta. 

All the other arteries of the body, tho' distinguished by particular names, are only branches of these two. The ascending aorta, arising from the left ventricle of the heart, presently gives two arteries, called coronary ones, to the heart itself. A little above this, it is divided into three ascending branches: from which are formed the two carotids, and the two subclavians; and from these last proceed the musculares collis, the external scapular artery, the superior intercostals, the mediastinal artery, the superior diaphragmatic artery, the mammary artery, and the axillary arteries: all which are subdivided into lesser branches, as will be shown under the articles Carotid, Scapulay, Mammary, Axillary, &c. 

From the descending trunk of the aorta proceed, in the following order, the bronchial artery, the inferior intercostals, the arteries of the oesophagus, the inferior diaphragmatic, the colic, superior mesenteric, the renal or emulent arteries, the spermatics, the inferior mesenteric, the lumbar arteries, the sacra, and two iliacs. These are the main branches sent out from the descending aorta, each of which is again subdivided into many lesser branches. See the articles Bronchial, Coeliac, Iliac, &c. 

To enter into a more minute detail of these lesser subdivisions, would be ted-
ART

A.R.T. [196]

ARTHITICA, in botany, a name used for the primrose.

ARTHRODIA, in natural history, a genus of imperfect crystals, found always in complex masses, and forming long, single pyramids, with very short and slender columns. See the article CRYSTAL.

ARTHRODIA, in anatomy, a species of articulation, wherein a flat head of one bone is received into a shallow socket of another.

ARTICHOAK, CINARA, in botany. See the article CINARA.

Jerusalem ARTICHOAK, a species of sunflower.

ARTICLE, a clause, or condition of a contract, treaty, &c.

ARTICLE is also a small part or division of a discourse, a book, or writing, &c.

ARTICLE of faith is a point of religious doctrine, allowed and received by any church, or religious sect, as having been revealed from heaven.

ARTICLE, in anatomy, the juncture of two bones designed for motion.

ARTICLE of death, the last pang or agony of one just expiring.

ARTICLE, in arithmetic, sometimes called a dead, denotes a number justly divisible into ten parts, as the numbers 10, 20, 30, &c.

ARTICLE, in grammar, a particle in most languages, that serves to express the several cases and genders of nouns, when the languages have not different terminations to denote the different states and circumstancies of nouns.

The Latin has no article; but the Greeks have their ὁ: the eastern languages have their ἡ emphaticum; and most of the modern languages have had recourse to articles. The only articles made use of in the English tongue, are a and the, which, prefixed to substantives, determine their general signification to some particular thing. The use of a is in a general sense, and may be applied to any particular person or thing, and upon that account is called an INDEFINITE ARTICLE: but the, being a determinate article, is called definite, or demonstrative, as applying the word to one individual. The French have three articles, le, la, and les; the Italians have their il, lo, and la; and the Germans their der, das, and dat.

ARTICULARIS MORBUS, the disease with the gout. See the article GOUT.

ARTICULATE SOUNDS are such sounds as express the letters, syllables, or words of any alphabet or language; such are formed...
formed by the human voice, and by some few birds, as parrots, &c. Other brutes cannot articulate the sounds of their voice.

**ARTICULATED**, something furnished with, or consisting of joints.

**ARTICULATION**, in anatomy, denotes the juncture of two bones, intended for motion.

Articulation is of two kinds; the first is called diarthrosis, being that which has a manifest motion. That which only admits of an obscure motion, is called sarnarthrosis.

The former is subdivided into enarthrosis, arthrodia, and ginglymus. See the article **ENARTHROSIS**, &c.

The latter is subdivided into symphysis, symtemos, sutura, harmonia, ystüneurosis, synchondrosis, and synneurosis. See the articles **SYMPHYSIS**, &c.

**ARTIFICER**, a person whose employment is to manufacture any kind of commodity, as in iron, brass, wool, &c. Such are smiths, weavers, carpenters, &c. If any such confpire not to work under certain prices, they are liable to divers penalties. Perons that contract with artificers in wool or metals to go out of the kingdom, shall be fined in any sum not exceeding 100l. and imprisoned for three months. If artificers, that are abroad, don’t return in six months after warning, they shall be deemed aliens, and be incapable of inheriting lands by descent.

**ARTIFICIAL**, in a general sense, denotes something made, fashioned, or produced by art, in contradistinction from the productions of nature.

This term is as extensive as the works of art: thus we say, artificial day, globe, fountain, lightening, magnet, rainbow, &c. See the articles **DAY**, **GLOBE**, &c.

**ARTILLERY**, large fire-arms of all sorts, with their appurtenances, as cannons, mortars, bombs, petards, musquets, carbines, &c. See the articles **CANNON**, **MORTAR**, &c.

**ARTILLERY-PARK**, the place in the rear of both lines, in the army, for encamping the artillery, which is drawn up in lines, of which one is formed by the guns: the ammunition waggons make two or three lines, sixty paces behind the guns, and thirty distant from one another: the pontoons and tambrels make the last line. The whole is surrounded with a rope, which forms the park; the gunners and matrosies encamp on the flanks, and the bombardiers, pontoon-men, and artificers, in the rear.

**ARTILLERY-TRAIN**, a certain number of pieces of ordnance, mounted on carriages, with all their furniture fit for marching.

**ARTILLERY-COMPANY**, a band of infantry, consisting of six hundred men, making part of the militia or city guard of London.

**ARTISCUS**, in medicine, the fame with troche. See the article **TROCHE**.

**ARTIST**, a person skilled in some art. See the article **ART**.

**ARTOIS**, a province of the french Netherlands, situated between Flanders and Picardy.

**ARTOTYRITES**, in church-history, a sect of christians who used bread and cheese in the eucharist, or bread, perhaps, baked with cheese; urging, in defence of this practice, that in the first ages of the world, men offered to God the fruits of their flocks, as well as those of the earth.

**ARTZBOURG**, a town of Bavaria, in Germany, upon the Danube.

**ARVALES FRATRES**, in roman antiquity, a college of twelve priests, instituted by Romulus, who himself made one of the body: they assisted in the sacrifices of the amber valia, offered annually to Ceres and Bacchus, for the prosperity of the principal fruits of the earth, viz. those of corn and wine.

**ARUBA**, a small island on the coast of Terra Firma, subject to the Dutch, and situated in 69° 30' west longitude, and 12° 30' north latitude.

**ARUM, WAKE-RODIN, or CUCKOW-PINT**, in botany, a genus of plants, the flower of which consists of one petal, resembling in some measure a hare’s ear; and its fruit is a roundish, unilocular berry, containing several seeds of the same shape.

This genus belongs to the gynandria po-hyandria class of Linnaeus, who makes it comprehend the arum, arisarum, colocasia, and dracunculus of other botanists.

The root of arum is esteemed good in scrobutic caïes, in the asthma, and obstructions of the bronchia, &c.

**ARUNCUS**, in botany, the name by which Linnaeus calls the barba coare of Tournefort. See the article **BARBA**.

**ARUNDEL**, a town of Suffex, situated on a river of the same name, in 30° west longitude, and 50° 45' north latitude. It gives the title of earl to the noble family of the Howards, and sends two members to parliament.
ARUNDO, REED, in botany. See Reed.
ARURA, or AROURA. See AROURA.
ARUSPICES, or HARUSPICES, an order of priesthood, among the Romans, that pretended to foretell future events by inspecting the entrails of victims killed in sacrifice; they were also consulted on occasion of portents and prodigies. It appears that women were admitted into this order.

ARWA, ARAVA, or ARVA, the name of a district, town, and river, in upper Hungary.

ARYT/ENOIDES, in anatomy, the name of two cartilages, which, together with others, constitute the head of the larynx. It is also applied to some muscles of the larynx.

ARYT/ENOIDEUS, in anatomy, one of the muscles that closes the larynx, having its head in one arytenoid cartilage, and its tail in the other; serving at once to bring them together, and to shut the rima, or glottis.

ARYTHMUS, $\mu\n
ASCENDANT, ASCENDENT, or ASCENDING LINE, among lawyers, is meant of ancestors, or such relations as are nearer the root of the family. Such are the father, grandfather, great uncle, &c. Marriage is always forbidden between the ascendants and descendants in a right line.

ASCENDANT, in astrology, that degree of the equator which rises above the horizon in the east, when any person is born, called also the angle of the first house in a scheme of horoscope.

ASCENDENS OBLIQUS, the name with the obliques internus abdominis. See the article OBLIQUS.

ASCENDING, in astronomy, is said of such stars as are rising above the horizon, in any parallel of the equator.

ASCENDING latitude of a planet. See the article LATITUDE.

ASCENDING NODE. See the article NODE.

ASCENDING SIGNS, among astrologers, those rising from the nadir towards the zenith.

ASCENDING VESSELS, in anatomy, those which carry the blood upwards, as the aorta ascends, and venas cava ascendens. See AORTA, and VENA CAYA.

ASCENSION, ascensio, denotes, in general, a rising, or moving upwards.

ASCENSION, in astronomy, the rising of the sun or a star, or any part of the equinoctial with it, above the horizon, is either right or oblique.

Right ascension is that degree of the equator, reckoned from the beginning of aries, which rises with the sun or a star, in a right sphere. It is found by the following proportion. As the radius to the coline of the sun or star’s greatest declination, so is the tangent of the distance from aries to libra, to the tangent of right ascension.

Oblique ascension is that degree and minute of the equinoctial, counting from the beginning of aries, which rises with the center of the sun or a star, or which comes to the horizon at the same time as the sun or star, in an oblique sphere. In order to find the oblique ascension, we must first find the ascensional difference. See the article ASCENSIONAL, &c.

The arch of right ascension coincides with the right ascension itself, and is the same in all parts of the globe. The arch of oblique ascension coincides with the oblique ascension, and changes according to the latitude of places.

Refraction of ASCENSION. See the article Refraction.

ASCENSION-DAY, a festival of the christian church, held ten days before Whit-Sunday, in memory of our saviour’s ascending into heaven after his resurrection.

ASCENSION-ISLAND, an uninhabited island, lying almost in the mid-way between Africa and Brazil, in 17° west longitude, and 7° south latitude.

ASCENSIONAL, in a general sense, something belonging to ascension, or ascension. See ASCENSION.

ASCENSIONAL DIFFERENCE, the difference between the right and oblique ascension of any point in the heavens; or it is the space of time, that the sun rises or sets before or after fix o’clock.

The ascensional difference may be found by this proportion, viz. As the radius is to the latitude of the place, so is the tangent of the sun’s declination to the sine of the ascensional difference; by subtracting of which from the right ascension, when the sun is in the northern signs, and adding it, when the sun is in the southern ones, you will find the oblique ascension.

ASCENT, ascensus, in a general sense, the motion of a body upwards.

The ascent of light bodies is now well known to be owing to the preponderancy of heavier ones, whereby they are impelled upwards.

ASCENT of bodies on inclined planes. See the article PLANE.

ASCENT of Fluids. See the article FLUIDS and ATTRACTION.

ASCENT of Vapours. See CLOUD and EXHALATION.

ASCENT, in astronomy. See ASCENSION.

ASCETICS, in church history, such christians in the primitive church as inured themselves to great degrees of abstinence and fasting, in order to subdue their passions. In short, every kind of uncommon piety laid claim to the name ascetic.

The ascetics of St. Basil is the title of a book upon spiritual exercize.

ASCHAFFENBURG, a city of Germany, situated on the river Mayne, in the circle of the lower Rhine, about twenty miles east of Frankfort, in 9° east longitude, and 50° 15’ north latitude.

ASCHERLEBEN, a little city of Germany in Saxony, in the principality of Anhalt, upon the Wiber.

ASCHIA, in ichthyology, a name given to that fish which is vulgarly called a grayling or umber. See GRAYLING.

ASCH, among geographers, an appellation given to those inhabitants of the earth,
earth, who, at certain seasons of the
year, have no shadow: such are all the
inhabitants of the torrid zone, when
the sun is vertical to them.
ASCITES, in medicine, the common drop-
y. See the article DROPSY.
ASCLEPIAD, aflepiadeus, in antient
poetry, a verse composed of four feet, the
first of which is a spondee, the second a
choriambus, and the two last dactyly, or
of four feet and a cæstura, the first a
spondee, the second a dactyle, after which
comes the cæstura, then the two dactyls,
as
Maecenas atovus edite regibus.
ASCLEPIAS, SWALLOW-WORT, in bo-
tany, a genus of plants, the flower of
which consists of one campainiform pet-
al, divided into five deep segments at the
mouth, and its fruit consists of two fel-
lies or vagine, containing a great num-
ber of imbricated seeds, winged with
down. See plate XXI. fig. 4.
ASCODRUTUS, in church-history, a sort
of gnatics, who placed all religion in
knowledge, and under pretence of spiri-
tual worship, would admit of no exter-
nal or corporeal symbols whatever.
ASCOLI a city in the marquisate of Anco-
na, in Italy, situated on the river Tronto,
in 15° east long; and 42° 10' north latit.
ASCOLI is also a city of the kingdom
of Naples, situated in the province of
Capitona, in 16° 30' east longitude,
and 41° 15' north latitude.
ASCOLIA in grecian antiquity, a festival
celebrated by the athenian husbandmen;
in honour of Bacchus, to whom they fa-
crificed a he-goat, because that animal
destroyed the vines. Out of the victim's
skin it was customary to make a bottle,
which, being filled with oil and wine, fell
as a reward to him who first fixed himself
upon it with one foot.
ASCUS, in natural history, the pouch or
bag of the opossum. See OPUSUM.
ASCYRUM, in botany, a genus of plants
with a relacceous flower, and an oblong
capillar fruit, formed of two valves, and
containing a number of small, roundish
seeds. It belongs to the polydrphio poly-
dendra clas of Linneus, and is fro newly
allied to the hypericum, that Tournefort
makes them the same genus; from which
however, it is distinguished, by having
only four petals, whereas the hypericum
has five.
ASELLUS, in ichthyology, a name giv-
en to several species of gadus, as well as
to the physcis. See GADUS and PHYCIS.
ASELLUS is also a name by which for
mills the millepedes. See MILLEPDEDES.
ASGAR, a province of the kingdom of
Fez in Africa, between Fez and Habab.
ASH, FRAXINUS, in botany. See the
article FRAXINUS.
Mountain-Ash, the forbus of botanists.
Poison-Ash, the toxicadontron of botanical
writers.
ASHBURTON, a town of Devonshire,
situated about twenty-two miles south-
west of Exeter, in 4° 15' west longi-
tude, and 50° 30' north latitude.
ASHBY DE LA TOUCHE, a market-town of
Leicestershire, situated about fifteen miles
north-west of Leicesters, in 1° 25' west
longitude, and 52° 40' north latitude.
ASHES, the earthy part of wood and
other combustibles, remaining after they
are consumed by fire. These, if produced
from a vegetable, are of a white colour,
and faltish taste, few instances excepted;
and when boiled with fair water, yield a
lixivium of an acrimonious alkaline fiery
urinous taitte. The ashes of all vegetables
are vitrifiable, and are found to contain
iron.
Ashes of all kinds contain a very rich
fertile silt, and are an excellent manure
for cold and wet ground. They are also
of considerable use in making llixiviums
or lyes, for the purposes of medicine,
bleaching, and for sugar works, and
are distinguished by various names, as
pot-ashes, pearl-ashes, wood-ashes, and
weed-ashes. See the article
POX-ASHES, &c.
The antients preferred the ashes of their
dead ancestors in urns. See URN.
ASHFORD, a market-town of Kent, sit-
tuated about twelve miles south-west of
Canterbury, in 45° east longitude,
and 51° 15' north latitude.
ASIA, one of the four grand divisions of
the earth, situated between 25° and 148°
east longitude, and between the equator
and 72° north latitude, and bounded by
the frozen ocean on the north, by the
pacific ocean on the east, by the indian
ocean on the south, by the red-fen on the
south-west, and by the mediterranean
and euine seas, &c. on the west and
north-west; being 4800 miles long from
east to west, and 4300 broad from north
to south.
Asia is subdivided into the eastern, middle,
and western divisions; the first compris-
hing the empire of China, chines Tart-
tary, and the apheric islands lying south,
and eaitward of China; the second, or
cnt
middle, comprehending India, UEFA-
tartary, Calmuc-tartary, and Siberia; 
and the third, or western division, com-
prehending Persia, Arabia, Africcan, 
Circassian-tartary, and Turkey in Asia. 
In painting, Asia is represented by a 
woman, wearing a garland of various 
flowers and fruits; dressed in a rich, em-
broidered vestment; holding in her right-
hand, branches and roots of cassia, pep-
per, cloves, &c. and in her left, a fmoak-
ing center; with a camel kneeling by 
her.

Lesser Asia, the fame with Natolia. See 
the article NATOLIA.

ASIATIC, something peculiar to Asia: 
thus we say, asiatic style, asiatic fruits. 
&c. See the article STYLE, &c. 

ASIDE, in the drama, something said by an 
actor, which some, or even all the other 
actors present, are supposed not to hear; 
a practice justly condemned, as being un-
natural and improbable.

ASILUS, a bird otherwise called luteoala. 
See the article LUTEOLA.

ASILUS, in the history of insects, the hor-
net-fly, or wasp-fly.

ASINARA, a small island situated near 
the western coast of Sardinia, in $9^\circ$ 
east longitude, and $41^\circ$ north latitude. It 
is commonly called Zanara.

ASINUS, the ass, in zoology. See ASS. 

ASINUS PISCIS, in ichthyology. See the 
article HADDOCK.

ASIO, a bird, otherwise called otus. See 
the article OTUS.

ASSIO, or ASITIO, a city of the pope’s 
territories in Italy, situated about sixteen 
miles south-east of Perugia, in $15^\circ$ $33'$ 
east longitude, and $43^\circ$ north latitude.

ASKER, a name used in some parts of the 
kingdom, for the water-nwet. See NEWT.

ASKER-MORKEM, a city of asiatic 
Turkey, situated in $55^\circ$, east longitude, 
and $34^\circ$ north latitude.

ASKING IN THE CHURCH. See the article 
MARRIAGE.

ASLANI, in commerce, a silver coin, 
worth from 115 to 120 aperus. See the 
article ASPER.

ASMER, a province of India, on this 
side the Ganges.

ASOLA, a city of Lombardy in Italy, be-
longing to the Venetians, situated in east 
longitude $10^\circ$. north latitude $45^\circ$ $14'$.

ASOL0, a town of Italy, in the Trevian, 
situated in east longitude $12^\circ$, north lati-
tude $45^\circ$ $49'$.

ASOPH, a city of coban Tartary, situat-
ed on the south shore of the river Don, 

Vol. I. near its mouth, in $44^\circ$ east longitude, 
and $47^\circ$ $15'$ north latitude.

ASPR, apis, in zoology, a species of anguis. 
See ANGUI.

ASPALATH, apalathum, in the materia 
medica, called also rose-wood, is a wood or 
rather root, that comes from the Ca-
naries, of a yellowish-colour, and is hard 
woody substance, full of knots. It was 
accounted by the antients an affringent, 
but now is almost quite rejected, as an 
internal medicine. An oil drawn from 
it is of an admirable scent, and very 
comfortable to the head, where perfumes 
are not offensive. It is chiefly ufed in 
feenting pomatums and liniments.

ASPARAGUS, in botany, a genus of 
plants, the flower of which is rofaceous, 
and its fruit a roundish berry, containing 
two smooth seeds of the fame shape. 

The root of this plant is defervedly reck-
oned one of the five openers, and is an 
ingredient in all compositions, intended 
to cleanse the vitera, efpecially where 
their obtructions threaten the jaundice 
and dropy. It is likewise ufed in 
many diforders of the breaf, as operat-
ing by urine is of service in molt fuch 
cales.

ASPECT, in aeronomy, denotes the situa-
tion of the planets and stars, with respect 

to each other; whereof we find mention 
of five kinds: 1. Sextile aspect is when 
the planets or stars are $60^\circ$ distant, 
and marked thus $\ast$. 2. The quartile, or 

quadrate, when they are $90^\circ$ distant, 
marked $\bigcirc$. 3. Trine when $120^\circ$. di-

tant marked $\triangle$. 4. Opposition when 
$180^\circ$ distant, marked $\square$. And, 5. Con-
junction, when both in the fame degree, 
marked $\bigcirc$.

Kepler, who added eight new ones, de-
fines aspect to be the angle formed by 
the rays of two stars meeting on the 
earth, whereby their good or bad influ-
ence is measured; for it ought to be ob-
served, that these aspects being firft intro-
duced by astrologers, were diftinguished 
between benign, malignant, and indifferent; 
the quartile and opposition being ac-
counted malign, the trine and sextile 
benign or friendly, and the conjunction 
different.

Double Aspect, in painting, is ufed 
where a fingle figure is fo contrived, as to re-
prent two or more different objects, ei-
ther by changing the position of the eye, 
or by means of angular glaffes. See 
MIRROR and ANAMORPHOSIS.

D d
ASPEN-TREE, in botany, the poplar with trembling leaves. See Poplar.

ASPER, in grammar, an accent peculiar to the Greek language, marked thus (') and importing that the letters over which it is placed, ought to be strongly aspirated, or pronounced as if an $b$ were joined with them.

ASPER, in ichthyology, the name by which some call a species of perch. See the article Perch.

ASPER, or ASPÉ, in commerce, a Turkish coin, three of which make a medal, and worth something more than our half-penny.

ASPERA ARTERIA, in anatomy, the name with the wind-pipe, or trachea. See Trachea and Artery.

ASPERGILLUS, in botany, the name by which Micheli calls the byflus of other botanists. See Byssus.

ASPERIFOLIATE, or ASPERIFOLIous, among botanists, such plants as are rough leaved, having their leaves placed alternately on their flanks, and a monopetalous flower divided into five parts. Of this class are bugloss, bronze, &c. See the article Bugloss.

ASPERITY, the inequality of the surface of any body, which hinders the hand from passing over it freely.

According to the testimony of blind persons, we have reason to believe that every colour hath its particular degree of asperity.

ASPERJULA, or ASPERULA, in botany. See the article Asperula.

ASPERISON, the act of sprinkling.

ASPERAGO, in botany, a genus of pentandrous plants, the flower of which consists of one rotated petal, divided into several segments at the limb; and its calyx, which is divided like the flower-petal, contains the seeds, which are four in number, and of a roundish, compressed figure. See plate XXI. fig. 5.

ASPERULA, woodruff, in botany, a genus of tetrandrous plants, the flower of which consists of one petal, divided into four segments at the limb; and its fruit is composed of two roundish, dry berries adhering together, in each of which is a single seed of the same roundish shape.

The leaves and roots of this plant are esteemed aperient and diuretic, and consequently prescribed in the jaundice, and obstructions of the vificera.

ASPHALTITES, a term applied by some anatomists to the fifth vertebra of the joints. See the article Vertebrae.

ASPHALTUM, in natural history, a solid dry opaque inflammable substance, found in Egypt, about the Dead sea, and in many places of Europe, in detached masses of no regular structure, breaking easily in any direction, very light, fusible, and after burning some time with a greenish white flame, leaving a residuum of white ashes. Dr. Hill enumerates three species of it, the first being the bitumen judaicum, which is of a diffusive quality, promotes the menstrual discharge, and enters as an ingredient into the Venice treacle. See the article Bitumen.

ASPHODEL, aphodelus, in botany, a genus of hexandrous plants, the flower of which is lilaceous, consisting of a single petal divided into six segments; and its fruit is a globose-trilocular capsule, containing a number of triangular seeds, gibbous on one side. See plate XXIII. fig. 1.

The roots of aphodel are diuretic, and said to promote the menstres; their ashes too, if rubbed on the affected part in an ovoid pecies, cause new hair to grow.

African Asphodel. See Phalangium.

Lilly-Asphodel. See Lilio-Asphodelus.

ASPHURELATA, in natural history, are semi-metallic fossils, fusible by fire, and not malleable in their pure state, being in their native state intimately mixed with sulphur and other adventitious matter, and reduced to what are called ores.

Of this series of fossils, there are only five bodies, each of which makes a distinct genus, and these bodies are antimony, bismuth, cobalt, zinc, and hydrargyrum, or quicksilver. See the article Antimony.

ASPIC, or Oil of Aspic. See Oil.

ASPIRATE, in grammar, denotes words marked with the spiritus asper. See the article Asper.

ASPIRATION, aspiratio, among grammarians, is used to denote the pronouncing a syllable with some vehemence; as these words beginning with the letter $H$, hear, beat, which are pronounced more softly without the $H$, as ear, eat.

ASpis, the ASP, in zoology. See the article Asp.

ASPLENIUM, milt-waste, or spleenwort, in botany, a genus of cryptogamous plants, the fructification of which is arranged in clusters, and disposed in form of streak lines, under the disk of the leaf. See plate XXIII. fig. 2.

This genus comprehends the asplenium, lingua cervina, and trichomanes of different botanists.
A S S

ASSOLATHUS, a name by which some call the acacia. See ACACIA.

ASPRE, or ASPER, in commerce. See the article ASPER.

ASPREDO, in ichthyology, a species of perch. See the article PEARCH.

ASPRIS, in botany, a name given to the holm-oak.

ASS, affinis, in zoology, a quadraped of the horse-kind, with a long head, long ears, a round body covered with a short and coarse fur, of a pale dun-colour, with a streak of black running down its back, and across the shoulders, and a tail not hairy all the way, as in a horse, but only at the end.

The ass is wild in many warm countries, and particularly in Africa. See ZEBRA.

ASSADULCIS AND POETIDA. See ASA.

ASSAI, in music, signifies much, and according to others, that the motion of the piece be kept in a middle degree of quickness or slowness: As affall allegro, affall presto. See ALLEGRO and Presto.

ASSAILANT, one that assaulsts another. See the article ASSAULT.

ASSARABACCA, or ASARABACCA. See the article ASARABACCA.

ASSARON, or OMER, a measure of capacity, in use among the Hebrews, containing five pints. It was the measure of manna which God appointed for every Israelite.

ASSART, asurtum, in law, an offence committed in a forest, by pulling up the trees by the roots. This is a greater trepass than waste.

A person, however, may sue out a licence to affart ground in a forest; that is, to clear it, and make it arable: and from hence lands are called assarted, and formerly assart rents were paid to the crown for such lands.

ASSASSIN, a person who kills another by attacking him at some disadvantage. It is also meant of one who hires himself to murder a person to whom he is a stranger, in order to revenge the quarrel of another.

ASSATION, a term used in pharmacy, for a peculiar kind of decoction of plants in their own juice.

ASSAULT, in law, a violent injury offered to a man's person, being of a higher nature than battery; for it may be committed by offering a blow, or a terrifying speech. In a fight a person threatens to beat another, or lies in wait to do it, if the other is hindered in his business, and receives loss, it will be an assault, for which action may be brought, and damages recovered. Not only striking, but thrusting, pulling, casting stones, or throwing drink in the face of any person, are deemed assaults.

In all which cases, a man may plead in his justification, the defence of his person or goods, father, mother, wife, master, &c.

ASSAULT, in the military art, a furious effort made to carry a fortified post, camp, or fortress, wherein the assailants do not fence themselves by any works: while the assault continues, the batteries cease, for fear of killing their own men.

ASSAY, ESSAY, or Say, in metallurgy, the trial of the goodness and purity of metals, and metalline substances. Hence ASSAYING, is the art of finding how much pure metal is contained in every ore, or the proportion of the several ingredients of any mixed metal.

The former of these, or the assaying the ores of metals, will be delivered under their several articles GOLD, SILVER, LEAD, &c.

And as to the latter, it is performed either by coppelling by means of touch-needles, or by acid menfrua. See the article TOUCH-NEEDLES.

Assaying of gold, by coppelling, is thus performed: to the gold to be assayed, add a double quantity of fine silver; then having heated a coppel furnished with a muffle, in a reverberatory fire, let a ball of lead, of a weight proportionable to the quantity of gold, to be assayed, be melted in it; in this, the mixture of gold and silver is to fuse till it appear of an equal colour, and has fixed itself in a little lump, at the bottom of the coppel. This lump, after cooling in the furnace itself, is to be taken out, and the process again repeated, till the lead be conformed; after which, let the remaining mass be weighed, and its weight compared with that of the original ingredients, will shew the purity or impurity of the gold.

Another still more accurate method of assaying gold, is by means of acid menfrua, thus: Let a mixed mass of gold and silver be melted, with three or four times that weight of pure silver. Let it, when cold, be beaten into a thin plate, and put into a glass of proof aqua fortis in warm sand: then the silver will soon be dissolved, and the gold will precipitate to the bottom, in a black powder; by decanting this solution of silver with proper care, this last operation may be repeated, by adding a little fresh aquafortis to the gold, and letting it in a
heat somewhat stronger than before, in order to dissolve any remains of silver in the gold powder; then find the proportion as in the first process. The method of assaying silver is the same, only that lead is put into the crucible, proportioned to the quantity and quality of the silver to be assayed; and in this manner also are the assays of any mixture, of the nobler with the ignobler metals, made.

Assaying of weights and measures, the examining the common weights and measures by the clerk of the market.

Assaying, in music, a flourishing before one begins to play; or the running divisions, to lead one into the piece before us.

Assay-Master, an officer appointed by certain corporations, to make a just assay of all gold and silver brought to him, and to make a true report thereof.

Assemblage, the uniting, or joining of things together; or the things themselves so united, or joined. It is also used in a more general sense, for a collection of various things disposed and diversify'd, so that the whole produces some agreeable effect.

Assembly, the meeting of several persons, in the same place, upon the same design.

Assembly, in the beau monde, an appointed meeting of fashionable persons of both sexes, for the sake of play, galantry, conversation, &c.

Assembly, in the military art, the second beating of a drum before a march; at which the soldiers strike their tents, roll them up, and stand to arms.

Assemblies, of the clergy are called convocations, synods, councils; the annual meeting of the church of Scotland is called a general assembly.

Assemblies of the Roman people were called comitia.

Asensu regio. See Regio assensu.

Dower ex assensu patris. See Dower.

Assent, assentus, in a general sense, an agreement to something proposed, or affirmed.

Assent is either explicit, by open declaration; or implicit, and inferred from certain circumstances. As to the degrees of assent due to any proposition, it ought no doubt to be proportioned to the evidence offered for it. See Evidence, Probability, &c.

Royal Assent, the approbation given by the king to a bill in parliament, after which it becomes a law. See Bill.

Asserac, the name by which the Turks call opium. See Opium.

Assertion, asertio, in the language of the schools, a proposition advanced by the assertor, who avows the truth of it, and is ready to defend it.

Assessor, an inferior officer of justice, appointed chiefly to assist the ordinary judge with his opinion and advice.

Assessor is also one who assifies, or settles taxes, and other public dues.

Asservation, a positive and vehement affirmation of something.

Aassideans, or Hassideans, in Jewish antiquity. See Hassideans.

Assiento, a Spanish word, signifying a farm, in commerce, is used for a bargain between the king of Spain and other powers, for importing negroes into the Spanish dominions in America, and particularly to Buenos Ayres. The first assiento was made by the French Guinea company; and by the treaty of Utrecht, transferred to the English, who were to furnish four thousand eight hundred negroes annually.

Assign, in common law, a person to whom a thing is assigned or made over.

Assignee, in law, a person appointed by another to do an act, transfer some business, or enjoy a particular commodity.

Assignees may be by deed or by law: by deed, where the lessor of a farm assigns the same to another; by law, where the law makes an assignee, without any appointment of the person intitled, as an executor is assignee in law to the testator, and an administrator to an intestate. But when there is assignee by deed, the assignee in law is not allowed.

Assigning, in a general sense, is the setting over a right to another; and in a special sense is used to set forth and point at, as to assign an error, to assign false judgment, to assign waifs, in which cases it must be shewn wherein the error is committed, where and how the judgment is unjust, and where the waste is committed.

Assignment, the transferring the interest one has in a lease, or other thing, to another person. Assignments may be made of lands in fee for life or years, of an annuity, rent-charge, judgment, statute, &c.

Assimilation, in physics, called also motion of multiplication and motion of simple generation, is that motion by which bodies convert other bodies related to them,
them, or at least such as are prepared to be converted, into their own substance and nature. Thus flame multiplies itself upon oily bodies, and generates new flame; air upon water, and produces new air; and all the parts, as well similar as organic, in vegetables and animals, first attract with some election or choice, nearly the same common, or not very different juices for aliment, and afterwards assimilate, or convert them into their own nature.

**ASSIS**, in natural history, a term used to denote opium, or the powder of hemp, which being formed into boluses, is swallowed by the Egyptians, who are thereby intoxicated.

**ASSISA**, in law, the fame with affise. See the article **ASSISE**.

**ASSISA CADERE** signifies to be non-suited.

**ASSISA NOCUMENTI**, an assise of nuance. **Assis cadit in juratam** signifies the thing in controversy to be so doubtful, that it must be tried by a jury. **Assis continua, a writ issued to the justices of assise, for the continuance of a cause, where certain records alleged cannot be produced by the party. Assis propaganda, a writ directed to the justices of assise, to stay proceedings, on account of the party's being employed in the king's business. **Assis panis & cernuiae**, the power of adjudging the weight and measure of bread and beer. **Assis judicium**, the judgment of the court given against the plaintiff or defendant, for default.

**ASSISE**, in old law-books, is defined to be an assembly of knights and other substantial men, with the justice, in a certain place, and at a certain time: but the word, in its present acceptation, is used for the court, place, or time, when and where the writs and proceedings, whether civil or criminal, are decided by judges and jury. In this signification, assise is either general, when judges make their respective circuits, with commission to take all assise; or special, where a commission is granted to particular persons for taking an assise upon one or two defendants only. By Magna Charta, justices shall be sent through every county, once a year, who, with the knights of the several shires, shall take assise of novel defefin: and as to the general assise, all the counties of England are divided into six circuits, and two judges are assigned by the king's commission to every circuit, who now hold the assises twice a year, in every county, except Middlesex, where the courts of record sit, and the counties palatine. Their judges have five several commissions: 1. Of oyer and terminer, by which they are empowered to try treasons, felonies, &c. 2. Of goal-delivery, which empowers them to try every prisoner in gaol, for whatever offence he be committed. 3. Of assise, which gives them power to do right upon writs brought by persons wrongfully thrust out of their lands and possessions. 4. Of nisi prius, by which civil causes come to issue in the courts above, are tried in the vacation by a jury of twelve men, in the county where the cause of action arises. 5. A commission of the peace in every county of the circuit: and all justices of peace of the county and sheriffs are to attend upon the judges, otherwise they shall be fined.

Assise is used in several other significations; as, 1. for a jury, where assises of novel defefin are tried, and the pannels of assise shall be arraigned. See the next article. 2. For a writ for recovery of the possession of things immovable, of which a person and his ancestors have been defefied. 3. For an ordinance or statute, as the assise of the forest, a statute concerning orders to be observed in the king's forest. 4. For a quantity of wheat, bread, &c. prescribed by a statute, as we say, when wheat is of such a price, bread shall be of such an assise.

**Assise of novel defefin** is a writ that lies where a tenant in fee simple, fee tail, or for term of life, is put out and defefied of his lands, tenements, rents, common of pasture, common way, &c. A writ of assise may sometimes be had by a person, when he cannot have trespas vi et armis; as where a lord enters on lands, and disfrains his tenant so often, when nothing is due, that the tenant is disturbed in managing his lands; in such case he may have assise de souuent fies diffres; but he cannot bring trespas against his lord.

**Assise of mort d'ancestoris** is a writ which lies where a person's father, mother, brother, &c. died seised of lands and tenements in fee, and, after either of their deaths, a stranger abateth. See the article **COSINAGE**.

**Assise of darrein presentment.** See the article **QUARE IMPEDIT**.

**Assise of utrum** lieth for a parson against a layman, or a layman against a parson, for lands or tenements doubtful whether they be lay-fee or free-alls.

This,
ASS [ 206 ]

This, and the three preceding writs of affize, in respect to the grand assize, are called petit assizes; for as the grand assize serves for the right of property, so the petit assize serves to settle the right of petition.

Rent of Assize, and justice of Assize. See the articles Rent and Justice.

Assiser, or Assizer of weights and measures, an officer, who has the oversight of those things. See the article Clerk of the market.

Assises, or Non ponendo in Assises. See the article Non ponendo.

Assisor, the name with assessor. See the article Assessor.

Assistance, the name with affessor. See the article Aid.

Assistant, a person substituted to attend a principal officer, for the more easy and regular discharge of his function.

Assistant, in Roman Catholic countries, a name given to a sort of counsellors added to the superiors of monasteries, &c.

Assistants are also those appointed to assist at the execution of a criminal.

Assitishment, or afflyment. See the article Assythment.

Assiust Lapis. See Lapis Assius.

Assize, or Assise. See Assize.

Associate, a partner, adjutant, fellow, or companion. See the next article.

Association, the act of associating or constituting a company, society, or partnership, wherein two or more persons unite for their mutual interest, or the joint carrying on an affair, &c.

Association of ideas is where two or more ideas constantly and immediately follow one another, so that the one shall almost infallibly produce the other, whether there be any natural relation between them, or not.

Association, in law, is a writ or patent sent by the king, either of his own motion, or at the suit of the plaintiff, to the judges of assise, to have others associated to them, to take the assise. Upon this patent of association, the king lends his writ to the justices of the assise, commanding them to admit those that are so sent.

Assilege, to absolve, free, or deliver one from excommunication.

Assonance, in rhetoric or poetry, is where the words of a phrase or verse have nearly the same sound, or termination, but make no proper rhyme; these are usually accounted vicious in English, thoughth Romans sometimes used them with elegance.

Assonant rhymes, a resemblance of sound, not unfrequently used by Spanish poets, instead of true rhymes; as ligiera and cubierta.

Assos, a sea-port town of Nattolia, situated about twelve miles south-east of Troas, in $25° 30'$ east longitude, and $38° 30'$ north latitude.

Assumpst, a voluntary or verbal promise, whereby a person assumes, or takes upon him to perform or pay any thing to another. When any person becomes legally indebted to another for goods sold, the law implies a promise that he will pay his debt; and if he do not pay it, the writ indebitatus assumptus lies against him; and will lie for goods sold and delivered to a stranger, or third person, at the request of the defendant: but the price agreed on must be proved, otherwise that action does not lie.

Assumption, a festival in the Roman church, in honour of the miraculous ascent of the Virgin Mary, body and soul, into heaven: the Greek church, who also observe this festival, celebrate it on the fifteenth of August, with great ceremonies.

Assumption, in logic, is the minor or second proposition in a categorical syllogism.

Assumption is also used for a consequence drawn from the propositions whereof an argument is composed. See the article Consequence.

Assumption, in geography, a city of South America, situated near the mouth of the river Plata, and on the opposite shore to Buenos Ayres, in $60°$ west longitude, and $34°$ south latitude.

Assumptive arms, in heraldry, are such as a person has a right to assume, with the approbation of his sovereign, and of the heralds: thus, if a person, who has no right by blood, and has no coat of arms, shall captivate, in any lawful war, any gentleman, nobleman, or prince, he is, in that case entitled to bear the shield of that prisoner, and enjoy it to him and his heirs for ever.

Assurance, in logic. See the articles Certainty, Evidence, and Demonstration.

Assurance, or Insurance, in commerce, see Insurance.

Policy of Assurance, a sort of contract, wherein one or more persons are become bound to make good any damages which may befal a ship, house, &c. by means of sea, fire, &c. or the like damages. See the article Policy.
There are several offices of assurance from fire in London, as the Royal-exchange assurance, the Sun fire-office, the Hand-in-hand fire-office, the London assurance, &c.

There are also offices of assurance for life, in virtue whereof, when the person assured dies, a sum of money, as was agreed upon, becomes due to the person to whom the policy of assurance was granted.

ASSUROR, a merchant, or other person, who makes out a policy of assurance, and thereby insures a ship, house, or the like.

The assuror is not liable for what damages may arise from the negligence or other faults of the masters or mariners; or even from any defect in the things assured.

ASSURRITANI, in church-history, christian heretics, a branch of the donatists, who held, that the son was inferior to the father, and the holy ghost to the son: they rebaptized those who embraced their faith; and asserted that good men only were within the pale of the church.

ASSYRIA, an ancient empire of Asia, comprehending the modern provinces of Curdiçtan, Diarbec, and Irac-arabie.

ASSYTHMENT, in the law of Scotland, the same with what in the English law is called man-bote. See Manualote.

ASTA, a city of the kingdom of Viçapour, in India, between Viçapour and Daboul: and also the name of a river of Spain, in the kingdom of Leon.

ASTACUS, in zoology, a name used by several authors for the lobster and cray-fish. See the article Cancer.

ASTABAT, a city of Armenia, in Asia, in 47° east lon. and 39° north lat.

ASTATI, a sect of christian heretics, who being the followers of one Sergius, revived the erroneous doctrines of the manichees. They were remarkable for their inconsistent principles: for their doctrines, see the article Manichees.

ASTER, star-wort, in botany, a genus of the jyngenea-polygama class of plants, with a radiated flower, the disk of which is composed of floccules, and its border of ficiofocules; the receptacle is plane and naked, and the seeds are of an oblong figure, oval at top, and winged with down. See plate XXIII. fig. 3.

The seeds of star-wort are accounted deleterious, its flowers cardiac, its leaves vulnerary, and the roots sudori- fic and alexipharmic, and consequently good in disorders of the breast and lungs.

ASTER SAMIUS, Samian earth. See the article Samian earth.

ASTER THALASIA, the star-fish. See the article Stella marina.

ASTERABAT, a city of Persia, capital of a province of the same name, situated on the southern shore of the caipian sea, in 54° east long. and 37° 30' north lat.

ASTERIA, in natural history, a beautiful pellucid gem of variable colours, as viewed in different lights; called also oculus catis, or cat's-eye.

The variable colours, which are a pale brown and white, seem to be lodged deep in the stone, and shift about as that is moved. It is nearly allied to the opals, from which, however, it is distinguished by its colour and superior hardness.

ASTERIA is also the name of an extraneous fossil, called in English the star-fish. See the article Star-stone.

ASTERIAS, in zoology, the star-fish. See the article Star-fish.

ASTERISCUS, in botany, a star-fish. See the article Star-fish.

ASTERISCUS, in botany, a name used by different authors for two distinct genera of plants, the filphium and baph-thalum.

ASTERISK, a mark, in form of a star, *, placed over any word or sentence, to render it more conspicuous, or to refer the reader to the margin, or elsewhere, for a quotation, explanation, or the like.

ASTERISM, in astronomy, the same with constellation. See Constellation.

ASTEROCEPHALUS, in botany, the name by which Vaillant calls the fcurioja, or scabious. See the article Scabiosa.

ASTEROIDES, in botany, a name given to the baph-thalum, or ox-eye.

ASTEROPHYTON, in natural history, a kind of star-fish. See Stella marina.

ASTEROPODIUM, a kind of extraneous fossil, of the same substance with the asteriea, or star-fishes, to which they serve as a base. See the article Star-stone.

ASTEROPTERUS, in botany, a name given by Vaillant to the aster, or star-wort. See the article Aster.

ASTHMA, in medicine, a painful, difficult, and laborious respiration, occasioned by intolerable straitness of the lungs, which, as it disturbs the free circulation of the blood through the lungs, endangers a suffocation.

This disorder is attended with violent motions of the diaphragm, abdominal and intercostal muscles, to the very scapula and pinna of the nostrils. It is usually divided into pneumonic and convulsive.
vulvive; the former of which is generally occasioned by abounding in groin, distemper, or purulent humours, collected in the cavities of the lungs, which open up the passages of the air, and compose the bronchia. That kind called the convulsive asthma is occasioned by an irregular motion of the animal spirits, either by reason of an obstruction, or some other obstacle. The asthma is either continual, or intermittent and periodic, and returns commonly when a sober regimen is not observed. This disorder proves most violent while the patient is in bed, and in a prone posture, as in that case the contents of the lower belly bearing against the diaphragm, lessen the capacity of the breath, and leave the lungs less room to play. The cure of the true or pneumonic asthma is by bleeding, after which emetics may be used; and if the paroxysm returns, epiphatics, with glysters instead of purge. Infusions from s. spum. or the juices thereof, are accounted excellent. Ozymel of squills and simple cinnamon-water, or garlic, are good in case of viçid and tough humours, where anodynes are very hurtful.

For the convulsive kind, the cure is attempted by antiepileptics, antihysterics, antifapmodics, opiates, &c.

ASTI, a city of Piedmont, in Italy, situated upon the river Panaro, about thirty miles east of Turin, in 8° 15' east long., and 44° 40' north latitude.

ASTORCHA, in botany, a name used by some for several species of floechas. See the article STOECHAS.

ASTORGA, a city of the province of Leon, in Spain, situated on the river Inero, about thirty miles south-west of Leon, in 5° 20' west long., and 44° 20' north latitude.

ASTOUR, in commerce, a term in the East Indies, for what in England we call discount. See the article DISCOUNT.

ASTREA, in astronomy, the fame with virgo. See the article VIRGO.

ASTRACAN, a city of Asiatic Russia, and capital of a kingdom of the same name. It is situated on the eastern shore of the river Wolga, about eighty miles north of the Caspian sea, in 52° east longitude, and 47° north latitude.

ASTRAGAL, in architecture, a little round moulding, in form of a ring, serving as an ornament at the tops and bottoms of columns. See COLUMN.

Sometimes the astragal serves to separate the facade of the architrave; in which case it is wrought chaplet-wise, with beads and berries. It is also used both above and below the lintel, adjoining immediately to the dyes, or square of the pedestal.

ASTRAL, in anatomy. See the article ASTRALUS.

ASTRALUS, in gunnery, a round moulding incomprising a cannon, about half a foot from its mouth.

ASTRALOIDES, in botany, a genus of the diadelphio-decandria class of plants, with a papilionaceous flower, and an oblong unilocular-podded fruit, containing several kidney-like seeds.

ASTRALUS, milk-vetch, in botany, a genus of the diadelphio-decandria class of plants, with a papilionaceous flower, and a bilocular-podded fruit, containing kidney-like seeds.

Astragalus is said to be diuretic, and good for increasing the milk of wet nurces.

ASTRALUS, astragalus, in anatomy, called also the talus, is the superior and first bone of the foot, according to its natural situation and connection with the leg, being articulated with the tibia and fibula, and with the calcaneum; having its head formed for the articulation with the os naviculare.

ASTRAL, something belonging to, or connected with the stars: thus, astral year is the same with sidereal year.

ASTRANTIA, black master-wort, in botany, a genus of umbelliferous plants, belonging to the pentandria-digynia class of Linnaeus, the flower of which is roaceous, and collected into a sort of head; and its fruit is oval, obtuse, corronated, and frorated. See plate XXIII. fig. 5.

ASTRAIUS HERES, in law, is where an ancestor, by conveyance, has settled his heir apparent and family in a house, in his life-time.

ASTRICTION, among physicians, denotes the operation of astringent medicines. See the next article.

ASTRINGENS, astringentia, in pharmacy, medicines of the corroborative class, which, acting as a stimulus, crisp and corrugate the fibres into a more compact tone; corroborate the solids, which are weakened, and consolidate such as are corroded and wounded. Among the medicines of this class may be reckoned the herbs bunias, woad, cud-weed, rupture-wort, mint, yarrow, pimpinel-
Fig. 1. Asphodel.

Fig. 2. Asplenium.

Fig. 3. Aster, Star-Wort.

Fig. 4. Astrolabe.

Fig. 5. Astrantia.
ASTROGNOSIA, the science of the fixed stars, or the knowledge of their names, constellations, magnitudes, &c.

ASTROTEIS, or STAR-STONE, in natural history, is so called on account of its resemblance to a star. It is controverted, among naturalists, whether they are parts of a petrifed marine animal, or, as is more probable, a species of corals buried in the earth. The corals forming these stars are sometimes round, sometimes angular, and their columns are sometimes separated, and sometimes the fraste run into one another.

ASTROTEIS, in botany, a name by which some call the flattered madrepora. See the article Madrepora.

ASTROLABE, the name for a stereographic projection of the sphere, either upon the plane of the equator, the eye being suppos'd to be in the pole of the world; or upon the plane of the meridian, when the eye is suppos'd in the point of intersection of the equinoctial and horizon.

ASTROLABE is also an instrument for taking the altitude of the sun or stars at sea, being a large brass ring, A C B D (plate XXIII, fig. 4.) the limb of which, or a convenient part thereof A C, is divided into degrees and minutes, with a moveable index FG, which turns upon the center, and turns two lights: at the zenith is a ring A, to hang it by in time of observation, when you need only turn the index to the sun, that the rays may pass freely through both lights, and the edge of the index cuts the altitude upon the divided limb. This instrument, though not much in use now, if well made, and of great weight, that it may hang the steadier, is as good as most instruments that are used at sea for taking altitudes, especially between the tropics, when the sun comes near the zenith, and in calm weather.

ASTROLABE, among the antients, was the same as our armillary sphere. See the article Armillary.

ASTROLOGICAL, something belonging to astrology.

ASTROLOGY, a conjectural science, which teaches to judge of the effects and influences of the stars, and to foreshadow future events by the situation and different aspects of the heavenly bodies. It may be divided into two branches, natural and judicial; the former being the prediction of natural effects, as the changes of weather, winds, storms, hurricanes, thunder, floods, earthquakes, &c. and the latter that which pretends to foreshadow moral events, or such as have a dependence on the freedom of the will.

Natural astrology belongs to physiology, or natural philosophy, and is only to be deduced a posteriori from phenomena and observations. To this part Mr. Goad chiefly keeps, in his two books of astrology, in which he pretends that inundations and an infinite number of phenomena of that kind may be explained from the contemplation of the stars. For this astrology also, Mr. Boyle has a just apology in his history of the air.

ASTRONOMICAL, in a general sense, something relating to astrology: thus we say astronomical calendar, characters, hours, &c. See Calendar, Hour, &c.

ASTRONOMALS, a name sometimes given to sexagesimal fractions. See the article Sexagesimal.

ASTRONOMY, that science which treats of the heavenly bodies, explaining the motions, times, and causes of the motions, distances, magnitudes, gravities, light, &c. of the sun, moon, and stars; the nature and causes of the eclipses of the sun and moon, the conjunction and opposition of the planets, and any other of their mutual aspects, with the time when any of them did or will happen. As the heavens may be considered either as they appear to the naked eye, or as they are discovered by the understanding: hence astronomy may be divided into two branches, spherical and theoretical. Spherical astronomy is the consideration of the universe as it offers itself to our sight: whilst under that head come all the appearances of the heavens, such as we perceive them, without any enquiry into the nature, the theory, or the truth of those appearances.
ASTONOMY, a name by which some call the goshawk.

ASTRONOMIA, in grecian antiquity, is the consideration of the true structure of the universe, accounting for the various phenomena of the heavenly bodies; the several parts of which may be seen under the articles System, Sun, Star, Planet, Earth, Moon, Satellite, and Comet. With respect to its different states, astronomy is also divided into ancient and modern; ancient astronomy is such as the art founded under Ptolemy and his followers, who supposed the earth quiescent in the center, and that all the heavenly bodies performed their revolutions round it. See the article Ptolemaic System.

The modern or new astronomy is that which has been cultivated since the time of Copernicus, who revived Pythagoras and Philolaus's opinion of the motion of the earth, and laid the foundation of the true solar system. See Copernican System. Among the most celebrated astronomical writers we may reckon Ptolemy, who has preserved the observations of the antients, Albategnius, who has given the observations of the Saracens, Sacro Bosco, Copernicus, Tycho Brahe, Clavius, Kepler, Galileo, Hevelius, Dr. Hook, Sir Jonas Moor, Mr. Huygens, Tacquet, Flamstead, De la Hire, Gregory, Whiston, Dr. Halley, Keill, the two Cassinii, father and son, and the immortal Sir Isaac Newton, to whom we are indebted for astronomical discoveries in this science.

In painting, astronomy is represented like a woman, with a silver crecent on her forehead, an azure mantle and a watchet scarf, be sprinkled with golden stars: or it may be represented by a lady in a flarlt habit, looking towards heaven, and holding an asterisk in her right hand, and a table of astronomical figures in her left.

ASTROP-WELLS, in Northamptonshire, were recommended eighty years ago by the physicians Willis and Clever, for the cure of the scurvy, asthma, &c.

ASTROPECTEN, a species of star-fish. See the article Stella marina.

ASTROSCOPE, an instrument composed of two cones, having the confellations delineated on their surfaces, whereby the stars may be easily known.

ASTRUM, with chemists, signifies that virtue which accrues to things from their preparation; and among antient physicians, certain medicines in the figure of round cakes impressed with asterisks.

ASTRUM, in astronomy. See the article Constellation.

ASTURIA, a maritime province of Spain, lying along the bay of Biscay, with Galicia on the west, and Biscay on the east. It gives the title of prince to the eldest son of Spain.

ASTURIS, in ornithology, a name by which some call the goshawk.

ASTYNYCHOMA, in grecian antiquity, is the consideration of the ediles of the Romans; they were ten in number. See the article Edile.

ASYLUM, a sanctuary, or place of refuge, where criminals shelter themselves from the hands of justice. It is pretended that the first asylum was built at Athens by the Heracles, as a refuge for those who fled from the oppression of their fathers. Be that as it will, it is certain that the aylies of altars and temples were very antient, and likewise those of tombs, statues, and other monuments of considerable personages: thus the temple of Diana at Ephesus was a refuge for debtors, the tomb of Theseus for slaves; and Romulus, when he built Rome, left a certain space as an asylum to all persons, whether freemen or slaves, with a political view of drawing together great numbers from all quarters to people his new city. The Jews had their aylies, the most remarkable of which were the six cities of refuge, the temple, and the altar of burnt offerings. This privilege began likewise to be enjoyed by the Christian churches in the reign of Constantine, at which time the altar only and the inward fabric of the church were a place of refuge; but afterwards the whole precincts, may even the graves of the dead, crosses, schools, &c. were comprehended in that privilege. As aylies were not intended originally to patronize wickedness, but as a refuge for the innocent, the injured and the oppressed, several crimes were excepted by law, for which the church might grant no protection; as, 1. Protection was denied to public debtors. 2. To Jews who pretended to turn Christians, in order to avoid suffering legal punishment for their crimes. 3. To heretics and apostates. 4. To slaves who fled from their masters. And, 5. To robbers, murderers, conspirators, ravishers, &c.

Modern sanctuaries are a great abuse of those antient aylies of the Christian church, in giving protection to almost all sorts of criminals, and of enervating the force of civil laws. The canon law of Gratian and the decretals of the popes, grant protection to almost all criminals; and Polydore Virgil centures the English, who did
ASYMPTOTIC SPACE, the name with HYPERBOLIC.

ASYMPHOTIC, a line which continually approaches nearer to another, but, though continued infinitely, will never meet with it: of these there are many kinds. In strictness, however, the term asymptotes is appropriated to curves and curve, becaufc the perpendicular is shorter than the asymptote cut the curve, and the points E and F, and the points E and F

Asymptotes of the hyperbola are thus described. If CP (ibid. n° 2.) be a diameter of the hyperbola RAS, and CD be the semiconjugate of it; and if the line FE be a tangent in the point A, and AE = FA = CD; then, if the lines CG, CG, be drawn from the center C, through the points E and F, their lines CG, CG, will be the asymptotes of the hyperbola RAS. And if any right line LM be drawn parallel to the tangent FE, so as to cut the curve and the asymptotes, then will the parts LL, MM, be equal, and LL x MM = AE^2; and moreover, any annulus or ring made by MM or LL, when the whole figure revolves about the diameter AP, will always be equal to a circle, whose diameter is AE.

Again, if one of the asymptotes be continued out to T (ibid. n°. 3.) and the line TSR be drawn parallel to the diameter CG, then TR x SR = AC^2, and if the line PM be any where drawn parallel to the asymptote CS, then CP x PM will be always of the same magnitude, that is, always a standing quantity. The investigation of right-lined asymptotes may be found for curves of any order, without having recourse to ferries, by means of the general equation of that order, thus: Let the equation be \( A y^2 + B x y + C x^2 + D y + E x + F = 0 \). Suppose \( y = ax + b + c x^{-1} \), &c. then will \( A a^2 + B a + C = 0 \); and by extracting the roots of this last equation, we shall have \( a \); and \( b \) will be \( -\frac{D a + E}{2 a A + B} \) and \( c = \frac{A a + B}{2 a A + B} \); and if the equation be \( A y^3 + B x y^2 + C x^2 y + D x^3 + E y^2 + F x y + G x^2 + H y + K x + L = 0 \), the roots of this equation \( A a^3 + B a^2 + C a + D = 0 \), will give \( a_1 \) and \( b \) will be \( \frac{A a^2 + B a + C}{3 A a^2 + 2 B a + C} \)

where \( a \) is the inclination of the asymptote to the absciss; \( b \) is the distance between the beginning of the absciss and the point in which the asymptote cuts the same line. And, \( c \) shows on which side of the asymptotes the legs of the curve lie.

Concerning asymptotes and asymptotic curves it may be remarked, 1. That although such curves as have asymptotes, are of the number of those which do not include a space; yet it is not true, on the other hand, that wherever we have a curve of that nature, we have an asymptote also. 2. Of these curves that have an asymptote, some have only one, as the conchoid, cissoid, and logarithmic curve; and others two, as the hyperbola. See HYPERBOLA, CONCHOID, &c.

3. As a right line and a curve may be asymptotical to one another, so also may curves and curves: such are two parabolas, whose axes are in the same right line. See the article PARABOLA.

4. No right line can ever be an asymptote to a curve that is every where concave to that right line. 5. But a right line may be an asymptote to a mixed curve, that is partly concave, and partly convex, towards the same line. And, 6. All curves that have one and the same common asymptote, are also asymptotical to one another.

ASYMPTOTIC, something relating to asymptotes. See the preceding article.

ASYMPTOTIC SPACE, the same with hyperbolic space. See HYPERBOLIC.
ATHASION ASYNDeton, in grammar, a figure which omits the conjunction in a sentence.
ATACAMA, the name of a ridge of mountains, which separate Peru from Chili, and also of a sea-port town in Peru.
ATANTA, in botany, a species of junach. See SUMACH.
ATARAXY, a term used by the schools and sceptics, to denote that calmness of mind which secures us from all emotions arising from vanity or self-conceit. In this consisted the sumnum bonum, or sovereign good.
ATAY, in a general sense, the want of order; with physicists it signifies the irregularity of crises and paroxysms of fevers.
ATHANE, in commerce, a small silver coin used in Turkey, and worth only one third of the English penny.
ATCHE, in botany, the name of a furnace, made of mountains, which secured us from all emotions arising from vanity or self-conceit. See TAWNACE.
ATHANAS' A, in geography. See AETH.
ATHA, in botany, the name of a garden, composed of theimum, jujcet, and other numerous plants of the acicas, which secure us from all emotions arising from vanity or self-conceit. See TAWNACE.
ATHAMADULET, the prime minister of the Persian empire, as the grand vizier is of the Turkish empire.
ATHAMANTA, in botany, the name by which Linnaeus calls the meum of Tournefort. See the article MEUM.
ATHANAS'L A, in botany, a name sometimes given to tanzy. See TANZY.
ATHANASIUS, in botany, a name sometimes given to tanzy. See TANZY.
ATHANASIUS CREED, that supposed to be composed by Athanasius. See CREED.
ATHANATI, in Persian antiquity, a body of cavalry, consisting of ten thousand men, always complete. They were called athanati because when one of them happened to die, another was immediately appointed to succeed him.
ATHANOR, in chemistry, a kind of fixed and large digesting furnace, made with a tower, so contrived as to keep a constant moderate heat for a considerable time, which may be increased or diminished at pleasure, by flutting the re-
gisters. It is also called phger bcalicus, slow harry, the philosophical furnace, or furnace of arcana, sometimes uterus chemiceus, or jagayvious, and commonly the towered furnace. See FURNACE.
ATHIEST, a person who denies the deity, who does not believe the existence of a God, nor a providence, and who has no religion at all, either true or false. An atheist, in general, is one who owns no being superior to nature; in which sense Spinoza may be said to be an atheist, as he allows no other god besides nature, or the universe, as it consists of men and other sensible beings.
Plato distinguishes three sorts of atheists; first, such as absolutely deny the existence of any gods; secondly, those who allow the existence of gods, but deny their taking any concern in human affairs, and so disbelieve a providence; thirdly, such as believe there are gods, but think that they are early appeareed, and remit the greatest crimes for a little prayer, or the like.
Some distinguish speculative atheists, those who are so from principle and theory, from practical atheists, whose wicked lives incline them to believe, or rather to wish, that there were no God.
ATHELING, ADELING, ETBELING, ETHLING, or ETHELING, among our Saxons ancestors, was a title of honour properly belonging to the heir apparent, or presumptive, to the crown. This honourable appellation was first conferred by King Edward the confessor, on Edgar, to whom he was great-uncle, when, being without any issue of his own, he intended to make him his heir.
ATHENA, a planter made of aloes, myrrh, and gum ammoniac, and recommended by some ancient physicians in wounds of the head and nerves.
ATHENAEA, aewna, in greek antiquity, the same with PANATHENEA. See the article PANATHENEA.
ATHENEUM, in antiquity, a public place wherein the professors of the liberal arts held their assemblies, the rhetoricians declaimed, and the poets rehearsed their performances.
These places, of which there were a great number at Athens, were built in the manner of amphitheatres, encompassed with seats, called ceres. The three most celebrated athenea were those at Athens, at Rome, and at Lyons, the second of which was built by the emperor Adrian.
ATHENREE, a town of Ireland, in the county of Galway, and province of Connaught,
ATHENS, a city of Greece, and capital of the province of Livadia, called by the Turks Athinas. It is situated in a large plain, near the river Ilissus, about forty miles east of the island of Corinthus, in 4° 15' east longitude, and 38° north latitude, and is still four miles in circumference.

ATHERINA, in ichthyology, a small fish, otherwise called hypsfus. An atheroma is a tumour without pain or discolouring of the skin, containing in a membraneous bag, matter like pap, intermixed with hard and flabby corporcles, &c.

Atheroma is oblong, hard, not easily impressed by the fingers, nor after the impression easy to restore itself. It is near akin to the miliaria and letatomas, and, like them, is cured by fection.

ATHERA-TON, a town of Warwickshire, situated about ten miles north of Coventry, in 1° 30' west longitude, and 52° 40' north latitude.

ATHLETÆ, in antiquity, men of remarkable strength and agility, disciplined to perform in the public games. This was a general term, under which were comprehended wrestlers, boxers, runners, leapers, throwers of the disc, and those who practiced in other exercises exhibited in the olympic, pythian, and other solemn sports, wherein there were prizes allotted for the conquerors. From the five usual exercises, the athletes were also denominated sprinters, and by the Latins quinterniones.

ATHLETIC, something belonging to the athlete: thus we say athletic crown, athletic diet, athletic habit, &c. See CROWN, &c.

ATHLONE, a strong town in the county of Westmeath, in the province of Connaught in Ireland, situated on the river Shannon, about sixty miles west of Dublin, in 8° 5' west lon. and 53° 20' north lat.

ANHALOTHA, in antiquity, the same with agonotheta. See AGONOTHETA.

ATHOL, a district of Perthshire, in Scotland, from whence the ancient and noble family of Murray takes the title of duke.

ATHOS, a mountain of Macedon, in Greece, called by the natives Agios Oros, and by the Italians Monte Santo.

ATHY, a town of Ireland, in the county of Kildare and province of Leinster, situated on the river Barrow, about ten miles south of Kildare, in 7° 5' west longitude and 53° north latitude.

ATIA, in law. See ODIO and ATIA.

ATIGNY, a small town of Champaigne, in France, situated on the river Aine, about twenty miles south of Rheims, in 4° 40' east longitude, and 49° 25' north lat.

ATINGA-GUACU-MUCU, in ornithology, a beautiful Brasilian bird, of the furmanus, or scarlet-kind. See plate XXIV. fig. 2.

ATLANTIC OCEAN, that bounded by Europe and Africa on the east, and by America on the west.

ATLANTICIDES, in astronomy, the same with pleiades.

ATLAS, the name of a ridge of mountains, running from east to west through the north of Africa, from whence the Atlan tic ocean took its name.

ATLAS, in architecture, the same with telamon. See the article TELAMON.

ATLAS, in anatomy, the name by which some call the first vertebra of the neck; so called in allusion to mount Atlas.

ATLAS, in matters of literature, denotes a book of universal geography, containing maps of all the known parts of the world.

ATMOSPHERE, in physiology, the vast collection of air with which the earth is surrounded for a considerable height. See the article AIR.

Height of the Atmosphere. If the air were of an equal density throughout, the height of the atmosphere might be determined: for it appears from experiments, that a column of air 72 feet high is equal in weight to one inch of water of the same bafe; so that the density of air is that of water as 1 to 864. It has also been found by experiment, that the weight of a column of air, reaching to the height of the atmosphere, will be equal to the weight of a column of water of the same bafe, and 32 feet, or 384 inches high. Hence 864 x 384 gives 331776 inches, or somewhat more than five miles for the height of the atmosphere; were the density of the air everywhere the same as at the earth. But since its density decreases with the pressure, it will be more rarefied and expanded the higher we go; by which means the height of the atmosphere becomes indefinite, and terminates in pure aether. See ELTHER.

However, though it is impossible to assign the real height of the atmosphere, it nevertheless appears certain from experiments, that 45 or 50 miles is the utmost height
height where the density is sufficient to refract a ray of light; and, therefore, that may be accounted the altitude of the atmosphere, to the least sensible degree of density.

Weight of the Atmosphere. It has been already observed, under the article Air, that the atmosphere is a perfect chaos of different effluvia, consisting of almost all kinds of corporeal, confusedly jumbled together, and constituting one mass; water, fire, volatile fads, and oils, &c. are there blended together, in different proportions. Hence it is no wonder that the gravity of the atmosphere should vary, according as the more light or more ponderous of these constituent parts prevail in it; and, in fact, it is found sometimes to sustain a pillar of mercury 31 inches high, in the barometer; when, at others, it will raise the mercury but to the height of 28 inches. Taking, therefore 29 1/2 inches for the mean altitude of the mercury, a column of it, whose base is one square inch, weighs about 15 pounds, which is equal to the pressure of the air upon every square inch. Hence, supposing the surface of a man’s body to be 14 1/2 square feet, the pressure of the air sustained by him will be 13.320 pounds, or nearly 14 tons, at a medium: whereas, when the air is lightest, it will be only 13 1/2 tons; and when heaviest, 14 7/8 tons, the difference of which is 1 5/8 tons = 2464 pounds, wherewith we are compressed more at one time than at another.

This great difference of pressure must greatly affect us, in regard to the animal functions, and consequently with respect to health. If a person, for instance, be afflicted with a cold, he will find his disorder increase with the levity of the air. Again, the reason why we think the air lightest in fine weather, when it is really heaviest, is because the greater pressure constringes the fibres and nerves, and thereby makes them more vigorous than ordinary: whereas, on the contrary, when this pressure is lessened by near 2500 lbs. the fibres are relaxed, and a gloomy inactivity and heaviness ensues.

Besides other advantages arising from the atmosphere, one is, that by reflecting the solar rays, it makes the whole heavens appear luminous, even after sun-set; so that the darkness of the night comes not suddenly, but by degrees: this illumination of the atmosphere between day and night, is what we call twilight.

For measuring the different degrees of heat, weight, and moisture of the atmosphere, instruments have been invented. See the articles Thermometer, Barometer, and Hygrometer.

Atmosphere of the Moon. See Moon.


Atollens Oculi, in anatomy, the name prefixed to Elevator. See Elevator.

Atom, alque®, in philosophy, a particle of matter, so minute as to admit of no division.

Atoms are the minima nature, and are conceived as the first principles or component parts of all physical magnitude. However, atoms are not accounted indivisible on account of their want of extension (for they have the three dimensions of physical magnitude) but they are conceived indivisible on account of their solidity, hardness, and impenetrability, which leave no vacancy for the admission of any foreign force, to separate and difunite them, and consequently exclude a division. Thus it is necessary they should be indissoluble, in order to their being incorruptible, which quality they must be possest of, as being the pre-existent matter of which bodies were made. Sir Isaac Newton adds, that it is required they should be immutable, in order to the world’s continuing in the same state, and bodies being of the same nature now as formerly: from which considerations the antients were led to affect the eternity of atoms, as whatever is immutable, must be eternal.

The antients went farther in the doctrine of atoms: they ascribed gravity to them; and, in consequence, maintained, that they were endowed with motion: and farther observing, that their falling perpendicularly could not join or unite together, they superadded a fortuitous motion sideways, and provided them with certain hooked parts, to enable them the better to hang together, whence, from a casual jumble of these hooked atoms, they supposed the universe to have been formed.

ATOMICAL philosophy, or the doctrine of atoms, a system which, from the hypothesis, that atoms are endowed with gravity and motion, accounted for the origin and formation of all things. This philosophy was first broached by Molchus, sometime before the trojan war, but was much cultivated and improved by Epicurus, whence it is denominated the epicurean philosophy. See the article Epicurean.

ATONEMENT,
ATONEMENT, the term with expiation. See the article EXPIATION.

ATONICS, in grammar, words not accented. See the article ACCENT.

ATONY, alone, in medicine, a defect of tone or tension, or a laxity or debility of the solids of the body; occasioning faintings, weaknesses, &c. Some physicians ascribed the causes of all distempers to relaxation, atrition, or a mixture of these.

ATRA BILIS, in ancient medicine, the black bile, one of the humours of the ancient physicians; which the moderns call melancholy. See the articles MELOCHOLY and HUMOUR.

ATRACTYLIS, in botany, a genus of the *Atriplex* class of plants, with radiated flowers, and compressed seeds, coronated with plumose down, and standing on a plane villose receptacle.

ATRACTYLIS is also the name by which Vaillant calls the carthamus of other botanists. See the article CARTHAMUS.

ATRAGENE, in botany, a genus of the *Polygonia-polygynia* class of plants, the flower of which consists of twelve petals, and its seeds are caudated.

ATRAPHAXIS, in botany, a genus of the *Atriplex-polygonia* class of plants, the flower of which consists of two roundish, flaminated, and permanent petals; and its cup encloses a single, roundish, and compressed seed. Dilennius reckons it only a species of *atriplex*.

ATR/ETI, in medicine, infants having no perforation in the anus; or persons imperforated in the vagina or urethra.

ATRI, a town of the farther Abruzzo, in the kingdom of Naples, situated in 15° 20' east longit. and 42° 40' north lat.

ATRICAPILLA, the black-cap, in ornithology. See the article BLACK-CAP.

ATRICES, or ATTRICES, in medicine, tubercles about the anus, reckoned a kind of condylomata.

ATRICI, in surgery, small finules in the extremity of the intestinum rectum, which do not perforate into its cavity.

ATRIPLEX, or RACH, in botany, a genus of the *Polygonia-monocotia* class of plants; without any flower petals: the cup of the female flower is composed of two leaves, including a single and compressed seed; whereas that of the hermaphroditic flower is composed of five leaves, and encloses a single, roundish, and deprefsed seed. Atriplex is esteemed cooling and emollient; and its seeds, given internally, diuretic, and good in disorders of the uterus.

ATROPA, in botany, a genus of the *Pentandria-monogynia* class of plants, the flower of which consists of a single funnel-fashioned petal; the fruit is a globose berry, containing two cells, wherein the seeds inclosed are numerous and kidney-shaped.

ATROPHY, alagia, in medicine, a distemper, wherein the body, or some of its parts, do not receive the necessary nutrition, but waste and decay incessantly. This is a disorder proceeding from the whole habit of the body, and not from any distemper of the entrails: it is attended with no remarkable fever, and is natural in old age, which atrophy is called *atrophia senilis*.

Atrophy is either nervous, or the effect of immoderate evacuations. A nervous atrophy is that which owes its beginning to a bad and morbid state of the spirits, or to the weakness or destruction of the tone of the nerves; whence a weakness and an universal consumption of the body proceeds, for want of a due assimilation of the nutritious juice: so that from the original of the disease, there is a defect of appetite, and a bad digestion in the stomach, arising from an imperfect elaboration and volatilization of the chyle.

An atrophy by inanition proceeds from a preternatural defect or subtraction of the nutritious juice, which varies according to the different outlets of the body, whether by nature or by art. See the article CONSUMPTION.

ATTACHING, or ATTACHMENT, in law, the taking or apprehending of a person, by virtue of a writ or precept. It is distinguished from an arrest in this respect, that whereas an arrest lies only on the body of a man, an attachment is often times on the goods only, and sometimes on the body and goods; there is this farther difference, that an arrest proceeds out of an inferior court by precept only, and an attachment out of a higher court, either by precept or writ. An attachment by writ differs from dittreis, inasmuch that attachment does not extend to lands, as a dittreis does; and a dittreis does not touch the body, as an attachment does.

In the common acceptation, an attachment is the apprehension of a man's body, to bring him to answer the action of the plaintiff.

ATTACHMENT out of the chancery is obtained upon an affidavit made, that the defendant
ATTACHMENT out of the forest, is one of the three courts held in the forest. The lowest court is called the court of attachment, or wood-mote court; the mean, swan-mote; and the highest, the justice in eye's fear.

This attachment is by three means, by goods and chattels, by body, pledges, and mainprize, or the body only. This court is held every forty days throughout the year; whence it is called forty-days court.

Attachment of privilege, is by virtue of a man's privilege to call another to that court whereof he himself belongs, and in respect whereof he is privileged to answer some action.

Foreign Attachment, is an attachment of money or goods, found within a liberty or city, to satisfy some creditor within such liberty or city.

By the custom of London, and several other places, a man can attach money or goods in the hands of a stranger, to satisfy himself.

Attachiamenta honorum, in our old statute books, imports a distress taken upon the goods or chattels of a person sued for a personal estate, or debt, by the legal attachiators, or bailiffs, as a security to answer the action.

Attachiamenta de spinis & bosco, denotes an ancient privilege granted to the officers of forests, to take to their own use thorns, brash, and windfalls within their own precincts or liberties.

ATTACK, a violent attempt upon any person or thing, an assault, or the act of beginning a combat, or dispute.

ATTACK, in the military art, is an effort made to force a stock, break a body of troops, &c.

Attack of a siege, is a furious assault made by the besiegers with trenches, counters, mines, &c. in order to make themselves masters of a fortress, by storming one of its sides. If there are two or three attacks made at the same time, there should be a communication between them.

False Attacks are never carried on with that vigor and briskness that the other is; the design of them being to favour the true attack, by amusing the enemy, obliging the garrison to a greater duty in dividing their forces, that the true attack may be more successful.

To Attack in flank, is to attack both sides of the bastion.

Line of Attack. See the article Line.

ATTAGEN, in ornithology, the name by which some call two birds of the order of the galline, viz. the bonafia, and hazel-hen.

ATTAINER, in law, is when a man has committed felony or treason, and sentence is passed upon him for the same. The children of a person attainted of treason, are, thereby, rendered incapable of being heirs to him, or to any other ancestor; and if he were noble before, his posterity are degraded, and made base: nor can this corruption of blood be unfed, but by an act of parliament, unless the sentence be reversed by a writ of error.

Attainer is twofold, either by appearance, or by process.

Attainer by appearance, is either by battle, by confession, or by verdict. By battle, is when the party appealed by another, choosing rather to try the truth by combat than by jury, is vanquished. Attainer by confession, is either by pleading guilty at the bar, and not putting himself upon trial by the jury, or before the coroner in sanctuary, where, in ancient times, he was obliged to renounce the realm. Attainer by verdict, is when the prisoner at the bar pleads not guilty to the indictment, and is pronounced guilty by the jury.

Attainer by process, otherwise called attainer by default, is where a party flies, or does not appear, after being three times publicly called in the county court, and at last upon his default, is pronounced guilty.

Bill of Attainer, a bill brought into parliament for attainting, condemning, and executing a person for high treason.

ATTAINT, in law, attineta, a writ which lies against a jury that have given a false verdict in any court of record, in a real or personal action, where the debt or damages amount to above forty shillings.

If the verdict be found false, the judgment by common law was, that the jurors meadows should be ploughed up, their houses broken down, their woods grubbed
grubbed up, all their lands and tenements forfeited, &c. but by statute the severity of the common law is mitigated, where a petty jury is attained, and there is a pecuniary penalty appointed. But if the verdict be affirmed, such plaintiff shall be imprisoned and fined.

ATTAIN'T, among farriers, a knock, or hurt in a horse's leg, proceeding either from a blow with another horse's foot, or from an over-reach in frothy weather, when a horse being rough-hod, or having shoes with long calkers, strikes his hinder feet against his fore-leg.

ATTAIN'T, ATTAIN'T, or AT'TINC'TUS, in law, is applied to a person's being found guilty of any crime or offence, especially treason or felony, by due course of law.

ATT EmE, or ATELLAN.E. See the article ATELLANE.

ATT EsTANT, or ATT ENS, in the general acceptance. See the articles Assistant, Retinue, and SATELLITES.

ATTENDANT, atten's, or ATTENDANTS, in law, one that owes duty or service to another, or in some manner depends upon him, as a widow endowed of lands by a guardian, shall be attendant upon him.

ATTENTION, at'ten's, the applying the ear or the mind assiduously to any thing said or done, in order to acquire the knowledge thereof.

Attention of the mind is more properly an act of the will than of the understanding, wherewith the will summons the understanding from the consideration of other objects, to the thing in hand.

Attention, in regard of hearing, is the stretching the membrana tympani, to make it more susceptible of sounds, or adjusting the tension of that membrane to the proper key or tone of the sound.

ATTENUANTS, in pharmacy, medicines which resolve the viscidity of the humours in the human body; thereby promoting their circulation as well as the discharge of all noxious and excrementitious matter.

When these medicines act upon fluids lodged in the capillary vessels, they get the appellation of aperitives, or aperients, as they do that of expectorants, when they promote a discharge of the viscid humours in the lungs. See the articles APERIENTS and EXPECTORANTS.

Of the vegetable kingdom, the whole tribe of acid and bitter plants, are attenuants; of the animal kingdom, the volatile salts, as sal ammoniac, and salt-petre; and of the mineral kingdom, the mineral acid salts, as vitriol, sea-salt, glauber's salts, &c.

Attenuants are recommended in the inflammatory diseases of winter, along with other medicines. See INFLAMMATORY.

ATTENUATION, the act of attenuating, or making a fluid more thin. See the article ATTENUANTS.

AT THERMINING, in some of our old statutes, is a term used to signify the granting a longer time for payment of a debt.

ATT ESTATION, the act of affirming, or witholding; the truth of something, more especially in writing.

ATTIC, atticus, any thing relating to Attica, or to the city of Athens: thus, attic salt, fætes attici, in philology, is a delicate poignant sort of vit and humour peculiar to the Athenian writers; attic witnesses, atticus tefis, a witness incapable of corruption, &c.

ATTIC, in architecture, a sort of building wherein the roof or covering is not to be seen; thus named, because the buildings at Athens were generally of this form.

ATTIC ORDER, a small order raised upon a large one, by way of crowning, or to finish the building; or it is, according to some, a kind of rich pedastal, sometimes used for the convenience of having a wardrobe, or the like; and instead of columns, has only pilasters of a particular form, and sometimes no pilasters at all.

The name attic is also given to a whole story into which this order enters; this little order being always found over another greater one.

ATTIC Q' A ROI', a kind of parapet to a terras, platform, or the like.

ATTIC continued, that which encompasses the whole circumference of a building, without any interruption, following all the jets, the returns of the pavilions, &c.

ATTIC interposed, one situated between two tall flones, sometimes adorned with columns, or pilasters.

ATTIC base, a peculiar kind of base used by the ancient architects in the Ionic order, and by Palladio, and some others, in the doric. This is the most beautiful of all bases. See the article base.

ATTIUS, in ichthyology, a fish of the sturgeon-kind, seeming to differ in nothing from the huio. See Huso.

ATTIRE, in botany, a name given by some to the generative parts of plants; F f
used by others, to denote the third part or division of the flower of a plant, the other two being the empancles and the foliation, or the cup and the flower-petals.

Attire, in hunting, signifies the head or horns of a deer. See the article Head. The attire of a stag, if perfect, consists of bur, pearls, beam, gutter, antler, fur-antler, royal; fur-royal, and croches; of a buck, of the bur, beam, brow-antler, advance, palm, and spellers.

Attitude, in painting and sculpture, the gesture of a figure, or statue; or it is such a disposition of their parts, as serves to express the action and sentiments of the person represented.

Attlebury, a market town of Norfolk, about eighty miles north-east of London, situated in 40° east longitude, and 52° 30' north latitude.

Attock, a city on the eastern frontiers of Persia, capital of a province of the same name, and situated on the river Attok, in 72° east longitude, and 33° north latitude.

Attolens, in anatomy, an appellation given to several muscles, otherwise called levators and elevators.

Attornato faciendo, &c., a writ commanding a sheriff, or steward, to admit an attorney to appear for a person who owes suit to the county court, court baron, &c.

Attorney, in a general sense, a person appointed by another to do something in his stead.

Attorney, at law, one who is retained to prosecute, or defend, a law-suit. Attorneys, being properly those who sue out writs or process, or commence, carry on, and defend actions, in any of the courts of common law, are distinguished from solicitors, as the latter do the like business in the courts of equity; and none are admitted, either as attorneys or solicitors, unless they have served a clerkship of five years, been enrolled, and taken the oath in that office provided; and the judges of their respective courts are required to examine their several capacities.

By a late order of all the judges, all attorneys are to be admitted of some inns of court, or chancery, (except house-keepers in London and Westminster, &c.) and no attorney shall put himself out of that society, into which he is admitted, till he is admitted to some other society, and deliver a certificate thereof; and all attorneys are to be in common at the times ordered by the society to which they belong, otherwise shall be put out of the roll of attorneys.

Attorneys may be punished for ill practices; and if an attorney, or his clerks, of which he must have but two at one time, do any thing against the express rules of the court, he or they may be committed.

Neither a plaintiff nor defendant may change his attorney without rule of court, whilst the suit is depending; and attorneys are not generally obliged to deliver up the writings in their hands, till their fees are satisfied:likewise, an action does not lie against an attorney, for what he advises in the way of his profession; yet, if an attorney pleads any plea, or appear without warrant from his client, action of the case lies against him.

Attorneys have the privilege to sue and be sued only in the courts of Westminister, where they practise; and they shall not be chosen into offices against their will.

Attorney of the dutchy of Lancaster is the second office in that court, and seems to be there, for his skill in the law, placed as affessor to the chancellor of the court.

Attorney-general is a great officer under the king, created by letters patent, whose office it is to exhibit informations, and prosecute for the crown in criminal causes; and to file the bills in the exchequer, for any thing concerning the king in inheritance or profits. To him come warrants for making of grants, pardons, &c. his salary from the crown is 1000l. per annum.


Attornment, or Attornment, in law, a transfer from one lord to another, of the homage and service a tenant makes; or that acknowledgment of duty to a new lord.

Thus, when one is tenant for life, and he in reversion grants his right to another, it is necessary the tenant for life agree thereto, which is called attornment, and without which, nothing can pass by the grant. If the grant be by fine in court of record, the tenant shall be compelled to attorn.

Attraction, attraction, in natural philosophy, an indefinite term, applicable to all actions whereby bodies tend towards one another, whether in virtue of their
their weight, magnetism, electricity, impulse, or any other latent power. It is not therefore the cause determining the bodies to approach, that is expressed by the word attraction; but the effect, or approach itself.

That there are such tendencies in the material world, is beyond all doubt, being obvious to the most inattentive observer; and it is not least evident, that many of the phenomena of nature are the result hereof.

Philosophers generally reckon four different sorts of attraction, viz. that of cohesion, of electricity, of magnetism, and gravitation.

Attraction of cohesion, is peculiar to the component particles of bodies, by virtue of which, they are firmly connected and held together. The laws and properties of this attraction are the following.

1. It is very discernible and most powerful in corpuscles, or the smallest particles of matter.

2. It is mutually exerted between those particles; or, they mutually attract, and are attracted by each other.

3. The sphere of attraction, or extent of this power, is greater in some particles of matter than in others, but very small at the outermost: for, 4. This power is insensible in solid bodies in the least sensible distance, acting as it were only in contact; and, therefore,

5. It must be nearly proportional to the quantity of contiguous surfaces; or the parts of the bodies cohere most strongly, whose touching surfaces are largest. 6. This power must decrease, as the squares of the distances increase; because it must be supposed to issue from each particle in right-lined directions. 7. Where the sphere of attraction ends, there a repelling power begins; by which the particles, instead of attracting, repel and fly from each other. 8. By this power, the small portions or drops of a fluid, conform themselves to a spherical figure.

The first and second of these properties, are evident from various experiments; as the sudden union of two contiguous drops of mercury, water, &c. the strong adhesion of two leaden balls, which touch by polished surfaces; as also of glass-planes, and crystal buttons, the ascent of water between glass-planes, and in capillary tubes; the rising of water by the sides of a glass vessel, and into tubes of sand, asbes, sugar, sponge, and all porous substances.

The third property is proved by the flickering or adhering of water to substances, which by mercury are left dry. The fourth and fifth properties are evinced by the hyperbolic curve, formed by the superficies of a fluid ascending between glass-planes touching each other on one side. The sixth property is evident. The seventh appears from the ascent of steam, or vapour, from humid or fluid bodies; and the eighth property is manifest by drops of water falling on dust.

From this account of the attraction of cohesion, we have a rational solution of several very curious and surprising phenomena; as why the parts of bodies adhere and stick to firmly together; why some are hard, others soft; some fixed, others fluid; some elastic, others void of elasticity: all which arise from the different figures of the particles, and the greater or lesser degree of attraction consequent thereupon. On this principle, we account for the manner how plants imbibe the nutritive juices, by the fibres of the roots; also for the rise of the sap in vegetables, and for the whole economy of vegetation. Hence the rationale of the various secretions of fluids by the glands, and their wonderful circulation through the fine capillary vessels. Hence also the reason of folding and gilding metals; also of melting, or fusion, by heat. Hence also the exhalation of vapours by the heat of the sun or fire; the aggregation of aqueous particles in the air, forming the drops of rain. We hence see the reason of distillation, filtration, dilution, digestion, sublimation, precipitation, crystallization, and the other operations of chemistry and pharmacy. Lastly, it is by this power of attraction and repulsion, that we are to account for those wonderful phenomena of subterranean ascensions and explosions; of volcano's and earthquakes; of hot springs, dams, and suffocating exhalations in mines, &c. See the article Cohesion.

The second species of attraction, is that of electrical bodies, as glas, amber, sealing-wax, jet, &c. for the properties of which, see Electricity.

For the properties of the third kind of attraction, see the articles Magnet and Magnetism.

The fourth kind of attraction, viz. that of gravitation, though reckoned a distinct species from that of cohesion; yet, when well considered, may be found perhaps to differ from it no otherwise than as a whole
a whole from the parts: for the gravity of large bodies may be only the result or aggregate of the particular powers of the constituent particles, which singly act only in contact, and in small distances; but with their joint forces, in vast quantities, produce a mighty power, whose efficacy extends to very great distances, proportional to the magnitudes of the bodies.

This attractive force of gravity is, to sensors, the same for any distance near the surface of the earth; because such distance does not sensibly alter the distance from the center of the earth. But when the distance is so great as to bear a considerable proportion to the semi-diameter of the earth, then will the power of gravity decrease very sensibly; thus, at the distance of the moon, which is, at a medium, about sixty semi-diameters of the earth, the power of gravity will be to that on the earth's surface, as 1 to 600, as will be shown under the article of CENTRAL FORCES. See also the articles GRAVITY and GRAVITATION.

As the attraction of cohesion is the cause of the solidity of small bodies, so is the attraction of gravitation that chain, which being diffused over the solar system, preserves the planets in their orbits, and makes them revolve about the center of the system. See SYSTEM.

ATTRACTIVE, attraction, attractor, something that has the power and property of attraction. See the article ATTRACTION.

ATTRACTIVE POWER, or FORCE, vis attractive. See the articles POWER and Attraction.

ATTRACTIVES, or ATTRACTIVE REMEDIES, medicines applied externally, that by their warmth and activity, perpetuate the pores, mixing with, and rarely all obstrued matter, so as to fit it for discharge, upon laying open the part. These are the same with what we call drawers, ripeners, maturers, and digesters. The principal simples of this class are most kinds of fat, the dung of pigeons and cows, bran, yea, herring, melilot, tobacco, oil, pitch, relin, frankincense, &c. See each under its proper head.

ATTRIBUTE, attributament, in a general sense, that which agrees with some person or thing; or a quality determining something to be after a certain manner. Thus, understanding is an attribute of mind, and extension an attribute of body. This attribute which the mind conceives as the foundation of all the rest, is called its essential attribute; thus extension is by some, and solidity by others, esteemed the essential attributes of body or matter.

ATTRIBUTES, in theology, the several qualities or perfections of the divine nature, or such as we conceive to constitute the proper essence of God; as his wisdom, power, justice, goodness, &c.

The heathen mythologists divided the deity into as many distinct beings as he had attributes. Thus his power was Jupiter; his absolute will, Fate; his wrath and vengeance, Juno, &c.

ATTRIBUTES in logic, are the predicates of any subject, or what may be affirmed or denied of any thing.

ATTRIBUTES, in painting and sculpture, are symbols added to several figures, to intimate their particular office and character. Thus the eagle is an attribute of Jupiter; a peacock, of Juno; a caduce, of Mercury; a club, of Hercules; and a palm, of Victory. For the attributes of the apostles, see APOSTLE.

ATTRITION, attrition, the rubbing or striking of bodies one against another, so as to throw off some of their superficial particles.

The grinding or polishing of bodies is performed by attrition, the effects of which are heat, light, fire and electricity.

ATTRITION is also often used for the friction of such simple bodies as don't wear from rubbing against one another, but whose fluids are, by that motion, subjected to some particular determination; as the various lenitations of hunger, pain and pleasure, are said to be occasioned by the attrition of the organs formed for such impressions.

ATTRITION, among divines, signifies a sorrow or repentance for having offended God, arising chiefly from the apprehensions of punishment, the loss of heaven, and the torments of hell; and differs from contrition, in as much as this last is conceived to arise from a love to God, as an ingredient or chief motive to our sorrow and repentance. See the article CONTRITION.

ATTURNATO FACIENDO, &c. See the article ATTURNATO FACIENDO.

Admittenda clamae in ilium per ATTURNATUM. See the article CLAMEA.

AVA, a kingdom of India, beyond the Ganges, situated on the north-east part of the bay of Bengal, between the coun-
AUBIN, in horsemanship, a broken kind of gate, between an amble and a gallop, accounted a defect.

AUBURN, a market-town in Wilts, situated about twenty-four miles west of Reading, in 1° 4o' west longitude, and 51° 30' north latitude.

AUBUSSON, a town of France, in the province of Marche, and government of Lyonnais: east longitude 2° 15' and north latitude 4° 55'.

AUCAGUREL, a city of Africa, the capital of the kingdom of Adel, situated upon a mountain in 44° east longitude, and 9° 10' north latitude.

AUCH, in geography. See Aux.

AUCTION, auction, a kind of public sale, very much in use for household-goods, books, plate, &c. By this method of sale, the highest bidder is always the buyer.

This was originally a kind of sale among the antient Romans, performed by the public crier **au bai** or **au bai**. i. e. under a spear stuck up on that occasion, and by some magistrate, who made good the sale by delivery of the goods.

**AUCTION by inch of candle.** See the article Candle.

AUDE, a river of France, which, taking its rise in the Pyrenees, runs northwards by Alet and Carcassonne; and from thence turning eastward through Languedoc, falls into the Mediterranean, a little to the north-east of Narbonne.

AUDENARD. See Oudendard.

AUDIANISM, the same with anthropomorphin, or the doctrine of the anthropomorphites. See the article Anthropomorphites.

AUDIENCE, in a general sense. See the article Hearing.

AUDIENCE, given to embassadors, ceremonies observed in courts, at the admission of embassadors, or public ministers, to a hearing.

In England, audience is given to embassadors in the prefence-chamber; to envoys and residents, in a gallery, closet, or in any place where the king happens to be. Upon being admitted, as is the custom of all courts, they make three bows, after which they cover and sit down; but not before the king is covered and sits down, and given them the sign to put on their hats.

When the king does not care to have them covered, and sit, he himself stands uncovered; which is taken as a flight.
At Constantinople, ministers usually have audience of the prime vizier.

AUDIENCE is also the name of a court of justice established in the West Indies by the Spaniards, answering in effect to the parliament in France. These courts take in several provinces, called also audiences, from the names of the tribunal to which they belong.

AUDITORS, or tellers, before they receive the bills, makes an entry of them, and gives the lord treasurer a certificate of the money received the week before. He also makes debentures to every teller, before they receive any money, and takes their accounts. He keeps the black book of receipts, and the treasurer's key of the treasury, and fees every teller's money locked up in the new treasury.

AUDITORS of the revenues, or of the exchequer, officers who take the accounts of those who collect the revenues and taxes raised by parliament, and take the accounts of the sheriffs, escheators collectors, tenants, and customers, and set them down in a book and perfect them.

AUDITORS of the prefit and impress are officers of the exchequer, who take and make up the accounts of Ireland, Berwick, the Mint, and of any money impressed to any man for the king's service.

AUDITORS collegiate, conventual, &c. officers formerly appointed in colleges, &c. to examine and pass their accounts.

AUDITORY, or Audience, an assembly of people who attend to hear a person that speaks in public.

AUDITORY is also used for the bench whereon a magistrate or judge hears causes.

AUDITORY was also the place in ancient churches where the congregation stood to hear preaching.

Meatus Auditorius, auditory passage, in anatomy, see Meatus Auditorius.

Auditory nerves, in anatomy, a pair of nerves arising from the medulla oblongata, with two trunks, the one of which is called the portio dura, hard portion, the other portio mollis, or soft portion. See the article Nerve.

The portio dura enters the foramen of the os petrotic, and thence through various little apertures, gets into the labyrinth of the ear, where it expands over all its parts, and constitutes the primary organ of hearing.

The portio dura, passing the aqueduct of Fallopius, turns back one or more branches from the anterior surface of the proeess of the petrotic, into the cavity of the cranium. It sends off also another.
ther branch internally, which with the branch from the fifth pair, serves for the construction of the chorda tympani. It also sends off a number of other smaller ramifications, which run to the mufcles and other parts of the tympanum.

AVEIN, a town in the dutchy of Luxemburg, remarkable for a victory which the French obtained over the Spaniards in 1615.

AVEIRO, a sea-port town of Portugal, situated near the ocean, at the mouth of the river Vouga, about twenty-eight miles south of Oporto, in 37° 37', north latitude, and 4° 56', west longitude, and 40° 32', north latitude.

AVELLA, a city of Italy, in the Terra di Lavoro, four miles from Nola, and fifteen from Naples.

AVELLANA, in botany, the name by which the filbert-nut is sometimes called. See the article FILBERT.

AVELLANA PURGATRIX, a name sometimes given to the fruit of the ricinus. See the article RICINUS.

AVELLANO, in heraldry, a cross, the quarters of which somewhat resemble a filbert-nut.

Sylvanus Morgan says, that it is the cross which ensigns the mound of authority, or the sovereign's globe.

AVEGLINO, a town of the kingdom of Naples, and province of Principata, situated about twenty-five miles east of the city of Naples, in 35° 20', east longitude, and 41° north latitude.

AVE-MARIA, the angel Gabriel's salutation of the virgin Mary, when he brought her the tidings of the incarnation. It is become a prayer, or form of devotion, in the Romish church. Their chaplets and rosaries are divided into so many ave-maries, and so many pater-noisters, to which the papists ascribe a wonderful efficacy.

Dr. Bingham observes, that among all the short prayers used by the primitive christians before their sermons, there is not the least mention of an ave-maria.

AVENA, the oat, in botany. See the article OAT.

AVENACEOUS, something belonging to, or partaking of the nature of oats. See the article OAT.

AVENAGE, in law, a certain quantity of oats paid by a tenant to a landlord, instead of rent, or some other duties.

AVENAY, a small city of Champaign in France, near the river Marne, and not far from Rheims.

AVENCHE, or AVANCHE, a town of Switzerland, in the canton of Bern: east longitude 7° 37', north latitude 46° 50'. The Germans call it Wiffibburgh.

AVENOR, an officer belonging to the king's stables, who provides oats for the horses. He acts by warrant from the master of the horse. See the article MASTER OF THE HORSE.

AVENS, in botany, the same with the carpyophyllata.

AVENTURE, in law books, means a misconce, causing the death of a person without felony. See MISAVENTURE and CHANCE MEDLEY.

AVENUE, in gardening, a walk planted on each side with trees, and leading to an house, garden-gate, wood, &c. and generally terminated by some distant object. The width of avenues should be twelve or fourteen feet greater than the whole breadth of the house; and for those that lead to woods or prospects, they ought not to be less than sixty feet in breadth. The trees proper for planting avenues, are the English elm, the lime tree, the horse chestnut, the beach, and the abele.

The method of planting avenues with regular rows of trees, is with good reason now much difused; for nothing can be more absurd, than to have the light shut out the view of the verdure and natural beauties of the adjacent grounds: but as some persons prefer avenues to the most beautiful disposition of lawns, gardeners have introduced a more magnificent way of planting them, which is, to place the trees in clumps or platoons, at about three hundred feet distance from each other, making the opening much wider than before.

AVENUE, in fortification, an opening or inlet into a fort, bastion, or the like. See the article BASTION.

AVEO, a small city of antiac Turkey, in Natolia, situated upon the straights of Gallipoli.

AVERAGE, in law, an antient service which the tenant owed to his lord by horfe or carriage.

AVERAGE, in commerce, signifies the accidents and misfortunes which happen to ships and their cargoes, from the time of their loading and failing to their return and unloading; and is divided into three kinds. I. Theimple or particular average, which consists in the extraordinary expenses incurred for the ship alone,
AVERSA, J.

such is the loss of anchors, masts, and rigging, occasioned by the common accidents at sea; the damages which happen to merchandise by storm, prize, shipwreck, wet or rotting; all which must be borne and paid by the thing which suffered the damage. 2. The large and common average, being those expenses incurred, and damages sustained for the common good and security both of the merchandizes and vessels, consequently to be borne by the ship and cargo, and to be regulated upon the whole. Of this number are the goods or money given for the ransom of the ship and cargo, things thrown over-board for the safety of the ship, the expenses of unlading for entering into a river or harbour, and the provisions and hire of the failors, when the ship is put under an embargo. 3. The small averages, which are the expenses for towing and piloting the ship out of, or into harbours, creeks, or rivers, one third of which must be charged to the ship, and two thirds to the cargo. Average is more particularly used for a fruit is merchantize and freight. It was a tenant for his care of them over and above the freight, who denied the natural validity, occasioned by accident, the damages which happened at sea; the damages which happened to merchandise by storm, prize, shipwreck, wet or rotting; all which must be borne and paid by the thing which suffered the damage. AVERMENT, an offer of the tenant, to make good an exemption pleaded in abatement, or bar of the plaintiff's action. General Averment is the conclusion of every plea to the writ, or in bar of replications, or other pleadings, containing matter affirmative. Particular Averment is when the life of a tenant for life, or tenant in tail, is averred. AVERNI, among ancient naturalists, certain lakes, grottoes, and other places which infect the air with poisonous fumes or vapours, called also mephites. AVER-PENNY, money paid in lieu of average. See Average. AVERHOISTS, the followers of Averno, a celebrated commentator of Aristotle, who denied the natural immortality of the soul, and yet pretended to acquiesce in the Christian doctrine concerning it. AVERRENCATION, in the ancient agriculture, the fame with pruning. See the article PRUNING. AVERRUNCATION, in the antient heathen theology, an order of deities among the Romans, whose peculiar office it was to avert danger and exile. Apollo and Hercules are suppos'd to be of this order. AVERSA, a town of Naples, in the province of Javoro, situated about seventeen miles south of Capua, in 14° 43' east longitude, and 41° 15' north latitude. AVES, AVES,
AVES, some small islands, belonging to the Dutch on the coast of Terra Firma, in south America.

AVENES, a little fortified town of Hainault, in the French Netherlands; situated about twenty one miles south of Mons, in 5° 40' east longitude, and 50° 10' north latitude.

AUGE, a small country of France, in Normandy, comprehending the towns of Harfleur and Pont l'Evêque. Auge is likewise the name of a river of Champaign in France.

AUGES, in astronomy, the name with apsidis. See the article Apsis.

AUGMENT, augmentum, in grammar, an accident of certain tenses of Greek verbs, being either the prefixing of a syllable, or an increase of the quantity of the initial vowels.

Of these there are two kinds, the augmentum temporale, or of a letter, when a short vowel is changed into a long one, or a diphthong into another longer one; and augmentum syllabicum, or of a syllable, when a syllable is added at the beginning of the word.

AUGMENTS, in mathematics. See the article Fluctions and Moments.

AUGMENTATION, augmentatio, in a general sense, is the act of adding or joining something to another, with a design to render it more large and considerable. Augmentation is also used for the addition or thing added.

AUGMENTATION was also the name of a court erected 27 Hen. VIII. called from the augmentation of the revenues of the crown, by the suppression of religious houses; and the office still remains, wherein there are many curious records, tho' the court has been dissolved long since.

AUGMENTATION, in heraldry, are additional charges to a coat-armour, frequently given as particular marks of honour, and generally borne, either on the escutcheon or a canton; as have all the baronets of England, who have borne the arms of the province of Ulster in Ireland.

AUGRE, or AWARE, an instrument used by carpenters and joiners, to bore large round holes; and consisting of a wooden handle, and an iron blade, terminated at bottom with a steel bit.

AUGSBURG, a considerable city of Swabia in Germany; situated in 11° east longitude, and 48° 20' north latitude.

It is an imperial city, and remarkable for being the place where the Lutherans presented their confession of faith to the emperor Charles V. at a dict of the empire held in 1550; from hence denominated the Augsburg Confession.

AUGUR, an officer among the Romans appointed to foretell future events, by the shaking and feeding of birds. There was a college or community of them consisting originally of three members, with respect to the three tribes, Luceres, Rhamnenses, and Tatienes: afterwards the number was increased to nine, four of whom were patricians and five plebeians. They bore an augural staff or wand, as the ensign of their authority, and their dignity was so much respected, that they were never deceived, nor any substituted in their place, though they should be convicted of the most enormous crimes. See Augury.

AUGURAL, something belonging to augurs or augury: thus, we meet with augural instruments, augural books, &c.

AUGURY, in antiquity, a species of divination, or the art of foretelling future events, is distinguished into five forts: 1. From the heavens. 2. From birds. 3. From quadrupeds. 4. From portentous events. When an augury was taken, the augur divided the heavens into four parts, and having sacrificed to the gods, he observed, with great attention, from what part the sign from heaven appeared. If, for instance, there happened a clap of thunder from the left, it was taken as a good omen. If a flock of birds came about a man, it was a favourable presage, but the flight of vultures was unlucky. If, when corn was sown before the sacred chickens, they crossed about it, and eat it greedily, it was looked upon as a favourable omen, but if they refused to eat and drink, it was an unlucky sign. See the article Divination.

AUGUST, in chronology, the eighth month of our year, containing thirty-one days, and so called from the emperor Augustus.

AUSTA, or AUUSTA, an island in the gulf of Venice, on the coast of Dalmatia; situated in 17° 40' east longitude, and 42° 35' north latitude.

AUGUSTBURG, a city of Germany, in upper Saxony upon the river Chop, six leagues south of Dresden.

AUGUSTALES, in Roman antiquity, an epithet given to the Flamines or priests appointed to sacrifice to Augustus, after his dedication, and also to the imperial
AVI [226] AUL

games celebrated in honour of the same prince on the fourth of the ides of October.

AUGUSTALIA, a festival instituted by the Romans, in honour of Augustus Caesar, on his return to Rome after having settled peace in Sicily, Greece, Syria, Asia, and Parthia; on which occasion they likewise built an altar to him, inscribed Fortuna Redux.

AUGUSTALIS PRÆFECTUS, a title peculiar to a Roman magistrate who governed Egypt, with a power much like that of a proconsul in other provinces.

AUGUSTAN, or St. Augustin, the capital of Spain, situated fifty miles north-west of Madrid, in 40° 50' north latitude.

AUGUSTIN, or St. Augustin, the capital town of Spanish Florida, in northern America; situated near the frontiers of Georgia, in 31° 30' west longitude, and 30° north latitude.

Cape-Augustin, a cape of Brazil, in southern America; lying in 45° west longitude, and 8° 30' south latitude.

AUGUSTINUS, a religious order in the church of Rome, who follow the rule of St. Augustin, prescribed them by Pope Alexander IV. Among other things, this rule enjoins to have all things in common, to receive nothing without the leave of the superior; and several other precepts relating to charity, modesty, and chastity. There are likewise nuns of this order.

The Augustinians are cloathed in black, and at Paris are known under the name of the religious of St. Genevice, that abbey being the chief of the order.

AUGUSTINUS, the name of Janenius's treatise, from which are collected the five famous propositions enumerated under the article Janenism. See JANENISM.

AUGUSTUS, a town of Malasia in Poland, situated about twelve miles west of Grodno, in 29° east longitude, and 55° north latitude.

AVIARY, a place set apart for feeding and propagating birds. It should be so large, as to give the birds some freedom of flight, and turfed, to avoid the appearance of a foundation on the floor.

AVIÆRUM, in botany, a genus of plants of the betulaceae monygena class of Linnaeus, the flower of which consists of a single part, divided into four ovate-comninated segmens, the fruit is a connective capsule of one cell, containing a single seed of an elliptic figure.

AVIGNANO, a small town of Piedmont in Italy; situated about seven miles west of Turin, in 4° east longitude, and 44° 40' north latitude.

AVIGNON, a large city of Provence, in France; situated on the east side of the river Rhone, about twenty miles south of Orange, in 4° 40' east longitude, and 43° 50' north latitude.

Avignon is an archbishop's see, and with the whole diocese of Venaissin, subject to the pope.

AVIGNON-BERRY, a name by which some call the fruit of the lycium, used in dying yellow. See LYCIUM.

AVILA, a beautiful city of old Castile in Spain, situated fifty miles north-west of Madrid, in 50° 20' west longitude, and 40° 50' north latitude.

AVILES, a sea-port town of Asturia, in Spain, in 6° 40' west longitude, and 43° 30' north latitude.

AVIS, BIRD, in zoology. See the article BIRD and ORNITHOLOGY.

AVIS LONGA. See Hoitlalotl.

AVIS SCI. See Hoactli.

AVIS TRIVIA. See Ceon.

AVIS TROPICORUM. See Tropic bird.

AVIS VENTI. See Neatototl.

AVIS VENTI. See Neatotl.

AVIS, in geography, a small town of the province of Alentejo in Portugal; situated about sixty-five miles east of Lisbon, in 7° 30' west longitude, and 38° 50' north latitude. See ADVICE.

AUK; or Awk, in zoology. See Awk.

AUKLAND, a market-town on the river Wear, in the bishopric of Durham; situated about twelve miles south-west of the city of Durham, in 1° 25' west longitude, and 54° 40' north latitude.

AUL, or AVL. See AwL.

AULA is used for a court-baron, by Spelman, by some old ecclesiastical writers, for the nave of a church, and sometimes for a court-yard.

AULCISTER, a market town of Warwickshire; situated about fourteen miles south-west of Warwick, in 1° 50' west longitude, and 52° 30' north latitude.

AULIC, an epithet given to certain officers of the empire, who compose a court, which decides, without appeal, in all processes entered in it. Thus we say, aulic council, aulic chamber, aulic counsellor.
The aulic council is composed of a president, who is a catholic; of a vice-chancellor, presented by the archbishop of Meutz; and of eighteen counsellors, nine of whom are protestants, and nine catholics. They are divided into a bench of lawyers, and always follow the emperor’s court, for which reason they are called jusfitium imperatoris, the emperor’s judges, and aulic council. The aulic court ceases at the death of the emperor, whereas the imperial chamber of Spire is perpetual, representing not only the deceased emperor, but the whole germanic body, which is reputed never to die.

AULIC, in the forbonne and foreign universities, is an act which a young divine maintains upon being admitted a doctor in divinity. It begins by an harangue of the chancellor, addressed to the young doctor, after which he receives the cap, and presides at the aulic, or disputatia.

AULNAGER, or ALNAGER. See the article ALNAGER.

AULOS, a grecian long-measure, the same with stadium. See STADIUM.

AULOS, in ichthyology, the ancient name for the sole, or razor-fish. See SOLEN.

AULPS, a town of Provence, in France, in the diocese of Frejus, 7° 5’ east longitude, 4° 40’ north latitude. See ALPES.

AUMALE. See ALBEMARLE.

AUMBRY, a country word denoting a cupboard. See CUPBOARD.

AUME, a dutch measure for rhenish wine, containing forty englsh gallons.

AUMONE, in law, signifies a tenure, where lands are given in alms to some church or religious house. See the article FRANK-ALMOIN.

AUMONIER, the same with almoner. See the article ALMONER.

AUNCCEL-WEIGHT, an antient kind of ballance, now out of use, being prohibited by several statutes, on account of the many deceits practised by it. It consisted of scales hanging on hooks, fastened at each end of a beam, which a man lifted up on his hand. In many parts of England, auncel-weight signifies meat sold by the hand, without scales.

AUNCESTOR, or Assise of mort AUNCESTOR. See the article ASSISE.

AUNCESTREL HOMAGE. See the article HOMAGE.

AUNE, a long measure used in France to measure cloth, stuffs, ribbons, &c. At Rouen it is equal to one english ell, at Calais to 1.52, at Lyons to 1.016, and at Paris to 0.95.

AUNIS, a maritime province of France, on the western shore of the bay of Biscay; having the province of Poitou on the north, and Saintonge on the south.

AVOCADO-PEAR, in botany. See the article PERSEA.

AVOCATORIA, a mandate of the emperor of Germany, addressed to some prince, in order to stop his unlawful proceedings in any cause appealed to him.

AVOIDANCE, in the canon law, is when a benefice becomes void of an incumbent, which happens either in fact, as by the death of the parson, or in law, as by ceffion, deprivation, resignation, &c. In the first of these cases, the patron must take notice of the avoidance, at his peril; but in avoidance by law, the ordinary is obliged to give notice to the patron, in order to prevent a lapse.

AVOIDUPOIS, or AVERDUPOIS. See the article AVERDUPOIS.

AVON, a river of England, which, taking it rise in Wiltshire, runs by Bath, where it becomes navigable, and continues its course towards Bristol, below which it falls into the Severn.

AVON is also a river, which, arising in Leicestershire, runs south-west by Warwick and Evesham, and falls into the Severn at Tewksbury in Gloucestershire.

AVOSETTA, in ornithology, a species of recurvirostra. See RECURVIROSTRA.

AVOWEE, one who has a right to present to a benefice. See ADOWSON. He is thus called in contradistinction to those who only have the lands to which the advowson belongs for a term of years, or by virtue of intruption or diffezin. See the article INTRUSION, &c.

AVOWRY, in law, is where a perfon disfrained sues out a replevin, for then the disclarner must avow, and justify his plea, which is called his avowry. See the article REPLEVIN.

The avowry must contain sufficient matter for judgment to have return, but so much certainty is not required therein, as in a declaration; and if made for rent, though it appears that part of that rent is not due, yet the avowry is good for the rest.

AURA, among physiologists, signifies a vapour or exhalation, such as those which arises from mephistical caves. See the articles Mephitis and Exhalation.

AURA VITALIS, in chemistry, a term used by
AUR

by Helmont, for what others call the "aurantia vulgaris," or vital flame. See the article Aur.

AURACH, a town of Swabia, in Germany; situated about fifteen miles east of Tubingen; situated in 50° 50' east longitude, and 8° 34' north latitude.

AURANCES, a large, strong and well fortified city of France in the lower Normandy; situated in 2° 15' west longitude, and 49° 34' north latitude.

AURANTIUM, the orange-tree, in botany, makes a distinct genus, according to Tournefort, but is comprehended under citrus, by Linnaeus. See the article Orange and Citrus.

AURANTIUUS PISCIS. See Dorado.

AURATA, the gill-head, in zoology. See the article Gill-Head.

AURATUS EQUES. See the article Eques Auratus.

AURAY, a sea-port town of Britany, in France; situated about eighteen miles south-east of Port-Louis, in 2° 45' west longitude, and 49° 40' north latitude.

AUREA ALEXANDRINA, in pharmacy, an elixiruary compound of above twenty ingredients, one of which was pure gold, and recommended by its inventor Alexander, as an antidote against the colic and apoplexy.

AUREA CHERSONEUS, the fance with Malacca. See the article Malacca.

AURELIA, in natural-hitory, the fance with whose name is more usually called chrysallis, and sometimes nymph. See the articles Chrysalis and Nymph.

AURELIANA, in botany, the fance with guslon, or altheal.

AURENGABAD, a large city in the province of Vizapour, in India, on this fide the Ganges, east longitude 3° 54', and north latitude 19° 15'.

AURICOLA, in its original significaticn, signifies a jewel, which is projected as a reward of victory in some public dispute. Here, the roman schoolmen applied it, to denote the reward bestowed on martyrs, virgins, and doctors, on account of their works of supererogation; and painters use it to signify the crown of glory, with which they adorn the heads of saints, confessors, &c.

AURUS, a roman gold-coin, equal in weight to twenty-five denarii. According to Ainsworth, the aurum of the higher empire weighed near five hundred-weight, and in the lower empire, little more than half that weight. We learn from Suetonius, that it was customary to give aurei to the victors in the chariot races.

AURICH, a town of Westphalia, in Germany; situated about twelve miles north east of Embden, in 6° 50' east longitude, and 54° 40' north latitude.

AURICHALCUM, or Orichalcum. See the article Orichalcum.

AURICLE, in anatomy, that part of the ear which is prominent from the head, called by many authors auris externa. See the article Ear.

Auricles of the heart. These are a kind of appendages of the heart at its base, and are distinguished by the names of the right and left. The right auricle is much larger than the left, and this is placed in the hinder, that in the anterior part. They are intended as diverticula for the blood, during the systole. Their substance is mucular, being composed of strong fibres, and their motion is not synchronous but achronous with that of the heart. See the article Heart.

AURICULA URSI, bear's-ear, in botany, a distinct genus of plants, according to Tournefort, but comprehended under primula veris by Linnaeus. See the article Primula Veris.

AURICULA JUDÆ, Jew's ear, in botany, a kind of fungus, or mushroom, resembling in some degree the human ear.

AURICULÆ PRIMUS & SECUNDUS MUSEULUS, two muscles of the ear, otherwise called superior and retrahens. See the articles Superior and Retrahens.

AURICULA ALVEARIUM. See the article Alvearium.

AURICULAR, whatever belongs or relates to the ear. Thus we say, auricular witness, auricular confession, &c. as being done secrely, and as it were in the ear.

Auricular Medicines, such as are used in the cure of distempers in the ear. See the article Ear.

Auricularis Digitus, the little finger, so called, because it is used commonly to pick the ear.

Auricularis Adductor. See the article Adductor.

Auricularia, the ear-wig. See the article Ear-wig.

Auriga, the waggoner, in astronomy, a constellation of the northern hemisphere, consisting of twenty-three stars, according to Tycho, 46 according to Hevelius, and 68 in the britannie catalogue.

Aurillac, a neat and well-built city of
of France, in the upper Auvergne, noted for its trade in bone-lace: it is situated in 4° 31' east long., and 48° 44' north lat.

AURIPIGMENTUM, ORPIMENT, in natural-history. See ORPIMENT.

AURIS, in anatomy. See EAR.

AURIS ASINI, AURISCALPIUM, AURORA, AURORA BOREALIS in elevator, QYUS, TINNITUS, See of univalve given to somewhat resembling the human ear: the ears, and serving also for mouth is the chief: .

The upper edge of this article is generally terminated with one or more lucid arches, and sometimes by a long bright streak of light, lying parallel to the horizon. 3. Out of these arches proceed streams of light generally perpendicular to the horizon, but sometimes a little inclined to it, and very much resembling the tail of comets. 4. The upper ends of these streams appear and vanish incessantly, which causes such a feeming trembling in the air, that you would think the upper part of the heavens to be as it were in convulsions. 5. When all the streamings are over, the aurora commonly degenerates into a bright twilight in the north, and then gradually dies away.

The solutions of the phenomena of the aurora borealis are various. Dr. Halley has recourse to the magnetic effluvia which he supposes enters the earth near the south pole, and pervading its pores, pafs out again at the same distance from the northern; and thinks, that by the concourse of several causes, they may be capable of producing a small degree of light, either from the greater density of the matter, or from the greater velocity of its motion, after the same manner as we see the effluvia of electric bodies emit light in the dark. Monfieur de Marain endeavours to prove that it is owing to the zoiaiacal light, or the atmosphere of the sun, which mixing with our atmosphere, and being of an heterogeneous nature, produces the several appearances of the aurora borealis. Mr. Maier, of the academy at Petersburg, accounts for it from exhalations fermenting and taking fire in the atmosphere; and Mr. Rowning gives a very ingenious and natural solution of all the above phenomena, from such effluvia as are continually exhaled from the surface and bowels of the earth.

The aurora borealis is a very common phenomenon in countries near the pole; but there are not many upon record, as having appeared in England before that of March 1715. Since that time, however, they have been and still continue very frequent.

AURUM, GOLD, in natural-history. See the article GOLD.

The Latin term aurum is chiefly used to denote certain chemical preparations, whereof gold is the principal ingredient. Such are, 1. Aurum fulminans, being a solution of gold in aqua regia, and precipitated with salt of tartar. This gives a much smarter and louder report than the common pulvis fulminans. 2. Aurum mufivum or mofaicum, which is made of tin, flowers of sulphur, crude sal armoniac, and purified quicksilver, by mixing and subliming the whole in a mattrafs. The aurum mufivum will be found under the sublimed par, in the bottom of the mattrafs, and may be prescribed in a dose from four grains to a scruple, to kill worms in children. 3. Aurum potabile, potable gold. This is a composition made of gold, by separating its salt and sulphur, and then dissolving it in a liquor, which takes the name of tincture of gold. It is supposd to possess the virtues of a cordial and sudorific, but these can never be ascribed to the gold, for it remains still gold, and may be separated in its own proper form by mere evaporation. 4. Aurum philosophorum which the alchemists hold still more simple than gold, as confiding of mercury perfectly cleared from all sulphur; but whether
AUST 

ther there be any such thing in nature, 
is a question not yet decided.

AUSCH. See the article AUCH.

AUSPEX, a name antiently used for augur. See the article AUGUR.

AUSPICIAM, AUSPICY, the same with augury. See the article AUGURY.

Some authors indeed have supposed, that auspicy regarded only the flight of birds, and therefore distinguished it from augury, which observed the noise, chirping, and chattering of birds; but this is a distinction not always observed.

AUSTERE, rough, stringent. Thus an austere taste is such a one as confinys the mouth and tongue with some austerity; as the taste of unripe fruit. Things of an austere taste are supposed by some, from their glutinous quality, to generate the tone.

AUSTERTY, among moral writers, implies severity and rigour. Thus we say, austerity of manners.

Austerity of bodies, according to the Cartesians, consists in having obtuse angular particles, like a blunt saw.

AUSTERLITZ, a small city of Germany in Moravia, the capital of a district of the same name.

AUSTRAL, australis, something relating to the south: thus the fix signs on the south side of the equinoctial are called austral signs.

AUSTRAL FISH, australis pisceis, a small constellation of the southern hemisphere, invisible to us.

AUSTRIA, a circle of Germany, comprehending the arch-duchy of Austria, also Styria, Carniilia, Carniola, Tyrol, Trent, and Briissen.

It is bounded by Bohemia and Moravia on the north; by Hungary, Selavonia, and Croatia on the east; by the dominions of Venice on the south, and by Bavaria on the west.

AUSTRIAN, NETHERLANDS. See the article NETHERLANDS.

AUTER DROIT, in law, is when persons sue, or are sued in another's right, as executors, guardians, &c.

AUTER FOIS ACQUIT, in law, a plea made by a criminal that he has been already acquitted of the same crime, with which he is charged. There are likewise pleas of aiter fois convict and attainit, that he has been before convicted of the same felony.

AUTHENTIC, something of acknowledged and received authority. In law it signifies something cloathed in all its formalities, and attested by persons to whom credit has been regularly given. Thus, we say, authentic papers, authentic instruments. In music, authentic is a term applied to four of the church modes or tones, which rise a fourth above their dominants, which are always a fifth above their finals; in this distinguished from the plagal modes, which fall a fourth below their finals. Thus when an octave is divided arithmetically according to the numbers 2, 3, 4, that is, when the fifth is flat, and the fourth sharp, the mode or tone is called authentic, in contradistinction to the plagal tone, where the octave is divided harmonically, by the numbers 3, 4, 6, which makes the fourth a flat, and the fifth a sharp. See Mode, Tone, &c.

AUTHENTICATING, the making a thing authentic. See the preceding article.

AUTHENTIC, in the civil law, a name given to the novels of Justinian. See the article Novel.

AUTHOR properly signifies one who created or produced anything. Thus God, by way of eminence, is called the author of nature, the author of the universe.

The word author is sometimes employed in the same sense as inventor. As, Othe de Guericke is reported to be the author of the barometer.

AUTHOR, in matters of literature, a person who has composed some book or writing.

Authors may be distinguished into sacred and profane, ancient and modern, known and anonymous, Greek, Latin, English, French, &c. and with regard to the subjects they treat; into divines, philosophers, orators, historians, poets, grammarians, philologist, &c. See the articles Sacred, Profane, &c.

An original author is he, who, in treating any subject, does not follow any other person, or imitate any model, either in the matter, or method of his composition. For instance, M. de Fontenelle is an original author in his Praelogies of Worlds, but not in his Dialogues of the Dead.

AUTHORITATE PARLIAMENTI. See the article Custodes.

AUTHORITY, in a general sense, signifies a right to command, and make one's self obeyed. In which sense, we say, the royal authority, the episcopal authority, the authority of a father, &c.

Authority denotes also the testimony of
AUTUMNAL FLOWERS. See FLOWER.

AUTUMNAL, the time when the sun enters the autumnal point. See the article EQUINOX.

AUTUMNAL SIGNs, in astronomy, are the signs libra, scorpio, and sagittarius, through which the sun passes during the autumn. See ZODIAC, LIBRA, &c.

AUTUMN, the third season of the year, when the harvest and fruits are gathered in. Hence, in the language of the alchemists, it signifies the time when the philosophers' stone is brought to perfection. Autumn is represented, in painting, by a man at perfect age, cloathed like the vernal, and likewise girded with a starry girdle; holding in one hand a pair of scales equally poised, with a globe in each; in the other, a bunch of divers fruits and grapes. His age denotes the perfection of this season, and the balance, that sign of the zodiac, which the sun enters when our autumn begins.

AUTUMNAL, something relating to autumn. Thus, AUTUMNAL POINT is that point of the equinoct from which the sun begins to descend towards the south pole.

AUTUMNAL POINT is that point of the equinoct from which the sun begins to descend towards the south pole.
AWL, in ornithology, the same with the alce or razor-biue. See Razor-bill.

AWL, or AUL, among shoemakers, an instrument wherewith holes are bored thro' the leather, to facilitate the stitching, or sewing the same. The blade of the awl is usually a little flat and bend-ded, and the point ground to an acute angle.

AWME, or AUME, a Dutch liquid measure, containing eight fleckans, or twenty verges or vertees, equal to the tierce in England, or to one-sixth of a ton of France. See Aume.

AWN, aridia, in botany. See Aria.

AWNING, in the sea-language, is the hanging a sail, tarpaulin, or the like, over any part of the ship, to keep off the fun, rain, or wind.

AX, secundus, among carpenters, an instrument wherewith to hew wood: the Dutch, fituated about twenty miles west of Wells, in 5° 40' east longitude, and 51° 30' north latitude.

AXEL, a small fortified town of Flanders, situated about twenty miles west of Antwerp, in 5° 40' east longitude, and 51° 20' north latitude.

AXILLA, in anatomy, the arm-pit, or the cavity under the upper part of the arm.

AXILLA, in botany, the space comprehended betwixt the stems of plants and their leaves.

AXILLARY, axillaris, something belonging to, or lying near the axilla. Thus, AXILLARY ARTERY is that part of the subclavian branches of the ascending trunk of the aorta, which passes under the arm-pits. See Artery.

AXILLARY GLANDS are situated under the arm-pits, enveloped in fat, and lie close by the axillary vessels.

AXILLARY VEIN, one of the subclavian veins which passes under the arm-pit, dividing itself into several branches, which are spread over the arm. See Vein.

AXIN, a town on the gold-coast of Guinea, where the Dutch have a fort and factory called St. Antony: west longitude, 4°, and north latitude, 5°.

AXIOM, in philosophy, is such a plain, self-evident, and received notion, that it cannot be made more plain and evident by demonstration, because it is itself better known than any thing that can be brought to prove it: as, that nothing can act where it is not; that a thing cannot be, and not be, at the same time; that the whole is greater than a part thereof; and that from nothing, nothing can arise.

By axioms, called also maxims, are understood all common notions of the mind, whose evidence is so clear and forcible, that a man cannot deny them, without renouncing common sense and natural reason.

The rule whereby to know an axiom, is this: whatever proposition expresses the immediate clear comparison of two ideas, without the help of a third, is an axiom. But if the truth does not appear from the immediate comparison of two ideas, it is no axiom.

These sort of propositions, under the name of axioms, have, on account of their being self-evident, passed not only for principles of science, but have been supposed innate, and thought to be the foundation of all our other knowledge; tho', in truth, they are no more than identical propositions: for to say that all right angles are equal to each other, is no more than saying, that all right angles are right angles, such equality being implied in the very definition. All confideration of these maxims, therefore, can add nothing to the evidence or certainty of our knowledge of them; and how little they influence the rest of our knowledge, how far they are from being the foundation of it, as well as of the truths first known to the mind, Mr. Locke, and some others, have undeniably proved.

According to Bacon, it is impossible that axioms raised by argumentation should be useful in discovering new works; because the subtlety of nature far exceeds the subtlety of arguments: but axioms, duly and methodically drawn from particulars, will again easily point out new particulars, and so render the sciences active.

The axioms in use being derived from flender experience, and a few obvious particulars, are generally applied in a corresponding manner. No wonder, therefore, they lead us to few particulars; and if any inference, unobserved before, happen to turn up, the axiom is preserved by some trifling distinction, where it ought rather to be corrected.

Axiom is also an established principle in some art or science. Thus it is an established axiom in physics,
fics, that nature does nothing in vain; so it is in geometry, that if to equal things you add equals, the sums will be equal. It is an axiom in optics, that the angle of incidence is equal to the angle of reflection, &c. In which sense too, the general laws of motion are called axioms: whence you add: e'quals, the sums will be equat.

AXIOPOLIS, a town of Bulgaria, subject to the Turks. It stands upon the river Danube.

AXIS, in geometry, the straight line in a plane figure, about which it revolves, to produce or generate a solid: thus, if a semi-circle be moved round its diameter at rest, it will generate a sphere, the axis of which is that diameter.

AXIS, in astronomy. 1. Axis of the world, an imaginary right line conceived to pass through the center of the earth from one pole to the other, about which the sphere or the world in the ptolemaic system revolves in its diurnal rotation. 2. The axis of a planet, is that line drawn through the center about which the planet revolves. The sun, together with all planets, except Mercury and Saturn, are known by observation to move about their respective axes. The axis of the earth, during its revolution round the sun, remains always parallel to itself, and is in lined to the plane of the ecliptic, making with it an angle of 66½ degrees. See the articles Parallelism, Inclination, &c.

3. The axis of the equator, horizon, ecliptic, zodiac, &c. are right lines drawn through the centers of those circles perpendicular to their planes. See the articles Equator, Horizon, &c.

AXIS, in conic-sections, a right line dividing the section into two equal parts, and cutting all its ordinates at right angles. Thus, if AP (plate XXIV. fig. 4. No. 1) be drawn so as to cut the ordinate MN at right angles, and divide the section into two equal parts, then is the line AP the axis of the section. The tranverse, first, or principal axis of an ellipsis or hyperbola, is the axis AP, which in the ellipsis (ibid. No. 2.) is the longest, and in the hyperbola (ibid. No. 3.) cuts the curves in the points A and P. The conjugate, or second axis of an ellipsis, is the line EF (ibid. No. 2.) drawn thro' the center C, parallel to the ordinate MN, and perpendicular to the transverse axis AP, being the shorter of the two, and terminated by the curve. The conjugate axis of an hyperbola is the right line EF (ibid. N°. 3.) drawn thro' the center C, parallel to the ordinates MN, MN, and perpendicular to the transverse axis AP. This axis, tho' more than infinite, is of a determinate length, and may be found by this proportion. As AM \times PM = A^2 + MN^2 = EF^2.

The axis of the parabola is of an indeterminate length. The axis of the ellipsis is determinate. In the ellipsis and hyperbola, there are two axes, and no more; and, in the parabola, only one.

AXIS, in mechanics. The axis of a balance is that line about which it moves, or rather turns about. Axis of oscillation is a right line parallel to the horizon, passing thro' the center about which a pendulum vibrates. See the articles Balance and Pendulum.

AXIS IN PERITROCHIO, one of the five mechanical powers, consisting of a peritrochium or wheel concentric with the base of a cylinder, and moveable together with it about its axis. The power is applied at the circumference of the wheel, and the weight is raised by a rope that is gathered up on the axis while the machine turns round. The power may be conceived as applied at the extremity of the arm of a lever, equal to the radius of the wheel; and the weight as applied at the extremity of a lever, equal to the radius of the axis; only those arms do not meet at one center of motion, as in the lever, but in place of this center, we have an axis of motion, viz. the axis of the whole machine. See Lever.

But as this can produce no difference, it follows, that the power and weight are in equilibrio, when they are to each other inversely as the distances of their directions from the axis of the engine; or when the power is to the weight as the radius of the roller to the radius of the wheel; the power being supposed to act in a perpendicular to this radius. But if the power act obliquely to the radius, substitute a perpendicular from the axis on the direction of the power, in the place of the radius, thus. If A B D E (plate XXIV. fig. 4) represent the cylindrical roller, H P N the wheel, L M the axis or right line, upon which the whole engine turns, Q the point of the surface of the roller, where the weight W is applied, P the point where the power is applied, K Q the radius of the roller, C P the radius of the wheel; then if the power
AXIS, with a direction perpendicular to CP, the power and weight will sustain each other, when P is to W as KQ to CP or CH; but if the power act in any other direction PR, let CR be perpendicular from C the center of the wheel on that direction; then P and W will sustain each other, when P is to W as KQ to CR; because, in this case, a power P has the same effect, as if it was applied to the point R of its direction, acting in a right line perpendicular to CR.

The use of this machine is to raise weights to a greater height than the lever can do; because the wheel is capable of being turned several times round, which the lever is not; and also to communicate motion from one part of a machine to another. Accordingly, there are few compound machines without it.

AXIS, in optics, is that ray, among all others that are sent to the eye, which falls perpendicularly upon it, and which consequently passes through the center of the eye.

Common or mean axis, is a right line drawn from the point of concurrence of the two optic nerves, thro' the middle of the right line, which joins the extremity of the same optic nerves.

Axis of a glass or lens, is a right line joining the middle points of the two opposite surfaces of the glass.

Axis of incidence, in dioptrics, is a right line perpendicular in the point of incidence to the refracting superficies, drawn in the same medium that the ray of incidence comes from.

Axis of refraction is a right line drawn thro' the refracting medium, from the point of refraction, perpendicular to the refracting superficies.

AXIS, in architecture. Spiral axis, is the axis of a twisted column drawn spirally, in order to trace the circumvolutions without. See the article COLUMN.

Axis of the ionic capital, is a line passing perpendicularly through the middle of the eye of the volute. See the articles CAPITAL and VOLUTE.

Axis of a vessel is an imaginary right line passing through the middle of it perpendicularly to its base, and equally distant from its sides.

AXIS, in anatomy, the second vertebra of the neck, so called from the head's turning on it like an axis.

AXIS, in zoology, an animal of the deer-kind, found in Egypt, but differing from all the rest, inasmuch as neither the male nor female have horns.

AXLE, or AXLE-TREE, the same with axis. See AXIS.

AXMINSTER, a market town of Devonshire, situated about twenty-two miles east of Exeter, in 3° 15' west longitude, and 50° 40' north latitude.

AXUMA, a city of Ethiopia, in Africa, situated in 38° east longitude, and 15° north latitude.

AXUNGIA, in a general sense, denotes old lard, or the driest and hardest of any fat in the bodies of animals; but, more properly, it signifies only hog's-lard. See the articles FAT and LARD.

Physicians make use of the axungia of the goose, the dog, the viper, and some others, especially that of man, which is held by some to be of extraordinary service in the drawing and ripening of tumours.

AXUNGIA DE MUMIA, denotes marrow.

See the article MARROW.

AXUNGIA SOLIS, in natural history, the same with the filefian earth.

AXUNGIA VITRI, sand-liver, or salt of glaiz, a kind of salt which separates from the glass while it is in fusion. It is of an acrimonious and biting taste: the farriers use it for clearing the eyes of horses: it is also made use of for cleaning the teeth; and it is sometimes applied to running ulcers, the herpes, or the itch, by way of destructive.

AYAMONTE, a sea-port town of Andalufia, in Spain, situated near the mouth of the river Guadiana, in 8° 5' west longitude, and 35° north latitude.

AYDUNI, a town of Sicily, in the valley of Noto, twenty miles west of Catania.

AYE, or EYE, in geography. See EYE.

AYEL, in law, a writ which lies where the grandfather was seized in his demeline the day he died, and a stranger enters the same day and disposesses the heir.

AYERBE, a town of Arragon in Spain, between Saragoffa and Jaca.

AYMARANES, a people of Peru, in south America, in the government of Lima.

AYMOUTH, or EYMOUTH. See the article EYMOUTH.

AYRY, or AERY of hawks, a neft or company of hawks, so called from the old french word aire, which signified the fame. See HAWK.

AYSIMENTA, or AYZIAMENTA, EASEMENTS, in law. See the article EASEMENT.
AZAB, in the Turkish armies, a distinct body of soldiers, who are great rivals of the Janizaries.

AZALEA, in botany, a genus of the *pelandra monogyna* class of plants, the flower of which consists of a single petal, divided at the summit into five segments: the fruit is a roundish capsule, formed of five valves, and containing as many cells: the seeds are numerous and roundish.

AZAMOGLANS, or AGEMOGLANS. See the article AGEMOGLANS.

AZAMOR, a city of Morocco, and province of Kingdom of Morocco, and province of the Janizaries.

AZEDARAH, the bead-tree, in botany.

AZED, in the materia medica, a kind of camphor. See the article CAMPHOR.

AZEDARAH, the bead-tree, in botany, a genus of trees called by Linnaeus *meli*.

AZEL, the scape-goat, in Jewish antiquity. See SCAPE-GOAT.

AZED, in the materia medica, a kind of camphor. See the article CAMPHOR.

AZEDARAH, the bead-tree, in botany, a genus of trees called by Linnaeus *meli*.

AZIMUTH, in astronomy, an arch of the horizon intercepted between the meridian of the place and the azimuth, or vertical circle passing thro' the center of the object, which is equal to the angle of the zenith formed by the meridian and vertical circle: or it is found by this proportion, as the radius to the tangent of the latitude of the place, so is the tangent of the sun's or star's altitude, for instance, to the co-line of the azimuth from the south, at the time of the equinox. To find the azimuth by the globe, see the article GLOBE.

_A magnetic Azimuth_, an arch of the horizon intercepted between the azimuth, or vertical circle passing through the center of any heavenly body, and the magnetic meridian.

This is found by observing the object with an azimuth compass.

_Azimuth-Compass_, an instrument adapted to find, in a more accurate manner than by the common sea-compass, the sun or star's magnetic amplitude, or azimuth. See a description of this compass, under the article *azimuth-Compass*.

_Azimuth-Dial_, one whole ylde or gnomen is at right angles to the plane of the horizon.

_Azimuth-Circles_, called azimuths, or vertical circles, are great circles of the sphere, intersecting each other in the zenith and nadir, and cutting the horizon at right angles in all the points thereof. The horizon being divided into 360°, they usually conceive 360 azimuths.

These azimuths are represented by the rhumbs on common sea-charts, and on the globe they are represented by the quadrant of altitude when screwed in the zenith. On these azimuths is reckoned the height of the stars, and of the sun, when not in the meridian.

AZINCOURT, in geography. See the article ACINCOURT.

AZOGA SHIPS, are those Spanish ships commonly called the quicksilver ships, from their carrying quicksilver to the Spanish West-Indies, in order to extract the silver out of the mines of Mexico and Peru. These ships, briefly speaking, are not to carry any goods unless for the king of Spain's account.

AZONI, in ancient mythology, a name applied by the Greeks to such of the gods as were deities at large, not appropriated to the worship of any particular town or country, but acknowledged in general by all countries, and worshipped by every nation. These the Latins called *divi communes*. Of this sort were the Sun, Mars, Luna, &c.

AZOPH, in geography. See ASOPH.

AZORES, islands in the Atlantic ocean, between 25° and 33° west longitude, and between 36° 40° north latitude. They belong to the Portuguese, and are sometimes called the western isles, as lying westward of Europe.

AZOTH, in ancient chemistry, the first matter of metals, or the mercury of a metal; more particularly that which they call the mercury of philosophers, which they pretend to draw from all sorts of metallic bodies. The azoth of Paracelsus, which he boasted of as an universal remedy, is pretended to be a preparation of gold, silver, and mercury.

AZUMAR, a city of Portugal, in the province of Alentejo, between Portalegre and Elvas.

AZURE, in a general sense, the blue colour of the sky. See SKY and BLUE.

AZURE, among painters, the beautiful blue colour, with a greenish cast, prepared from the lapis lazuli, generally called ultramarine.

With greater propriety, however, azure signifies that bright blue colour prepared from...
from the lapis armenus, a different stone from the lapis lazuli, tho' frequently con-

founded together. This color is, by our painters, commonly called Lambert's blue.

AZURE, in heraldry, the blue colour in the arms of any person below the rank of a

baron. In the escutcheon of a nobleman, sovereign prince, Jupiter. In engraving,

this colour is expressed by lines, or strokes drawn horizontally. See plate

XXII. fig. 2.

AZURUM, the name of a chemical preparation from two parts of mercury, one of sulphur, and a fourth of sal ammoniac, mixed in a mortar, put into a glass vessel, and set over the fire till a bluish smoke arise, &c.

AZYCOS, in anatomy, a vein rising within the thorax on the right side, having no fellow on the left; whence it is called azygos, or vena fine pari.

It is extended through the right side of the cavity of the thorax, and being defcended to the eighth or ninth vertebra, it then begins to keep the middle, and sends forth on each side intercostal branches to the interstices of the eight lowest ribs; being then divided into two branches, of which the larger descends to the left, betwixt the processes of the diaphragm, and is inserted sometimes into the cava, above or below the emulgent, but oftner joined to the emulgent itself. The other, which goes down on the right side, enters the cava, commonly a little above the emulgent, but is very seldom joine'd to the emulgent itself.

AZYMITES, azymites, in church-history, christians who administer the eucharist with unleavened bread. This is an appellation given to the Latin by the Greek church, who also call the armenians and maronites, who use unleavened bread in their office, by the name of azymites. See the next article.

AZYMOUS, azygos, something unfermented, as bread, &c. made without leaven.

This term has occasioned frequent disputes, and, at length, a rupture between the Latin and the Greek churches; the former of which maintain, that the bread in the mass ought to be azymous, unleavened, in imitation of the pachal bread of the Jews, and of our favour, who instituted the sacrament on the day of the passover. The latter as strenuously maintain the contrary from tradition, and the common usage of the church.

It is related, that during the first ages of the church, none but unleavened bread was used in the eucharist, till such time as the Ebionites arose, who held, that all observances prescribed by Moses, were still in force. Upon which both the eastern and western churches took up the use of leaven'd bread; and after the extinction of that heresy, the western church returned to the azymous, the eastern obstinately adhering to the former usage.

It is observed by Galen, that all unfermented bread is very unwholesome.

B.

The second letter of the alphabet, and first consonant, is supposed in its pronunciation, to resemble the bleating of a sheep.

B is also used as an abbreviation: thus, in music, B stands for the tone above A, as B♭, or bB, does for B flat, or the semitone major above A; B also stands for bass, and B. C. for basso continuo, or thorough bass. As a numeral, B was used by the Greeks and Hebrews, to denote 2; but among the Romans, for 300, and with a dash over it (thus ฿) for 3000. The same people likewise used B for Brutus, B. F. for bonum factum. B and V are used indifferently for each other, as felum and fervum; for also B and P, as Publicola and Popticola; and B and F, as Bubalus and Bufalus. B, in the chemical alphabet, signifies Mercury. B. A. stands for batchelor of arts; B. L. for batchelor of laws; and B. D. for batchelor of divinity. B, is servile in the inflection of the dative and ablative plural of the third, fourth, and fifth declension of Latin nouns.

BAAR, a country of Swabia in Germany, in the principality of Fürthemberg, near the source of the Danube and the Neckar.

BAB, or BABELMANDEL. See the article BABELMANDEL.

BABA, a city of European Turk, upon the
BABBLING, among sportmen, is said of hounds which are too bacy, after they have found a good scent.

ABELMANDEL, a little island at the entrance of the Red-sea, from the Indian ocean; from whence the fratrals of Abelmandel take their name.

ABBOON, in zoology, a large kind of ape, common in the east and west-Indies. The head is large, and the mouth in a particular manner furnished with whiskers, the face is naked, but the back part of the head hairy. It has a very short tail, and is of a dark olive-colour.

ABUL, a town of Baccus, a celebrated city of antiquity, supposed to have been situated on the river Euphrates, though not on its present channel, in 44° east longitude, and 35° north latitude. But of this once flourishing a city, there are now no remains; nor even the place, where it stood, certainly known.

ABYSS, a city of the East-Indies, situated in an island of the river Indus.

ABYSSONIAN, or BABYLONIAN, something belonging, or peculiar to Babylon: thus, we meet with babylonian epocho, hour, &c. See the articles EPOCHA, HOUR, &c.

ABYSSUS, in zoology, the porcus indicus, or Indian hog. See HOG.

ACCA, a town of Granada, in Spain; situated about forty-eight miles north-east of the city of Granada, in 3° west longitude, and 35° 30' north latitude.

ACCARAU, or BARCALLAO. See the article BACCHL.

ACCEM, or BACHAIAM, a sea-port town of Cambaya, in the hither peninsula of India. It belongs to the Portuguese, and is situated in 75° east longitude, and 19° 20' north latitude.

ACCHAE, in antiquity, priestesses of the god Bacchus. They were likewise called maenades, on account of the frantic ceremonies used in their feasts; as also thyades, which signifies impetuous, or furious. They celebrated the orgies of their god, covered with skins of tigers and panthers, and running all the night, some with their hair loose, with torches in their hands, others crowned with vine and ivy leaves; carrying a thyrus or rod turned about with ivy, in their hand. Along with them went cymbal-players, and drummers; while they themselves, seiz'd with enthusiasm, made hideous lamentations.

BACCHANALIA, feasts celebrated in honour of Bacchus by the ancient Greeks and Romans; of which the two most remarkable were called the greater and lesser. The latter called lemena, from a word signifying a wine-preis, were a preparation for the former, and were held in the open fields about autumn; but the greater, called Dionysia, from one of the names of Bacchus, were celebrated in the city, about the spring-time. Both these feasts were accompanied with games, spectacles, and theatrical representations, and it was at this time, the poets contended for the prize of poetry. Those who were initiated into the celebration of these feasts, represented some Silenus; others, Pan; others, Satyrs; and in this manner appeared in public night and day, counterfeiting drunkenness, dancing obscenely, committing all kinds of licentiousness and debauchery; and running over the mountains and forests, with horrible shrieks and howlings, crying out, 'Bacchi, Bacche, to Bacchus, Bacche.' Livy informs us, that during the bacchanalian feasts at Rome, such shocking disorders were practised under the cover of the night, and thse who were initiated were bound to conceal them by an oath attended with horrid imprecations, that the senate suppresse them first in Rome, and afterwards throughout all Italy.

BACCHARAC, or BACHECAR. See the article BACHARAC.

BACHARIS, a genus of plants of the fynzea palyzonia superflua class of Linnaeus; the intire flower of which consists of a mixture of hermaphrodite and female flowers. The hermaphrodite ones are monopetalous, of a funnel form, and divided into five segments; the female one are scarce visible. The cup includes solitary oblong seeds, crowned with simple down.
BACCHUS, in ancient poetry, a kind of foot composed of a short syllable, and two long ones, as the word Ævati. It takes its name from the god Bacchus, because it frequently entered into the hymns composed in his honour. The Romans called it likewise antrius, tripodius, saltans, and the Greeks ποταμώδεις.

BACHU, a city of lower Hungary, upon the Danube.

BACHARIS, in ichthyology, the same with the myxon. See the article MYXON.

BACCIFEROSUS, an epithet added to the names of any trees, shrubs, or plants, that bear berries, as Byrony, dwarf, honey-fuckle, lilly of the valley, apha-ragus, butcher's broom, night-flnde, solomon's seal, and many others.

BACH, a city of lower Hungary, upon the Danube.

BACHARA, a city of great Tartary, in Asia, situated in the Usbeck, upon a river which discharges itself into the caspian sea.

BACHARIS, or BACCHARIS, in botany. See the article BACCHARIS.

BACHELOR, or Batchelor. See the article Batchelor.

BACHERAC; a town of the Palatinate of the Rhine, situated on the western shore of that river, in 7° east lon. and 50° north lat. It is remarkable for excellent wine, from thence called bacherac.

BACHIAN, one of the Molucca-islands, situated under the equator, in 125° east longitude. It belongs to the Dutch.

BACHU, a sea-port town of the province of Chirwan, or Shirvan, in Persia. It is situated on the western shore of the caspian sea, in 49° east lon. and 40° north lat.

BACK, dorsum, in anatomy. See DORSUM.

BACK, in the manege. To back a horse, or mount a horse a dos, in French, is to mount him bare-backed, or without a saddlle. A weak-backed horse is apt to stumble: such a horse defends himself, with his back, when he leaps and plays with his fillets, and doubles his reins, to incommode his rider.

BACK, among builders. See Baguette.

BACK-NAILS. See the article Nails.

BACKS of a Ht. See the article Hip.

BACK-BONE, or SPINE. See Spine.

BACK-GAMMON, an ingenious game played with dice and tables, to be learned only by observation and practice. However, the following rules concerning it, cannot fail to be acceptable to our readers. In the first place, the men, which are thirty in number, being equally divided between the two gametters, are placed thus, viz. two on the ace point, five on the side of your left-hand table, three on the cinque, and five on the ace point of your right-hand table; which are answered on the like points by your adversary's men: or they may be disposed thus, viz. two on the ace point, five on the double fice or fice-cinque point, three on the cinque point in your own tables, and five on the ace point at home; which are to be answered by your adversary.

The men being thus disposed, be sure to make good your trey and ace points; hit boldly, and come away as fast as you can. When you come to bearing, have a care not to be answered by your adversary.

If both bear together, he that is first off, without doublets, wins one: if both bear, and one goes off with doublets, he wins two.

If your table be clear before your adversary's men are come in, that is a back-gammon, which is three; but if you thus go off with doublets, it is four.

The great dexterity of this game, is to be forward, if possible, upon fatc terms; and so to point the men, that it shall not be possible for the adversary to pass, though you have entered your men, till you give him liberty, after having got two to one of the advantage of the game.

BACK-Painting. See Painting.

BACK-STAFF, in the sea-language, an instrument to take the sun's altitude. It consists of two concentric arches, the greater of which (plate XXV. fig. 1.) \( \theta_c \) is divided into thirty degrees, and every degree into five minutes, by means of diagonal lines; and the lefser, \( \theta_g \), into sixty degrees. There are likewise three vanes belonging to it, that upon the arch of thirty degrees, marked \( A \), being called the tight vane; that upon the arch of sixty degrees, marked \( C \), the shade vane; and the other vane, \( B \), in the center of the arches, the horizon vane.

To find the sun's altitude by this instrument: fix the shade vane \( C \) on the 60° arch, at about 15 or 20 degrees less than the complement of the altitude, and turning your back towards the sun, move the right vane \( A \) up and down the arch \( \psi \), till the sun's image fall on the horizon vane \( B \), and at the same instant you see the horizon through the slit in the horizon vane; then will the degrees cut by the shade vane \( C \), on the arch \( \phi_g \), being added to those cut by the right vane \( A \), on the arch \( \psi \), be the sun's zenith distance at that time, which being subtracted from 90 degrees, will give his altitude.

This
BAD [239] BAG

This instrument, commonly called Davis's quadrant, from the name of the inventor, and by the French, the English quadrant, is not so accurate as could be wished; and a large heavy brass alidade is to be preferred before it. See the articles Astralab and Quadrant.

Back-stays. See the article Stays.

Back-worm, in falconry. See the article Filanders.

Backberinde, in law, signifies the bearing upon the back, or about a person; being a circumstance of theft apparent, for which a forester may arrest an offender in the forest against vert and venion.

Backing a colt or horse. See Horse.

Bacule, in fortification, a kind of Baculus Divinatorius. See the article Badao.

Bacule, in zoology. See the article Filanders.

Baden. the name of several towns: 1. Of one about twenty miles north of Strasbourg, capital of the margraviate of the same name, and remarkable for its hot baths. 2. Of another town of Swabia, in the Brigow; where are likewise several hot baths. 3. Of one in Switzerland, about fourteen miles north-west of Zurich. 4. Of one in the circle of Austria, about fifteen miles south of Vienna.

Badenoch, an inland country of Inverness-shire, in Scotland, lying between Aberdeenshire and Lochaber.

Badenweiler, a town of Germany, in the Brigow, near the Rhine.

Badger, meles, in zoology. See Meles.

Badger, in old law-books, one that was licenced to buy corn in one place, and carry it to another to sell, without incurring the punishment of an ingrosfer.

Badiaga, a water-plant resembling the alcyonarians, but full of small round granules, like seeds. Linnaeus makes it a species of sponge. It is a native of the northern kingdoms of Europe, and is said to be good for removing the livid marks from blows.

Badiane, or Barbara, the feed of a tree which grows in China, and smells like anise-feed. The Chinese, and the Dutch, in imitation of them, sometimes use the badiane to give their tea an aromatic taffe.

Badis, a fortress of Livonia, subject to Russia, and situated twenty miles west of Revel, in 23° east lon. and 59° 13' north latitude.

Bætus, in ichthyology, a species of Cotus. See the article Cottus.

Bætylia, Barovnia, anointed stones, worshiped by the Phoenicians, by the Greeks before the time of Cecrops, and by other barbarous nations. They were commonly of a black colour, and consecrated to some god, as Saturn, Jupiter, the Sun, &c.

Some are of opinion that the true origin of these idols is to be derived from the pillar of stone which Jacob erected at Bethel.

Badza, or Bazza, a large city of Andalucia in Spain, situated on the river Guadalquivir, in 3° 15' west longitude, and 37° 40' north lat.

Baffetas, or Bætas, a cloth made of coarse white cotton thread, which comes from the East-Indies. Those of Surat are the best.

Baffin's Bay, a gulf of north America, running north-east from cape Farewell in west Greenland, from 60° north latitude to 80°.

Bag, in commerce, a term signifying a certain quantity of some particular commodity; as a bag of almonds, for instance, is about three hundred weight; of anise-feeds, from three to four hundred, &c.

Bags are used in most countries, to put several sorts of coin in, either of gold, silver, brads, or copper. Bankers, and others who deal much in current cash, label their bags of money, by tying a ticket or note at the mouth of the bag, signifying the coin therein contained, the sum total, its weight, and of whom it was received. Tare is allowed for the bag.

Bag, among farriers, is when, in order to retrieve a horse's lost appetite, they put an
an ounce of afo foetida, and as much powder of savin, into a bag, to be tied to the bit, keeping him bridled for two hours, several times a day: as soon as the bag is taken off, he will fall to eating. The same bag will serve a long time.

Bag is also used compounded with other words, as oil-bag, petty-bag, sand-bags, etc. See Oil, Petty, &c.

Bagdat, a strong town of Turky, on the frontiers of Persia, situated on the river Tigris, in the province of Iraca-arabic; it was formerly capital of the fa-rasee empire, and lies in 43° east longit. and 33° 20' north lat.

Baggace, in military affairs, denotes the cloaths, tents, utensils of divers forts, provisios, and other necessaries belonging to an army. Before a march, the waggon with the baggage are marshalled according to the rank which the several regiments bear in the army; being sometimes ordered to follow the respective columns of the army, sometimes to follow the artillery, and some times to form a column by themselves. The general's baggage marches first; and each waggon has a flag, shewing the regiment to which it belongs.

Bagging of hops, the putting them in bags. See the article Hops.

Bagnagar, the capital of Golconda, in the hither peninsula of India, formerly the residence of the kings of Golconda, now subject to the Mogul: in east long. 77° 30' and north latitude 16° 30'.

Bagnara, a maritime town of Italy, in the kingdom of Naples, in 16° east longit. and 38° 15' north latitude.

Banarea, a town of Italy, in the country of Orvieto, in 12° east longitude, and 42° 36' north latitude.

Bagneres, a town of France, in the county of Bigorre, in Gascony, situated upon the Adour, in 42° east longit. and 43° 30' north lat.

Bagnaluck, a large city of Bosnia, in European Turky, situated in 18° 15' east long. and 44° north lat.

Bagnio, an Italian word, signifying a bath: we use it for a hose with conveniences for bathing, cupping, sweating, and otherwise cleansing the body; and sometimes for worfe purposes.

Bagnio is, in Turky, become a general name for the prisons where their flaves are inclofed, it being usual in these prisons to have baths.

Bagnolians, Bagnolenses, in church-history, a sect of heretics, who in reality were manichees, though they somewhat disguised their errors. They rejected the old testament, and part of the new; held the world to be eternal, and affirmed that God did not create the soul when he infused it into the body.

Bagpipe, a musical instrument of the wind kind, chiefly used in country places, especially in the north: it consists of two principal parts; the first a leathern bag, which blows up like a foot-ball, by means of a port-vent, or little tube, fitted to it, and stopped by a valve: the other part consists of three pipes or flutes, the first called the great pipe, or drone; and the second, the little one; which pafs the wind out only at the bottom: the third has a reed, and is played on by compressing the bag under the arm, when full, and opening or stopping the holes, which are eight, with the fingers. The little pipe is ordinarily a foot long; that played on, thirteen inches; and the port-vent fix.

Bagre, in ichthyology, a small, oblong, and bearded anguilliform fish, caught in the american seas.

Baguette, in architecture, a small round moulding, less than an arithral, and so called from the resemblance it bears to a ring.

Bahama, or Lucaya-Islands, a number of islands lying in the Atlantic ocean, between 21° and 27° north latitude, and between 73° and 81° west longitude. These islands, whereof twelve are of a considerable extent, take their name from Bahama, one of the largest of them, lying between 78° and 81° west longitude, and between 26° and 27° north lat.

Bahar, or Barre, in commerce, weights used in several places in the East-Indies. There are two of these weights, the one the great bahar, with which they weigh pepper, cloves, nutmegs, ginger, &c. and contains five hundred and fifty pounds of Portugal, or about five hundred and twenty-four pounds nine ounces avoirdupois weight. With the little bahar they weigh quicksilver, vermillion, ivory, silk, &c. It contains about four hundred and thirty seven pounds nine ounces avoirdupois weight.

Baharen, an island in the perfian gulf, in 50° east longit. and 26° north lat.

Bahir, a hebrew term signifying famous or illustrious; but particularly used for a book of the Jews, treating of the profound mysteries of the cabbala, being the most ancient of their rabbinical works.

Bahus,
BAIUS, a city of Sweden, capital of a province of the same name, and situated about twenty-miles north-west of Gottenburg, in 11° east longitude, and 58° 20' north latitude.

BAJA, a town of Italy, in the kingdom of Naples, and province of Lavoro, situated in 14° 42' east lon. and 41° 6' north lat.

BAJADOR, a cape on the west coast of Africa, in 15° west long. and 27° north latitude.

BAIL, in law, the setting at liberty one arrested, or imprisoned, upon an action, either civil or criminal, upon sureties taken for his appearance at a day and place assigned; and is either common or special. Common bail is in actions of small prejudice, or slight proof, in which case any sureties are taken. Special bail is that given in cases of greater moment, where it is required that the sureties be subsidy-men at least, and according to the matter in question.

It was some years ago enacted, that no person should be held to special bail in any action brought for less than ten pounds: but this is only observed as to writs issued out of the courts of Westminster-hall; for the marshal's court continues to arrest and hold to special bail in actions exceeding forty shillings. By the indulgence of the common-law, all persons might be bailed till they were convicted of the offence laid to their charge: but it is enacted by statute, that murderers, outlaws, house-burners, thieves openly defamed, shall not be bailed. However, this statute does not extend to the court of the king's-bench, which bails in all cases whatsoever, and may bail even for murder, &c.

Clerk of the Bails is an officer belonging to the court of the king's-bench: he files the bail-pieces taken in that court, and attends for that purpose.

BAILE, or BALE, in the sea-language. The seamen call throwing the water by hand, out of the ship or boat's hold, bailing. They also call those hoops that bear up the till of a boat, its bails.

BAILEMENT, in law, the delivery of things, whether writings or goods, to another, sometimes to be delivered back to the bailer, that is, to him who doth deliver them; sometimes, to the use of him to whom they are delivered; and sometimes, to a third person.

BAILAGE, or BAILIAGE. See the article BAILIWARD.

VOL. 1.

Water-Bailiage, an ancient duty paid to the city of London, for all goods brought into, or carried out of the port.

BAILIFF, an officer appointed for the administration of justice within a certain district, called a bailiff.

Bailiffs Errant, such as are appointed by the sheriff, to go up and down the county, to serve writs and warrants, summon county-courts, feiseons, affizes, and the like.

Bailiffs of Franchise, those appointed by every lord within his liberty, to do such offices therein, as the bailiff errant does at large in the county.

There are also bailiffs of forests, and bailiffs of manors, who direct husbandry, fell trees, gather rents, pay quit rents, &c.

Water-Bailiff, an officer appointed in all port-towns, for the searching of ships, gathering the toll for anchorage, &c. and arresting persons for debts, &c. on the water.

Bailiff, however, is still applied to the chief magistrate of several corporate towns. The government of some of the king's castles is also committed to persons called bailiffs, as the bailiff of Dover castle.

In France, bailiffs have some considerable prerogatives: they are reputed heads of their respective districts, or administers justice by their lieutenants, at least within the precincts of the several parliaments or provinces of France. In their name justice is administered, contracts and other deeds passed, and to them is committed the command of the militia.

In Scotland, bailiff is the name of a judge, as well as the appellation of aldermen.

Bailiwick, that liberty which is exempted from the sheriff of the county, over which liberty the lord thereof appoints his own bailiff, with the like power within his precinct, as an under-sheriff exercises under the sheriff of the county: or it signifies the precinct of a bailiff, or the place within which his jurisdiction is terminated.

Bailo, thus they flyle at Constantinople the embassador of the republic of Venice, who resides at the porte. This minifier, besides his political charge, acts there the part of a confult for Venice.

Baiocao, a copper coin, current at Rome, and throughout the whole state of the church, ten of which make a julo, and an hundred a roman crown.
BAI [242] BAL

BAIONNE, in geography. See the article Bayonne.

BAIRAM, in the mahometan customs, a yearly festival of the Turks, which they keep after the fast of ramazan. The mahometans have two bairams, the great and the little. The little bairam holds for three days, and is seventy days after the first, which follows immediately the ramazan. During the bairam the people leave their work for three days, make presents to one another, and spend the time with great manifestations of joy. If the day after ramazan should prove so cloudy as to prevent the sight of the new moon, the bairam is put off to the next day, when it is kept, even if the moon should still be obscured. When they celebrate this feast, after numerous ceremonies, or rather strange ministrations, in their mosque, it is concluded with a solemn prayer against the infidels, to extirpate christian princes, or to arm them against one another, that they may have an opportunity to extend the borders of their law.

BAIT, in fishing, a thing prepared to take and bring fishes to.

Baits are of two sorts, 1. the natural ones, or those generally living, as maggots, bugs, frogs, &c. 2. Of the second kind are all artificial baits, whether such as imitate the living baits, or of several compositions and figures.

Sheep's blood and cheese are good baits in April; the bobs dried, wafps, and bees, are for May; brown flies for June; maggots and hornets for July; and flies in August; grasshoppers in September; corn and bramble-berries at the fall of the leaf: the red earth-worm is good for small fish all the year round; and small fish are good baits for pikes at all times.

There are several artificial baits for intoxicating of fowles, and yet without tainting or hurting their flesh: for the greater part of land-fowles the bait may be made this: take a peck, or a lesser quantity, of wheat, rye, &c. with which mix two hand-fulls of nux vomica; boil them together till they are almost ready to burst; strew them upon the land, where you design to take the fowl, and such as eat thereof will be intoxicated, and lie as if dead: small birds may be taken, with only this alteration; instead of wheat, or the like grain, take hempleed, &c.

BAITING, in falconry, is when a hawk flutters with her wings, either from perch or fit, as if it were striving to get away.

BAJULUS, an ancient officer in the court of the greek emperors. There were several degrees of bajuli, as the grand bajulus, who was preceptor to the emperor, and the simple bajuli, who were sub-preceptors.

BAKAL, a great lake, in the middle of Siberia, on the road from Moscovy to China.

BAKER, a person whose occupation or business it is to bake bread. See the articles Baking and Bread.

The bakers of London make a distinct company, the nineteenth in order.

BAKER'S central rule. See the article Central rule.

BAKEWELL, a large market-town of Derbyshire, about one hundred and fifty miles from London. It is a good market for lead.

BAKING, the art of preparing bread, or reducing meals of any kind, whether simple or compound, into bread. The various forms of baking among us may be reduced into two, the one for leavened, the other for unleavened bread; for the first, the chief is manchet-baking, the process whereof is as follows: The meal, ground and bolted, is put into a trough, and to every buthel of meal, ground and bolted, is put about three pints of warm ale, with barm and salt to season it: this is kneaded well together, with the hands through the brake; or for want thereof, with the feet, through a cloth; after which, having lain an hour to swell, it is moulded into manchet, which scorched in the middle, and pricked at top, to give room to rise, are baked in the oven by gentle fire.

For the second, sometimes called cheater-bread-baking, it is thus: some leaven (fayed from a former batch) filled with salt, laid up to four, and at length dissolved in water, is strained through a cloth into a hole made in the middle of the heap of meal in the trough; then it is worked with some of the flour into a moderate confection; this is covered up with meal, where it lies all night, and in the morning the whole heap is stirred up, and mixed with a little warm water, barm, and salt, by which it is seasoned, softened, and brought to an even leaven: it is then kneaded, moulded, and baked, as before.

Baking of porcelain. See Porcelain.

BALA, in botany, the name by which the mufa of botanists is sometimes called. See the article Musa.
BALA, in geography, a market-town of Merionethshire, about sixteen miles south from Denbigh, in 5° 40' west long., and 52° 55' north latitude.

BALADNIA, the whale, in zoology, a genus of fishes, of the order of the plagiuri, distinguished by having certain laminae, of a horny substance, in the upper jaw, which supply the place of teeth, and usually no fin upon the back: to this it may be added, that the finula, or aperture, for the discharge of water, is double, and situated either on the forehead, in the middle of the head, or in the rostrum. See the article Whale.

The horny laminae make the substance which we call whale-bone.

BLAGANSK, or BALDACHIN, a town of Muscovith Siberia, situated on the river Angara, in 97° east long. and 59° north lat.

BALAGA, a town of Muscovy, in the province of Novgorod, situated on the river Wolga, in 45° east long. and 56° 30' north lat.

BALAGUER, a city of Catalonia, in Spain, in 37° east long. and 39° 30' north lat.

BALAGUER, a town of Muscovy, situated on the river Angara, in 97° east long. and 59° north lat.

BALAGUA, a sea-port town of Java, in Asia, which gives name to nypa, supported by pillars and enencmpased with a balustrade: or it is a kind of open gallery, for people to stand in, to behold any public show, or for taking the air in. They are usually level with the first floor, and are made of wood, or iron.

BALAUL, in architecture, a projection in the front of a house, or other building, supported by pillars, or consoles, and encompassed with a balustrade: or it is a kind of open gallery, for people to stand in, to behold any public show, or for taking the air in. They are usually level with the first floor, and are made of wood, or iron.

BALALKIN, or BALDAVIN, in architecture, a building in form of a canopy, supported by pillars and frequently used as a covering to inscribed altars. Some also use the term baldachin for the shelter over a door.

BALDIVIA, or VALDIVIA, a sea-port town of Chili, in South America, situated on the southern sea, in 8° west long. and 40° south latitude.

BALDOCT, a market-town in Hertfordshire, about thirty-eight miles north of London, in 15° west long. and 51° 55' north lat.

BALE, in commerce, is said of merchandise packed up in cloth, and corded round very tight, in order to keep them from breaking, or preserve them from the weather. Most of the merchandise capable of this kind of package, designed for fairs or exportation, ought to be in bales, and too much care cannot be taken in packing them, to prevent their being damaged. The bales are always to be marked and numbered, that the merchants to whom they belong, may easily know them.

A bale of cotton yarn is from three to four hundred weight; of raw silk, it is from one to four hundred; of lockram or dowlas either three, three and a half, or four pieces.
Bale-Goods, among the English merchants, are all such as are imported or exported in bales; but the French give that name to certain hard-wares, and other sort of merchandise, which come to Paris, and are commonly made by bad workmen, of indifferant materials.

Bale, in geography. See Basil.

Balestra, in ichthyology, the capriscus. See the article Capricus.

Bali, an island of the East-Indies, situated in 114° east lon. and 7° 30' south lat. This island, and the east end of the island of Java, form a streight about a mile over, of extremely difficult passage.

Balisore, a small sea-port of the hither India, situated on the north-west part of the bay of Bengal, in 85° 15' east long. and 21° 30' north lat.

Ballesta, or Ballista; see Ballista.

Ballistes, a genus of the branchiosegous order of fishes, having only one belly-fin, on the back there are some round spines; the jaws are furnished with very large teeth, which are placed contiguous to each other, and are pretended forwards, having much the appearance of those in the human mouth; and in other species, of those of the hog; the body and the head are comprefsed and broad.

Balivo Amovendo, in law, was a writ for removing a bailiff from his office, for want of having sufficient land in his bailiwick to answer the king and his people, according to the statute of Westminster, 2 reg. Crig. 78.

Balk, among builders, is sometimes used for the summer-beam of a house; sometimes for the poles and rafters, which support the roofs of barns, &c. and sometimes for the beams used in making sea-holds.

Balk, in agriculture, denotes a ridge, or bank between two furrows.

Balkhe, or Balkhe, a city of Asia, in the Upper Tartary, situated upon the river Dilhas, in 68° east lon. and 36° 40' north lat.

Ball, in a general sense, a spherical and round body, whether it be so naturally, or turned into that figure by the hand of an artist: thus we say, a tennis-ball, foot-ball, cotton-ball, &c. The word is also used to signify some tools of several trades and arts, because they bear some resemblance to balls.

Ball, in the military art, comprehends all sorts of bullets for fire arms, from the cannon to the pistol. See the articles Cannon, Pistol, &c.

Cannon-balls are of iron, musquet-balls, pistol-balls, &c. are of lead. The experiment has been tried of iron balls for pillets and fusees, but they are justly rejected, not only on account of their lightness, which prevents them from flying straight, but because they are apt to furrow the barrel of the pistol, &c. See Shot.

Ball and Socket is an instrument made of brass, with a perpetual screw, so as to move horizontally, vertically, and obliquely; and is generally used for the managing of surveying instruments, and astronomical instruments.

Ball of a pendulum, the same with bob. See the article Bob.

Ball, among printers. See Printing.

Puff-Ball, the English name of the capulodoron. See the article Lycoperdon.

Ballad, or Ballet, a kind of song, adapted to the capacity of the lower class of people; who being mightly taken with this species of poetry, are thereby not a little influenced in the conduct of their lives. Hence we find, that feditious and designing men never fail to spread ballads among the people, with a view to gain them over to their side.

Balance, or Balance, in mechanics, one of the simple powers which serves to find out the equality or difference of weight in heavy bodies.

The balance is of two kinds, antient and modern: the antient, or roman, called latarecta romana, or reel-yard, consists of a lever AB (plate XXIV. fig. 2. no. 1.) moveable on a center C, and suspended near one of its extremities; the two arms CA, CB being kept in equilibrio by a ball A, fixed at the end of the shortest arm CA: on this the body to be weighed is suspended, and its weight is measured by the divisions marked on the beam, on the other side; where a moveable weight keeps the balance in equilibrio. For example, if the body to be weighed, and put into the scale D, be in equilibrio with the weight, when this last is moved to the sixth division on the longest arm, then will the said body be just six times the weight, when the scale D is suspend·ed from the first division; but if from the second, as in the figure referred to, it will be only triple the weight.

The modern balance consists of a lever, suspended exactly by the middle, and scales affixed to each extremity: the principle on which each is founded is the same, and may be conceived from what follows.

The
Hydrostatical Ballance. See the article HYDROSTATICAL.

Ballance of Trade, in commerce, the equality between the value of the commodities bought of foreigners, and the value of the native productions transported into other nations. It is reckoned that that nation has the advantage in the ballance of trade, which exports more of native commodities, and imports less of the foreign; so that the nation grows so much richer in bullion, as the ballance of that account amounts to, which must be made up in bullion or money.

Among various others, the most received methods of arriving at the knowledge whether a nation gains or loses by foreign trade, or any branch thereof, are the following ones,

1°. A strict survey must be taken of what proportion the value of the commodities exported bears to those import ed. If the exports exceed the imports, it is concluded that that nation is so far in a gaining way, by the overplus imported in bullion. But this method is uncertain, by reason of the difficulty of obtaining a true account, either of the exports or imports; as customs-house books are no rule in this case, by reason of the running of goods, especially many fine commodities of small bulk, but great value; besides the various accidents which affect the value of the flock, either sent out or brought in, as lodes at sea, &c.

2°. The second method, no less defective than the other, is by observing the course of exchange, which if generally above the intrinsic value, or par of the coins of foreign countries, we not only lose by such exchange, but the same is a proof that we lose by the general course of our trade.

3°. The third method is made from the increase or the diminution of our trade and shipping in general; for if the diminution, the nation loses, and vice versa; this seems equally imperfect with the following.

4°. A fourth way is, by observing the increase and diminution of our coin and bullion.

Ballance of a clock or watch. See the articles CLOCK and WATCH.

Ballance, Libra, in astronomy. See the article LIBRA.

Ballance-fish, a name sometimes used for the zygrena, or hammer-headed shark. See the article ZYGRENA.

Ballancer, in the history of insects, a style, or oblong body, ending in a protrusion or head, found under each wing of the two-winged flies: these serve to pois the body of the fly.

Ballast, a quantity of stones, gravel, or sand, laid in a ship’s hold, to make her sink to a certain depth into the water, and fall upright, rendering her of a prodigious weight. The ballast is sometimes one quarter, one third, or one half, according to the difference of the bulk of the ship. Flat vessels require the most ballast. Ships are said to be in ballast, when they have no other loading. Masters of vessels are obliged to declare the quantity of ballast they bear, and to unload it at certain places. They are prohibited unloading their ballast in havens, roads, &c., the neglect of which has ruin’d many excellent ports.
BALLOON, or BALLOON, in a general sense, signifies any spherical hollow body, of whatever matter it be composed, or for whatever purpose it be designed. Thus, with chemists, balloon denotes a round short-necked vessel, used to receive what is distilled by means of fire; in architecture, a round globe on the top of a pillar; and among engineers, a kind of bomb made of paste-board, and played off in fire-works, either in the air or in the water, in imitation of a real bomb.

Balloon, in the French paper trade, is a term for a quantity of paper, containing twenty-four reams. It is also the name of a sort of brigantine used in the kingdom of Siam. BALLOON, in geography, a town of France, in the diocese of Mans, upon the banks of the Orne: east longitude 50°, north latitude 48° 10'.

BALLOTA, or BALLOTE, in botany, a genus of the <i>dynamia gymnoperina</i> class of plants, the flower of which is monopetalous and cloven, the upper lip being erect and crenated, and the lower oblique and divided into three segments. There is no pericarpium; the cup including four ovated seeds.

BALLOTADE, in the mange, the leap of a horse between two pillars, or upon a straight line, made with sureness of time, with the aid of the hand, and the calves of the legs; and in such a manner, that when his fore feet are in the air, he shews nothing but the shoes of his hinder feet, without yanking out. It differs from capriole and croupade, because in the former of these, the horse flies out his hinder legs with all his force, keeping them near and even; and in croupades, he draws his hinder feet under him.

BALLS, or BALLETS, in heraldry, a frequent bearing in coats of arms, usually denominated according to their colours, bezants, plates, hurts, &c. See the article BEZANTS, &c.

BALLUSTER, a small kind of pillar used for ballustrades.

BALLUSTRADE, a series or row of balls, joined by a rail; serving as well for a rest to the elbows, as for a fence or enclosure to balconies, altars, fire-cases, &c.

BALM, or BAUM, in botany. See the article BAUM.

BALM, or BALSAM. See BALSAM.

BALNEUM, a term used by chemists to signify a vessel filled with some matter, as sand, water, or the like, in which another is placed that requires a more gentle heat than the naked fire. Thus <i>balneum arensium</i>, called also <i>balneum ficum</i>, and sand-heat, is when the cucurbit is placed in sand, in ashes, or filings of steel. <i>Balneum maris</i>, or <i>maris</i>, is when the vessel containing the ingredients to be distilled, &c. is put into a vessel of water, which is made to boil; so that no greater heat than that of boiling water can be communicated to the sublime to be treated. And <i>balneum vaporis</i>, or <i>vaporarium</i>, is when two vessels are diffipated in such a manner, that the vapour raised from the water contained in the lower, heats the matter contained in the upper. See the article BATH.

BALLOTADE, or BALLOTADE. See the article BALLOTADE.

BALOWA,
BALOWA, a city of Asia, in the kingdom of Decan.

BALSAM, or native balsam, an oily, resinous, liquid substance, flowing either spontaneously, or by means of incision, from certain plants of foreign virtue in the cure of several disorders. There are many kinds of balsams, but the most remarkable are these. 1. Balsam or balm of gilead, called also balmum judaicum, syriacum, e mecca, and opobalsamum; being an exudation from the true balaminum syriacum rute folio, so much esteemed in the country where it is produced, that it is accounted a rich present from the chief prince of Arabia Felix to the grand signior. In order to have it genuine, it should be chosen fluid as oil, of a very pale yellow colour, perfectly transparent, and of a fragrant smell, with something of the lemon or citron flavour, but not too much of it. In medicine, it opens obstructions of the lungs, and heals erosions from secrion and the work kind of ulcerations. It is prescrib'd in asthma, pleurisy, and whatever requires expectoration; in inward bruises and sores, particularly those of the reins and urinary passages; and externally it is used to discharge and incanue. For internal use, it may either be given in bottles, or dropped on sugar, or finally dissolved into an emulsion by means of the yolk of an egg. The turkish women use it as a cosmetic.

2. Balsam of peru, which is distinguished into two sorts, the white and black. The former, by way of eminence called the balsam of incision, is a liquid of a white colour, resembling in external appearance the balm of gilead, but easily distinguished from it by its smell. It is excellent for green wounds. The black balsam is obtained by boiling the wood of the tree which produces it. The balm is of a darkish red colour, and of an admirable fragrancy. It heals, dries, and discharges, and is much used externally, not only in wounds, but in pellies, Ritchie's, and rheumatic pains, and likewise by perfumery, on account of its excellent smell. 3. Balsam of tolu, is produced from a tree, a species of the pine, which grows in new Spain. It is of a deep yellowish colour, approaching near to red, and of a most delicate scent, much beyond any other balsam. It first flows from the tree of the confidence of ordinary turpentine; but by keeping, we meet with it frequently so hard as to be brittle. Its virtues are the same in general with those of the peruvian and gilead kinds. It is given in consumptions and other disorders of the breast, sometimes in form of pills, sometimes of electuary; but as it is not the pungency of the other kinds, the best form of giving it is in emulsion dissolved in the yolk of an egg, and so mixed with water. 4. Balsam of capivi, or of copaiba, is the produce of one of the arbores fijgneo flore uniformi of Mr. Ray. It is of a thinner consistence than the common turpentine, but much more fragrant and determinate. It passes away quickly by urine, and mightily cleanses those passages; for which reason it hath obtained very much in gonorrheas, and all obstructions and ulcerations of those parts. The most agreeable way of taking it, is either in powdered sugar, or dropped into water. 5. Balsam of liquid amber may be justly reckoned among the simples of the balsamic kind. It drops from a tree of Mexico, called arbor fyracifera, upon an incision being made into its bark. It is a resinous and pungent liquor, of a reddish yellow colour, of an acid aromatic tincture, and of the consistence of viscous turpentine. Its efficacy strengthens the head and nervous system, and its oil is of singular efficacy, both for external and internal uses.

Facilitious or artificial balsams, are certain compositions chiefly of balsamic and healing ingredients, trade by apothecaries in imitation of the native balsams. It would be almost endless to specify all the artificial balsams which have been contrived by dispensatory-writers. Lemery, in his pharmaceutis universelles, has seventy-three different sorts, besides many others in foreign dispensatories. The most remarkable are the France and Edinburgh dispensatories, are balsam of amber, of guaiacum, of lucatellus, of fulpur simple, or with barbadoes tar, of turpentine, vinerary, of many virtues, anydyne of bates and guido, apoplectic, magisterial, martiale and paralyticum. Balsam, with chemists, is a name given to the solutions and preparations of some salts, as balsam of farton, tartar, fulgem, etc.

Balsam of farton is a solution of caccharum fartonii, or sugar of lead made with spirit of oil of turpentine, and disposed till the matter hath gained a red tincture. Balsam, among alchemists, sometimes denotes the spirit of common salt, extracted by
by distillation, after placing a solution of the salt for a considerable time in hor- 
dung, in order to putrefy. This is said to preserve bodies the most liable to cor-
ruption.

**BALSAMICS**, in pharmacy, softening, restoring, healing and cleansing medi-
cines, of gentle attenuating principles, very friendly to nature.

These medicines, on account of their fine, subtile, and volatile oil, are not only 
grateful and agreeable to the constitution, but act upon the fluids, as well as 
the solids, of human bodies; diffusing their virtues through every part, and sup-
plying the blood and humours with a reasonable reinforcement of sulphureous, 
and ethereal parts, increasing their irritive motions, and conveying a gen-
eral vigour to the vital juices.

These medicines may be used with good success, both internally and externally, 
in all diseases of the head, nerves, spinal marrow, stomach and heart; such as 
palpitations, apoplexies, numbness and torpor of the senses, weakness of the memory, difficulty of hearing, excessive weakness and affections; they are also of singular 
service in most disorders of the stomach, and intestines, and are exquisitely adap-
ted to the old and infirm. See BALSAM.

**BALSAMINA**, in botany, a genus of the *fugeneus polygama* class of plants, 
the flower of which consists of four, five, or six petals, and its fruit is a unilocu-
cular capsule, conflituted of five valves, and containing a number of roundish 
seeds affixed to a placenta.

**BALSAMITA**, the name by which coffee-
mary, a species of tanzy, is sometimes 
called.

**BALSARA**, in geography, the name with 
Baffora. See the article BASSORA.

**BALTIC-SEA**, that lying between Swe-
den on the north, and Germany and Li-
bonia on the south.

**BALTIMORE**, a town of the county of Cork, and province of Munster, in Irel-
land, situated about five miles north of 
cape Clear, in 9° 15' west longitude, and 
51° 15' north latitude.

**BALCLAVA**, a port town upon the 
black sea. The Turks call it Jambal: 
east long. 35° 40', north lat. 44° 50'.

**BALZANE**, See WHITEFOOT.

**BAM**, a town of Persia in Caramania, situ-
ated in 77° east longitude and 28° 30' 
north latitude.

**BAMBA**, a town and province of the 
kingdom of Congo in Africa.

**BAMBERG**, a city of Franconia, in Ger-
many: east longitude 10° 50'; and north 
latitude 50° 15'.

The bishop of Bamberg is sovereign of 
the city and diocese round it, for fifty 
miles in length, and forty in breadth.

**BAMBOE**, or **BAMBOU**, a plant in the 
Indies, which multiplies very much by 
its root, from which springs a branchy 
tuft, after the manner of the European 
reeds. It is of the largest kind of cane, 
and decreases gradually to the top, where 
it bears a blossomed, like our reeds.

**BAMFF**, a town of Scotland, which gives 
named to a county, lying between Aber-
deenshire and Murray, along the sou-
thern bank of the river Spey.

The town is situated at the mouth of the 
river Donver, in 5° 5' west longitude, 
and 57° 40' north latitude.

**BAMMIA**, in botany, a name sometimes 
noted for the triumon of Linneaus. See 
the article TRIONUM.

**BAMPTON**, a market town of Oxford-
shire, situated on the river Isis, about ten 
miles south-west of Oxford: west longi-
tude 1° 35'; and north latitude 51° 40'.

**BAMPTON** is also the name of a market-
town in Devonshire, twenty miles north 
of Exeter: west longitude 3° 40'; and 
north latitude 51° 5'.

**BAN**, or **BANN**. See the article BANN.

**BAN**, in commerce, a sort of fine 
mulino, which the English import from 
The East-Indies. The piece is almost a 
yard broad, and runs about twenty yards 
and an half.

**BANANA**, in botany, the same with 
musa. See the article MUSA.

**BANA**, a city of Asia, in the king-
dom of Bengal, situated in 84° 30' east 
longitude, and 16° 20' north latitude.

**BANBURY**, a large borough-town in 
Oxfordshire, twenty miles north of Ox-
ford: west longitude 1° 20', and north 
latitude 52° 5'.

**BANC**, or **BENCH**, in law, denotes a tri-
unal, or judgment-seat; hence, king's 
banner is the same with the court of king's 
bench, and common banner with that of 
common pleas. See the articles KING'S 
BENCH and COMMON PLEAS.

**BANCA**, an island of the East-Indies, se-
parated from the south-east part of that 
of Sumatra by a very narrow channel: 
east long. 105°, and south lat. 5°.

**BANCALES**, a sea-port town on the east 
coast of Sumatra: east longitude 99°, 
and north latitude 2°.

It is a Dutch settlement.
BANCOCK, a city of the kingdom of Siam: east longitude 101°, north latitude 13° 30'.

BAND, in a general sense, some small, narrow ligament, wherewith any thing is bound, tied, or fastened.

BAND, in architecture, a general name for any flat, low member, or moulding, that is broad, but not very deep.

BAND of soldiers, in military affairs, those who fight under the same flag or ensign. See Trained Bands.

BAND of pensioners, a company of 120 gentlemen, who receive a yearly allowance of 100l. for attending on his majesty on solemn occasions.

BAND is also the denomination of a military order in Spain, instituted by Alphonius XI. King of Castile, for the younger sons of the nobility, who, before their admission, must serve ten years, at least, either in the army, or at court; and are bound to take up arms for the catholic faith against the infidels.

BAND, in surgery, a fillet, swath, or piece of linen cloth, wherewith either to cover, or surround certain parts that stand in need of affittance; and is, in this sense, the same with what is otherwise called a roller.

BANDA, or LANTOR, the chief of the Bandá-islams in the East-Indies, where nutmegs grow: east longitude 128°, and south latitude 4° 30'.

BANDAGE, in surgery, a fillet, roller, or swath, used in dressing and binding up wounds, restraining dangerous hemorrhages, and in joining fractured or dislocated bones.

Bandages should be made of strong linen cloth, that has been softened by wearing. They are of different forms, according to the uses they are designed for. Some are common, or applicable to any part; others are proper, or applicable only to particular parts. Some again are simple, or made up of one entire part; others compound, or composed of several pieces sewed together in different manners. In plate XXV. fig. 3. N°. 3 represents a simple bandage not rolled up, and is that used in phlebotomy; N°. 2 is another simple bandage, rolled up at one end, and from thence called a single-headed bandage; those on the other hand are called double-headed, which are rolled up at both ends, as N°. 1.

Next to these come those bandages, which, though consisting of one entire piece, are divided at both ends almost as far as the middle, and called VOL. I.

by the surgeons four-headed bandages, as N°. 4. The bandage, N°. 5, is somewhat narrower and shorter; being divided only at one end, and perforated at the other; this is used in dressings applied to the penis or a finger. N°. 6, represents a double-headed bandage, divided about the middle, and called the uniting bandage, as serving to unite wounds made lengthwise. N°. 7, is the lapular bandage, the chief use of which consists in this, that in dressing wounds of the thorax or abdomen, it is capable of supporting another wider bandage bound round the breast or belly. N°. 8, is a compound bandage, called the T bandage, from its resemblance to that letter; its upper part is bound round the belly, and the lower part passing under the body between the thighs, is tied to the upper one upon the back. This bandage is used for securing such dressings as shall be thought proper to be applied to the limbs or parts of generation.

BANDALEER, or Bandeleer, in military affairs, a large leather belt, thrown over the right shoulder, and hanging under the left arm; worn by the ancients, both for the sustaining of their fire-arms, and for the carriage of their musquet-charges, which being put up in little wooden cases, coated with leather, were hung, to the number of twelve, to each bandeleer.

BANDELET, or Bandlet, in architecture, any little band, or flat moulding, as that which crowns the bandage, in surgery, a fillet, swath, or piece of linen cloth, that has been softened by wearing. They are of different forms, according to the uses they are designed for. Some are common, or applicable to any part; others are proper, or applicable only to particular parts. Some again are simple, or made up of one entire part; others compound, or composed of several pieces sewed together in different manners. In plate XXV. fig. 3. N°. 3 represents a simple bandage not rolled up, and is that used in phlebotomy; N°. 2 is another simple bandage, rolled up at one end, and from thence called a single-headed bandage; those on the other hand are called double-headed, which are rolled up at both ends, as N°. 1. Next to these come those bandages, which, though consisting of one entire piece, are divided at both ends almost as far as the middle, and called by the surgeons four-headed bandages, as N°. 4. The bandage, N°. 5, is somewhat narrower and shorter; being divided only at one end, and perforated at the other; this is used in dressings applied to the penis or a finger. N°. 6, represents a double-headed bandage, divided about the middle, and called the uniting bandage, as serving to unite wounds made lengthwise. N°. 7, is the lapular bandage, the chief use of which consists in this, that in dressing wounds of the thorax or abdomen, it is capable of supporting another wider bandage bound round the breast or belly. N°. 8, is a compound bandage, called the T bandage, from its resemblance to that letter; its upper part is bound round the belly, and the lower part passing under the body between the thighs, is tied to the upper one upon the back. This bandage is used for securing such dressings as shall be thought proper to be applied to the limbs or parts of generation.

BANDALEER, or Bandeleer, in military affairs, a large leather belt, thrown over the right shoulder, and hanging under the left arm; worn by the ancients, both for the sustaining of their fire-arms, and for the carriage of their musquet-charges, which being put up in little wooden cases, coated with leather, were hung, to the number of twelve, to each bandeleer.

BANDELET, or Bandlet, in architecture, any little band, or flat moulding, as that which crowns the doric architrave.

BANDER-ABASSI, in geography. See the article Gombron.

BANDER-CONGO, a sea-port town on the eastern side of the persian gulf: east longitude 44° 50' and north lat. 25°.

BANDERET, a general, or one of the commanders in chief of the forces. This appellation is given to the principal commanders of the troops of the canton of Bern in Switzerland, where there are four banderets, who command all the forces of that canton.

BANDEROLL, a little flag, in form of a guidon, extended more in length than breadth, used to be hung out on the masts of vessels, &c.

BANDITTI, a term peculiarly denoting companies of highwaymen, common in Italy and France; but sometimes also used, in a more general sense, for robbers, pirates, out-lawed persons, ruffians, &c.

BANDELET, or Bandeleer. See the article Bandeleer.
BANDO, the name with Asiner. See the article ASMER.

BANDORA, the capital of the island of Sallet, or Conoria, on the west coast of the hither India: east longitude 72° 30', and north latitude 19°.

BANDORA is also the name of an antient musical instrument, with stringings, resembling a lute. See the articles LUTE.

BANGLE EARS, an imperfection in a horse, remedied in the following manner. Place his ears in such a manner as you would have them stand; bind them with two little boards so fast that they cannot stir, and then clip away all the empty wrinkled skin close by the head.

BANDY-LEGGED persons are such whose feet are disorted, turning either inward or outward, on either side; arising from some defect in the birth, or from the imprudence of the nurse, endeavouring to make the child stand or walk before its legs were strong enough to support the weight of his body.

Besides the use of emollients, it is proper to apply a kind of strong boots proportioned to the limb.

BANGOR, a city of Carnarvonshire, in north Wales: west longitude 4° 13', and north latitude 53° 20'.

It is a bishop's see, and situated on the seaside, about thirty miles west of St. Asaph.

BANGUE, or BEND. See the article BEND.

BANIALUCH, or BAGNALWCH, a city of european Turkie, the capital of Bosnia, upon the frontiers of Dalmatia, near the river Sefina: east longitude 13° 50', north latitude 44° 18'.

BANIANA, a city of India, upon the road from Surat to Agra.

BANJAR, a river in the island of Borneo, in the mouth of which is a floating island, where the east-india company have a factory.

BANIANS, a religious sect in the empire of the mogul, who believe a metempsychosis, and will therefore eat no living creature, nor even kill noxious animals; but endeavour to release them, when in the hands of others.

The banians are said to be so fearful of having communication with other nations, that they break their cups, if one of a different religion has drunk out of them, or even touched them. 'Tis said, that if they happen to touch one another, they purify and wash themselves before they eat, or enter their own houses. They carry, hanging to their necks, a stone, called tamberane, as big as an egg, and perforated in the middle, through which run three stringings: this stone, they say, represents their great god, and upon that account, they have great respect shown them by all the Indians.

BANJA, a river in the island of Borneo, in the mouth of which is a floating island, where the east-india company have a factory.

BANILLA, or VANILLA. See VANILLA.

BANISHMENT, a kind of punishment, whereby the guilty person is obliged to leave the realm.

There are two kinds of banishment; one voluntary and upon oath, the other upon compulsion, for some crime or offence: the former, properly called abjuration, is now ceased; the latter is chiefly enjoined by judgment of parliament, or other courts of justice.

By magna charta, none shall be outlawed, or banished his country, but by lawful judgment of his peers, according to the law of the land, 9 Hen. III. 29.

BANK, in commerce, a common repository, where many persons agree to keep their money, to be always ready at their call or direction: certain societies or communities, who take the charge of other people's money, either to improve it, or to keep it secure.

There are banks of various kinds, and different in the nature of their contrivances and establishments: some are instituted wholly on the public account, and put under the direction of the magistrates, as the famous bank of Amsterdam, where the money deposited therein shall be always kept for the use of the proprietors, and shall never be let out for profit or advantage.

Payments made by assignments upon this bank, are valued from 3 to 6 per cent. above the payment of the money in specie, arising from an opinion that the proprietors entertain of the equity of its administration; for judging themselves secure, that their money lies always ready at hand, they seldom draw out large sums, but make their mutual payments by transferring the sums from one man's account to another.

A second sort of bank, is such as consists of a company of monied men, who, being duly established, and incorporated by the laws of their country, agree to deposit a considerable fund, or joint stock, to be employed for the use of the society; as lending money upon good security, buying and selling bullion, gold and silver, discounting bills of exchange, &c.

A third sort, is the banks of private men, or partnerships, who deal in the fame way as the former, upon their own single stock or
or credit; and such are the Lombard-
freeet, or other bankers, as they are called.
There are public banks establis hed in
most of the trading cities of Europe, as
in Venice, London, Paris, Amsterdam,
Hamburg, &c. The bank of Venice
is the most antient. It is establis hed by
a solemn edict of the commonwealth,
which enables, that all payments of whole-
fare merchandise, and letters of exchange,
shall be in bank notes; that all debtors
shall be obliged to carry their money to
the bank, and all creditors receive their
money from the bank; so that payments
are performed by a simple transfer from
the one person to the other. In matters
of retail, effective payments are some-
times made, which do not diminish, but
rather augment the stock, by reason of
the liberty of withdrawing their money
at pleasure, &c.

BANKAFLET, a game at cards, which
being cut into as many heaps as there are
players, every man lays as much money
on his own card as he pleases; and the
dealer wins or loses as many as his card
is superior or inferior to those of the other
gamesters.

The best card is the ace of diamonds;
the next to it, the ace of hearts; then the ace
of clubs; and, lastly, the ace of spades;
and at the rest of these suits in order,
according to their degree.

The cheat lies, in securing an ace, or any
other sure winning card; which are some-
how marked, that the sharper may know
them.

BANKER, a person who traffics and nego-
itates in money; who receives and
remits money from place to place by
commission from correspondents, or by
means of bills or letters of exchange.

In France, it is not requisite that a man
be a merchant, in order to carry on
banking; for that trade is permitted to
all sorts of persons, even to foreigners, so
far as relates to foreign banking, or deal-
ing by exchange.

In Italy, the trade of a banker does not
derogate from nobility, which is the rea-
on why most of the younger sons of the
quality apply themselves to that employ-
ment, in order to support their families.
The mostied goldsmiths, in the reign of
King Charles the second, first acquired
this name. See the article Bank.

The Romans had two sorts of bankers,
whose office was much more extensive
than that of the bankers among us; thers being that of public affairs, in

whom were united the functions of a
broker, agent, banker, and notary, ma-
ing the exchange, taking in money,
affilling in buying and selling, and draw-
ing the writings necessary on all these
occasions.

BANKISH, a province of the mogul’s do-
minions, in the north part of the hither
India, lying south-west of the province
of Caffimere.

BANKRUPT, any person, either man or
woman, that by trading hath gotten
other persons goods into his or her hands,
and concealeth himself from his creditors.

It is not buying or selling of lands, but
of personal things, that will make a per-
son liable to be a bankrupt: nor is it
buying only, nor selling only, but both.

Every one that gets his livelihood by
buying and selling in trade, may fall
under a state of bankruptcy upon his
failing; but adventurers in the East-
Indian company, members of the bank of
England, or of the south-sea company,
shall not be adjudged bankrupts, in re-
pect of their stock: also no person con-
cerned as receiver-general of the taxes,
&c. shall be a bankrupt. If a merchant
gives over trade, and some years after be-
comes not solvent for money owed while
a merchant, he is a bankrupt: but if for
new debts, or old debts continued on
new security, it is otherwise.

BANKRUPTCY, the failure, abdus-
coning, and relinquishing of traffic in a mer-
chant, a banker, or any other trader.
See the article BANKRUPT.

The French make this difference between
a bankruptcy and a failure, that the first
is suppos’d voluntary and fraudulent, and
the latter constrained and necessary, by
means of accidents, &c. A failing, break-
ing, or stopping of payment, diminishes
the merchant’s credit; but does not note
him with infamy, as bankruptcy does.

When a merchant fails to appear at the
exchange, without apparent reason, it is
called a failing of presence: the bank-
ruptcy becomes open from the day he ab-
sconds, or the seal is affixed to his effects.

Commission of Bankruptcy. See the ar-
cicle COMMISSION.

BANN, or Ban, banum, or bannus, in the
feudal law, a solemn proclamation or
publication of any thing. Hence the
custom of aking, or bans, before mar-
riage. See the article MARRIAGE.

BANN, in military affairs, a proclamation
made in the army by beat of drum, found
of trumpet, &c. requiring the strict ob-
K k y
BAN [252] BAP

It belongs to the *decantria-trigynia class*; its flower consists of five very large, orbicular petals; and its fruit is composed of three unilocular capsules, running into long ase.

BANNIMUS, the form of expulsion of any member from the university of Oxford, by affixing the sentence up in some public place, as a denunciation of it.

BANNOCK, a kind of oat-cake, baked in the embers, or on a stone placed before the fire: it is common in the northern parts of the kingdom.

BANNUM, in law, signifies the utmost bounds of a manor, or town.

BANQUET, a feast or entertainment, where people regale themselves with pleasant foods, or fruits. It signifies also a little bank, a raised way.

BANQUET, in the manage, that small part of the branch of a bridle that is under the eye, which being rounded like a small rod, gathers and joins the extremities of the bit to the branch, and that in such a manner, that the banquet is not seen, but covered by the cope, or that part of the bit that is next the branch.

BANQUET-LINE, an imaginary line drawn, in making a bit, along the banquet, and prolonged up or down, to adjust the designed force or weaknesses of the branch, in order to make it stiff or easy.

BANQUET, or BANQUETTE, in fortification, a little foot bank, or elevation of earth, forming a path, which runs along the inside of a parapet, upon which the musqueteers get up, in order to discover the counter-carp, or to fire on the enemy in the moat, or in the covert-way.

BANSTICLE, in ichthyology, the same with the gasterosteus, or prickly-back. See the article *GASTEROSTEUS*.

BANTAM, the capital of a large kingdom, and a port town of great trade, situated on the north-west coast of the island of Java, in 105° east longitude, and 6° 30' south latitude.

BANTAM-WORK, a kind of painted or carved work, resembling that of Japan, only more gaudy.

BANTON, in geography, one of the Philippine islands.

BANTRY, a town of Ireland, situated on a bay of the same name, in the county of Cork, and province of Munster: west longitude 9° 20', north latitude 51° 50'.

BANZA, a city of Africa, the capital of the kingdom of Congo.

BAPAUME, a fortified town of the French Netherlands, about twelve miles south-east.
east of Arras: east longitude 3°, north latitude 50° 10'.

BAPTISECULA, in botany, the same with the cyanus, or blue-bottle.

BAPTISM, in matters of religion, the ceremony of washing; or a sacrament, by which a person is initiated into the Christian church.

Grotius is of opinion, that baptism had its original from the time of the deluge, after which he thinks it was instituted in the Christian church. 

It may be, it is generally agreed on, that the Jews practised this ceremony on their profelytes after circumcision, soon after the Samaritan schism, as a mark of distinction to the orthodox Jews. However this may be, the Jews practised this ceremony on their profelytes after circumcision, long before the coming of Jesus Christ. For the matter of baptism, any natural water is held sufficient, but nothing else is allowed. In the primitive times, the ceremony was performed by immersion, as it is to this day in the oriental churches, agreeably to the original signification of the word, which means dipping, or plunging. The practice of the western churches is to sprinkle the water upon the head or the face of the person to be baptized, except the Jews, in whose ritual it is ordered that the head of the infant be plunged three times into the water. A trine immersion was used first, and continued for a long time: this was either to signify either the three days our Saviour lay in the grave, or the three persons in the trinity: but it was afterwards laid aside, because the arians used it. There are abundance of ceremonies delivered by ecclesiastical writers, as used in baptism, which are now laid aside, tho' there are not wanting those who contend for their re-admission. It appears that in the primitive times, none were baptized but adults, though several learned men contend, that infants were admitted to this sacrament. Formerly there were great disputes whether the baptism of heretics was valid, the general opinion ran for the affirmative, provided it was conferred in the name of the trinity; and therefore they allowed that given by laymen, or even by women, in case of necessity.

Divines distinguish three sorts of baptism, 1. Water-baptism, or that already mentioned. 2. Baptism of fire, which is the perfect love of God, joined to an earnest desire to be baptized, called also the baptism of the Holy Ghost. 3. Baptism of blood, which is the martyrdom of a catechumen.

BAPTISM, in the sea-language, a ceremony in long voyages on board merchant ships, praftised both on persons and vessels, who pass the tropic, or line, for the first time. The baptizing the vessel is simple, and consists only in washing them throughout with sea-water; that of the passengers is more mysterious. The oldest of the crew, that has passed the tropic or line, comes with his face blacked, a grotesque cap on his head, and some sea-book in his hand, followed by the raft of the sea-men dressed like himself, each having some kitchen-utensil in his hand, with drums beating. He places himself on a seat on the deck, at the foot of the main-mast. At the tribunal of this mock magistrate, each passenger not yet initiated, swears he will take care the same ceremony be observed, whenever he is in the like circumstances: then by giving a little money by way of gratification, he is discharged with a little sprinkling of water, otherwise he is heartily drenched with streams of water, poured upon him; and the ship-boys are inclosed in a cage, and ducked at discretion.

The sea-men, on the baptizing a ship, pretend to a right of cutting off the beak-head, unless redeemed by the captain.

BAPTISMAL, something belonging to baptism; thus, we lay, baptismal vow, fonts, presents, &c.

BAPTISTS, in church-history, the name by which the anabaptists love to distinguish themselves. See Anabaptists.

BAPTISTERY, in ecclesiastical writers, a place in which the ceremony of baptism is performed. In the antient church, it was one of the exedra or buildings, distinct from the church itself, andconsisted of a porch or anti-room, where the persons to be baptized made their confession of faith; and an inner room where the ceremony of baptism was performed. Thus it continued till the sixth century, when the baptisteries began to be taken into the church-porch; and afterwards into the church itself. It is an observation of some learned men, that antiently there was but one baptistery in a city, and that at the bishop's church; and that afterwards they were set up in parish-churches, with the special allowance however of the bishop.

BAR, in a general sense, denotes a slender piece of wood, or iron, for keeping things close together.

BAR, in courts of justice, an inclosure made
made with a strong partition of timber, where the council are placed to plead causes. It is also applied to the benches, where the lawyers or advocates are seated, because antiently there was a bar to separate the pleaders from the attorneys and others. Hence our lawyers, who are called to the bar, or licensed to plead, are termed bariflers, an appellation equivalent to licentiate in other countries.

BAR, in law, a plea of a defendant, which is laid to be sufficient to destroy the plaintiff's action. It is divided into bar special, bar to common intendment, bar temporal, and bar perpetual. Bar special, falls out upon some special circumstances of the case in question, as where an executor being sued for his testator's debt, pleads that he had no goods in his hands at the day on which the writ was sued out. Bar to common intendment, is a general bar, which commonly disables the plaintiff's declaration. Bar temporary is such as is good for the present, but may afterwards fail; and bar perpetual is that which overthrows the plaintiff's action for ever. In personal actions, once barred, and ever so, is the general rule, but it is intended, where a bar is to the right of the cause, not where a wrong action is brought.

BAR, in heraldry, an ordinary in form of the fels, but much less. It differs from the fels only in its narrowness, and in this, that the bar may be placed in any part of the field, whereas the fels is confined to a single place. See plate XXVI. fig. 3.

Bar-gemel, that is a double bar, called by the French jamelles, and by the Latin writers, jugaria jecicole and jujfrica bigges, is a diminutive of the fels. See plate XXVI. fig. 4. and the article FEZ.

BAR, in the manege, the highest part of that place of a horse's mouth, situated between the grinders and tushe's; so that the part of the mouth, which lies under, and at the side of the bars, retains the name of the gum. A horse with sensitive bars has a fine light mouth, with an even and firm appui. See APPUI.

A horse with round hard bars must have a bitt that will rouze him, that is, one that does not bend, to give room to the tongue in the middle. These are very desperate bars, which have been broke and eustrized, and by that means become indissoluble. A horse with a fine mouth has his bars sharp, and edged like those of a barbyary horse.

BAR, in music is drawn perpendicular-ly across the lines of a piece of music, including between each two, a certain quantity or measure of time, which is various as the time of the music is either triple or common. In common time, between each two bars is included the measure of four crotchets; in triple, three. The principal use of bars is to regulate the beating of time, in a concert. See TIME and MEASURE.

BAR, in hydrography, denotes a bank of sand, or other matter, whereby the mouth of a river is in a manner choked up. The term bar is also used for the strong beam, wherewith the entrance of an harbour is secured: this is more commonly called boom.

BAR, BARRA, in commerce. See BARRA.

BAR, or BAR-LE-DUC, in geography, a dutchy belonging to France, lying north west of Lorrain, on both sides the river Maefe, whereof Bar-le-duc is the principal town: east longitude 5° 15', and north latitude 48° 40'.

BAR is also a town of Poland; situated in 28° east longitude, and 48° 20' north latitude.

BAR is also the name of two towns in France, the one in Champaign, upon the Aube, and the other in Burgundy, upon the Seine.

BARABINSKOI, a country of Tartary, tributary to the Muscovites.

BAR-MASTER, among miners, the person who keeps the gage, or diish, for measuring the ore.

BAR-SHOT. See the article SHOT.

BARACKS, or BARRACKS. See the article BARRACKS.

BARACOA, a town on the north-eaft part of the island of Cuba in north America, in 76° west long. and 21° north lat.

BARALIPTON, among logicians, a term denoting the first indirect mode of the first figure of syllogism. A syllogism in baralipon, is when the two first propositions are general, and the third particular, the middle term being the subject in the first proposition, and the predicate in the second. Thus:

Every evil ought to be feared;
Every violent passion is an evil;
Therefore something that ought to be feared is a violent passion.

BARALLOT'S, bazalotti, in church-history, a sort of heretics at Bologna in Italy, who had all things in common, even their wives and children.

Their facility in complying with all manner of debauchery, made them get the name of licenters, compliers.

BARANCA, a port-town of Terra Fir-
BARANGI, officers among the Greeks of the lower Empire. Cujas calls them in Latin præfides, and others give them the name of fecurigeri. It was their business to keep the keys of the city-gates, where the emperor resided. Codenus, and others believe they were Englishmen, and that they came from an island called Thule.

BARANWÄHR, a town of lowel: BARATHRUM, in antiquity, a deep dark not instituted in their language, manners and customs, BARBACON, or BARBA-JOVIS, BARB, keep the keys of the city-gates, in Latin praefides, and others, give them the name of securigeri. It was their business to keep the keys of the city-gates, where the emperor resided. Codenus, and others believe they were Englishmen, and that they came from an island called Thule.

BARBARISM, in a general sense, a rude-ness of language or behaviour. BARBARISM, in grammar, an offence against the purity of style or language; or an ungrammatical way of speaking or writing, or contrary to the true idiom of any particular language.

BARBARIAN, a name given by the ancient Greeks and Romans, to all who were not of their own country, or were not instituted in their language, manners and customs.

In this sense the word signified with them no more than foreigner, not signifying, as among us, a wild, rude, or uncivilized person.

BARBARIISM, in a general sense, a rudeness of language or behaviour. BARBARISM, in grammar, an offence against the purity of style or language; or an ungrammatical way of speaking or writing, or contrary to the true idiom of any particular language.

BARBARY, a large tract of Africa, extending along the Mediterranean, from 2° west longitude to 30° east longitude, that is, from the river Mulvia, which separates it from Morocco to Egypt. It comprehends the countries of Algiers, Tunis, Tripoli, and Barca.

BARBARY-COW. See VACCABARBARICA. BARBASOTE, a sea-port of Africa in the kingdom of Fez, at a little distance from Ceuta. See the article CEUTA.

BARBATUS PISCIS, the bearded fish, the name of the fish with the finels with four cirri.

BARBE, in commerce, a barbary horse, greatly esteemed for its beauty, strength, and swiftness. Barbes are commonly of a slim shape, and have very thin legs; they retain their vigour to the last, and are therefore much prized for stallions. They are used both for the saddle and the coach. It is reported that they will out-run an ostrich, and that some of them are sold for a thousand ducats, or one hundred camels; they are fed with camel's milk sparingly, and their genealogy is carefully preserved.

BARBE, in the military art, to fire in barbe, means to fire the cannon over the parapet, instead of firing through the
embrasures; in which case the parapet must not be above three feet and a half high.

Barbe, or Barbte, is an old word, denoting the armour of the horses of the antient knights and soldiers, who were accoumted at all points. It is said to be an armour of iron and leather, where-with the neck, breast and shoulders of the horse were covered.

Barbe-robert, in cookery, a particular way of dressing hog's ears.

Barbe, in geography, a town of new Biscay in Mexico; situated in 110° west longitude, and 26° north latitude.

Barbed, in a general sense, bearded Barcalon, has in his department every article Barban, or Barbacan. See the article Barbacan.

Barbel, or Barbel, in ichthyology, a species of cyprinus, with the upper jaw longish, four cirri or beards, and seven bones in the pinna ani.

Barbelicota, in church-history, a feft of grofties, who affirmed that an immortal Eon had commerce with a virgin called Barbelath, to whom he granted successively the gift of prophecy, old philosophers, and eternal life. Their ceremonies were not less abominable than their doctrine absurd.

Barber, one who makes a trade of shaving, or trimming, the beards of other men, for money.

Barberino, a town of Tufcany in Italy, situated upon the river Siera, in 11° east longitude, and 44° 5' north lat.

Barbery, berberis, in botany. See the article Berberis.

Barbet, in zoology, a small kind of worm which feeds on the pucers: it is so called from it being covered with tufts of filaments.

Barbicani, or Barbacan. See the article Barbacan.

Barble, or Barbel. See Berbel.

Barbles, or Barbs, in farriery, the knots or superfluous fleeth, that grow up in the channels of a horse's mouth, that is, in the intervals that separate the bars, and lie under the tongue.

Barbotine, a seed called semenfaultonicum, & semen contra vermes; in English, worm-feed. See Worm-seed.
BAR

BARDANA, BURDOCK, in botany. See the article BURDOCK.

BARDED, in heraldy, the same with compassioned.

BARDELLE, in the manage, a saddle made in the form of a great saddle, but only of cloth stuffed with straw, and tied tight down with packthread, without either leather, wood, or iron. In Italy they trot their colts with such saddles.

BARDESANISTS, in church-history, Christian heretics of the second century, who maintained that the devil was a self-existent independent being; that Jesus Christ was not born of a woman, but brought his body with him from heaven; and denied the resurrection of the body.

BARDEWICK, a town of lower Saxony in Germany, about seven miles north of Luneburg.

It is subject to the elector of Hanover, and situated in 50° 6' east longitude, and 53° 46' north latitude.

BARDS, BARDI. See the article BARD.

Barbs, in the art of cookery, broad slices of bacon, with which pullets, pheasants, pigeons, &c. are sometimes covered, before they are roasted, baked, or otherwise dressed.

BARDT, a port-town of Pomerania in Germany; it is subject to Sweden, and situated in 15° 20' east longitude, and 56° 20' north latitude.

BARE, in a general sense, denotes something not clothed or covered: thus, we say, the bare-footed Carmelites, trinitarians, &c. See CARMELITES.

BARETH, a town of Franconia in Germany, &c. in the margraviate of Culbach; east longitude 12° 20', and north lat. 50°.

BARENTON, a town of lower Normandy in France.

BAR-TEE, a fee of twenty-pence which every prisoner acquitted of felony, pays to the gaoler.

BARGE, in naval affairs, a boat of state and pleasure, adorned with various ornaments, having hales and tilts, and sails covered with cushions and carpets, and benches for many oars; as the lord-mayor's barge, a company's barge, an admiral's barge, &c. It is also the name of a flat-bottomed vessel employed for carrying goods in a navigable river, as those upon the river Thames, called woot-country barges.

BARGE, in zoology, the same with the agocephalus, or gos-wit.

BARGE-COUPLES, in architecture, a beam morticed into another, to strengthen the building.

BARGE-COURSE, with bricklayers, a term used for that part of the tiling which projects over without the principal rafter, in all sorts of buildings, where there is either a gable or a kirkin-head. See the article GABLE and H. 5.

BARGE-MONT, a town of Provence in France, in the diocese of Frejus.

BARBILLA, a kind of Indian potato, used in the fish trade.

BARDING of trees, in agriculture, the taking away some of the earth above the root; that the winter-rain and snow-water may penetrate further into the roots: This is frequently practised in autumn.
BARJOLS, a town of Provence in France, situated in 4° 50' east longitude, and 43° 36' north latitude.

BARIPICINI, or Souns baripicini, in music, signify in general, any low, grave, or deep sound.

BARK, orfex, in the anatomy of plants, the exterior part of trees, corresponding to the skin of an animal. The ancients wrote their books on bark, especially of the ash and lime-tree, not on the exterior, but on the inner and finer bark, called phyllyra.

There are a great many kinds of barks, in use in the several arts: Some in agriculture, and in tanning leather, as the oak-bark; some in phyric, as the quinquina, or Jesuit's bark, mace, &c. others in dying, as the bark of alder and walnut-trees; others in spicery, as cinnamon, cafia lignea, &c. and others for divers ues, as the bark of the cork-tree, linden-tree and birch-tree. In the East-Indies, they spin the bark of a certain tree into a stuff. They likewise mix it with silk in manufacturing the stuffs which go under the names of millae, cherques-melles and fatalonges.

BARK, or JESUIT'S BARK, is a name given by way of eminence to the quinquina. See the article Quinquina.

BARK, in navigation, a little vessel with two or three triangular sails; but, according to Guillet, it is a vessel with three masts, viz. a main-mast, fore-mast, and mizen-mast. It carries about two hundred tons.

Bark longue, or Barca longa, a small low sharp-built, but very long vessel without a deck. It goes with sails and oars, and is very common in Spain.

BARKAN, a town of Hungary, remarkable for two victories, which the Christians obtained there over the Turks, the one in 1664, and the other in 1683.

BARKARY, a tan-houie, or place for keeping bark.

BARK-BINDING, a distemper incident to trees, cured by flicting the bark, or cutting along the grain.

BARK-GALLING, is when trees are galled with thorns, &c. It is cured by binding clay on the galled places.

BARKHAMSTEAD, a market-town in the west part of Hertfordshire, about eighteen miles west of Hertford, in 47° west longitude, and 51° 40' north latitude.

BARKING, a fishing town of Essex, situated on the river Thames, about eight miles east of London.

BARKING OF TREES, the peeling off the rind or bark.

This must be done, in our climate, in the month of May, because at that time, the sap of the tree separates the bark from the wood. It would be very difficult to perform it at any other time of the year, unless the season was extremely wet and rainy, for heat and dryness are a very great hindrance to it.

BARKLEY, a market-town in Gloucestershire, about fifteen miles south-west of Gloucester: west longitude 2° 35', and north latitude 51° 40'.

BARKWAY, a market-town of Hertfordshire, under the meridian of London, and fifteen miles south of Cambridge.

BARLEDUC, the capital of the duchy of Bar. See the article Bar.

BARLEMONT, a town of Hainault, in the French Netherlands; situated on the river Sambre, about fifteen miles south of Mons: east longitude 3° 40', and north latitude 50° 10'.

BARLERIA, a genus of plants of the didymenia-aegiepernna class, the flower of which is monopetalous, and the fruit a capsule of a quadrangular figure, formed of two valves, with one cell, containing several plane orbiculated and imbricated seeds.

BARLETTA, a port-town of Barri, in the kingdom of Naples, situated on the gulf of Venice, twenty-two miles west of Barri, in 17° east long., and 41° north lat.

BARLEY, Hordeum, in botany. See the article Hordeum.

The reason for sowing barley differs according to the nature of the soil and situation of the place; some sowing in March, others in April, and some in May, yet with good success.

The principal use of barley is for making beer: but besides this, it is of considerable use in medicine, on account of its cooling and astringive qualities. Hence, a decoction of barley, especially if a little nitre be dissolved in it, is greatly recommended in flow fevers.

BARLEY-CORN, the leaf of our long-measures, being the third of an inch.

BARLOVENTO ISLES, the same with the Caribbees.

BARM, the same with yeast. See Yeast.

BARNABITES, a religious order, founded in the sixteenth century, by three Italian gentlemen, who had been advised by a famous preacher of those days to read carefully the epistles of St. Paul. Hence they were called clerks of St. Paul, and barnabites, because they performed their first exercise in a church of St. Barnabas at Milan. Their habit is black, and their
their office is to instruct, catechize, and serve in mission.

BARNACLE, bernicia, in ornithology, a species of goose with a black beak, which is much shorter than in the common goose.

BARNACLE is also a species of shell-fifth, otherwise called concha anatifera. See the article CONCHA.

BARNACLES, in farriery, an instrument composed of two branches joined at one end with a hinge, to put upon horses nores when they will not stand quietly to be shaved, blooded, or dressed.

BARNARD-Castle, a town of the bishopric of Durham, in 5° 3' west longitude, and 54° 36' north latitude.

BARNET, a market-town of Middlesex (part of it in Hertfordshire) ten miles north west of London, in 10° west longitude and 51° 42' north latitude.

BARNFIARD, a bird about the BARNEWELDT, an island in the Thames, thirty miles north of Exeter: it is perhaps the best of its kind, and much shorter in diameter hermetically sealed at A, and open at B, to be filled with quicksilver well defecated and purged of its air. The finger then being placed on the open end in immediate contact with the mercury, so as to exclude every particle of air, the tube is inverted and carefully immersed, with the finger on the open end, into C D a bafon of the same prepared mercury; then upon removing the finger, the mercury in the bafon will join that in the tube, and the said column of mercury in the tube will be seen immediately to subside, as in the figure; G H represents the surface of the mercury in the tube, and EF that of the mercury in the bafon.

This instrument is perhaps the best hitherto contrived for measuring the air's gravity; which that it may do to the greatest perfection, it is necessary that there be a nonius applied to the index of a graduated plate, to measure more accurately the rise and fall of the mercury. A nonius, so called from the name of its inventor, is a small plate so contrived as to slide by a graduated plate in such a manner, that its index may be always set on one part to the surface of the mercury, and on the other end pointing to the division in the scale of inches corresponding thereto. It is divided into ten equal parts, which together are equal to eleven of the divisions of the scale, that is eleven tenths of an inch; and consequently each small division of the nonius is equal to 1.1, two of them to 2.2, three of them to 3.3 of an inch, and so on. Whence it is easy to observe, that if the index points between any two divisions of the scale, we need only look back to see what division of the nonius coincides with a division of the scale, and that will shew the number of tenths of a tenth; which is a great degree of exactness.

The mercury standing at a less height, the nearer it is carried to the top of the atmosphere, renders the barometer useful in determining the height of mountains, and finding out the different elevation of one place above another. Accordingly Dr. Halley, in the philosophical transactions, shews how many feet each inch in the defcent of the mercury answers to, as

L 12
it is conveyed to any elevated place. See the article Atmosphere.

But the principal use of it is to estimate the gravity of the air at different times, in order to foresee the alterations of the weather; for which purpose the following most remarkable phenomena, relating to the rising and falling of the mercury, are said to be carefully observed. 1. The rising of mercury presages in general a fair-weather, and its falling a foul weather. 2. In very hot weather, the falling of mercury forebodes thunder. 3. In winter, the rising presages frost, but in a continued frost, it presages snow. 4. When foul weather happens soon after the falling of the mercury, expect but little of it, and so on the contrary of fair weather. 5. But in this barometer either when the mercury continues settled motion of the mercury denotes uncertainty of the weather, the length of its column being one, though of contrary, of fair weather to filled with mercury from hermetically sealed at E, and from D to G, as many times farther as this part of the tube is less than that at E. But it often happens, that some parts of the mercury break off from the rest in the leg B C, and are left behind.

The diagonal barometer is represented by ABC, wherein the mercury, instead of rising from B to D (supposing that space to correspond to the scale of variation in a straight tube) will rise from B to A, for it will always stand at the same perpendicular height, whatever be the inclination of the tube, because fluids press only according to their perpendicular altitude. But the tube A B must not be too much inclined, lest the mercury break in it, as in the former.

The volume-barometer will be understood from (n. 4. ibid.) where ABCD is a tube filled with mercury from a to E, a being an iron ball swimming on the surface of the mercury: this, as it subsides on the surface of the mercury, draws round the little wheel m k, to the circumference of which it is fixed by means of the firing a c. This wheel carries the index PQ, which points to the graduated edge of the circle KL, and by its motion, shows the most minute variations of the mercury. When the ball a is raised by the mercury on which it swims, the index is drawn on the contrary way by a lesser ball b, which hangs on the other side of the wheel. The friction in this machine, unless it be made with great accuracy indeed, renders it useless.

The pendent barometer consists of a small conical tube (n. 5.) hermetically sealed at A, and filled with mercury from C to D, and empty from thence to A. Now supposing the gravity of the air increased, it will raise the mercury higher in the tube, and so force it into a narrower part; by which means the column becoming longer, its perpendicular pressure upon the air below will be proportionably increased. On the contrary, when the air becomes lighter, the mercury descends into a larger part of the tube, and by that means has the length of its column proportionately contracted. But in this barometer either the tube must be very small, in which case the friction of the mercury against the sides will hinder it from rising and falling freely; or when the tube is large, the air will get in, and be apt to divide the column in several places.
These are the principal contrivances hitherto invented for inlargeing the scale of variation in simple mercurial barometers. There are other inventions of compound barometers, viz. such as are made of mercury and water; or other liquors, as the marine barometer and flatical barometer; but they are so difficult to make, so faulty when made, and so troublesome to use, that we shall not describe them. However, that the reader may have an idea of two of the best, we shall present him with a description of that of Des Cartes, and of that which owes its invention to Mr. Rowning.

That of Des Cartes is a bent tube ABC, (ibid. n° 6.) hermetically sealed at A, filled with water from F to D, from D to E with mercury, and empty from thence to the top. Then, upon the mercury's rising, supposing from E to M, and falling as much at D, the surface of the water at F would sink so many times farther than the surface of the mercury at D as the tube CG was smaller than GH. But the water here is liable to evaporate.

A B C (ibid. n° 7.) represents Mr. Rowning's, and is a compound tube sealed at A, and open at C, empty from A to D, filled with mercury, from thence to B, and from thence to E with water. Let GBH be an horizontal line, then it is plain, from the nature of the syphon, that all the compound fluid contained in the part from H to G, must ever be in equilibrio with itself, be the weight of the air what it will, because the pressure at H and G must be equal. Whence it is evident, that the column of mercury DH is in equilibrio with the column of water GE, and a column of air of the same base conjointly, and will therefore vary with the sum of the variations of each of thefe. The great property of this barometer is, that the scale of variation may be increased ad infinitum.

BARON, a degree of nobility next below a viscount, and above a baronet. It is probable that formerly all those were barons, who had lordships with courts baron, and soon after the conquest all such at the house of peers; but they being very numerous, it grew an order and custom, that none should fit but such as the king thought fit to call up by writ, which ran pro hac vice tantum. This state of nobility being very precocious, they at length obtained of the king letters patent, and these were called barons by patent, or creation, the only way now in use of making barons, unless when the son of a lord, in his ancestor's lifetime, is summoned by writ. On solemn occasions, barons wear a coronet, represented in plate XXVI. fig. 2.

BARON by tenure, one who held certain territories of the king, who still retained the tenure in chief to himself.

BARONS of the exchequer, the four judges to whom the administration of justice is committed, in causes between the king and his subjects, relating to matters concerning the revenue. They were formerly barons of the realm, but of late are generally persons learned in the laws. Their office is also to look into the accounts of the king, for which reason they have auditors under them. See AUDITOR.

BARONS of the cinque-ports are members of the house of commons, elected by the five ports, two for each port. See the article CINQUE-PORTS.

BARON AND FEME, in our law, a term used for the husband in relation to his wife, who is called feme; and they are deemed but one person, so that a wife cannot be witness for or against her husband, nor he for or against his wife, except in cases of high treason.

BARON AND FEME, in heraldry, is when the coats of arms of a man and his wife are borne per pale in the same escutcheon, the man's being always on the dexter side, and the woman's on the sinister; but here the woman is supposed not an heirress, for then her coat must be borne by the husband on an escutcheon of pretence. See PAL and ESCUTCHEON of pretence.

Prender de BARON. See PRENDER.

BARONET, a modern degree of honour, next to a baron, created by king James I. in order to propagate a plantation in Ulster, in Ireland, for which purpose each of them was to maintain thirty soldiers in Ireland, for three years, after the rate of eight pence felony per day to each soldier. The honour is hereditary, and they have the precedence of all knights, except those of the garter, bannerets, and privy-counsellors. They are styled baronets in all writs, and the addition of Sir is attributed to them, as the title of Lady is to their wives. No honour is to be created between barons and baronets.

BARONY, the honour and territory which gives title to a baron, whether he be a layman or a bishop. See BARON.

According to Bracon, a barony is a right indivisible; wherefore, if an inheritance
The baronies belonging to bishops are by some called regalia, as being held solely on the king's liberality. In some cases it is said a barony may be alienated or intailed, and the honour passes accordingly. A certain number of knights fees antiently made a barony.

BAROMETRE, the same with barometer. See the article BAROMETER.

BARR, or BAR. See the article BAR.

BARR-DICE, false dice, so contrived as not readily to turn up certain sides.

BARRA, in commerce, a long measure used in Portugal and some parts of Spain, to measure woollen cloths, linen cloths, and jerges. There are three sorts, the barra of Valencia, 13 of which make 12 1/2 yards English measure; the barra of Castile, 7 of which make 6 1/2 yards; and the barra of Aragon, 3 of which make 2 1/2 yards English.

BARRA, in geography, one of the Scotch western islands, situated in 10° west lon. and 56° 40' north latitude. It is also the name of a kingdom in Africa.

BARRACAN, in commerce, a sort of stuff, not diapered, something like camblet, but of a coarser grain. It is used to make cloaks, furtouts, and such other garments, to keep off the rain.

BARRACKS, or BARACKS, places for soldiers to lodge in, especially in garrisons. Dr. Pringle observes, that damp barracks are highly injurious to the health of those lodged in them; and, therefore ought to be altogether rejected, or remedied by some means or other.

BARRATOR, in law, a common mover or maintainer of suits and quarrels, either in courts or elsewhere in the country. A man cannot be adjudged a barrator for bringing any number of suits in his own right, though they are vexatious. Barrators are punished by fine and imprisonment.

BARRATRY, in law, signifies the fo­menting quarrels and law-suits. See the preceding article.

BARRATRY, in a ship-master, is his cheating the owners. If goods delivered on ship-board, are embezzled, all the mariners ought to contribute to the satisfaction of the party that lost his goods, by the maritime law; and the caule is to be tried in the admiralty. In a case, where a ship was injured against the barratry of the master, &c. and the jury found that the ship was lost by the fraud and negligence of the master, the court agreed that the fraud was barratry, the not named in the covenant; but that negligence was not.

BARRE, or BAR. See the article BAR.

BARREaux-FORT, a fortress of Savoy, having Montmelián on the north, and Grenoble on the south; situated in 5° 30' east lon. and 45° north lat.

BARREL, in commerce, a round vessel, extended more in length than in breadth, made of wood, in form of a little tun. See the article TUN. It serves for holding several sorts of merchandise.

Barrel is also a measure of liquids. The English barrel, wine-measure, contains the eighth part of a tun, the fourth part of a pipe and one half of a hoghead; that is to say, it contains thirty-one gallons and a half: a barrel, beer-measure, contains thirty-fix gallons: and ale-measure, thirty-two gallons. The barrel of beer, vinegar, or liquor preparing for vinegar, ought to contain thirty-four gallons, according to the standard of the ale quart.

BARREL also denotes a certain weight of several merchandizes, which differs according to the several commodities: a barrel of eel-butter weighs one hundred and six pounds, and of suffolk butter, two hundred and fifty-six pounds. The barrel of herrings ought to contain thirty-two gallons wine-measure, which amount to about twenty-eight gallons old standard, containing about a thousand herrings. The barrel of salmon must contain forty-two gallons. The barrel of eels the same. The barrel of soap must weigh two hundred and fifty-six pounds.

BARREL, in mechanics, a term given by watch-makers to the cylinder about which the spring is wound; and by gun-smiths to the cylindrical tube of a gun, pistol, &c. through which the ball is discharged.

BARREL, in anatomy, a pretty large cavity behind the tympanum of the ear, about four or five lines deep, and five or six wide. It is lined with a fine membrane, on which there are several veins and arteries. In this cavity are four small solid bones, not covered with a perioleum, as the rest of the bones of the body are.

Thundering BARRELS, in the military art, are filled with bombs, grenades, and other
Other fire-works, to be rolled down a breach.

BARRELING, the putting certain commodities into barrels: thus we say, to barrel salmon, herring, &c. See the articles SALMON and HERRING.

BARRENNESS, the fame with sterility. See the article STERILITY.

BARRI, a city of the kingdom of Naples, and capital of a province of the fame, name, situated on the gulf of Venice, in 17° 40' east lon. and 40° 40' north lat.

BARRICADE, barricada, a warlike defence, consisting of empty barrels and fuch like vessels, filled with earth, stones, carts, trees cut down, against an enemy's fhot, or assault; but generally trees cut with fix faces, which are crossed with bat­toons as long as a half-pike, bound about with iron at the feet.

BARRIER, in fortification, a kind of fence made at a paflage, retreatment, &c. to flop up the entry thereof, and is composed of great flakes, about four or five feet high, placed at the distance of eight or ten feet from one another, with tranfverses, or over-thwart rafters, to flop either horse or foot, that would enter or ruft in with violence: in the middle is a moveable bar of wood, that opens and fluts at pleasure. A barrier is commonly fet up in a void space, between the citadel and the town, in half-moons, &c.

BARRIER has been alfo used to signify a martial exercife of armed men, fighting together without swords, within rails or bars, which inclofed them.

BARKING a vein, in farriery, an operation performed upon the veins of a horse's legs, and other parts of his body, with intent to flop the course, and leffen the quantity of the malignant humours that prevail there.

BARRISTER, in common law, a perfon qualified, and impowered to plead and defend the caufe of clients, in the courts of justice. They are of two farts, the outward, or outer-barristers, who, by their long study in, and knowledge of the law, which must be for a term of seven years at leat, are cailed to public practice, and always plead without the bar.

The inner-barristers are thofe who, because they are either attorney, solicitor, fer­jeant, or council to the king, are allowed, out of repect, the privilege of pleading within the bar, but at the halls, and some other inferior courts, all barristers are admitted within the bar.

Barristers, in the English laws, amount to the fame with licentiates and advocates in other countries, and courts, where the civil, &c. laws obtain.

BARROW, in the salt-works, wicker cafes, almost in the shape of a sugar-loaf, wherein the salt is put to drain.

BARRULET, in heraldry, the fourth part of the bar, or the one half of the closet: an usual bearing in coat-armour.

BARRULY, in heraldry, is when the field is divided bar-ways, that is across from side to side, into several parts. See plate XXVI. fig. 5.

BARRY, in heraldry, is when an escutcheon is divided bar-ways, that is across from side to side, into an even number of partitions, consisting of two or more tinctures, interchangeably disposed: it is to be expreffed in the blazon by the word bARRY, and the number of pieces must be specified; but if the divisions be odd, the field must be first named, and the num­ber of bars expreffed.

BARRY-BENDY is when an escutcheon is divided evenly, bar and bend-ways, by lines drawn tranferfe and diagonal, in­terchangeably disposed: it is to be expreffed in the blazon by the word barry, and the number of pieces muft be specified; but if the divisions be odd, the field must be first named, and the num­ber of bars expreffed.

BARSANIANS, in church-history, certain heretics, who maintained the errors of the gajanites, and made their sacrifices confift in taking wheat flour to their mouth, on the top of their finger.

BARSE, a name sometimes given to the pear.

BARTERING, in commerce, the exchanging of one commodity for another, or the trucking wares for wares, among merchants.

Bartering was the original and natural way of commerce, precedent to buying; there being no buying till money was invented, though, in exchanging, both parties are buyers and fellers. The only difficulty in this way of dealing lies in the due proportioning the commodities to be exchanged, for as that neither party can­tain any loss.

BARTHOLOMEW, or ST. BARTHO­LOMEW, one of the Caribbee islands, situ­uated in 65° 5' west lon. and 18° 6' north latitude.

BAKTON, a market-town in Lincoln­shire, situated on the fouthern shore of the Humber, thirty miles south-east of York, in 57° 15' west lon. and 4° 40' north lat.

BARTON is alfo used, in the west of Eng­land, for the demeine lands of a manor; a
also for the manor-house; and in some parts for out-houses, &c.

BAR T SIA, in botany, a genus of the di-
dynamia-angiospernia class of plants, whole flower consists of one petal, hav-
ing the upper lip longest; the seeds are numerous, small, angular, and inclosed in capsules.

BARUA, a city of Abyssinia, in Africa, the capital of the kingdom of Barnagaffa.

BAR UTH, an Indian race, containing seventeen gants: it ought to weigh about three pounds and an half, and is a proper base for ionic and composite columns. See BASE.

BARULES, BASSO, a kind of marble, of a very hard, yellowish black, of a special quality, and is generally used for the base of the attic or atticurgic column, which bears another, and is a proper base for ionic and composite columns. See BASE, Doric, &c.

BASE RUDEN'TE, that which has its toes cut like cables.

BASE, in fortification, the exterior side of the polygon, or that imaginary line which is drawn from the flanked angle of a bastion, to the angle opposite to it.

BASE, in gunnery, the least sort of ordnance, the diameter of whose bore is 1 1/2 inch, weight 200 pound, length 4 feet, load 5 pound, shot 1 1/2 pound wt. and diameter 1 1/2 inch.

BASE LINE, in perspective, the common section of a picture, and the geometrical plane.

BASE, in optics. See FOCUS.

BASE, or BASS, in music. See BASE.

BASE, in law. Base estate, such as base tenants have in their hands. Base co-

fides, but more properly of the lowest side, or that which is parallel to the horizon. In rectangled triangles, the base is properly that side opposite to the right angle. See the article HYPOTHENUSE.

BASE of a solid figure, the lowest side, or that on which it stands; and if the solid has two opposite parallel plane sides, and one of them is the base; then the other is called the base also.

BASE of a conic section, a right line in the hyperbola and parabola, arising from the common intersection of the secant plane, and the base of the cone.

Alter base. See the article ALTERN.

BASE, in architecture, is used for any body which bears another, but particularly for the lower part of a column and pedestal. The base of a column is that part between the shaft and the pedestal, if there be any pedestal; or if there be none, between the shaft and the plinth, or zocle. The base is different in the different orders. The tu Rican base is the most simple of all others, having only a single tore. The doric base has an astragal more than the tu Rican, and that was introduced by the moderns. The ionic base has a large tore over two slender sockets, separated by two astragals, according to Vitruvius. The corinthian base has two tores, two sockets, and two astragals. The composite base has an astragal less than the corinthian. The attic or atticurgic base, so called, because it was introduced by the Athenians, has two tores and a scotia, and is a proper base for ionic and composite columns. See IONIC, DORIC, &c.

BASE, or BASS, in music. See BASE.

BASE, in law. Base estate, such as base tenants have in their hands.
but three times a week, and then but once a day: they work all together at certain hours of the day: their habit is nearly like that of the benefices, and they wear a small beard like the fathers of the mission.

BASILARE os, in anatomy, the same with os sphenoideas. See SPHENOIDES.

BASILEUS, or BASILISCUS, in ornithology, a name sometimes given to the regulus cristatus, or golden-crowned wren.

BASILIC, in antient architecture, a term used for a large hall, or public place, with ites, porticos, galleries, tribunals, &c. where princes sat and administered justice in person. But the name has since been transferred, and is now applied to such churches, temples, &c. which by their grandeur as far surpass other churches as princes palaces do private houses: as also to certain spacious halls in princes courts, where the people hold their assemblies: and to such stately buildings as the Palais at Paris, and the Royal-exchange at London, where merchants meet and converse.

BASILICA, in anatomy, the interior branch of the axillary vein, running the whole length of the arm. See the articles AXILLARY and VEIN.

BASILICATE, a province of the kingdom of Naples, having the Terra di Barri on the north, and the province of Calabria on the south.

BASILICI, a denomination given in the greek empire to those who carried the emperor's orders and commands.

BASILICON, in pharmacy, an epithet for a great many compositions to be found in the antient medicinal writers: but it more particularly denotes an official ointment, composed of wax, resin, pitch, and oil of olives, from thence called tetrapharmacum.

It is much used to incarnate wounds; though of late our surgeons begin to substitute, for such intentions, dressings that are not liable to produce fungoities. See the article WOUND.

BASILICS, basilica, a body of the roman laws, translated into greek. The basilics comprehend the institutes, digestes, code, novels, and some effects of Justinian and other emperors.

BASILICUS, in astronomy, cor leonis, a fixed star of the first magnitude in the constellation leo. See the article LEO.

BASILIDIANS, in church-history, a branch of gnostiics, who maintained that Christ's...
Christ's body was only a phantom, and that Simon the ephorean suffered in his stead.

BASILIGOROD, a city of the Russian empire, in Muscovitish Tartary, situated upon the banks of the Wolga.

BASILISC, or BASSILISK. See the article BASILISK.

BASILISCUS, in ornithology. See the article BASILEUS.

BASILISK, *basiliscus*, a fabulous kind of serpent, said to be produced from a cock's egg, hatched by a serpent, and supposed to kill by its breath or fight only.

BASILISK, in military affairs, a large piece of ordnance, being a forty-eight-pounder, and weighing about seven thousand two hundred pounds. Those of the French were ten feet long, and those of the Dutch fifteen. The French do not cast any more of that calibre.

BASINGSTOKE, a market-town of Hampshire, about sixteen miles north-east of Winchester, in 1° 15' west long., and 51° 20' north lat.

BASILOGLOSSUS, in anatomy, a muscle arising from the bafe of the os hyoides, and running along the middle of the tongue towards its apex: with the affistance of the ceratoglossus, it draws the tongue backward, and makes it shorter.

BASIS, BASE, in geometry. See Base.

Basis, among physicians, denotes the principal ingredients in compound medicines.

BASKET, a machine made of twigs interwoven together, in order to hold fruit, earth, &c. It denotes an uncertain quantity, as a basket of medlars is two bushels, of asa foxtida from twenty to fifty pound weight.

BASKETS OF EARTH, in the military art, called by the French *corbeilles*, are small baskets used in sieges, on the parapet of a trench, being filled with earth. They are about a foot and a half high, about a foot and a half diameter at the top, and eight or ten inches at bottom, so that being set together, there is a sort of embrasures left at their bottoms, through which the soldiers fire, without exposing themselves.

BASKET-FISH, a kind of star-fish caught in the seas of north America. See the article STAR-FISH.

BASKET-SALT, that made from salt-springs, being purer, whiter, and composed of finer grains than the common brine-salt.

BASKET-TERREUR, a tenure of lands by the service of making the king's baskets.

BASKIRI, a country of muscovitish Tartary, bounded on the north by the Tartars of Tumen, on the east by Barabinskoi, on the south by the mountain Sorora, and on the west by the duchy of Bulgaria.

BASON, *pelvis*, in anatomy. See the article PELVIS.

BASON, in hydraulics, a reservoir of water, used for various purposes: thus we say, the bason of a jet d'eau, the bason of a fountain, and likewise the bason of a port or harbour. See the article Dock.

BASON OF A BATH, among the antients, that place into which they descended by steps, in order to bathe. Vitruvius calls it *labrum*. See the article LABRUM.

The French architects distinguishing basons into different kinds, according to their figure or use: as *bason a rigole*, or trenched basons; *bason en coquille*, in the form of a shell; and *basons de partage*, distributing basons.

BASON, in Jewish antiquities, the laver of the tabernacle, made of the brafs looking-glasses belonging to those devout women that watched and stood in the sanctuary, before the door of the tabernacle.

BASON, in mechanics, a term used by glaziers, to designate a dish of copper, iron, &c., which they grind convex glases, as concave ones are formed on spheres: and by hatters for a round iron mould, in which they form the matter of their hats, and also for a leaden one for the brims of hats, having an aperture in the middle, of a diameter sufficient for the largest block to go through.

BASONS OF A BALANCE, the two scales or dishes fastened to the extremities of the fringes, the one to hold the weight, and the other the thing to be weighed.

Sale by the BASON, at Amsterdam, is a public sale made by authority, over which preides an officer, appointed by the magistrates. It is so called because, before the lots are delivered to the highest bidder, they commonly strike on a copper bason, to give notice that the lot is going to be adjudged.

BASQUE, or LABOUR, the south-west division of the province of Gascony, in France.

BASS, in music, that part of a concert which is most heard, which consists of the graver and deepest sounds, and which is played on the largest pipes or fringes of a common instrument, as of an organ, lute, &c. or on instruments larger than ordinary, for that purpose, as bas-viol, baffeons,
BASS [267] BASS

bafoons, bafs-hautboys, &c. The bafs is the principal part of a musical composition, and the foundation of harmony; for which reason it is a maxim among musicians, that when the bafs is good, the harmony is seldom bad.

Thorough-Bass is the harmony made by the bafs-viol, or theorboe, continuing to play both while the voices sing, and the other instruments perform their parts, and also filling up the intervals, when any of the other parts stop. It is played by cyphers marked over the notes, on the organ, spinet, harpsichord, &c. and frequently simply, and without cyphers, on the bafs-viol, and baffoon.

Counter-Bass is a second or double bafs, where there are several in the same concert.

Bass, in geography, an inaccessible rock in the Edinburgh frith. BASSAIM, or BACCCEIM, a port-town of the hither India, subject to the Portuguese, situated in 71° 5' east. and 19° 30' north latitude.

Basse, in ichthyology, a species of pearch, otherwise called lupus marinus, or the sea-wolf.

Basse, a town of French Flanders, upon the confines of Artois, situated in 3° 30' east longitude, and 50° 51' north latitude.

Bassemoin, a town of Gascony, in France.

Basset, a game at cards, said to have been invented by a noble Venetian, for which he was banished. The persons concerned in it are a dealer, or banker, his assistant, who supervises the laying cards, and the punter, or any one who plays against the banker.

Bassigny, the south-east division of the province of Champaign, in France. See the article CHAMPAIGN.

Basso, a musical instrument of the wind-fort, blown with a reed, furnished with eleven holes, and used as a bass in a concert of hautboys, flutes, &c.

To render this instrument more portable, it is divided into two parts, whence it is also called fagot. Its diameter at bottom is nine inches, and its holes are stopped like those of a large flute.

Bassora, a large city of Asia, situated below the confluence of the Tigris and Euphrates, in 35° 30' east longitude, and 30° 20' north lat.

Basso-Relievo, or Bass-relief, a piece of sculpture, where the figures or images do not protrude, but are flatly formed.

Whatever figures or representations are thus cut, stamped, or otherwise wrought, so that not the entire body, but only part of it is raised above the plane, are said to be done in relief, or relievo: and when that work is low, flat, and but a little raised, it is called low relief; when a piece of sculpture, a coin, or a medal, has its figure raised so as to be well distinguished, it is called bold, and we say its relief is strong.

Bass-viol, a musical instrument of the like form with that of a violin, but much larger. It is struck with a bow as that is, has the same number of strings, and has eight stops, which are subdivided into semi-stops: its sound is grave, and has a much nobler effect in a concert than that of the violin.

Bastard, a natural child, or one born of an unmarried woman. By the laws of England, a bastard is incapable of inheriting land, as heir to his father: nor can any one inherit land as heir to him, except the children of his own body; for by order of law, a bastard has no relation, of which it takes any notice, and he himself is accounted the first of his family. If a man marries a woman that is big with child by another, who afterwards dies when the parties are of age, and the child is born, if the wife continues in adultery, and has issue, it is a bastard in our law; but if a man hath issue by a woman, before marriage, and afterwards marries her, the first issue is a bastard, by our laws, but legitimate by the civil law. If a woman elope from her husband, and he be within the four seas, her issue shall not be a bastard by our laws, though by the special law it shall: and if the wife continues in adultery, and has issue, it is a bastard in our law. If the husband and wife contend to live separate, and have issue afterwards, it shall be accounted legitimate, because the access of the husband shall be presumed: but if the contrary be found, it shall be a bastard.

Bastard is also used diminutively, to denote the imperfection or less value of things:
things: thus we say, bastard-scarlet, bastard-fafton, &c.

**Bastardy**, a defect of birth objected to one born out of wedlock, and is general or special: general bastardy is a certificate from the bishop of the diocese, to the king's justices, after enquiry made, whether the party is a bastard or not, upon some question of inheritance. Bastardy special is a suit commenced in the king's courts, against a person that calls another bastard.

**Right of Bastardy**, in the French custom. The bastards of a king of France are princes, when owned; those of a prince, or nobleman, are gentlemen; and those of a gentleman, are only plebeians, and pay taxes accordingly. By the French laws, bastards cannot inherit before they are legitimated; nor have heirs, except their own children, begotten in wedlock: for want of these, their inheritance devolves on the king.

**Basterna**, a fort of vehicle, much the same with our chariot, used by the ancient Romans. It was a different carriage from the lefica, which it succeeded, inasmuch as the lefica was borne on men's shoulders, whereas this was drawn by beasts.

**Bastia**, the chief city of the island of Corfica. It is a good port, situated on the north-east part of the island, in 9° 40' east lon. and 42° 20' north lat.

**Bastile**, a castle for state prisoners in Paris, answering to the tower of London.

**Bastimentos**, small islands on the coast of Darien, in South America, lying a little to the eastward of Porto Bello.

**Bastion**, in the modern fortification, a huge mass of earth, faced usually with sods, sometimes with brick, and rarely with stone, standing out from a rampart, whereof it is a principal part, and is what, in the ancient fortification, was called a bulwark, *pars frontaculum*.

A bastion consists of two faces and two flanks; the faces include the angle of the bastion, and their union makes the outmost, or the salient angle, called also the angle of the bastion; and the union of the two faces to the two flanks makes the side-angles, called also the shoulders, or epaules; and the union of the two other ends of the flanks to the two curtains makes the angles of the flanks.

In regard to the bastion, the great rule is, that every part of it be seen, and defended from some other part: whence more angles are not sufficient, but flanks and faces are necessary. For the proportion of the faces, they are not to be less than twenty-four rhineland perches, nor more than thirty. The flanks of a bastion, in case they stand at the same angle under the line of defence, are so much the better the longer they be; whence they must stand at right angles to the line of defence: and the disposition of the flanks makes the principal part of fortification, as it is that on which the defence chiefly depends, and which hath introduced the various forms of fortifying. The angle of the bastion must be more than sixty degrees, otherwise it will be too small to give room for guns, and will either render the line of defence too long, or the flanks too short; so that it must be either a right angle, or some intermediate one between that and sixty degrees; for it is disputed, whether or not it should exceed a right angle. See the article *fort*.

**Solid Bastions** are those that have the void space within them filled up entirely, and raised of an equal height with the rampart.

**Void and hollow Bastions** are those that are only surrounded with a rampart and parapet, having the space within void and empty, where the ground is so low, that if the rampart be taken, no retreatment can be made in the center, but what will lie under the fire of the besiegers.

**Flat Bastion** is a bastion built in the middle of the curtain, when it is too long to be defended by the bastion at its extremes.

**Cut Bastion** is that whose point is cut off, and instead thereof has a re-entering angle, or an angle inwards with two points outwards, and is used, either when without such a contrivance the angle would be too acute, or when water or some other impediment hinders the carrying on the bastion to its full extent.

**Composed Bastion** is when two sides of the interior polygon are very unequal, which makes the gorges also unequal.

**Deformed Bastion** is when the irregularity of the lines and angles makes the bastion out of shape, as when it wants one of its demigorges, one side of the inferior polygon being too short.

**Demi Bastion** is composed of one face only, and but one flank, and a demi-gorge.

**Double Bastion** is that which is raised on the plane of another bastion.

**Regular Bastion** is that which has its true proportion of faces, flanks, and gorges.
Bastoñ de France, a fortress in the kingdom of Tunis, subject to France. It is situated about eighty miles west of the city of Tunis, in 8° east longitude and 36° 50' north latitude.

Bastogne, a town of the Netherlands, in the province of Luxemburg, situated in 5° 26' east longitude, and 50° north latitude.

Baston, in law, one of the servants to the warden of the fleet-prison, who attends the king's courts with a red staff, for taking into custody such as are committed by the court. He also attends on such prisoners as are permitted to go at large by licence.

Baston, or Batoon, in architecture, a moulding in the base of a column, called also a tore.

Baston, or Batoon, in heraldry, a kind of bend, having only one third of the usual breadth.

The baston does not go from side to side, in a tournament, the first time he ever wounded that land which they are at roots; for upon beating them by beating the offender with a stick. This fort of beating, among the antient Greeks and Romans, was the punishment commonly inflicted on criminals that were freemen, as that of whipping was on the Hebrews; and it is a may entitle him to the degree of bachelor of arts; and in seven years more he may commence bachelor of divinity. At Cambridge the degrees are usually taken much the same as at Oxford, excepting in law and physic, in either of which the bachelor's degree may be taken in five years. In France, the degree of bachelor of divinity is attained in five year's study, that is, in two years of philosophy, and three of divinity.

Bataillon, in ichthyology, the English name of a species of acanteana, caught in the American seas.

Batu, or Batu, a small copper coin, mixed with a little silver, current in several cities of Germany; it is worth four crutzers. It is also a coin of Switzerland, current at five livres, or one hundred follis, French money.

Batable ground, that land which lay between Scotland and England, when the kingdoms were distinct, to which both nations pretended a right.

Batacalo, a fort and town on the eastern coast of the island of Ceylon, in 81° east longitude, and 8° north lat.

Batacack, a town of the lower Hungary, situated on the Danube, about seventy miles south of Buda, in 19° 45' east longitude, and 46° 30' north lat.

Bataavia, the capital of all the Dutch colonies and settlements in the East Indies. It is situated on the east part of the island of Java, and has an excellent harbour, in 106° east longitude, and 6° south latitude.

Bachelor, or Bachelor, a man who still continues in the state of celibacy, or who was never married.

Bachelor was antiently a denomination given to those who had attained to knighthood, but had not a number of vassals sufficient to have their banner carried before them in the field of battle; or if they were not of the order of bannerets, were not of age to display their own banner, but obliged to march to battle under another's banner. It was also a title given to young cavaliers, who having made their first campaign, received the military girdle accordingly. And it served to denominate him who had overcome another in a tournament, the first time he ever engaged.

Knights Bachelors were so called, as being the lowest order of knights, or inferior to bannerets.

Bachelors, in an university-seme, are persons that have attained to the baccalaureate; or who have taken the first degree in the liberal arts and sciences. Before a person can be admitted to this degree at Oxford, it is necessary that he study there four years; three years more may entitle him to the degree of master of arts; and in seven years more he may commence bachelor of divinity. At Cambridge the degrees are usually taken much the same as at Oxford, excepting in law and physic, in either of which the bachelor's degree may be taken in five years. In France, the degree of bachelor of divinity is attained in five year's study, that is, in two years of philosophy, and three of divinity.

Batfowling, a method of catching birds in the night, by lighting some straw, or torches, near the place where they are at roost; for upon beating them up, they fly to the flame, where being amazed, they are easily caught in nets, or beat down with bulches fixed to the end of poles.

Batzenbourg, a town of the United Provinces, situated upon the Maas, between Ravenstein and Megen.

Bath, holmeum, a sufficient quantity of water collected in some convenient receptacle, for people to wash in, either for health or pleasure.
Baths are distinguished into natural and artificial, and natural again into hot and cold.

Hot baths, called by the antients thermæ, owe their origin partly to the admixture of sulphureous particles, while the water is passing through its subterraneous canals, and partly to the fumes and vapours exhalting through the pores of the earth, where sulphur is either pure or impure, as in coals, amber, iron, nitre, &c. The chief hot baths in our country are those at Bath, near Wells, in Somersetshire, and those at Buxton and Matlock, in Derbyshire.

In the city of Bath are four hot baths: one triangular, called the cross bath, the heat of which is more gentle than that of the rest, because it has fewer springs in it; the second is the hot bath, which was formerly much hotter than the rest, but it was then not so large as at present: the other two are the king and queen's bath, divided only by a wall; the last having no spring, but receives its water from the king's bath: each of these is furnished with a pump, to throw out the water upon the diseased, where that is required.

These waters abound with a mineral sulphur; they are hot, of a bluish colour, and strong scents; and send forth their vapours: they do not pass through the body like most other mineral waters: though, if salt be added, they purge presently. On settlements, they afford a black mud, which is used by way of cataplasm in aches, and proves of more service to some than the waters themselves: the like they depurate on distillation, and no other: the cross-bath presys on silver, all of them on iron, but none on brass.

The use of these baths is found beneficial in disorders of the head, as palfies, &c. in cuticular diseascs, as leprous, &c. obstructions and contusions of the bowels, the scurvy and stone, and in most diseases of women and children: they are used as a last remedy in obstinate chronic diseascs, where they succeed well, if they agree with the constitution of the patient.

Of the three hot European waters of note, viz. Aix-la-Chapelle, Bourbon, and Bath, the first abounds more eminently in sulphur, which makes its heat, naeufous, and purgative faculty so great, that few stomachs can bear its heat and naeufousness, and fewer weak constitutions the violence of its purging.

The Bourbon are of a middle nature, between Aix-la-Chapelle and the Bath waters; being less hot, naeuous, and purgative than those of Aix-la-Chapelle; but more so than the Bath waters. The Bath waters partake less of the sulphur, and more of the steel, than those two, and are of consequence by far the most pleasant and most effectual.

Cold baths were by the antients held in the greatest esteem; and tho' they were long banished out of medicine, the present age can boast of abundance of noble cures performed by them, and such as were long attempted in vain by the most powerful medicine.

The cold bath is serviceable in most chronic disorders; it always acts the part of a diuretic, and will do more, especially plunging over head in hot water, in the cure of melancholy, madness, and particularly that occasioned by the bite of a mad dog, than any other medicine. There is nothing of greater use in the cure of frigidity, when occasioned by excess of venery, than the cold bath. It contributes much to the cure of a gonorrhoea, and fluor albus; and is successful in a palsy.

Artificial baths are various, according to the various occasions: as aqueous baths, vaporous baths, dry baths, &c. Aqueous baths are made from common plants, and other emollient, refolvent, and nerve substanccs; consisting sometimes of milk and emollient herbs, with rose-water, &c. when the design is to humectate, or when it is only to cleanse, it consists of bran and water alone; and when it is for an excessive pain or tumour, &c. in these cases it consists of a decoction of roots, plants, and some spirit of wine.

In vapour-baths, the design of which is to promote a perspiration, the steam or fume of some decoction is received upon some part of the body for that purpose. In these baths, there is no part of the patient's body plunged into the decoction, only those parts which require it, are properly disposed to receive the fumes of some proper fomentation. Of this kind are the bagnois, where persons are made to sweat by the heat of a room, and pouring on of hot water. See the article Bagno.

Vapour-baths are of singular service in cold distempers, anaesthesia, edematous tumours, paralytic cases, swellings of the testicles, &c.
Dry baths are made of ashes, salt, sand, shreds of leather, &c.

This bath is successful in provoking sweat in a plentiful manner, the patient being placed conveniently for the reception of the fumes: they are found useful in removing old obfinate pains, and are very effectual in venereal complaints.

Baths, in Hebrew antiquity, a measure of capacity, containing the tenth part of an omer, or seven gallons and four pints, as a measure for things liquid: or three pecks and three pints, as a measure for things dry.

Baths, in architecture, superb buildings, erected for the sake of bathing. Those buildings, among the antients, were most pompous and magnificent; such were those of Titus, Paulus Æemilius, and Dioclesian, whose ruins are still remaining.

Bath, in geography, a city of Somersetshire, situated on the river Avon, ten miles east of Bristol: west longitude 2° 30', and north latitude 51° 30'. It has been long famous for its excellent baths.

Bath is also the name of a town in Hungary, east longitude 20° 40', and north latitude 46°.

Knights of the Bath, a military order in England, supposed to have been instituted by Richard the second, who limited their number to four: however, his successor, Henry IV., increased them to forty-six. Their motto was tres in uno, signifying the three theological virtues.

This order received this denomination from a custom of bathing, before they received the golden spur. It is seldom ever conferred, but at the coronation of kings, or the inauguration of a prince of Wales, or duke of York. They wear a red ribbon belt-cloak.

The order of the bath, after remaining many years extinct, was revived under George the first, by a solemn creation of a great number of knights.

Bath-kol, the daughter of a voice. So the Jews call one of their oracles, which is frequently mentioned in their books, especially the Talmud, being a fantastical way of divination invented by the Jews themselves, not unlike the fortis virgilliana of the heathens. However, the Jewish writers call this a revelation from God's will, which he made to his chosen people, after all verbal prophecies had ceased in Israel.

Bath-metal, a mixed metal, otherwise called prince's metal. See the article Prince's metal.

Bath water. See the article Bath.

Batha, the name of two towns, the one in Barbary, in the kingdom of Algiers, and the other in Hungary, upon the banks of the Danube.

Bathing, the washing, soaking, suppling, refreshing, moistening, &c. the body, or any part thereof, in water, liquor, &c. for pleasure or health. See the article Bath.

The bathing hath been used with advantage in most cases, yet there is scarce any, but, in some circumstances, it would be prejudicial: so that to apply it with the greatest advantage, it will be necessary to enquire what alterations are made by it in a human body. It is well known that heat relaxes, and that cold, on the contrary, contracts and braces the bodies it is applied to: the effects of cold bathing is attributed not only to its coldness, and contraining power, but, in some measure, to the weight of the water. For suppose a person immerged two feet, and the area of his skin fifteen feet, he sustains a weight of water, added to that of the air, equal to 2280 lb. troy. Besides, the water in bathing, enters the body, mixes with the blood, and dilutes all the juices.

Bathing a falcon is when weaned from her ramage foulleries, she is offered some water to bathe herself in a basin, where she may stand up to her thighs. By this means, the gathers strength and boldness.

Bathmus, batrus, in anatomy, denotes the cavity of a bone, fitted to receive the prominence of another bone.

Baticalca, in geography, a kingdom of India, upon the coast of Malabar, to the north of the kingdom of Canara.

Batis, in botany, a name given to crithmum, or samphire.

Batis, or Botos, in ichthyology, a name sometimes used for the skait.

Batom, or Boston, in commerce, a kind of weight used at Smyrna, containing five oks of four hundred drams each, which amount to sixteen pounds, five ounces, and fifteen drams of English weight.

Baton, or Baston. See Bston.

Baton, in botany, is sometimes used to denote the turpentine-tree.

Batos, in ichthyology. See Batis.

Batrachites, or Batrachias, lapis, the frog-stond, a kind of gum mentioned by the antients, and so called from its resembling the colour of a frog.

Batra-
The battery of a camp is appointed for their defence. It is rounded with a trench, and parapets.

**BATRACHOMYOMACHIA**, the battle of the frogs and the mice, the title of a fine burlesque poem, usually ascribed to Homer. The subject of the work is the death of Phylignathus, a frog, on a voyage to her palace, to which she had invited him, was seized with fear, when he saw himself in the middle of the pond, so that he tumbled off and was drowned. Phylignathus being suspected to have taken him off with design, the mice demanded satisfaction, and unanimously declared war against the frogs.

**BATTALIA**, a province of the kingdom of Congo in Africa, which is watered by the river Barabela.

**BATTALION**, a small body of infantry, ranged in form of battle, and ready to engage. A battalion usually contains from 5 to 800 men; but the number it consists of is not determined. They are armed with firelocks (pikes being quite laid aside) swords, and bayonets; and divided into thirteen companies, one of which is grenadiers. They are usually drawn up with six men in file, or one before another. Some regiments consist but of one battalion, others are divided into four or five.

**BATTLE**, a town of Suffolk, six miles north of Haslings: east longitude 35°, and north latitude 50° 55'.

**BATTEN**, a name that workmen give to a scantling of wooden stuff, from two to four inches broad, and about one inch thick; the length is pretty considerable, but undetermined. This term is chiefly used in speaking of doors and windows of shops, &c. which are not framed of whole deal, &c. with fyles, rails, and panels like wainscot, but are made to appear as if they were, by means of these battens, braded on the plain board round the edges, and sometimes cross them, and up and down.

**BATTENBURG**, a town of Dutch Guelderland, situated on the north shore of the river Maas, almost opposite to Ravenstein: east longitude 5° 30' and north latitude 51° 45'.

**BATTERING**, the attacking a place, work, or the like, with heavy artillery. To batter in breach, is to play furiously on a work, as the angle of a half moon, in order to demolish and make a gape therein. In this they observe never to fire a piece at the top, but all at the bottom, from three to six feet from the ground.

The battery of a camp is usually surrounded with a trench, and parapetdadoes at the bottom, with two redouts on the wings, or certain places of arms, capable of covering the troops which are appointed for their defence. See the article **Battery**.

**BATTERING-Pieces**, or pieces of battery. See the article **Cannon**.

**BATTERING-RAM**, in antiquity. See the article **Ram**.

**BATTERING-RAMS**, in heraldry, a bearing, or coat of arms, resembling the military engine of the same name. See plate XXVI. fig. 9.

**BATTERY**, in the military art, a parallel thrown up to cover the gunners, and men employed about the guns, from the enemy's shot. This parapet is cut into embrasures, for the cannon to fire through. The height of the embrasures, on the inside, is about three feet: but they go sloping lower to the outside. Their wideness is two or three feet, but open to fix or seven on the outside. The mass of earth that is betwixt two embrasures, is called the merlon. The platform of a battery is a floor of planks and sleepers, to keep the wheels of the guns from sinking into the earth; and is always made sloping towards the embrasure, both to hinder the reverse, and to facilitate the bringing back of the gun.

**Battery of mortars** differs from a battery of guns, for it is sunk into the ground, and has no embrasures.

**Cros Batteries** are two batteries, which play athwart one another, upon the same thing, forming there an angle, and beating with more violence and destruction; because what one bullet shakes, the other beats down.

**Battery funk or buried**, is when its platform is sunk, or let down into the ground, so that there must be trenches cut in the earth, against the muzzles of the guns, for them to fire out at, and to serve for embrasures.

**Battery d'enflade** is one that fcourses, or sweeps the whole length of a straight line.

**Battery en echarpe** is that which plays obliquely.

**Battery de reverse**, that which plays upon the enemy's back.

Came-
BATTLE [273] BAV

**Batter**y is when several guns play at the same time upon one place.

**Battalions of** assault, or scouts, are horsemen sent out before, and on the wings of an army, one, two, or three miles, to make discoveries.

**Battery**, in law, the striking, beating, or offering any violence to another person, for which damages may be recovered. But if the plaintiff made the first assault, the defendant shall be quit, and the plaintiff averted. But if the plaintiff made the first assault, the defendant shall be quit, and the plaintiff averted. But if the plaintiff made the first assault, the defendant shall be quit, and the plaintiff averted.

Battery is frequently confounded with assault, tho' in law, they are different offences; for in the treaty for assault and battery, one may be found guilty of assault, yet acquitted of the battery: there may therefore be assault without battery, but battery always implies an assault. See the article **Assault**.

**Batter**, a kind of paste made up of flour, water, eggs, &c. to make cakes, puddings, &c.

**Battle**, a general engagement between two armies, in a country sufficiently open for them to encounter in front, and at the same time; or, at least, for the greater part of the line to engage. Other great actions, though of a longer duration, and even attended with a greater slaughter, are only called fights.

The losse of a battle frequently draws with it that of the artillery and baggage; the consequence of which is, that as the army beaten cannot again look the enemy in the face, till these losse have been repaired, it is forced to leave the enemy a strong fort, and private. The principal batteries were at London, Archangel, Novhorod, Lisbon, Venice and Antwerp.

**Battalion** is a kind of halberd, first introduced into England by the Danes.

**Batteries**, in architecture, are indentures or notches in the top of a wall or other building, in the form of embrasures, for the sake of looking through them.

**Battlement**, in grammar, a superfluous repetition of some words or things.

**Baton**, baton, or baston. See the article *Baston*.

**Battery**, in commerce, a name given by the Hanse towns to their country houses and warehouses in foreign countries. The principal batteries were at London, Archangel, Novgorod, Lisbon, Venice and Antwerp.

**Battus**, an order of penitents at Avignon, and in Provence, whose penance carries them to exercise very severe discipline upon themselves, both in public and private.

**Batailones, or Los Batuecos**, a people of Spain in the kingdom of Leon, that inhabit the mountains between Salamanca and Corica, and are thought to be descended from the Goths.

**Batzi**, a copper coin mixed with some silver, and current at different rates, according to the alloy, in Nuremberg, Bafil, Fribourg, Lucerne, and other cities of Germany and Switzerland.

**Bavaria**, one of the circles of the German empire, lying between Austria on the east, and Swabia on the west. The duke of Bavaria is one of the nine electors. See the article **Elector**.

**Bavay**, a small town in the province of Hainault in French Flanders, about twelve miles.
where they lay corn, they call it a barn of two bays. These bays are from fourteen to twenty feet long.

Bay denotes likewise a pond head, made to keep in store of water for driving the wheels of the furnace or hammer belonging to an iron-mill, by the stream that comes thence thro' a floodgate called the pen-stock.

Bay is also one of the colours of the hair of horses, inclining to red, and coming pretty near the colour of a chestnut. There are five different gradations of the bay colour, viz. chestnut-bay, light-bay, yellow-bay or dun-bay, bloody-bay, which is also called scarlet-bay, and the brown-bay.

Bay, among huntsmen. Deer are said to stand at bay, when after being hard run, they turn head against the bounds.

Bay-yarn, a denomination sometimes given to woolen-yarn. See Yarn.

Bay-tree. See the articles Laurus, Salt.

Bay-salt, 

Bay, a town of Hungary: east longitude 50° 30'.

Bayonnet, in the military art, denote brush-fagots, with the brush at length.

Baum, Melissa, in botany. See the article Melissa.

Bauroc, a name antiently used for nitre.

Bautzen, the chief town of Lusatia in Germany, about thirty-five miles northeast of Dresden: east longitude 14° 30', north latitude 51° 15'.

Bawd, a woman who keeps a bawdy-house, or who conducts criminal intrigues. See the next article.

Bawdy-house, a house of ill fame, to which lewd persons of both sexes resort, and there have criminal conversation. The keeping a bawdy-house is a common nuisance, not only on account that it endangers the public peace, by drawing together debauched and idle persons, and promoting quarrels, but likewise for its tendency to corrupt the manners of the people. And therefore, persons convicted of keeping bawdy-houses, are punishable by fine and imprisonment; also liable to stand in the pillory, and to such other punishment, as the court, at their discretion, shall inflict.

Bawling, among sportmen, the same with babbling. See Babbling.

Bawrell, in falconry, a hawk for largeness and shape something like a jamaier, but hath a longer body and tail. She is a good field hawk, and a fault goes a fore-head.

Bay, in geography, an arm of the sea shooting up into the land, and terminating in a nook. It is a kind of lesser gulph, bigger than a creek, and is larger in its middle within than at its entrance. The largest and most noted bays in the world are those of Biscay, Bengal, Hudson's, Panama, &c.

Bay, among farmers, a term used to signify the magnitude of a barn, as if a barn consists of a floor and two heads,
and for linings, especially in the army. The looking-glass makers also use them behind their glasses, to preserve the tin or quicksilver; and the cafe makers, to line their cafes. The breadth of bays is commonly a yard and a half; a yard and three quarters, or two yards, by 42 to 48 in length. Those of a yard and three quarters, are most proper for the Spanish trade.

BAZA, or BACA, in geography. See the article BACA.

BAZAR, BAZARI, or BAZAARD, a place designed for trade among the eastern nations, particularly the Persians, some of which are open at top, like the market places of Europe; others are covered with high vaulted ceilings, and adorned with domes to give light. In the first, they fell only the less precious and most bulky commodities; whereas in the latter, are the shops of those merchants who sell jewels, rich stuffs, wrought plate, &c.

BAZAS, a town of Guienne, in France, about thirty miles south of Bourdeaux: west longitude 25°, and north lat. 44° 30'.

BAZAT, or BAZA, in commerce, a long, fine, spun cotton, which comes from Jerusalem, whence it is also called Jerusalem-cotton.

BDELLIUM, a gum resin, somewhat resembling myrrh in appearance, brought from the Levant. It is met with in single drops, of a very irregular size, some of which are as large as a hazel nut. Its colour is dusky, and its taste bitterish. People are no more agreed about the true nature of bdellium than they are about the manner how it is produced, and it is much doubted whether the bdellium of the antients be the same with the modern kind. It is allowed to be an emollient and diffusible; and to be a powerful astringent and detergent, according to its age; for it is more so when new and fresh, than afterwards.

BEACHY-HEAD, a cape or promontory on the coast of Sussex, between Hastings and Shoreham.

BEACON, a public signal, to give warning against rocks, shelves, invasions, &c. See the article SIGNAL. It is made by putting pitch barrels upon a long pole, and they put upon an eminence, so as they may be seen afar off; for the barrels being fired, the flame, in the night-time, and the smoke in the day, give notice, and in a few hours may alarm the whole kingdom, upon an approaching invasion, &c.

BEACONAGE, a tax, or farm paid for the use and maintenance of a beacon. Trinity-house is empowered to levy this tax by act of parliament.

BEACONFIELD, a market-town of Buckinghamshire, twenty-two miles west of London: west longitude 30°, and north latitude 51° 35'.

BEAD, a small glass ball, made in imitation of pearl, and used in necklaces, &c.

BEAD, in architecture, a round moulding, commonly made upon the edge of a piece of stuff, in the Corinthian and Roman orders, cut or carved in short emboisments, like beads in necklaces.

BEAD-PROOF, among distillers, a fallacious way of determining the strength of spirits, from the continuance of the bubbles, or beads, raised by shaking a small quantity of them in a phial. See the article PROOF.

BEAD-ROLL, among papists, a list of such persons for the relief of whose souls they are obliged to repeat a certain number of prayers, which they count by means of their beads.

BEADLE, a messenger, or apparitor of a court, who cites persons to appear and answer in the court to what is alleged against them.

BEADLE is also an officer at an university, whose chief function is to walk before the masters with a mace, at all public processions, &c.

BEAGLE, the name of a particular kind of hunting-dogs, of which there are several sorts, viz. the southern beagle, which is something less than the deep-mouthed hound, and something thicker and shorter; the fleet northern, or cat beagle, which is smaller, and of a finer shape than the southern beagle, and is a hard runner: there is also a very small beagle, not bigger than a lady's lap-dog.

BEAK, raptus, the bill or nib of a bird, from the form and structure of which, Linnaeus divides this whole family, or general class of animals, into six orders. See BIRD and ORNITHOLOGY.

BEAK, in architecture, the small fillet left on the head of a farmer, which forms a canal, and makes a kind of pendant.
BEA [276] BEA

BEAK, a moulding the same as the quarter-round, except that its situation is inverted; this is very frequent in modern buildings, though few examples of it are found in the antient.

BEAK, or BEAK-HEAD, of a ship, that part without the ship, before the forecastle, which is fastened to the stem, and is supported by the main knee.

BEAKED, in heraldry, a term used to express the beak or bill of a bird. When the beak and legs of a fowl are of a different tinture from the body, we say beaked and membered of such a tinture.

BEAKING, among cock-fighters, is when one cock holds another by his bill, and strikes him with his spurs or gaffers at the same time.

BEAM, in architecture, the largest piece of wood in a building, which lies cross the walls, and serves to support the principal rafters of the roof, and into which the feet of these rafters are framed. No building has less than two of these beams, viz. one at each end. Into these the girders of the garret roof are also framed; and if the building be of timber, the teazle tenons of the posts are framed into them.

The proportion of beams in or near London, are fixed, by statute, as follows: a beam fifteen foot long, must be seven inches on one side its square, and five on the other; if it be sixteen foot long, one side must be eight inches, the other six, and so proportionably to their lengths.

In the country, where wood is more plenty, they usually make their beams stronger.

Beams of a ship are the great main cross-timbers which hold the sides of the ship from falling together, and which also support the decks and orlops: the main beam is next the main mast, and from it they are reckoned by first, second, third beam, &c. the greatest beam of all, is called the mid-ship beam. See SHIP.

BEAM-COMPASS, an instrument consisting of a square wooden or brass beam, having sliding sockets, that carry feet or pencil points: they are used for describing large circles, where the common compasses are useless.

BEAM, in heraldry, the term used to express the main horn of a hart or buck.

BEAM, among hunters, the main stem of a deer's head, or that part which bears the antlers, royals, and tops.

CHAMBER-BEAM. See CHAMBER-BEAM.

BEAM is also the name of a sort of fiery meteor in the shape of a pillar; also a ray of the sun.

BEAM-FILLING, in building, the filling up of the vacant space between the rafter and roof, with stones or bricks laid between the rafters on the rafter, and plastered on with loam, where the garrets are not pargeted, or plastered, as in country places, where they do not parget or plater their garrets.

BEAM of an anchor, the longest part of it, called also the shank.

BEAM-FEATHERS, in falconry, the longest feathers of a hawk's wing.

BEAM-FISH, a sea-monster, like a pike, a dreadful enemy to mankind, seizing like a blood-hound, and never letting go, if he gets half hold. The teeth of this fish are so venomous, that unless an antidote be immediately applied, the least touch of them is mortal.

BEAM also denotes the lath, or iron, of a pair of scales; sometimes the whole apparatus for weighing of goods is so called; thus we say, it weighs too much at the king's beam.

BEAM of a plough, that in which all the parts of the plough-tail are fixed.

It is commonly made of ash, and is eight feet long; but in the four coultered plough it is ten feet long. See PLough.

BEAM, or ROLLER, among weavers, a long and thick wooden cylinder, placed lengthways on the back part of the loom of those who work with a fluttler.

That cylinder, on which the stuff is rolled as it is woven, is also called the beam or roller, and is placed on the fore part of the loom.

BEAN, j. h. a, in botany, makes a distinct genus of plants, according to Tournefort, but is comprehended by Linneus under Vicia. See the article Vicia.

Beans of all kinds ought to be sown much thinner than is the common practice, by which means the produce will be greatly increased.

BEAR, urisus, in zoology, a genus of quadrupeds, of the order of the Feræ, or beasts of prey; distinguished by having only four teats, two on the breast, and two on the belly; also feet formed for climbing or walking, with five toes on each.

The tail of a common bear is abrupt; its fore teeth are of a conic figure; the canine teeth are placed at a distance from the grinders, and are two on each side; and the penis is long.

It is a large, but un glity animal, and grows to different sizes, in different places, from that of a maffit-dog, to that of a small beaver. It is covered with a thick and deep fur; the head is large and long; the
the neck short, and very thick; the eyes are small, the thighs are long, but the under part of the legs short, and it has a knee-pan at that joint. It is a native of America, and of many of the northern parts of Europe. See plate XXVI. fig. 10.

There is another bear, with an elongated tail, frequent in the northern parts of Europe, and is otherwise much the same with that already described.

Bear, ursa, in astronomy. See Ursae.

Bear, in heraldry. He that has a coat of arms is said to bear in it the several charges or ordinaries that are in his escutcheon.

Bear, in gunnery. A piece of ordnance is said to come to bear, when it lies right with, or directly against the mark.

Bearalston, a borough of Devonshire, situated on the river Tamar, about ten miles north of Plymouth: well longitude 4° 36′, north latitude 50° 35′. It sends two members to parliament.

Bear's breech, in botany, the English name of a genus of plants called by botanists acanthus. See Acanthus.

Beard, the hair growing on the chin, and adjacent parts of the face, chiefly of adults and males. See Hair.

Various have been the ceremonies and customs of most nations in regard of the beard. The Tartars, out of a religious principle, waged a long and bloody war with the Persians, declaring their infidels, merely because they would not cut their whiskers, after the rite of Tartary: and we find, that a considerable branch of the religion of the antients, consisted in the management of their beard. Eclesiastics have sometimes been enjoined to wear, and at other times have been forbid the wearing, the beard; and the greek and roman churches have been a long time by the ears, about their beards. To let the beard grow, in some countries, is a token of mourning, as to shave it is the like in others. The Greeks wore their beards till the time of Alexander the great, that prince having ordered the Macedonians to be shaven, for fear it should give a handle to their enemies: the Romans did not begin to shave till the year of Rome 454. Nor did the Ruffians cut their beards till within these few years, that Peter the great, notwithstanding his injunction upon them to shave, was obliged to keep on foot a number of officers to cut off, by violence, the beards of such as would not otherwise part with them.

Beard of a comet, the rays which the comet emits towards that part of the heaven to which its proper motion seems to direct it, in which the beard of a comet is distinguished from the tail, which is understood of the rays emitted towards that part from whence its motion seems to carry it.

Beardless, among florists, is a rose husk, or other such like husks that are hairy on the edges.

Beard of a borde, that part underneath the lower mandible on the outside and above the chin, which bears the curb. It is also called the chuck.

It should have but little flesh upon it, without any chops, hardness or swelling, and neither too high raised nor too flat, but such as the curb may rest in its right place.

Bearding of wool. See Wool.

Beardless, one that has no hair visible on the chin, as children, women, and effeminate persons.

Bearer, in a general sense, one that carries burdens, letters, &c.

Bearer, in architecture, a post, or brick wall, trimmed up between the two ends of a piece of timber, to shorten its bearing, or to prevent its bearing with the whole weight at the ends only.

Bearer of a bill of exchange, the person in whose hands the bill is, and in favour of whom the last order was made. When a bill is made payable to the bearer, it is understood to be payable to him in whose hands it is, after it becomes due. See the article Bill.

Bearers, in heraldry. See the article Supporters.

Crofts-Bearers. See the article Cross.

Bearers is also applied to those who are appointed, by every parish, to carry the corpses of dead persons to the grave.

Beating, in navigation and geography, the situation of one place from another, with regard to the points of the compass; or the angle which a line, drawn thro' the two places, makes with the meridians of each.

The bearings of places on the ground, are usually determined from the magnetic needle, in the managing of which conflits the principal part of surveying, since the bearing or distance of a second point from a first being found, the place of that second is determined; or the bearings of a third point from two others, whose distance
distance is known, being found, the place of the third is determined instrumentally.

But to calculate trigonometrically, there must be more data.

**BEARING**, in the sea language. When a ship fails towards the 'shore' before the wind, she is said to bear in with the land or barbotr. To let the ship fail more before the wind, it is to bear up. To put her right before the wind, is to bear round. A ship that keeps off from the land, is said to bear off. When a ship that was to windward comes under another ship's stern, and so gives her the wind, she is said to bear under her lee, &c. There is another sense of this word; in reference to the burden of a ship; for they say a ship bears, when having too tender or lean a quarter, the will sink too deep into the water with an over weight, and thereby can carry but a small quantity of goods.

**BEARING of a piece of timber**, among carpenters, the space either between the two fixed-extremes thereof, when it has no other support, which they call bearing at length, or between one extreme and a post, brick wall, &c. trimmed up between the ends to shorten its bearings.

**High Bearing cock**, one larger than the cock he fights with.

**BEARING claws**, among cock-fighters, the foremost toes of a cock. If these are hurt or gravelled, he cannot fight.

**BEARN**, a province in the south of France, bounded by Gascony on the north, and by the Pyrenean mountains, which separate it from Spain, on the south.

**BEAST**, la tête, among gamblers, a game at cards, played in this manner: the best cards are the king, queen, &c. where of they make three heaps, the king, the play, and triolet.

Three, four, or five may play; and to every one is dealt five cards. However, before the play begins, every one stakes to the three heaps. He that wins most tricks, takes up the heap called the play; he that hath the king, takes up the heap so called; and he that hath three of any sort, that is, three fours, three fives, three sixes, &c. takes up the triolet-heap.

**BEAST**, in a general sense, an appellation given to all four-footed animals, fit either for food, labour, or sport.

**BEASTS of burden**, in a commercial sense, all four-footed animals which serve to carry merchandizes on their backs. The beasts generally used for this purpose, are elephants, dromedaries, camels, horses, mules, asses, and the sheep of Mexico and Peru.

**BEASTS of the chase** are five, viz. the buck, the doe, the fox, the roe, and the martin.

**BEASTS and fowls** of the warren are the hare, the coney, the pheasant, and partridge.

**BEASTS of the forest** are the hart, hind, hare, boar, and wolf.

**Rother-Beasts**: See the article Rother.

**Beasts**, in a figurative sense. Men or women who behave disorderly, or irrationally, are called beastly creatures.

**BEASTLINESS**, the acting or behaving like a beast, or the seeming irrationality of that species of beings; also drunkenness, or any other notorious disorder.

**BEAT**, in a general signification, signifies to chaffife, strike, knock, or vanquish. This word has several other significations in the manufactures, and in the arts and trades. Sometimes it signifies to forge and hammer, in which sense smiths and farriers say, to beat iron; sometimes it means to pound, to reduce into powder: thus we say, to beat drugs, to beat pepper, to beat spices; that is to say, to pulverize them.

**BEAT of drum**, in the military art, is to give notice by beat of drum of a sudden danger; or, that scattered soldiers may repair to their arms and quarters, is to beat an alarm, or to arms; also to signify, by different manners of sounding, a drum, that the soldiers are to fall on the enemy; to retreat before, in, or after an attack; to move, or march, from one place to another; to treat upon terms, or confer with the enemy; to permit the soldiers to come out of their quarters at break of day; to order to repair to their colours, &c. is to beat a charge, a retreat, a march, &c.

**BEATIFIC vision**: See **Vision**.

**BEATIFICATION**, among papists, an act by which the pope declares a person beatified, or blessed, after death. This is the first step towards canonization, and differs from it; because in the former, the pope does not act as a judge, determining the state of the beatified, but only gives a privilege to certain persons to honour him by a particular religious worship, without incurring the penalty of superstitious worship; whereas in canonization, the pope speaks like a judge, and determines upon the state of the canonized.
No person can be beatified till fifty years after his or her death; all certificates or attestations of virtues and miracles are examined, before the congregation of rites: the examination continues for several years, after which his holiness decrees the beatification. The corps and relics of the future saint are thenceforward exposed to the veneration of every body; his images are crowned with rays, and a particular office is set apart for him.

BEATING, in a general sense, the inflammation, or punishing a person for a real or supposed offence.

BEATING, or PULSATION, in medicine, the reciprocal agitation, or palpitation of the heart, or pulse. See Pulse.

There are some physiicians that distinguish eighty-one different pulsations, and fifteen compound ones. They compute sixty beats in the space of one minute in a temperate man; but it is certain, that generally we find a greater number.

BEATING gold and silver. See the article Gold-beating, &c.

BEATING with hunters, a term used of a flag, which runs first one way, and then another. He is then said to beat up and down.

The noise made by conies in rutting time is also called beating or tapping.

BEATS, in a watch or clock, are the strokes made by the fangs or pallets of the spindle of the balance, or of the pads in a royal pendulum. To find the beats of the balance in any watch, divide the beats in twelve hours into twelve parts, and it gives the number of beats in one turn of the dial-wheel; for 8 times 17 is 136, which is half the number of beats in one turn of the great wheel 40; and 9 times 136 is 1224, the half beats in one turn of the second wheel; and 11 times 1224, is 13464, the half beats in one turn of the great wheel 55; and 8 times 13464 makes 107712. If you multiply this by the two pallets, that is, double it, the product will 215424, which is the number of beats in one turn of the dial-wheel, or twelve hours.

To know how many beats this watch has in an hour, divide the beats in twelve hours into twelve parts, and it gives 17952, the train of the watch, or beats in an hour. By the beats and turns of the fusey, the hours that any watch will go, may be found thus. As the beats of the balance in one hour are to the beats in one turn of the fusey:: fo is the number of the turns of the fusey to the continuance of the watch's going.

Thus 20196: 26928:: 12: 16. See the article Fusey.

To find the beats of the balance in an hour, the proportion is, as the hours of the watch's going, to the number of the fusey:: fo are the beats in one turn of the fusey to the beats in an hour. Thus, 16: 12:: 26928: 20196.

BEAUCAIRE, a town of Languedoc, situated on the western shore of the river Rhone, about seven miles north of Arles; east longitude 4° 40', and north latitude 45° 40'.

BEAUCÈ, the northern division of the province of Orleansio, in France.

BEAVER, FIBER, in zoology, a genus of quadrupeds, of the order of the glises, called by Linnaeus castor. See Castor. The beaver has two very different sorts of hair, viz. one kind long and coarse, and another soft and fine; and of this last it is, that the fine beaver-hats are manufactured.

BEAUFET, or BUFFET. See Buffet.

BEAUFORT, a town of the duchy of Anjou in France, situated fifteen miles east of Angers; east longitude 15°, and north latitude 47° 30'.

BEAUFORT is also a town of Savoy, about thirty miles east of Chambery; east longitude 6° 40', and north latitude 45° 30'.

BEAUGENCY, a town of Orleansio, in France; situated on the river Loire, about fifteen miles south-west of Orleans, in 1° 36' east long., and 47° 43' north latitude.
BEAUJEU, a town of the Lyonois in France, about twenty-five miles north-west of Lyons: east longitude 4° 50' and north latitude 46° 15'.

BEAUJOLOIS, the south-east division of the Lyonois, and so called from Beaujeu.

BEAUMARIS, a market town of Anglesey in Wales; situated about nine miles north of Bangor, in 4° 15' west longitude, and 53° 25' north latitude.

BEAUMONT. See the article Mass.

BEAUMONT, a town of Hainaut, about seventeen miles south-east of Mons: east longitude 4° 15' and north latitude 50° 20'.

BEAUMONT is also a town of France, about sixteen miles south of Alençon: east longitude 5° and north latitude 43° 20'.

BEAUNE, a town of Burgundy in France, situated in 5° 20' east longitude, and 47° 20' north latitude.

BEAU-PLEADER, a writ upon the statute of Marlbridge, whereby it is ordained, that no fine shall be taken of any person in any court, for fair-pleading; that is, for not pleading fairly, and to the purpose. Beau-pleadings is in respect to vicious pleadings.

BEAUTY, a general term for whatever excites in us pleasing sensations, or an idea of approbation.

Hence the notion annexed to beauty may be distinguished into ideas and sensations; the former of which occupy the mind, the latter affect the heart: thus, an object may please the understanding without interesting the sense; and on the other hand, we perceive agreeable sensations, excited by some objects, whose ideas are no way related to any thing that is praiseworthy.

It is, on account of these distinctions, that the difficulty lies of fixing an universal characteristic of beauty, in regard that the ideas and sensations of different persons vary, according to their different turns of mind, and habitues of body, and consequently the relations of objects to those ideas and sensations do in like manner vary: whence arise the different opinions of beauty in painting, women, &c.

BEAUTY, in architecture, painting, and other arts, is the harmony and justness of the whole composition taken together.

BEAUTY of Christ's person, among divines, has been a subject of great dispute in all ages of the church; some magnifying the external beauty of his body, others extending the literal meaning of Isaiah's description of the Messiah, as without form and comeliness.

BEAUVIN, a city of Burgundy, in France, about fifteen miles north of Chalon: east longitude 4° 50' and north latitude 47°.

BEAVOIR, a port-town of France, about twenty-five miles south-west of Nantes: west longitude 2° and north latitude 45°.

BEAUVOIS, a city of the Isle of France, about forty-three miles north of Paris: east long. 2° 20' and north lat. 46° 36'.

BECAH, or BEKAH, in hebrew antiquity, a Jewish coin, equal to 1½ d. of our money.

BECALM, in a general sense, signifies to appease; to allay.

BECALM, in the sea language. A ship is said to be becalmed, when there is not a breath of wind to fill the sails, which is occasioned either by its being taken off by the interposition of the shore, or for want of any wind stirring.

BECANER, the capital of the territory of Becar in India, situated on the river Ganges, in 83° east longitude, and 28° north latitude.

BECCA-BUNGA, in botany, a name.

BECCIFAGO, in botany, a small bird.

BECCHICS, medicines designed to relieve coughs, being the same with what we call pneunonics, thoracics, expectorants, and pectorals. See the articles PECTORANTS and PECTORALS.

BECHIN, a town of Bohemia, in 15° east longitude, and 49° 14' north latitude.

BECKENRIEDT, a town of Switzerland in the canton of Unterwaldt.

BECZAU, a town of Bohemia upon the river Topel.

BED, a convenience for stretching and compounding the body on, for ease, rest, or sleep, consisting generally of feathers enclosed in a ticken case. There are varieties of beds, as a standing bed, a letter-bed, a tent-bed, a truckle-bed, &c.

All beds that are for iale, must be filled with one sort of stuffing only, on the pain of forfeiture; as the mixing of feathers, down, scalded feathers, dry pulled feathers, any ways together, is conceived to be contagious for a man's body to lie on. Also, bed-quilts, mat-trasses, and cushions, stuffed with horse hair, hen-down, goats-hair, and neats-hair, which are drafted in lime, and in which the
BED [281]

the heat of a man's body will exhale, and cause to yield a noxious smell, are prohibited by statute.

The ancient Romans had various sorts of beds, for various purposes: they had their chamber-bed, wherein they slept; their table-bed, wherein they eat, as they always eat lying; there being usually three persons to one bed, whereof the middle place, as well as the middle bed, was accounted the most honourable: they had also the bed wherein they studied, and that wherein the dead were carried to the funeral pile.

BED of justice, in the French customs, a throne upon which the king is seated, when he goes to the parliament. The king never holds a bed of justice unless for affairs that concern the state, and then all the officers of parliament are cloathed in scarlet robes.

BED of the carriage of a great gun, a thick plank, that lies under the piece; being, as it were, the body of the carriage.

BED, in masonry, a term. In archit",cure, a term. In architecture, a term.

BED-CHAMBER. See the article BED." 2

BED-CHAMBER, in the British customs, a room in which the king is seated when he goes to parliament. The king never holds a bed-chamber unless for affairs that concern the state, and then all the officers of parliament are cloathed in scarlet robes.

BEDWIN, a borough-town of Wilts, about eighteen miles north-west of Salisbury, in west longitude 1° 40', and north latitude 51° 25'.

BEE, abis, in zoology. See APIS.

Authors enumerate a great many species of this insect, but the common hive-bee merits particular consideration.

These are of three sorts, viz. 1. The queen-bee, which is somewhat larger, and of a brighter red than the rest. Her body is divided into a new swarm, and deposit eggs for another brood; and so great is her fertility, that she frequently brings forth many thousands of young in a year. 2. The drones which have no wings, are of a darker colour than the rest, and are thought to be the males. 3. The honey-bees, or working-bees, which are by far more numerous than the other two kinds.

Concerning the breeding and management of bees, together with the produce of their industry, see SWARM, HIVE, HIVE, HONEY, WAX, &c.

BEE-EATER, see APIS, in zoology. See the article APIS.

BEE-FLY, or DRONE-FLY. See the article DRONE-FLY.

BEECH, Fagus, in botany. See FAGUS.

The wood of the beech-tree is of a whitish-colour, and much coveted by turners for making ladles, trays, bellows, &c.

BEECH-GALLS, hard protuberances found on the leaves of the beech, wherein are lodged the maggots of a certain fly.

BEECH-MAST, the fruit of the beech-tree, said to be good for fattening hogs, deer, &c.

BEECH-OIL, an oil drawn by expression, from the mast of the beech-tree, after it has been shelled and pounded. See the article MAST.

This oil is very common in Picardy and used there, and in other parts of France, instead of butter; but most of those who take a great deal of it, complain of pains and a heaviness of the stomack.

BEELE, a kind of pick-axe, used by the miners for separating the ores from the rock.
BEER, in which they lie; this instrument is called a tubber by the miners of Cornwall.

BEEN, or BEEHEN, in pharmacy. See the article BEEHEN.

BEER, a common and well-known liquor, made with malt and hops, and used in those parts of Europe where vines will not grow, and where cyder is scarce. See the articles MALT, BREWING, &c. It is chiefly distinguished from ale by the quantity of hops, which is greater in beer, and thereby, renders the liquor bitterer, and fitter to keep.

There are various differences in beers, proceeding from the ways of brewing, from the different countries or climates, from the water that is used, from the time spent about them, from the ingredients made use of, and the proportions of these ingredients.

That beer is reckoned the best which is clear, and of a pale colour, of a pungent and agreeable taste, that sparkles upon being poured into a glass, and is neither too old nor too new.

Ale beer is used by calico-printers, chemists, lapidaries, scarlet-dyers, vinegar-merchants, and white-leaded men.

Boiling of BEER is best performed in this manner: First, take clear water, or such as has been well impregnated with the essence of some herb; to every quart of which add half a pound of sugar. Afterwards, having caused this water to be gently boiled and fumed, add a few cloves; let it cool in order to have barm or yeast put to it, and being brought to work, take off the scum again. That done, while it is in a simmering condition, put three spoonfuls into each bottle; which is to be filled up with beer, and securely corked. A few crystalls of tartar do also very well in bottled beer; especially if a few drops of the essence of barley, wine, or some effenial spirits be added.

BEER, among weavers, a term that signifies nineteen ends or yarn, running all together the whole length of the cloth.

BEER-MEASURE. See MEASURE.

BEESTINGS, a term used by country-people for the first milk taken from a cow after calving.

BEET, beet, in botany, a genus of plants of the genus *Beta*, with no flower-leaves: the fruit is a capsule placed within the bale of the cup, with one cell, containing a single kidney-shaped compressed seed, and surrounded every way with the cup. The beet is more used as a pot-herb than physically. It is one of the five emollient herbs.

BEETLE, scarabeus, in the history of insects. See the article SCARABAEUS.

BEETLE also denotes a wooden instrument for driving piles, &c.

It is likewise called a 'stammer', and by pavions a rammer.

BEFORT, a town of Aixace, subject to France, and situated about fifteen miles north of Basle, in east longitude 7°, and north latitude 47° 35'.

BEG, or BEY, in the turkish affairs. See the article BEY.

BEGGAR, one who begs alms.

Beggars pretending to be blind, lame, &c. found begging in the streets, are to be removed by constables; and if they refuse to be so removed, shall be publicly whipt.

BEGHARDI, begardi, a certain sect of heretics, which arose in Germany, and in the Low-countries, about the end of the thirteenth century. They made profession of monastical life, without observing celibacy; and maintained, if they are not scandalized by the monks, that man could become as perfect in this life, as he shall be in heaven; that every intellectual nature is of itself happy, without the succour of grace; and that he who is in this state of perfection ought to perform no good works, nor worship the hoft.

BEGLERBEG, a governor of one of the principal governments in the turkish empire. There are two forts of beglerbegs; the one have a certain revenue assigned upon the cities, boroughs and villages of their government, which they raise by power of the commiffion granted to them by the sultan; the others have a certain rent paid by the treasurer of the grand signior. They are become almost independent, and have under their jurisdiction, several faniacs, or particular governments, and beggs, agas, and other officers who obey them.

BEGONIA, a genus of polyandrous plants, the flower of which consists of four or five petals, disposed in a circular form; and its fruit is a trigonal capsule, divided into three cells, and containing a great number of small seeds.

BEGUARDI, or BEGARDI. See the article BEGHARDI.

BEGUINS, congregations of devout young women, who maintain themselves by the work of their hands, leading a middle kind of life between the secular and religious.
ligious. These societies consist of several houses placed together in one enclosure, with one or more churches, according to the number of beguins. There is in every house a prioris, without whose leave they cannot sit out. Their vow is conceived in these terms: I promise to be obedient and chaste, as long as I continue in this beguinage. They observe a three years novitiate, before they take the habit, and the rector of the parish is their superior, but can do nothing without the advice of eight beguins. They are established in several parts of Flanders.

BEHEADING, decollatio, a capital punishment, inflicted by cutting off the head with an ax, scowl, &c.

Among the Romans beheading was a military punishment performed at first with an ax, but afterwards with a sword, as done at present in Holland and France. In England the ax is preferred, and in Scotland they use, for this purpose, a machine called a maid. See MAID.

BEHEN, in the materia medica, the name of two roots, the one white, the other red; both accounted cordials and restorative, but the white one to poise these qualities in the highest degree. They are likewise said to be good in nervous cauls; but neither are received into the present practice.

BEJA, a city of Alentejo, in Portugal, west longitude 8° 40', and north latitude 37° 55'.

BEICHLINGEN, a city of Thuringia, in the circle of upper Saxony in Germany; east longitude 11° 25', and north lat. 51° 20'.

BELLA, a town of Piedmont in Italy, about thirty-two miles north of Turin; east long. 4° 43', and north lat. 45°.

BEILSTEIN, a town of the landgravate of Hesse in Germany; situated about thirty-two miles north of Mentz, in east longitude, and 50° 30' north lat.

BEIRA, a province of Portugal, lying between Entre-minho-Duro, on the north, and Estremadura on the south.

BEIZA, or BEIZATH, in hebrew antiquity, a word signifying an egg, was a certain measure in use among the Jews. The beiza was likewise a gold coin, weighing forty drachms, among the Persians, who gave out that Philip of Macedon owed their king Darius a thousand beizaths or golden eggs for tribute-money; and that Alexander the Great refused to pay them, saying, that the bird which laid these eggs was flown into the other world.

BEL, in botany, a name used by some for the elder-cucumber. See CUCUMBER.

BELAC, a small city of la Marche, in the kingdom of Naples; east longitude 19° 15', and north latitude 46° 15'.

BELAY, in the sea-language, is to make fast the ropes in their proper places.

BELCASTRO, a city of Calabria, in the kingdom of Naples; east longitude 17° 15', and north latitude 39° 15'.

BELCOE, a town of Ireland, situated on Lough-ninny, in the county of Fermanagh, and province of Ulter: west longitude 6° 6', and north lat. 54° 8'.

BELEZ, a port-town of Ireland, in the county of Antrim, and province of Ulter; west longitude 5° 40', and north lat. 50° 30'.
BEL

are hung, or the timber frame where-by they are supported.

BELGARDEN, a town of eastern Pomeronia, in Germany, subject to Prussia: east longitude 15° 5', and north lat. 54°.

BELGOROD, the capital of a province of the same name, in Russia, situated almost in the middle of that empire: east long. 37°, and north lat. 51° 20'.

BELGOROD is also a fortified town of Befiarabia, in Turkey; situated on the Black-sea, at the mouth of the river Neifer: east longitude 31°, and north latitude 46° 30'.

BELGRADE, the capital of the province of Servia, in European Turkey; situated on the south side of the Danube, in east longitude 21° 20', and north lat. 45°. It was yielded to the Turks in 1739.

BELI ocularis, in natural history. See the article OCULUS.

BELIEF, in a general and natural sense, signifies a persuasion or strong affent of the mind to any proposition; but, in a more restrained and technical sense, it imports that kind of assent which is founded on the authority or testimony of some persons attesting the truth of any matter proposed. Belief is generally distinguished into divine and human, not with regard to the proposition believed, but with regard to the testimony on which we believe it. When God reveals any thing to us, this gives us the testimony of divine belief. See the article FAITH.

But what man only acquaints us with, produces only a human belief. See the article EVIDENCE.

BELINGELA, or MELONGENA, in botany. See MELONGENA.

BELL, a well-known machine, ranked by musicians among the musical instruments of percussion.

The metal of which a bell is made, is a composition of tin and copper, or pewter and copper: the proportion one to the other is almost twenty pounds of pewter, or twenty-three pounds of tin, to one hundred weight of copper.

Bell-metal is prohibited to be imported, as are hawk-bells, &c.

The constituent parts of a bell are the body or barrel, the clapper on the inside, and the ear or cannon on which it hangs to a large beam of wood.

The found of a bell consists in a vibratory motion of its parts, much like that of a musical chord. The stroke of the clapper must necessarily change the figure of the bell, and of a round make it oval; but the metal having a great degree of ductility, that part will return back again which the stroke drove farthest off from the center, and that even some small matter nearer the center than before; so that the two parts which before were extremes of the longest diameter, do then become those of the shortest; and thus the external surface of the bell undergoes alternate changes of figure, and by that means gives that tremulous motion to the air, in which the sound consists.

DIVING-BELL. See the article DIVING.

BELL-FOUNDRY. See FOUNDRY.

BELL-FLOWER, campanula, in botany. See the article CAMPANULA.

BELL-WEEP, jacea nigra, in botany. See the article JACEA.

BELLA-DONNA, in botany, a genus of the pentandria-monogynia class of plants called by Linneus atropa.

The flower consists of a single infundibuliform petal, divided into five segments at the mouth; and its fruit is a bilocular globose berry, containing a number of kidney-shaped seeds. See plate XXVII. fig. 1.

BELLECLAIRE, a town of Ireland in the county of Sligo, and province of Connaught, about twenty-three miles south-west of Sligo: west longitude 5° 5', and north latitude 53° 55'.

BELLE, a town in French Flanders, about twelve miles north-east of Lille: east longitude 2° 40', and north latitude 50° 45'.

BELLENTS, a city of Switzerland, in east longitude 9°, and north latitude 46°.

BELLESM, a town of the Orleans in France: east longitude 40°, north lat. 48° 30'.

BELLEY, a town of Burgundy, in France, situated on the frontiers of Savoy, about sixteen miles north-west of Chambery: east longitude 5° 20', north lat. 45° 40'.

BELLEVILLE, a town of the Lyonnais, in France, about nineteen miles north of Lyons: east longitude 4° 45', north latitude 46° 8'.

BELIDASTRUM, in botany, a genus of plants called by Linneus doronicum. See DORONICUM.

BELLIDIODES, in botany, the name by which Vaillant calls the chrysanthenum of other botanists. See the article CHRYSANTHEMUM.

PELLING of HOPS denotes their opening and expanding themselves. See HOPS.

BELLI, DAISY, in botany, a genus of the fynega or polygama superstitia class of plants, the compound flower of which is radi-
BEL [ 285 ]

radiated, and the particular hermaphrodite one of a funnel shape, and has no other pericarpium than the cup. See plate XXVII. fig. 2.

Culture produces a great number of variations in the colour and duplicature of the flower, all of which have been described by authors as different species; whence this plant has been divided into almost fifty. The seeds are oblonger oval in their figure.

BELLEISLE, an island on the coast of Brittany, in France; west longitude 3°, and north latitude 47° 26'.

BELLEISLE is also an island of America; on the coast of New Britain.

It gives name to the freights which separate Newfoundland from New-Britain; west longitude 58° north lat. 52°.

BELLOWS, a distemper common in countries where they smelt lead ore.

It is attended with languor, intolerable pains and inflammation of the belly, and generally colic.

Beasts, poultry, &c. as well as men, are subject to this distemper; hence a certain space round the smelting-houses is called bellon-ground, because it is dangerous for an animal to feed upon it.

BELLONARII, in Roman antiquity, the priests of Bellona, who, in honour of that goddess, used to make incisions in their body; and after having gathered the blood in the palm of their hand, give it to those who were partakers of their mysteries.

BELLONIA, in botany, a genus of the pentandria-monogynia class of plants, whose flower, consisting of a single petal, is of the rotated kind; the fruit is a capsule of a turbinate-oval figure, surrounded by the cup, and containing only one cell, in which are numerous very small roundish seeds.

BELLOWING, among sportsmen, denotes the noise of roes in rutting-time.

BELLOWS, a machine so contrived, as to agitate the air with great briskness, expiring and inspiring the air by turns, and that only from enlarging and contracting its capacity.

This machine is used in chambers and kitchens, in forges, furnaces and foundries, to blow up the fire: it serves also for organs and other pneumatic instruments, to give them a proper degree of air: all these are of various constructions, according to their different purposes, but in general they are composed of two flat boards, sometimes of an oval, sometimes of a triangular figure; two or more hoops, bent according to the figure of the boards, are placed between them; a piece of leather, broad in the middle, and narrow at both ends, is nailed on the edges of the boards, which it tights unites together: also on the hoops which separate the boards, that the leather may the easier open and fold again; a tube of iron, brass, or copper is fastened to the undermost board, and there is a valve within that covers the holes in the underboard, to keep in the air.

Each pair of bellows imported is valued in the book of rates at three shillings and four-pence, and pays duty .77d., whereas of .67d. is drawn back on exportation.

BELLY, in ichthyology, a fish called by Artedi the acipenser without tubercles.

BELLY-GRASS, a calcareous, or stony concretion found in the belluga-fish, and said to be good in cases of the stone, also to promote delivery.

BELLULA-BOS, in ichthyology, a fish called by Artedi the variegated ray, with ten prickly tubercles on the back.

BELTUNA, the capital of the Bellunese, in the dominions of Venice, about forty miles north of Padua; east longitude 12° 40', and north lat. 45° 20'.

BELLY, in anatomy, the same with what is more usually called abdomen, or rather the cavity of the abdomen. See the article ABDOMEN.

BELOAR, a stone, otherwise called wdirius. See the article WIDIRIUS.

BELOMANCY, a fort of divination by means of arrows, praflified in the ear, and particularly in Arabia.

Belomancy has been performed different ways, whereof one was this: suppose a parcel of arrows, eleven or more of them being put into a bag; these were afterwards drawn out, and according as they were marked or not, they judged of future events.

BELONE, in ichthyology, the name antiently given to the acus of Oppian, or gar-fish.

BELT, balteus, in the military art, a leathern girdle for sustaining the arms, &c. of a soldier.

BELTS, in astronomy, two zones, or girdles, surrounding the body of the planet of Jupiter, more lucid than the rest, and of unequal breadth.

BELTS, in geography, certain straits between the German ocean, and the Baltic. The belts belong to the king of Denmark, who exacts a toll from all ships which
BEN

which pass through them, excepting those of Sweden, which are exempted.

BELTURBET, a town of Ireland, in the county of Cavan and province of Ulster, situated upon the river Erne, about eight miles north of Cavan, in $7^\circ 35'$ west longitude, and $54^\circ 7'$ north lat.

BELTZ, the capital of a palatinate of the same name, in the province of Redussia, in Poland: east longitud. $24^\circ$, and north lat. $57^\circ 6'$

BELVIDERE, in the Italian Architecture, &c. denotes either a pavilion on the top of a building, or an artificial eminence in a garden; the word literally signifying a fine prospect.

BELVIDERE, in Geography, the capital of a province of the same name, on the western coast of the Morea, in $22^\circ$ east long. and $37^\circ$ north lat.

BEMA, in ecclesiastical antiquity, denoted the most sacred part of a church, or that where the altar stood.

BEMA was also used for the bishop's throne, as well as for the ambo. See the article Ambo.

BEMBER, a chain of mountains, dividing India from Tartary.

BEMSTER, a market-town of Dorsetshire, about twelve miles north-west of Dorchester, situated in $2^\circ 50'$ west long. and $50^\circ 45'$ north lat.

BEN, BEEN, or BEHEN. See BEEN.

Ben of Judea, a name sometimes used for benzoin. See the article Benzoin.

BENAVARRE, or BENGUARRE, a town of Aragon, in Spain, situated in $10^\circ$ east long. and $42^\circ 5'$ north lat.

BENECULA, one of the western isles of Scotland.

BENCALIS, or BANCALIS. See the article BANCALIS.

BENCH, or BANC, in law. See BANC.

Free Bench signifies that estate in copyhold lands, which the wife, being espoused a virgin, has after the decease of her husband, for her dower, according to the custom of the manor. As to this free-bench, several manors have several customs; and in the manors of East and West Enborne, in the county of Berks, and other parts of England, there is a custom, that when a copyhold tenant dies, the widow shall have her free-bench in all the deceased husband's lands, whilst she lives single and chaste; but if the commits incontinency, she shall forfeit her estate: nevertheless, upon her coming into the court of the manor, riding on a black ram, and having his tail in her hand, and at the same time repeating a form of words prescribed, the steward is obliged, by the custom of the manor, to re-admit her to her free bench.

Widow's Bench. See WIDOW.

Amiable Bench. See AMIABLE.

BENCHERS, in our inns of court, the senior members of the society, who are invited with the government thereof.

BENCOOLEN, a town and fort on the south-west coast of Sumatra, belonging to the East India Company, from whence great quantities of pepper are imported. It is situated in $101^\circ$ east long. and $4^\circ$ south latitude.

BEND, in heraldry, one of the nine honourable ordinaries, containing a third part of the field when charged, and a fifth when plain. It is sometimes, like other ordinaries, indented, ingrailed, &c. and is either dexter or sinister.

Bend dexter is formed by two lines drawn from the upper part of the shield on the right; to the lower part of the left, diagonally. It is supposed to represent a shoulder belt, or a scarf, when worn over the shoulder. See plate XXVII. fig. 3.

Bend sinister is that which comes from the left side of the shield to the right; this the French heralds call a barre. See plate XXVII. fig. 3.

In Bend is when any things, borne in arms, are placed obliquely from the upper corner to the opposite lower, as the bend lies.

Parti per Bend, Point in Bend, &c. See the articles PARTI and POINT.

BENDER, a town of Becharabia, in European Turkey, situated on the river Neifler, in $29^\circ$ east long. and $45^\circ 40'$ north latitude.

BENDERICK, a sea-port town, situated on the perian gulf.

BENDIDIA, a festival not unlike the bacchanalia, celebrated by the Athenians in honour of Diana.

BENDING, in a general sense, the reducing a strait body into a curve, or giving it a crooked form. The bending of timber, boards, &c. is effected by means of heat, whereby their fibres are so relaxed that you may bend them into any figure.

Bending, in the sea-language, the tying two ropes or cables together: thus they say, bend the cable, that is, make it fast to the ring of the anchor; bend the sail, make it fast to the yard.

BENDITTO, a town of the Mantuan, in Italy, situated near the south shore of the river
river Po, about twelve miles south-east of Mantua, in 41° 20' east long. and 45° north lat.

**BENDLET**, in heraldry, the name with cotice. See the article Cotice.

**BENDS**, in a ship, the name with what is called wails, or wales; the outmost timbers of a ship's side, on which men set their feet in climbing up. They are reckoned from the water, and are called the first, second, or third bend. They are the chief strength of a ship's sides, and have the beams, knees, and foot-hooks bolted to them.

**BENDY**, in heraldry, is the field divided into four, six, or more parts, diagonal; and varying in metal and colour.

The general custom of England is to make an even number, but in other countries they regard it not, whether even or odd. See plate XXVIII. fig. 4.

**Counter Bendy** is used by the French, to express what we ordinarily call bendy of fix per bend sinister, counter-changed.

**Barry Bendy** See the articles **Barry**. **Paly Bendy** See the articles **Paly**.

**BENE**, or **De bene esse**. See the article **De bene esse**.

**BENCAPED**, among sailors. A ship is said to be bencape when the water does not flow high enough to bring her off the ground, out of the dock, or over the bar.

**BENEDICITE**, among ecclesiastical writers, an appellation given to the song of the three children in the fiery furnace, on account of its beginning with the word benedicto.

**BENEDICTINS**, in church-history; an order of monks, who profess to follow the rules of St. Benedict.

The benedictines, being those only that are properly called monks, wear a loose black gown, with large wide sleeves, and a capuchie, or cowl, on their heads, ending in a point behind. In the canon law, they are styled black friers, from the colour of their habit.

The rules of St. Benedict, as observed by the English monks before the dissolution of the monasteries, were as follows: they were obliged to perform their devotions seven times in twenty-four hours, the whole circle of which devotions had a respect to the passion and death of Christ: they were obliged always to go two and two together: every day in lent they were obliged to fast till six in the evening, and abated of the usual time of sleeping and eating; but they were not allowed to practice any voluntary austerily without leave of their superior: they never converted in their refrectery at meals, but were obliged to attend to the reading of the scriptures: they all slept in the same dormitory, but not two in a bed; they lay in their cloaths: for small faults they were shut out from meals; for greater, they were debarred religious commerce; and excluded from the chapel; and as to incorrigible offenders, they were excluded from the monasteries. Every monk had two coats, two cowls, a table-book, a knife, a needle, and a handkerchief; and the furniture of their bed was a mat, a blanket, a rug, and a pillow.

**BENEDICTIO**, or blessing. The Hebrews, under this name, understand the present usually sent from one friend to another, as also the blessing conferred by the patriarchs, on their death-beds, upon their children.

The privilege of benediction was one of those early initiates of honour and respect paid to bishops in the primitive church. The custom of bowing the head to them, and receiving their blessings was become universal. In the western churches there was antiently a kind of benediction which followed the Lord's prayer; and after the communion, the people were dismissed with a benediction.

**BENEDICTUS**, among physicians, an epitaph given to several medicines, on account of their lenitive qualities: thus we meet with *aqua benedicta*, *benedictum laxatium*, *vinum benedictum*, &c.

**BENEDITTO SACCO.** See the article Sacco.

**BENEFICE**, *beneficium*, in an ecclesiastical fenfe, a church endowed with a revenue, for the performance of divine service; or the revenue itself assigned to an ecclesiastical person, by way of stipend, for the service he is to do that church.

All church-preferences, except bishoprics, are called benefices; and all benefices are, by the canonists, sometimes styled dignities: but we now ordinarily distinguish between benefice and dignity, applying dignity to bishoprics, deaneries, archdeaconsies, and prebendaries; and benefice to parfonages, vicarages, and donatives.

Benefices are divided by the canonists into simple and facerdotal; in the first there is no obligation but to read prayers, sing, &c. such are canerries, chaplainships, chantries, &c. the second are charged with the cure of souls, or the direction and guidance of consciences; such are vicarages, rectories, &c.
BEN

The romans distinguish benefices into regular and secular.

Regular or titular benefices are those held by a religious, or a regular, who has made profession of some religious order: such are abbeys, priories, conventuals, &c. or rather a regular benefice is that which cannot be conferred on any but a religious, either by its foundation, by the institution of some superior, or by prescription: for prescription, forty years possession by a religious makes the benefice regular.

Secular benefices are only such as are to be given to secular priests, i.e. to such as live in the world, and are not engaged in any monastic order. All benefices are reputed secular, till the contrary is made to appear. They are called secular benefices, because held by seculars; of which kind are almost all cures. Some benefices, regular in themselves, have been secularized by the pope's bull. The canonists distinguish three manners of vacating a benefice, viz. de jure, de facto, and by the sentence of a judge.

A benefice is vacated de jure, when the person enjoying it is guilty of certain crimes expressed in those laws, as herefy, simony, &c.

A benefice is vacated de facto, as well as de jure, by the natural death, or the resignation of the incumbent; which resignation may be either express, or tacit, as when he engages in a state, &c. inconsistent with it, as, among the romans, by marrying, entering into a religious order, or the like.

A benefice becomes vacant by the sentence of a judge, by way of punishment for certain crimes, as concubinage, perjury, &c.

It is observed, that antiently there were five cates by which benefices were acquired; by the nominative, as in royal nomination; by the genitive, as when the children of great men, &c. are provided of benefices by their birth; by the dative, as when speaking of a benefice, it is said date, and debitur nobis; by the accusative, as where, by virtue of an accoutum, either true or false, an incumbent is dispossessed, and another admitted; by the ablative, as when benefices are taken away by force from the poor and helpless: but the vocative, which is the most just and legitimate, is out of use.

A benefice in commendam is that, the direction and management of which, upon a vacancy, is given, or recommended, to an ecclesiastic, for a certain time, till he may be conveniently provided for. See the articles Regular and Secular.

Possession of a benefice. See the article Possession.

Suspenda beneficio. See Suspension.

Primo beneficio ecclesiastico baldando. See the article Primo.

Benefit of clergy. See Clergy.

Beneschau, the name of two towns, the one in the kingdom of Bohemia, and the other in Silesia.

Benevento, a town of Leon, in Spain, situated on the river Efta, about forty miles south of the city of Leon, in 6° west longitude, and 42° 10' north latitude.

Benevento, the capital of the farther Principate, in the kingdom of Naples, about thirty-four miles north-east of the city of Naples; situated in 15° 30' east longitude, and 41° 15' north latitude.

Benvolence is used in the statutes of this realm for a voluntary gratuity given by the subjects to the king.

Benevolentia regis babenda is the ancient form of purchasing the king's pardon and favour, on subscription, in order to be referred to place, title, or estate.

Benville, a town of Alfaace, in Germany, about fifteen miles south of Strafburg, situated in 7° 30' east longitude, and 48° 25' north lat.

Benga, one of the Molucca-islands. See the article Molucca.

Bengal, the most easterly province of the mogul's empire, lying at the bottom of a large bay, which takes its name from this province.

It is one of the most fertile provinces in India, being yearly overflowed by the Ganges, as Egypt is by the Nile.

Benguela, a kingdom upon the western coast of Africa, between Angola and Jaga: it is also the name of the capital of that kingdom.

Benjamin, the same with benzoin. See the article Benzoin.

Benjar, the most considerable river of the island Borneo, which, arising near the middle of that island, runs southwards, and falls into the great south sea.

Benin, the capital of a country of the same name, on the coast of Guinea, situated in 5° east longitude, and 7° 30' north latitude.

Bensheim, a town of Germany, situated on the east side of the river Rhine, about ten miles east of Worms, in 8° 30' east longitude, and 49° 40' north latitude.

Bentheim,
BERGHEIM, the capital of a county of the same name, in the circle of Westphalia; situated in 7° 15' east long. and 52° 25' north latitude.

BENTIVOGLIO, a town in the territory of Bologna, in Italy, about ten miles north of that city, situated in 42° east long. and 44° 36' north latitude.

BERZEN, a town of Bohemia, situated north-west of Prague, and 45° 30' north latitude.

BERZOIN, a dry and solid resin, brought to us in masses of various sizes, from the East Indies, particularly from the kingdom of Siam, and the islands of Java and Sumatra. It is to be chosen fresh, and of a quick pungent smell, easily broken, and full of the white almond-like granules. The black benzoin is vastly inferior to this, and ought wholly to be rejected. It is a powerful expectorant, and is given with success in infarctions of the lungs, and in exacerbated coughs. It is sometimes used externally in plasters applied to the head for headache, and to the stomach to promote digestion. The preparations of benzoin are, 1. A tincture, made in spirit of wine, and recommended in taking freckles from the skin. 2. Flowers of benzoin, which are sudorific, and good in asthmas and tubercles of the lungs. And, 3. Oil and spirit of benzoin, the latter of which is diuretic, but not very pleasant, by reason of its empyreuma; and the former is accounted a good vulnerary, both in external and internal application.

BER, in botany, that species of the jujube-tree, which produces the gum laca.

BERRAMS, a coarse cloth, all made with cotton-thread, which comes from the East Indies, and particularly from Surat.

BERRAR, an inland province of India, on this side the Ganges, lying westward of Oryxa.

BERAUN, a town of Bohemia, situated in 14° east longitude, and 50° 2' north latitude.

BERAY, a town of Normandy, in France, situated in 1° 20' west lon. and 49° 6' north lat.

BERBERI, the Palsy, in medicine. See the article Palsy.

BERBERIS, the Barberry-bush, a genus of plants of the hexandria-monogynia class, the flower of which consists of six roundish, hollow, erecto-patent petals, and is scarce larger than the cup: the fruit is a cylindrical, obtuse, umbilicated berry, with one cell, containing two oblong, cylindrical, and obtuse seeds. Vol. I.
BERGHMOT, BERKELEY, BERKSHIRE, a county of England, lying south of the river Thames, in 51° 30' north lat.

BERGERAC, a city of Guienne in France, situated on the river Dordogne, about twenty miles north of Bordeaux, in 4° 5' east longitude, and 54° 15' north lat.

BERGER-OF-ZOOM, a fortified town of Dutch Brabant, about twenty miles north of Antwerp, in 4° 5' east longitude, and 57° 30' north lat.

BERGERAC, a city of Guienne in France, situated on the river Dordogne, about forty miles east of Bourdeaux, in 25° east lon. and 44° 55' north lat.

BERG-GRUEN, a kind of green ochre, used in painting.

BERGHMOT, an assembly, or court, held upon a hill, in Derbyshire, for deciding controversies among the miners.

BERGZABERN, a town of lower Alsace, about five miles south of Landau, in 5° east lon. and 49° 5' north lat.

It is subject to France.

BERIBERI, a kind of palsy, common in the East Indies. The word, in the language of the country, signifies a sheep, and was given by the natives to this distemper, because the patients, on throwing out their knees, and lifting up their legs, seem to imitate sheep in their walk.

BERKSHIRE, a county of England, lying on the south side of the river Thames, opposite to Oxfordshire and Buckinghamshire.

It gives the title of earl to a branch of the Howard family.

BERLIN, the capital of the king of Prussia's dominions in Germany, situated on the river Spree, in the marquisate of Brandenburg: east long. 14°, and north lat. 52° 30'.

BERLIN is also the name of a kind of chariot, so called from the city of Berlin.

BERME, in fortification, a space of ground left at the foot of the rampart, on the side next the country, designed to receive the ruins of the rampart, and prevent their filling up the fosse. It is sometimes palisaded, for the more security; and in Holland it is generally planted with a quick-set hedge. It is also called liziere, relais, foreland, retraite, pas de fourys, &c.

BERMUDA-ISLANDS, a cluster of very small islands, in the Atlantic ocean, lying almost in the shape of a shepherd's hook, in 65° west longitude, and 32° 30' north latitude.

BERMUDIANA, in botany, the name by which Tournefort calls the Acanthium of Linnaeus. See SISYRINCHIUM.

BERN, a town of Bohemia, about fifteen miles west of Prague, in 14° east longitud. and 50° north lat.

BERN is also the name of a city and canton in Switzerland; the former being situated in 7° 20' east lon. and 47° north lat.

The canton of Bern is by far the most extensive and powerful of all Switzerland: their government is arithotocral, and their religion protestant, according to the presbyterian form.

BERNARDINES, an order of monks, founded by Robert, abbot of Moleme, and reformed by St. Bernard. They wear a white robe with a black capulary, and when they officiate they are clothed with a large gown which is all white, and hath great sleeves, with a hood of the same colour. They differ but very little from the cistercians. See the article CISTERCIANS.

BERNAW, the name of three towns in Germany, one in the electorate of Brandenburg, another in the bishopric of Ratibon, and the third in the upper Palatinate.

BERNBURG, a town of Anhalt, in the circle of upper Saxony, situated in 12° 20' east lon. and 51° 50' north lat.

BERNEDA, one of the western isles of Scotland, lying in latitude 56° 48'.

BERNHARDIA, in botany, the name by which Houfton calls the crotor of Linnaeus. See the article CROTON.

BERNICLA, the BARNACLE, in ornithology, a kind of small sized goose, common on the coast of Lancashire, in winter.

BERNICLE, in the history of shell-fish, the name with the concha anatifera. See the article CONCHA.

BERRY, a round fruit, for the most part soft, and covered with a thin skin, containing seeds in a pulpy substance; but if it be harder, or covered with a thicker skin, it is called plum, apple.

Berries grow scattering upon trees and shrubs, and in that are distinguished from actin, which are berries hanging in clusters. See the article ACINUS.

They are of various sizes, forms, properties, and uses, according to the plants on which they grow. Some are used in dyeing, as French berries. See the article AVIGNON-BERRY.

The most remarkable in the materia medica are barcæ alkekengi, or winter-cherry berries, agnus castus berries, bay berries, juniper berries, and myrtle ber-
BERRY, in botany, a name sometimes given to Berries, either by the dyers, who imported from the British plantations, paid for every 20s. value, upon oath, 2s. 10d. d. whereas 2s. 4d. d. is drawn back on exporting them. French berries, for the same purposes, pay 11s. 7d. d. for every 20s. value; whereas, upon exporting them, 6s. 1d. d. is drawn back.

BERWICK, a borough-town on the north of Britain, situated on the river Tweed, about fourteen miles north of Edinburgh, in 56° 27' north latitude, and 4° 20' west longitude.

BERWICK-POINT, a cape at the entrance of the Frith of Forth, about seventeen miles east of Edinburgh, in 4° 5' north latitude, and 1° 40' west longitude.

BERRY-DRAKE, or BERRY-DRAKE, a coast of Scotland, situated on the north side of the river Tweed, in 3° 40' west longitude, and 56° 40' north latitude.

BERY-CRYSTAL, or BERY-CRYSTAL, a kind of mineral, found in the East Indies and about the gold mines of Peru; it has also some from Silesia, but what are brought from thence are often coloured crystals than real beryls; and when they are genuine, they are greatly inferior both in hardness and lustre to the oriental and peruvian kinds.

The beryl, like most other gems, is met with both in the pebble and columnar form, but in the latter most frequently. In the pebble form it usually appears of a roundish but flattened figure, and commonly full of small flat faces, irregularly disposed. In the columnar or crystalline form it always consists of hexagonal columns, terminated by hexagonal pyramids. It never receives any admixture of colour into it, nor lores the blue and green, but has its genuine tinge in the degrees from a very deep and dusky to the palest imaginable of the hue of sea-water.

The beryl, in its perfect state, approaches to the hardness of the granet, but it is often softer; and its size is from that of a small rat to that of a pea, a horse-bean, or even a wallnut. As to its virtues, some fanciful people have advised it to be worn to prevent sea-sickness. It is said to be an astringent; and, indeed, its colour is owing to a mixture of cuprous and ferrugmeous particles, but they are in too small quantity to have any effect as medicines.

BERYL-CRYSTAL, in natural history, a species of what Dr. Hill calls elipomacrystyla, or imperfect crystals, is of an extreme pure, clear, and equal texture, and scarce ever subject to the slightest films or blenmishes. It is ever constant to the peculiarity of its figure, which is that of a long and slender column, remarkably tapering towards the top, and very irregularly hexagonal. It is of a very fine transparence, and naturally of a pale brown, and carries so evident marks of distinction from all other brown crystals, that our lapidaries call it, by way of eminence, the beryl-cystal, or simply the beryl.
Byzantium, in the time of the christian emperors; from hence the gold offered by the king at the altar, is called belant, or bilant.

**BESANTS**, in heraldry, round pieces of gold, without any lamps, frequently borne in coats of arms. See plate XXVII. fig. 8.

**BESIÆKS**, a city of lower Languedoc, in France, about two miles north of the Mediterranean, and fifteen north-east of Narbonne, in 3° east long. and 43° 25' north lat.

**BESLERIA**, in botany, a genus of the didynamia-angiospermae class of plants. Its flower consists of a single petal. Its fruit is a berry of a globose form, containing several seeds, very small, and of a roundish figure.

**BESORCH**, a coin of tin, or some alloyed metal, current at Ormus, at the rate of two-thirds of a farthing sterling.

**BESSARABIA**, a province of Turkey in Europe, lying among the several mouths of the Danube.

**BESSIS**, or **Bess**. See the article Bes.

**BESSY**, one of the Molucca-islands, situated in the Indian ocean, in 10° 50' south latitude.

**BESTAIL, or BESTIAL, in ancient statutes, all kinds of beasts, or cattle, especially those purveyed for the king's provision.

**BESTIARII**, in roman antiquity, such as fought against beasts, or those who were exposed to them by sentence of the law. There were four kinds of bestiarii; the first were those who made a trade of it, and sought for money; the second were such young men as, to shew their strength and dexterity in managing their arms, fought against beasts; the third kind was, where several bestiarii were let loose at once, well armed against a number of beasts; and the fourth kind were those condemned to the beasts, consulting either of enemies taken prisoners in war, or as being slaves, and guilty of some enormous crime; those were all exposed naked, and without defence.

**BESTRICIA**, a city of Transilvania, remarkable for the gold mines near it: it is situated in 22° east lon. and 48° north latitude.

**BETA, beet**, in botany. See Beet.

**BETANCOS**, a city of Galicia, in Spain, in 8° 50' west lon. and 43° 15' north lat.

**BETAW, or BETUE**. See Betue.

**BETEL, or Betle**, in botany, a kind of long pepper, found in Malabar, and other parts of the East Indies.

Its leaves are esteemed cordial, and give a fine flavour to the breath; in which intention, they are much in use among the natives of those parts.

**BETELFAGUI**, a town of Arabia Felix, about thirty-five leagues from Mocha.

**BETHLEHEM**, once a flourishing city of Palestine, but now only a poor village, is still much frequented, as being the place of our Saviour's birth: it is situated in 36° east lon. and 34° 36' north lat.

**BETHELEN** is also the name of a town of Brabant, in the Austrian Netherlands, about two miles north of Louvain, situated in 4° 12' east lon. and 51° north lat.

**BETHELHMITES**, in church-history, a religious order, called also starr-bearers, stelliferi, because they were distinguished by a red star with five rays, which they wore on their breast, in memory of the star that appeared to the wise men, and conducted them to Bethlehem.

There is an order of betlehemites still subsisting in the Spanish West Indies, who are habited like capuchins, with this difference, that they wear a leather girdle instead of a cord, and on the right side of their cloak an elcueteon, representing the nativity of our Saviour.

**BETHUNE**, a little fortified town of Artois, in the French Netherlands, about thirteen miles north of Arras, situated in 2° 35' east lon. and 50° 32' north lat.

**BETE, or Betel**, in botany. See the article Betel.

**BETLYS**, a city in the north of Curdiſtan, situated on a steep rock, at the south end of the lake Van, on the frontiers of Persia and Turkey, in 45° east longit. and 37° 30' north lat.

**BETONY, betonica**, in botany, a genus of the didynamia-gymnospermae class of plants, whose flower, consisting of a single labiatae petal, is of a bright red colour, and diploed in short spikes; the cup contains four ovated seeds. See plate XXVII. fig. 5.

*This plant is common in our woods: Bauhine calls it betonica purpurea. It is a famous cephalic.*

**BETONY** is also a name sometimes given to several species of veronica, or speedwell. See the article Veronica.

**BETROTHMENT**, among civilians, the same with espousals. See the article Espousals.

**BETUE, or Betaw**, a territory in Dutch Guelderland, between the rivers Maele and Lech, supposed to be the ancient Batavia.

**BETULA**,
BETULA, the birch-tree, in botany. See plate XXVII. fig. 6. and the article Birch.

BEVUCM, a town of Brabant in the Austrian Netherlands, about seven miles south of Louvain, situated in 4° 45' east long. and 50° 45' north lat.

BEVEL, among masons, carpenters, joiners, and bricklayers, a kind of square, one leg whereof is frequently crooked, according to the sweep of an arch or vault. It is moveable on a center, and so may be set to any angle. The make and use of this instrument is pretty much the same as those of the common square and mitre, except that those are fixed, the first at an angle of ninety degrees, and the second at forty-five; whereas the bevel being moveable, it may in some measure supply the place of both, which it is chiefly intended for, serving to set off or transfer angles, either greater or less than ninety or forty-five degrees.

BEVEL-ANGLE, any other angle besides those of ninety or forty-five degrees. See the article Angle.

BEVELAND, the name of Revile', another then, E, EXQU.

BEVERLEY, a borough-town of Yorkshire, about seven miles north of Hull, in 52° west lon. and 53° 50' north lat. It sends two members to parliament.

BEVILLE', in heraldry, a thing broken or opening like a carpenter's rule: thus we say, he beareth argent, a chief beville, vert, by the name of Beverlis. See plate XXVII. fig. 7.

BETHEN, the name of two towns in Silezia, one of which is famous for a silver mine.

BEWDLEY, a borough-town of Worcestershire, situated on the river Severn, about twelve miles north of Worcester, in 28° 20' west lon. and 52° 25' north lat. It sends only one member to parliament.

BEWITS, in falconry, pieces of leather, to which a hawk's bells are fastened, and buttoned to his legs.

BEXOQUILLO, a name sometimes given to the white ipecacuanha.

BEY, among the Turks, signifies a governor of a country or town. The Turks write it begh, or bek, but pronounce it bey.

This word is particularly applied to a lord of a banner, whom, in the same language, they call fangiacheg or bey.

Every province in Turky is divided into seven fangiaches, or banners, each of which qualifies a bey, and these are all commanded by the governor of the province, whom they also call begler-beg, that is, lord of all the beghs or beys of the province: these beys are much the same as bannerets were formerly in England.

BEY of Tunis, the same with the day of Algiers, is the prince or king of that kingdom.

BEYLAN, a town of Syria, upon the road from Aleppo to Constantineople.

BEZANS, cotton cloths, which come from Bengal: some are white, and others striped with several colours.

BEZANT, or BEZANT. See the article BEZANT.

BEZANTLER, the branch of a deer's horn, next below the brow-ander.

BEZOAR, in a general sense, an antidote, or medicine intended to prevent the fatal effects of poison.

Oriental Bezoar, a moderately hard and heavy stone, very variable and uncertain in size, shape, and colour. It is generally of a round form, and its lize is between that of a herte-bean and that of a small walnut, though there are some larger, and others smaller than peas. The ordinary colour is a dusky olive or greenish brown.

It is always smooth and glossy on the surface, and, when broken, is found to consist of a great number of coats or crusts of stony matter, laid one over another, and often formed upon a piece of flesh, or feed of a snlit, or some such thing, for a nucleus, or base.

This is a drug of very great price, and of very great fame; but it is not of the number of those things that have been proved to delerive the repute they stand in. It is brought to us from Persia, and many parts of the East Indies: it is to be chosen entire, not in strays, or fragments; of a greenish or olive colour, with some mixture of grey in it, and such as, when rubbed on paper, before whitened with cerulis, gives a yellowish colour.

The oriental bezoar is, like the pearl, a dipterem in the animal that produces it, and is a concretion of stony matter in the stomach of a quadruped of the goat-class, called caper brousarticus and bicus boso-articus by Aldrovand, Johnston, and others; but Ray calls it gazella indica cornubus rectis, &c.

In
BEZOAR. This stone is brought from Peru and Mexico chiefly: the creature in whose stomach it is found, is described by Hernandez under the name of *sciarina feu cerosus*, and by Johnston, under that of *capreolus marinus*. This bezoar is said to possess all the virtues of the oriental, but in a more refined degree, and therefore it requires to be given in a larger dose.

MONKEY-BEZOAR. This is a very rare and valuable stone found in a species of monkey common in the East-Indies, and in America, and described by Marcgrave under the name of *guariba*; great numbers of which are killed in hopes of bezoars, but it is very rare to find a stone in them. The great virtues ascribed to this stone have set it at so high a price, that pothecaries of oriental bezoars, resembling it in colour, have often pretended to call them by this name.

Porcupine-BEZOAR, or the pedro del porco, the hog-stone, so called from an opinion that it was taken from an animal of the hog-kind, tho' it is certain that they are always taken from the porcupine. This stone is of a yellow or brownish colour: the Indians set a great value on it as a remedy against epidemic diseases, common in that part of the world, arising from a debauched bile. They esteem it as an universal remedy, and give it against poisons, and malignant fevers; and the Europeans look upon it as a good remedy in the small-pox.

GERMAN BEZOARS, a stone found in the stomach of an animal of the goat-kind, called *rupi-capra*, or chamois. The virtues of this bezoar are said to equal, if not to excel, the oriental bezoar. It is reported to be a great remedy in malignant fevers, as also in the plague; and has the reputation of expelling poison. This bezoar is in use in the German shops, but in ours is scarce known.

Mineral BEZOAR, *bezoardicum minerale*, a preparation of butter of antimony, corrected with spirit of niter. Then the matter is powdered, and calcined in a crucible; after which it is edulcorated by washing, and spirit of wine burnt on it three or four times.

It is said to eradicate leprosies in the most obstinate cafes of that kind, if rightly managed. It is reported to be a very great fudorific, and is given in malignant fevers, in the small-pox and measles, and against the bites of venomous animals.

BEZOARDICUM martiale, or the bezoar of Mars, a preparation of the coccus of Mars, dissolved with butter of antimony. This medicine stops hepatic and other fluxes, and strengthens the vitæra.

BEZOARDICUM lunare, or the bezoar of silver, is made by mixing rectified butter of antimony with fine silver, dissolved in spirit of niter, upon which a powder falls to the bottom, which is the bezoar. This medicine is reckoned a specific in epilepsies, convulsions, megrims, and apoplexies. It is anodyne, sudorific, and of effect in curing the erysipelas.

BEZOARDICUM joviale, or bezoar of Jupiter, a greyish powder, prepared from regulus of antimony and tin, mixed with mercury sublimate, and diffilled in a retort. This is a strong diaphoretic, and of singular efficacy in disorders of the womb, as also in fevers, the plague and scurvy.

BEZOARDIC, an appellation given to whatever partakes of the nature of bezoar; also to compound medicines whereof bezoar makes an ingredient. See the article BEZOAR.

BIA, in commerce, a name given by the Siamee to those small shells which are called cowries thoughout almost all the other parts of the East-Indies. See the article COWRIES.

BIAFAR, a kingdom of Africa in Negritia, bounded on the west by the kingdom of Benin, on the north by that of Medra, and on the east and south by the kingdom of Mujac.

BIALOROD, a town of Basharabia, upon the Niefier. It is likewise called Akerman: east longitude 32° 20', north latitude 45° 24'.

BIALORODKO, the capital of the Ukraine, situated upon the river Pnetz.

BIARU, a cape on the north-east part of the island Macaflar, in the indian ocean.

BIARUM, in botany, a name sometimes used for the niluar.

BIAS, or BIAS, in a general sense, the inclination, or bent of a person's mind, to one thing more than another.
It also signifies the lead or weight put into a bowl, that draws or turns the course of it, any way to which the bias looks.

BIAITHANATI, Biaidanai, the fame with suicides, or Jelus de se.

BIBERSBERG, a town of upper Hungary, fifteen miles north of Presburg: east long. 17° 36', and north lat. 48° 35'.

BIBIO, the wine-tribe, in natural history, that found about empty wine calks. annexed, and the writing adductor. See ADDUCTOR.

BIBLE, Biibae, the book, a name given by christians, by way of eminence, to a collection of the sacred writings.

This collection of the sacred writings, containing those of the old and new testament, is justly looked upon as the foundation of the jewel as well as the christian religion. The Jews, 'tis true, acknowledged only the scriptures of the old testament, the correcting and publishing of which, is unanimously ascribed both by the Jews and the christians to Ezra. Some of the antient fathers, on no other foundation than that of this fabulous and apocryphal book, the second of Esdras, pretend that the scriptures were entirely lost in the babylonian captivity, and that Ezra had restored them again by divine revelation. What is certain is, that in the reign of Josiah, there were no other books of the law extant, besides that found in the temple by Hilkiah; from which original, that pious king ordered copies to be immediately written out, and search made for all the parts of the scriptures; by which means copies of the whole became pretty numerous among the people, who carried them with them into captivity. After the return of the Jews from the babylonian captivity, Ezra got together as many copies as he could of the sacred writings, and out of them all prepared a correct edition, disposing the several books in their natural order, and settling the canon of the scripture for his time; having published them, according to the opinion of most learned men, in the chaldee character, as the Jews: upon their return from the captivity, brought with them the chaldaic language, which from that time became their mother tongue, and probably gave birth to the chaldee translation of their scriptures.

Chaldee Bible is only the glosses, or explications made by the Jews when they spoke the chaldee tongue: whence it is called targumim, or paraphrases, as not being a strict version of the scriptures.

Hebrew Bible. There is, in the church of St. Dominic, in Bononia, a copy of the hebrew scriptures, which they pretend to be the original copy, written by Ezra himself. It is written in a fair character, upon a sort of leather, and made up into a roll, after the ancient manner: but its having the vowel points annexed, and the writing being fresh and fair, without any decay, these circumstances prove the novelty of the copy.

Greek Bible. It is a dispute among authors, whether there was a greek version of the old testament, more antient than that of the seventy-two Jews employed by Ptolemy Philadelphus to translate that book: before our Saviour's time, there was no other version of the old testament besides that which went under the name of the LXX. But after the establishment of christianity, some authors undertook new translations of the bible, under pretence of making them more conformable to the hebrew text. There have been about fixe of these versions, some whereof is charged with having corrupted several passages of the prophets relating to Jesus Christ; others have been thought too free in their versions, and others have been found fault with, for having confined themselves too servilely to the letter.

Latin Bible. It is beyond dispute, that the latin churches had, even in the first ages, a translation of the bible in their language; which being the vulgar language, and consequently understood by every body, occasioned a vast number of latin versions. Among these there was one which was generally received, and called by St. Jerom, the vulgar or common translation. St. Austin gives this version the name of the italic, and prefers it to all the rest. There were several other translations of the bible into Latin, the most remarkable of which are the versions of St. Jerom, Santis Paginus, cardinal Cajetan, and Hidore Clarus, all from the hebrew text. Besides these translations by catholic authors, there are some made by protestant translators of the hebrew; the most eminent of their versions are those of Sebastian Munster, Leo Juda, Sebastian Caffalieo, Theodore Beza, &c.

The Syrians have in their language a version of the old testament, which they pretend to be of great antiquity, most part.
part of which they say was made in Solomon’s time, and the rest in the time of Abgarus king of Edessa.

The Arabic versions of the Bible are of two sorts, the one done by Christians, the other by Jews. There are also several Arabic versions of particular books of Scripture, as a translation of the pentateuch from the Syriac, and another of the name from the Septuagint, and two other versions of the Pentateuch, the manuscripts of which are in the Bodleian Library. The Gospel being preached in all nations, the Bible, which is the foundation of the Christian religion, was translated into the respective languages of each nation; as the Egyptian or Coptic, the Indian, Persian, Armenian, Ethiopic, Syrian, Farmatian, Slavonian, Polish, Bohemian, German, English, c.

**BIBLIOTHECA**, in its original and proper sense, denotes a library, or place for repotting books.

**BIBLIOTHECA**, in matters of literature, denotes a treatise giving an account of all the writers on a certain subject: thus, we have bibliothecas of theology, law, philosophy, c.

There are likewise universal bibliothecas, which treat indifferently of all kinds of books; also select bibliothecas, which give an account of none but authors of reputation.

Many of the bibliothecas agree, in most respects, with what are otherwise called memoirs or journals of literature, except that these last are confined to new books; but there are other bibliothecas, that differ in nothing from catalogues of the writers on certain subjects.

**BIBLISTS**, biblistes, so the Roman Catholics call those Christians that make scripture the sole rule of faith; in which sense, all protestants either are, or ought to be, bibliists.

**BIBLUS**, in botany, the name with papyrus. See the article **Papyrus**.

**BIBRACH**, an imperial city of Swabia, in Germany, about twenty miles south-west of Ulm: east longitude 9° 30', and north latitude 48° 12'.

**BICANER**, a city of Asia, in the country of the Mogul, upon the Ganges. It is the capital of the province of Bacat: east longitude 87° 20', north lat. 28° 40'.

**BICAUDE**, in ichthyology, a name given to the Xiphias, or sword-fish. See the article **XIPHIAS**.

**BICE**, or **BISE**, among painters, a blue colour prepared from the lapis armenus.

**BICEPS**, in anatomy, the name of several muscles: as the

**BICEPS HUMERI, or CUBITI.** This being a muscle of the arm, has two heads: the first of which arises, with a long, round tendon, from the upper edge of the acetabulum (caput), running under the ligament of the articulation, in a channel, on the head of the shoulder-bone, wherein it is inclosed by a proper ligament: the other arises with a somewhat broad, flat, and long tendon, at the extremity of the processus coracoides (caput); in its descent, it strictly adheres to the coracobrachialis, and, parting from it, both these heads compose a large fleshy belly, which becoming tendinous near the cubit, is inclosed by a strong round tendon to the tubercle, at the upper head of the radius. When this muscle acts, the cubit is bended.

**BICEPS TIBLAE, or FEMORIS**, a muscle of the leg with two heads: the superior arising with a round tendon from the protuberance of the ischium; and the other, being the shortest, from the lower part of the os femoris: both which join together, and are inclosed by one tendon into the superior and external part of the perone.

Besides the office commonly assigned to this muscle, in bending the tibia, together with the vastorius and membranous, it is likewise employed in turning the leg, together with the foot and toes, outwards, when we sit with the knees bended.

**BICHET**, a quantity, or measure of corn, which differs according to the place where it is used. The bichet is not a wooden measure, as the minot at Paris, or the bushel at London, but is compounded of several certain measures. It is used in many parts of France, &c.

**BICHEL**, a certain quantity of land, namely, as much as may be fown by a bichet of corn.

**BICHERN**, the beak-iron of an anvil. See the article **ANVIL**.

**BICLINIUM**, in Roman antiquity, a chamber with two beds in it; or when
BIE, or Birela, is also a town of Smolenško, in Russia: east longitude 58°, and north latitude 56° 40'.

BIER, a wooden machine for carrying the bodies of the dead to be buried. See the article Burial.

BIENNÉ, in geography. See BIÉL.

BIGA, in antiquity, a chariot drawn by two horses a-breast. Chariot races, with two horses, were introduced into the Olympic games in the 9th Olympiad: but the invention was much more ancient, as we find that the heroes in the Iliad fight from chariots of that kind.

BIGAMY, the possession of two wives at the same time. This is the interpretation of the word, in a law passed in Jac. I. which makes bigamy felony. Among the Romans, persons convicted of bigamy, were branded with a note of infamy; and in France, they were antiently punished with death.

Bigamy, in the canon law, is when a person either marries two women successively, or only marries one woman who had been married before. Both which cases are accounted impediments to be a clerk, or to hold a bishoppick. It is also bigamy when a person marries a woman who had been debauched before; or when he hath known his own wife, after she has been debauched by another.

The romanists make a kind of bigamy by interpretation; as when a person in holy orders, or that has made profession of some monastic order, marries. This the bishop can dispense with on some occasions.

Spiritual bigamy is when a person holds two incompatible benefices, as two bishoppicks, two vicarages, &c.

BIGÉNIE, a market-town in Bedfordshire, situated on the river Ivel, about eight miles south-east of Bedford: west longitude 20°, north lat. 52° 4'.

BIGT, among seamen, denotes one roll, or round, of a cable or rope, when quoad up.

BIGNESS, or MAGNITUDE. See the article Magnitude.

BIGNONIA, the trumpet-flower, in botany, a genus of the dihydrom-aaricio-petria clafs. The flower is monopetalous, with a mouth campanulated, and divided into five segments: the fruit is a pod with two cells and two valves, containing several imbiculated, compressed, and winged seeds. There are no medical...
cinal virtues ascribed to this plant. See plate XXVIII. fig. 2.

BIGORRE, the south division of the province of Gaftony, in France.

BIGOT, a person foolishly obstinate and perversely wedged to any opinion, but particularly an opinion of a religious nature.

BILANCIS DEFERENDIS, in law, a writ directed to a corporation for carrying weights to a haven, there to weigh wool that perfons were formerly licensed to transport.

BILANDER, a small flat-bottomed vessel, with only one large mast and sail, and its deck raised half a foot above the plat-board.

BILARY PORE, porus bilarius. See the article Porus.

BILATERAL, in a general sense, denotes something with two sides. Hence, BILATERAL COGNITION, is kindship both by the father and mother side.

BILAWS, or BY-LAWS. See BY-LAWS.

BILBOA, the capital of the province of Biscay, in Spain, situated near the mouth of the river Ibaicabal, which, falling into the sea a little below it, forms a good harbour: west longitude 3°, and north latitude 43° 30'.

BILBOWS, a punishment at sea, answering to the stocks at land. The offender is laid in irons, or stocks, which are more or less ponderous, according to the quality of the offence of which he is guilty.

BILCOCK, in ornithology, a name sometimes used for the rollus, or water-rail.

BILDESTON, a market town of Suffolk, about ten miles south-east of Bury: east longitude 40°, and north lat. 52° 30'.

BILDEGE of a ship, the bottom of her floor, or the breadth of the place the ship rests on when she is aground. Therefore, bidge-water is that which lies on her floor, and cannot go to the well of the pump: and bidge-pumps, or burp-pumps, are those that carry off the bidge-water. They likewise lay the ship is biledged, when she has some of her timber struck off on a rock or anchor, and springs a leak.

BILE, a yellow, bitter juice, separated from the blood in the liver, collected in the porus bilarius and gall bladder, and thence discharged by the common duct into the duodenum. The bile is properly of two kinds, and is distinguished under them by the names of cystic and hepatic. The hepatic bile is thin, almost insipid, and scarce coloured; the cystic bile is thicker, more coloured, and very bitter.

This last, most properly called bile, as the first is denominated gall, is separated immediately from the glands of the liver into the porus bilarius. Its nature is such as to resist acids, and being mixed with other fluids, to give them the like property; and by a chemical analysis, is observed to afford some sulphur or oil, some volatile salt, and a good deal of fixed salt; in which particular it differs from all other animal liquors, and a moderate quantity of caput mortuum or earth: the latter is phlegm.

As to the manner in which the bile is secreted in the liver, there are various opinions. Some maintain, that the pores of the secretory glands of the liver, have a certain configuration and magnitude, to which the particles of the bile floating in the blood, being just answerable both in bulk and figure, are admitted in, and all the rest excluded. Others have recourse to a ferment which they suppose to reside in the liver, by means of which, the particles of the blood, in their passage through the secretory ducts, assume the form of bile. Others maintain, that the fluids contained in the blood of the vena porta, apply indifferently to the apertures of the secretory tubes, contiguous to the extremities of the vena porta, and to the extreme branches of the vena cava; that the pores of the cava being too little, and those of the porta large enough to admit certain particles, these being separated from the society of the essential part of the blood, and exposed to the action of the bilary vessels, constitute a new humour different from the blood, called bile. Dr. Keil accounts for the secretion of the bile, from the strong attraction between the particles of which it is composed. But all this is very systematical. As to the quantity of the bile secreted in the liver, we are ignorant, as Dr. Haller observes, of the velocity with which the blood of the mæterny circulates; we are ignorant of the causes which may either accelerate or retard its velocity; we have not the diameters of the vessels precisely ascertained, nor indeed do they remain invariably the same; and consequently were we to pretend to fix the quantity of bile secreted in the liver in any given time, we should certainly be very erroneous in our calculations.
BIL

The use of the bile is to attenuate the chyle, to mix the oleaginous parts of the blood with the aqueous, to stimulate the intestines, and in part to change the acid of the chyle. All these effects the cystic bile produces in a greater, and the hepatic in a lesser, degree.

The bile is a juice of great importance with regard to the good or ill habit of the animal. We have already seen how it operates upon the chyle, the blood, &c. to which we may add, that it likewise assists in digestion, by promoting putrefaction. A redundance of bile occasions many and terrible diseases, which, according to the heat of the humors, their acrimony, or vent given them, will appear in the shape of a remitting or intermittent fever, a cholera, or dysentery. Too great an evacuation of the bile, either upwards or downwards, robs the chylification of its main instrument. Hence it prevents digestion, secretion, excretion of the faces, and produces an acid temperature, coldness, weakness, paleness and swoonings. And if the bile be prevented in its discharge into the intestines, it produces a jaundice.

Of atra bilis, or black bile, Bohemian distinguitshes three sorts. 1st. The mild-est, arising from the matter of the blood put into too great a motion, which hence takes the name of adult: the 2d is an aggravation of the first, arising from the same causes, only heightened: and the 3d is a corrupt-parched bile, which is the worst of all. See BILIOUS.

BILEDULGERID, one of the divisions of Africa, having Barbary on the north, and Zaara, or the desert, on the south.

BILVEST, a town of Westphalia, in Germany, about seven miles south-east of Ravenburg: east longitude 8° 15', north latitude 52°.

It is subject to the king of Prussia.

BILGE, or BILIDGE. See BILGE.

BILIMBI, the name of a small tree about eight or ten feet high, called by Bonitus billungbing, and by European botanists, malus indica fruitu pentagono. It is cultivated in Malabar. The juice of the root allays a feverish heat, the leaves boiled make a vulnerary decoction, and the ripe fruit is eaten for its deliciousness.

BILINGUIS, in a general sense, signifies one that speaks two languages; but in law, is used for a jury that parleys in any case between an Englishman and a foreigner, whereof part ought to be English, and part strangers.

BILIOUS, in general, denotes something belonging to, or partaking of, the nature of bile. Hence,

BILIOUS FEVERS are those occasioned by the over-copiousness, or bad qualities of the bile. See the article BILE.

Concerning the bilious fever, which Dr. Pringle says is epidemic in marly countries and camps, he observes, that it begins with chills and latitude, pains in the head and bones, and a disorder at the stomach. At night the persun gets no rest, and often becomes delirious; but, generally, in the morning, an imperfect sweat brings on a remission of all the symptoms. In the evening, the paroxysm returns, but without any cold fit, and is commonly worse than before. On the second morning, it remits as before; and these periods go on daily, till it insensibly changes either into a continued or an intermittent shape.

The doctor enumerates other symptoms of this terrible disease; as crudeness of the urine, bilious fiools, costiveness, &c. and observes, that its cure, before it becomes continued, is to be attempted by evacuations, the neutral salts, and the bark. Bleeding he judges indispensible; which should be repeated once, or oftener, according to the urgency of the symptoms. After bleeding, it is proper to give an emetic during the remission of the fever; but if the stomach be inflamed, vomits are dangerous, and therefore ought never to be given. Speci- cuanha, he observes, is the safest and eafeft, but antimonials make the most efficacious vomits. If the body remains costive, it is proper to open it by lenient physic. He likewise recommends falt of wormwood, lemon-juice, spiritus minde- reri, and the bark; which last ought not to be given till the urine breaks, and the intermissions take place. Bleeding and purging are also necessary before the bark is given, which he thinks answers best in substance, administered in rhineth wine, after standing a night in infusion.

If it changes into a continued fever, bleeding becomes necessary; and blisters are not only useful, but the very best remedy: to these may be joined the neutral salts, and diaphoretic powders.

The doctor farther observes, that tho' a sweat be the proper crisis, it ought never to be promoted by theriacae, or the like hot medicines; unless the pulse should sink, and the petches, or other bad symp-

Q. 9.
BILL, an instrument made of iron, edged in the form of a crescent, and adapted to a handle. It is used by plumbers, to perform several parts of their work; by basket-makers, to cut the largest pieces of chestnut trees and other wood; and by gardeners, to prune trees. When short, it is called a hand-bill, and when long, a hedge-bill.

BILL signifies also a paper, either written or printed, in very large characters, which is posted up in some open and public place, to give notice of the sale of any merchandise or ship, or of the failing of any vessel into foreign parts. The great convenience of advertising in the public papers, makes bills of this nature less necessary in England than in other countries.

BILL in trade, both wholesale and retail, as also among workmen, signifies an account of merchandizes or goods delivered to a person, or of work done for one. In those bills, must be set down the sums of money received on account, which ought to be deducted from the sum total.

Settled BILL, a bill at the bottom of which, they to whom the goods are delivered, acknowledge that they have received them; that they are satisfied with the price, and promise to pay it. As soon as a bill is settled, the merchant or tradesman is sure against all exceptions at law, and may claim his debt even during thirty years.

BILL of credit, that which a merchant or banker gives to a person whom he can trust, empowering him to receive money from his correspondents in foreign countries. The bills of credit are different from bills of exchange, yet they enjoy the same privileges; for the money paid in consequence of them, is recoverable by law.

BILL of entry, an account of the goods entered at the custom-house, both inwards and outwards. In this bill must be expressed, the merchant exporting or importing; the quantity of merchandise, and the divers species thereof; and whether transported, or from whence.

BILL of exchange, a piece of paper on which is written a short order, given by a merchant, &c. for paying to such a person, or his order, and in some countries to the bearer in a distant place, a sum of money equivalent to that which such a merchant, &c. has received in his dwelling-house.

There are three things necessary to constitute a bill of exchange: 1. That it be drawn in one city upon another. 2. That there be three persons concerned, the drawer, the presenter, or person for whom it is drawn, and the acceptor, or he on whom it is drawn. And, 3. That it make mention, that the value which the drawer has received, is either in bills of exchange, in money, merchandise, or other effects, which are to be expressed.

These bills are made payable either at sight, or in many days, weeks, or months after date; the space of a month being called usance, and two or three months after date, doubly or treble usance. There is a difference between an inland bill and foreign bill; for an inland bill of exchange, is said to be only in the nature of a letter; but a foreign or outland bill, is more regarded in law; because it is for the advantage of commerce with other countries, which makes it of a public concern.

Not only the drawer, but every indorser of a bill is liable for the payment thereof; for an indorser charges himself in the same manner, as if he had originally drawn the bill: and a plaintiff, in an action in such case, is not obliged to prove the drawer's hand, because the indorser is as a new drawer; but he must make proof that he demanded the money of the drawer, or drawers, or that he fought after, and could not find them in convenient time; for by the custom amongst merchants, the indorser is to receive the money of the first drawer, if he can, and if he cannot, then, and not before, the indorser must answer it.

The forging bills of exchange, or any acceptance, and stealing such bills for money, is felony.

BILL of lading, an acknowledgment signed by the master of a ship, and given to a merchant, &c. containing an account of the goods which the master has received on board from that merchant, &c. with a promise to deliver them at an intended place for a certain salary. Each bill of lading must be treble, one for the merchant who loads the goods, another to be sent to the person to whom they are consigned, and the third to remain in the hands.
hands of the master of the ship. It must be observed, however, that a bill of lading is used only when the goods sent on board a ship are but part of the cargo: for when a merchant loads a whole vessel for his own personal account, the deed passed between him and the master of the ship, is called charter-party. See the article CHARTER-PARTY.

Bill of parcel, an account given by the seller to the buyer, containing the particulars of all the lots and prices of the goods bought.

Bill of sale, is when a person wanting a sum of money, delivers goods as a security to the lender, to whom he gives this bill, empowering him to sell the goods; in case the sum borrowed is not repaid, with interest, at the appointed time.

Bill of stores, a licence granted at the custom-house to merchants, by which they have liberty, to carry, custom-free, all such stores and provisions as they may have occasion for during their voyage.

Bill of sufferance, a licence granted to a merchant, at the custom-house, suffering him to trade from one English port to another, without paying custom.

Bank-bill, a private instrument whereby private-parties become intituled to a part in the bank-flock. See the article BANK.

Bill, in law, a security for money under the hand, and sometimes the seal, of the debtor. It is of two sorts, a single bill without a penalty, or a bill with a penalty, called a penal bill; which last is all one with what we call a bond or obligation, only it has not a condition. See the article BOND.

Bill denotes also a declaration, in writing, expressing either some wrong the complainant has suffered by the defendant, or else a fault that the party complained of has committed against some law or statute of the realm. This bill is sometimes exhibited to justices at the general assizes, by way of indictment, or referred to others having jurisdiction; but more especially is addressed to the lord-chancellor, for inconsiderable wrongs done. It contains the thing or fact complained of, the damage sustained, and a petition or process against the defendant for redress; and is used both in criminal and civil cases. In a criminal case, the words BILLA VERA are inscribed by the grand jury upon a preferment, thereby signifying, that they find the same made with probable evidence, and on that account worthy of farther consideration.

Bill in parliament; a paper containing propositions offered to the house to be passed by them, and then presented to the king to pass into a law.

Bill of attainder, See ATTAINDER.

Bill of appeal, See APPEAL.

Bill of mortality, See MORTALITY.

BILLARD, a name given in some parts of the kingdom to the young fish of the gadus-kind. See the article GADUS.

BILLERECA, a market-town of Essex, about twenty miles east of London; east longitude 50° 30', north latitude 51° 35'.

BILLET, in heraldry, a bearing in form of a long square. They are supposed to represent pieces of cloth of gold or silver, but Guillem thinks they represent a letter sealed up; and other authors take them for bricks.

Billéte signifies that the escutcheon is all over strewed with billets, the number not ascertained. See plate XXVIII. fig. 3.

BILLET-WOOD, small wood for fuel, cut three foot and four inches long, and seven inches and a half in compass; the village of which is to be inquired of by justices.

BILLETING, in military affairs, is the quartering of soldiers in the houses of a town or village. And among fox-hunters, it signifies the ordure and dung of a fox.

BILLIARDS, an ingenious kind of game played on an oblong table, covered with green cloth, and placed exactly level, with little ivory balls, which are driven by crooked flitches, made on purpose, into hazards or holes on the edge and corners of the table, according to certain rules of the game.

BILLINGHAM, a market-town of Nor- thumberland, about twenty-five miles north-west of Newcastle; west longitude 1° 40', and north latitude 55° 1'.

BILLITON, an island in the east-indian ocean, lying south-west of Borneo, in 1° 12' south latitude.

BILLON, in the history of coins, a composition of precious and bale metals, where the latter predominate. Wherefore gold under twelve carats fine, is called billon of gold; and silver under six penny-weight, billon of silver. So little attention was paid formerly to the purity of gold and silver, that the term billon of gold, was applied only to that which was under twenty-one carats; and billon of silver to that which was lower than ten penny-weight.

BILLON,
BILSON, in geography, a town of the lower Auvergne, in the Lyonnais in France, about ten miles south-east of Clermont: east longitude 3° 23', and north latitude 45° 40'.

BILDSON, a market-town of Leicestershire, about seven miles south-east of Leicester: west longitude 50° 30', and north latitude 52° 40'.

BILSEN, a town of Germany, about six miles west of Maastricht: east longitude 5° 30', and north latitude 51°.

BIMEDIAL, in mathematics. If two medial lines, as AB and BC, commensurable only in power, containing a rational rectangle, are compounded, the whole Tine AC will be irrational, and is called a first bimedial line.

BIII, in the alum-werks, denotes a heap of alum thrown together in order to drain.

BIMLIPATAN, a port-town of Golconda in India, where the Dutch have a factory. It is situated on the west side of the bay of Bengal, in 83° east longitude, and 18° north latitude.

BINARY ARITHMETIC, that wherein unity or 1 and 0 are only used. This was the invention of Mr. Leibnitz, who shows it to be very expedient in discovering the properties of numbers, and in constructing tables; and Mr. Dangécourt, in the history of the royal academy of sciences, gives a specimen of it concerning arithmetical progressions; where he shews that, because in binary arithmetic, only two characters are used, therefore the laws of progression may be more easily discovered by it than by common arithmetic.

All the characters, used in binary arithmetic are 0 and 1, and the cipher multiplies every thing by 2 as in the common arithmetic by 10. Thus 1 is one; 10, ten; 11, eleven; 100, one hundred; 101, five; 110, six; 111, seven; 1000, eight; 1001 nine; 1010, ten; which is built on the same principles with common arithmetic.

The author, however, does not recommend this method for common use, because of the great number of figures required to express a number; and adds, that if the common progression were from 12 to 12, or from 16 to 16, it would be still more expeditious.

BINARY MEASURE, in music, is a measure which is beaten equally, or where the time of rising is equal to that of falling. This is usually called common time, beside which there is a binary triple. See MEASURE, TIME, and TRIPLE.

BINARY NUMBER, that composed of two units. See the article NUMBER.

BINBROKE, a market-town of Lincolnshire, about twenty-five miles north-east of Lincoln: east longitude 61, and north latitude 53° 32'.

BINCH, a little fortified town of Hainault, ten miles east of Mons: east longitude 4° 20', and north lat. 50° 30'.

BIND, a country word for a stalk of hops.

BINDING, among fencers, denotes the seizing the adversary’s sword, which is effected by a prehure and spring from the wrist.

BINDING, in falconry, a term which implies tiring, or when a hawk seizes.

BINDING and LOSING, in a theological sense, the same with abolution.

BIND-WEED, convolvulus, in botany. See CONVOLVULUS.

BING, in the alum-works, denotes a heap of alum thrown together, in order to drain.

BINGEN, a town of the electorate of Mentz, about sixteen miles west of that city: east longitude 7° 20', and north latitude 50°.

BINGLEY, a market-town, in the west riding of Yorkshire, about thirty miles west of York: west longitude 1° 40', and north latitude 53° 45'.

BINN, in country affairs, a place boarded up to put corn in.

BINOCULAR TELESCOPE, a kind of dioptric telescope fitted with two tubes joined in such a manner, that one may see a distant object with both eyes, at the same time.

BINOMIAL, in algebra, a root consisting of two members connected by the sign + or −. Thus a + b and a − b are binomials, consisting of the sums and differences of these quantities. The powers of any binomial are found by a continual multiplication of it by itself. For example, the cube or third power of a + b, will be found by multiplication to be $a^3 + 3a^2b + 3ab^2 + b^3$; and if the powers of a − b are required, they will be found the same as the preceding.
where the second and fourth terms are negative, the exponent of \( b \) being an odd number in these terms. In general, the terms of any power of \( a - b \) are positive and negative by turns.

It is to be observed, that in the first term of any power of \( a \pm b \), the quantity \( a \) has the exponent of the power required, that in the following terms, the exponents of \( a \) decrease gradually by the same differences, viz. unit, and that in the last terms it is never found. The powers of \( b \) are in the contrary order; it is never found in the first term, but its exponent in the second term is unit; in the third term, its exponent is 2, and thus its exponent increases till in the last term it becomes equal to the exponent of the power required.

As the exponents of \( a \) thus decrease, and at the same time those of \( b \) increase; the sum of their exponents is always the same, and is equal to the exponent of the power required. Thus in the sixth power of \( a + b \), viz. \( a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6 \), the exponents of \( a \) decrease in this order 6, 5, 4, 3, 2, 1, 0; and those of \( b \) increase in the contrary order 0, 1, 2, 3, 4, 5, 6. And the sum of their exponents in any term is always 6.

In general, therefore, if \( a + b \) is to be raised to any power \( m \), the terms without their coefficients will be \( a^m, am^{m-1}b, a^{m-2}b^2, a^{m-3}b^3, \ldots \) continued to the exponent of \( b \) become equal to \( m \).

The coefficients of the successive terms will be \( 1, m, m \times \frac{m-1}{2}, m \times \frac{m-1}{2} \times \frac{m-2}{3}, \ldots \)

\[
\begin{align*}
&x^m - 2 \times a^{m-1} b + m \times \frac{m-1}{2} \times a^{m-2} b^2 + m \times \frac{m-1}{2} \times a^{m-3} b^3 + \ldots
\end{align*}
\]

\( a + b^m \) is to be observed, that in the first term, but its exponent in the second term is unit; in the third term, its exponent is 2, and thus its exponent increases till in the last term it becomes equal to the exponent of the power required.

The same general theorem will also serve for the evolution of binomials, because to extract any root of a given quantity, is the same thing as to raise that quantity to a power whose exponent is a fraction that has its denominator equal to the number that expresses what kind of root is to be extracted. Thus, to extract the square root of \( a + b \) is to raise \( a + b \) to a power whose exponent is \( \frac{1}{2} \). Now \( a + b^m \) being found as above; supposing \( m = \frac{1}{2} \), you will find

\[
\begin{align*}
&\frac{1}{2} x \frac{1}{2} \times a \times \frac{1}{2} \times b + \frac{1}{2} \times a \times \frac{1}{2} \times b + \frac{1}{2} \times a \times \frac{1}{2} \times b + \ldots
\end{align*}
\]

\[b^3 + \ldots + c = a + b + \frac{1}{2} \times b + \frac{1}{2} \times b + \frac{1}{2} \times b + \ldots, \ldots \]

BIOGRAPHICAL, one who writes the lives of particular persons, as Plutarch, Suetonius, &c. See the next article.

BIOGRAPHY, a very entertaining and instructive species of history, containing the life of some remarkable person, or persons.

Lord Bacon regrets, that the lives of eminent men are not more frequently written; for, adds he, though kings, princes, and great personages be few; yet there are many other excellent men, who deserve better than vague reports, and barren elogies.

BIORNBURG, a town of Finland, situated on the eastern shore of the Bothmic gulph; east long. 21° and north lat. 62°.

BIOTHANATI, a term sometimes used for suicides. See SUICIDES.

BIOUAC, in military affairs, a night-guard, performed by the whole army, when there is any apprehension of danger from the enemy.

BIPENNIS, in roman antiquity, an ax with a double edge, one of which was used in stabbing, and the other in cutting.

BIQUADRATIC POWER, in algebra, the fourth power or squared square of a number, as \( 16 \) is the biquadratic power of 2; for \( 2 \times 2 = 4 \) and \( 4 \times 4 = 16 \).

BIQUADRATIC ROOT of a number, is the square root of its square root: thus the biquadratic root of 81 is 3; for the square root of 81 is 9, and the square root of 9 is 3.
BIRQUINTILE, an aspect of the planet, when they are 144 degrees from each other.

BIR, a city of Diarbeck, or Mesopotamia, situated on the river Euphrates, about seventy miles south-east of Aleppo, in 40° east lon. and 35° 2½ north latitude.

BIRCH-TREE, in botany, a genus of plants, of the monoeceia-tetranotria class: the male flower is amercaceous, formed of a number of monopetalous florets, each of which is divided into four parts. In the female flower the calyx is lightly divided into three segments: the fruit is a cylindrical cone, and the seeds are on each side edged with a membrane. See plate XXVII. fig. 6.

The birch-tree is of use for the husbandman's ox-yokes, for hoops, small screws, paniers, brooms, wands, havin-bands, withies for faggots, arrows, bolts, shafts, disfies, bowls, ladles: it is also good for fuel, great and small coal, the bark being made by charring the slender brush and tops of the twigs and loppings. In Russia and Poland they cover houles with the bark of the birch-tree, instead of slate and tile.

BIRD, ovis, in zoology, one of the fix general classes of animals, the characters of which are, that their body is covered with feathers, and that they have two wings, two legs, and a bill of a firm bony or rather horny substance: add to this, that the females are all oviparous. The knowledge of birds, of the orders and genera into which they are subdivided, and of their natures, uses, figures, &c. constitutes a particular science, under the name of ornithology.

Birds have been usually divided into terrestrial and aquatic, or land and water birds; but this subdivision is too general, as well as indeterminate: a much more certain distinction of birds is founded on the different shapes and structure of their beaks, from which alone they are naturally arranged under the six following orders. 1. The accipitres, or those which have the beak uncinated, or hooked. 2. The praes, or those with convex and comprioped beaks. 3. The anis, or those with dentated or serrated beaks. 4. The fallopaces, or those furnished with subcylindrical and obtuse beaks. 5. The gallinés, comprehending such birds as have the beak of a conic form, but crooked, and the upper chap incisited. 6. The rapti, or those with conic and attenuated beaks. See the article: ACCIPITRES, PICI, &c.

We meet with several other distinctions of birds, taken from their manner of feeding: as carnivorous ones, or birds of prey; frugivorous and granivorous birds, or such as feed on fruits and the seeds of various plants; inquisitive birds, or those which feed principally on insects: and so in other cases.

As to the constituent parts of birds, it is remarkable that the head is generally small in proportion to the rest of the body: that the eyes are more plain and destitute of the power of vision than in quadrupeds: and that they have no external auricle, or ear. See the articles WING, BILL, TAIL, &c. Singing birds are valued, in the book of rates, at 10s. the dozen, and pay duty 2s. 10d. whereof 1s. 1½d. is drawn back on exporting them. All other birds are valued at 12s. the dozen, and pay duty 2s. 10½d. whereof 2s. 7½d. is drawn back.

Bird of paradise. See PARADISE.

Black Bird, the English name of the merula vulgaris of ornithologists. See the article MERULA.

Blue Bird, a name given to the solitary sparrow. See the article SPARROW.

Birds, in heraldry, according to their several kinds, represent either the contemplative or active life. They are the emblems of liberty, expedition, readiness, swiftness, and fear. They are more honorable bearings than fishes, because they participate more of air and fire, the two noblest and highest elements, than of earth and water. Birds must be borne in cost-armour, as is best fitting the propriety of their natural actions.
Birds that are either whole footed, or have their feet divided, and yet have no talons, are said to be membered; but the cock, and all birds of prey with sharp and hooked beaks and talons, for encounter or defence, are termed armed.

In the blazoning of birds, if their wings be not displayed, they are said to be borne close; as, he beareth an eagle, &c. close.

Bird-call, among sportsmen. See the article Call.

Bird's-eye, in botany, a name by which a species of adonis flos is sometimes called.

Bird-lime, a viscid substance, prepared after different ways. The most common bird-lime among us, is made from holly-bark, boiled ten or twelve hours; when the green coat being separated from the other, it is covered up a fortnight in a moist place, then pounded into a tough paste, so that no fibres of the wood are discernible, and washed in a running stream till no motes appear; put up to ferment four or five days, skimmed as often as any thing arises, and laid up for use. To use it, a third part of nut-oil, or thin grease, must be incorporated with it over the fire.

The Italians make bird-lime of the berries of the mileto-tree. That which comes from Damascus is supplied to be made of febekens: and it is said that the bark of our lantana, or way-facing shrubs, will make very good bird-lime.

Biremis, in roman antiquity, a vessel with two rows of oars, concerning the disposition of which authors are not agreed.

Biretum, or Biritrum, a sort of black bonnet, or covering of the head, in form of a pyramid, much used in Italy and France about five or six hundred years ago, as a badge of victory, honour, or facerdotal preferment.

Birkenfield, a town of Germany, about forty miles west of Mentz, situated in 6° 40' east long. and 49° 45' north latitude.

Birmingham, a large populous town in Warwickshire, about sixteen miles north-west of Coventry, situated in 5° 50' west lon. and 52° 30' north lat. It is remarkable for its iron manufactury.

Birota, or Biritum, in roman antiquity, a kind of vehicle, so denominat-ed from its moving upon two wheels. It carried about two hundred pound weight, and was drawn by three mules.

Vol. I.

Birrus, in roman antiquity, a cloak, made of woollen cloth, worn by the soldiers: also a robe worn by the priests or bishops.

Birth, partus, in midwifery, signifies the fame with delivery. See the article Delivery.

An immature birth, or that which happens before the usual time of pregnancy is completed, is otherwise called an abortion. See the article Abortion.

For the proportion of births to marriages, burials, &c. see the articles Marriage, Burial, &c.

After-Birth. See After-birth.

Birth, or Birthing, in the sea-language, a convenient place to moor a ship in; also a due distance observed by ships lying at anchor, or under sail; and a proper place aboard for a mes to put their chefts, &c. is called the birth of that mes.

Birth-Day, a day of festivity, celebrated yearly, on the return of that on which a person was born.

Birth-sin, or Original-sin. See the article Original-sin.

Birth-wort, arjilolochia, in botany, a genus of the gynandra-hexandria class of plants, the flower of which consists of a single petal, of a ligulated form, and a pale colour; there stand several of them together at the ale of the leaves; the fruit is a large roundish capsule, as big as an apple; the seeds are numerous, depressed, and disjosed in fix cells. See plate XXVIII. fig. 4.

The roots of this plant are said to be cephalic, vulnerary, and uterine; they are also clasped by some among the alexipharmics, and recommended highly in diseases of the breast: the principal virtue, however, now attributed to them is that of promoting the menses, and the lochia after delivery; it is said to have so much force this way, as to cause abortion if given to a woman with child.

Birza, a town of Samogitia, in Poland, about forty-two miles south-east of Mitt-au, situated in 25° east long. and 56° 35' north lat.

Bis, in botany, a name by which two distinct genera of plants, monkshood and hemlock, are called by some old writers.

Bis Annual, an appellation given to such plants as do not flower till the second year.

Bisa, or Mafia, a coin of Pegu, which is current there for half a ducat. It is also a weight used in that kingdom, to weigh merchandizes.
BIS

BISANT, or BESANT. See BESANT.

BISARCA, in botany, the same with the tarragon. See the article TARRAGON.

BISCAY, the most northerly province of Spain, from which the bay of Biscay takes its name.

New BISCAY, a province of Mexico, having New Mexico on the north, and Florida on the west.

BISCHWELLER, a fortress of Alface, subject to the French, situated about five miles west of Port Lewis, in 7° east lon. and 48° 40' north lat.

BISCHROMA, in music, the same as Chroma.

BISCLA, a name used by some for the acus, or needle-fish. See the article ACUS.

BISCUTELLA, in botany, a genus of the tetradynamis-filiculae class of plants, called by Tournefort thlaspiadium, the flower of which is cruciform, consisting of four petals; and its fruit a small, bilocular, erect, and compressed pod, containing a single, rounded, and compressed seed.

BISERRULA, in botany, a genus of the diadelphia-decandria class of plants: the flowers are papilionaceous, small, and reddish, standing in clusters on long pedicels: the fruit is a large pod with two cells, containing numerous kidney-shaped and compressed seeds.

BISERTA, a port-town of the kingdom of Tunis, in Africa, situated on the Mediterranean, near the place where Utica antiently stood, and about forty miles north of Tunis, in 9° east lon. and 37° 30' north lat.

BISSETÆ, a genus of flies, with two hairs or bristles growing from their tails. See the article SETICAUDÆ.

BISHOP, episcopus, a prelate, or person consecrated for the spiritual government of a diocese.

Whether the distinction of bishops from mere priests or presbyters be of divine or human right, whether it was settled in the apostolical age, or introduced since, is much controverted. It is certain, that in the New Testament the names of bishops and priests are used indifferently; but tradition, the fathers, and the Apostolical Constitutions make a distinction.

From this last consideration bishops are conceived as the highest ecclesiastical dignities, the chief officers in the hierarchy, or oecumeny of church-government, as the fathers and pastors of the faithful, the successors of the apostles, and, as such, the superiors of the church of Christ.

In the primitive church it appears that there was but one bishop in a church, and but one church to a bishop; the peculiar acts of the episcopal function were preaching the word, praying with the people, administering the two sacraments of baptism and the eucharist, taking care of the poor, ordaining of ministers, governing his flock, excommunicating offenders, and absolving of penitents. The election of a bishop was jointly in the hands of the clergy and laity of the bishopric or parish which became vacant; when they elected a bishop, they presented him to the neighbouring bishops, for their approbation and consent, without which his election was not valid. A bishop thus chosen and ordained, always gave notice of his advancement to the most renowned bishops of the church.

As to the form of ordination, it was thus: two bishops held the book of the gospels over the head of that bishop which was ordained, and whilst one pronounced the blessing, or prayer of consecration, all the rest of the bishops that were present laid their hands upon his head.

In the church of Rome the pope has the chief right of electing bishops, nevertheless some princes have referred to themselves the right of nominating to bishoprics, after which the pope sends his approbation, and the bulls to the new bishop. When a person hears that the pope has raised him to the episcopal dignity, he enlarges his shaven crown, dresses himself in purple, and if he be in Rome, he must go and receive the rod of the pope: three months after having been confirmed in his election, he is consecrated in a very solemn manner.

Upon the vacancy of a bishop's see in England, the king grants his conge de'elfire to the dean and chapter, to elect the person whom, by his letters missive, he hath appointed; and if they do not make the election in twenty days, they are to incur a premonire. The dean and chapter having made their election accordingly, the archbishop, by the king's direction, confirms the bishop, and afterwards consecrates him, by imposition of hands, according to the form laid down in the Common prayer book. Hence we see that a bishop differs from an archbishop in this, that an archbishop with bishops consecrates a bishop, as a bishop with priests consecrates a priest: other distinctions are, that an archbishop visits a province, as a bishop a diocese; that
an archbishop convocates a provincial synod, as a bishop does a diocesan one; and that the archbishop has canonical authority over all the bishops of his province, as a bishop has over the priests of his diocese.

The jurisdiction of a bishop of the church of England consists in collating benefices, granting institutions, commanding inducions, taking care of the profits of vacant benefices for the use of the successors, consecrating churches and chapels, ordaining priests and deacons, confirming after baptism, granting administrations, and taking probates of wills: these parts of his function depend upon the ecclesiastical law. By the common law, he is to certify to the judges concerning legitimate and illegitimate births and marriages: and to his jurisdiction, by the statute law, belongs the licensing of physicians, surgeons, and schoolmasters, and the uniting of small parishes, which last privilege is now peculiar to the bishop of Norwich.

All bishops of England are peers of the realm, except the bishop of Man, and as such sit and vote in the house of lords: they are barons in a threefold manner, viz. feudal, in regard to the temporalities annexed to their bishoprics; by writ, as being summoned by writ to parliament; and lastly, by patent and commission: accordingly they have the precedence of all other barons, and vote as barons and bishops, and claim all the privileges enjoyed by the temporal lords, excepting that they cannot be tried by their peers, because, in cafes of blood, they themselves cannot pass upon the trial, for they are prohibited, by the canons of the church, to be judges of life and death.

**Bishop's Court**, an ecclesiastical court, held in the cathedral of each diocese, the judge whereof is the bishop's chancellor, who judges by the civil and canon law; and if the diocese be large, he has his commissaries in remote parts, who hold what they call consistory courts, for matters limited to them by their commission.

**Bishop's Castle**, a borough-town in Shropshire, situated on the river Ony, about fifteen miles south-west of Shrewsbury: west lon. 3°, and north latitude 52° 30'.

**Bishop and His Clerks**, some little islands and rocks on the coast of Pembroke shire, not far from St. David's, very fatal to mariners.
Bismuth is sometimes found native, in small compact masses, of a pale lead-colour on the outside, but a silvery white within.

Bismuth attenuates the parts of all other metals, and thereby promotes their fusion. It is soluble in vinegar, like lead; dissolved in stronger acids, it yields the famous cosmetic maggoty, and is a very valuable ingredient in the mixed metals used in casting types, and for bell-metal.

Bismuth is very common in Germany, and not unfrequently found in the tin-mines of Cornwall, though little known, or at least regarded there.

Bisnagar, the capital of a province of the same name in the hither peninsula of India: east lon. 78°, and north lat. 14°.

Bisnow, or Bishnoi, a sect of the Banians in the East Indies; they call their god Ram-ram, and give him a wife: they adorn his image with golden chains, necklaces of pearls, and all sorts of precious stones. They sing hymns in honour of their god, mixing their devotion with dances and the sound of drums, flagellates, brazen basons, and other instruments. This sect lives wholly upon herbs and pulse, butter and milk.

Bisochi, or Bisochi. See Bizoche.

Bisomum, or Bisoum, in roman antiquity, a sepulchre, or vault, containing two dead bodies. On the tombs of the primitive christians were wont to be inscribed the words bijomi, or trjomi, or quadrifomi, &c. that by these means they might the easier calculate the number of their dead.

Bison, in zoology, the same with the bos camelita of Gmelin. See Bos.

Bisquet, or Bisquet. See Bisket.

Bissacramentales, a denomination given to protestants, on account of their allowing of only two sacraments, viz. baptism and the eucharist.

Bissession, in geometry, the division of a line, angle, &c. into two equal parts. See the articles Line, Angle, &c.

Bisselzum, among ancient naturalists, denotes the oil of pitch, more properly called Biseleum. See Bisselzum.

Bisextile, in chronology, a year containing of three hundred and sixty-six days, being the same with our leap-year.

The true solar year, or that space of time which flows while the sun is moving from any one point of the ecliptic, till he returns to the same point again, contains of 365 days, 5 hours, 48 minutes, 57 1/5 seconds. The year made use of by the ancient Egyptians consisted of 365 days, which being less than the true solar year by nearly six hours, they left a day every four years. Julius Caesar being high-priest among the Romans, and considering the inconveniences arising from this method of computation, ordered that every fourth year should have an intercalary day, and that this additional day should be added to the month of February; wherefore this method of computation is called the julian account, or old style.

Yet, as the true length of the year consists of 365 days, 5 hours, 49 minutes nearly, it follows that, according to this way of reckoning, at the end of every four years the civil year will begin 44 minutes sooner than it did before, consequently in 331 years, it will anticipate by one whole day: for this reason pope Gregory XIII. set himself upon reforming the calendar, and finding, in the year 1582, that the equinox had anticipated ten whole days, he ordered that these ten days should be taken out of the calendar that year, and the 11th of March should be reckoned the 21st; and ordered that every hundred year, which, according to the julian form, was to be bisextile, should be a common year, and conflit of 365 days: but because that was too much, every four hundred year was to remain bisextile. This method of computation is called the gregorian, or new style; it was received in most foreign countries ever since the reforming of the calendar; and by act of parliament passed in the twenty-fifth year of his present majesty's reign, viz. 1751, it commenced in all the dominions under the crown of Great Britain, in the year following, ordering that the natural day following the second of September should be accounted the fourteenth, omitting the intermediate eleven days of the common calendar.

Bister, or Bistre. See Bistre.

Bisti, in commerce, a small coin of Persia: some say that it is among the current silver coins of Persia, and worth only a little above three farthings of our money; others speak of it again as a money of account.

Bistort, bistorta, in botany, a genus of the oestandra-digynia class of plants, whose corolla consists of a single petal, narrow at the base, and imperfectly: the limb is erect and divided into five oval
B I T

oval and alternately connivent segments; the flower remains, and supposing the place of a pericarpium, surrounds the seed, which is sago, triquetrous, and acute. See plate XXVIII. fig. 5.

The root is aromatic, vulnerary, and alexipharmic.

BISTOURY, in surgery, an instrument for making incisions, of which there are different kinds, some being of the form of a lancet, others straight and fixed in the handle like a knife, and others crooked with the sharp edge on the inside.

BISTRE, or BITTER, among painters, denotes glossy foot, pulverized and made into a kind of cakes, with gum-water. It is used to wash their designs. See WASHING.

BIT, or BITT; an essential part of a bridle. Its kinds are various: 1. The mufrol, snaffle, or watering-bit. 2. The cannon-mouth, jointed in the middle. 3. The cannon with a flat mouth, all of a piece, only knood in the middle, to form a liberty or space for the tongue; fit for horses too sensitive, or ticklish, and liable to be continually bearing on the hand.

4. The cannon-mouth, with the liberty in form of a pigeon’s neck; proper where a horse has too large a tongue. 5. The cannon with a port mouth, and an upset or mounting liberty; used where a horse has a good mouth but large tongue. 6. The scatch-mouth, with an upset; ruder but more secure than a cannon-mouth. 7. The cannon-mouth with a liberty; proper for a horse with a large tongue, and round bars. 8. The maficadour, or flavoring-bit, &c. The several parts of a snaffle, or curb-bit, are the mouth-piece, the cheeks and eyes, guard of the cheek, head of the cheeks, the port, the welts, the campanel or curb and hook, the boffles, the ballfents and rabbets, the water-chains, the side-bolts, bolts and rings, kirbles of the bit or curb, trench, toprol, flap, and jeive.

The importation of bits for briddles is now prohibited.

Bit also denotes the iron part of a piercer, augre, and the like instruments.

Bit of a key, the part which contains the wards. See the article WARDS.

BIT, or BITTS, in ship-building, the name of two great timbers, usually placed abaft the manger, the ship’s loof, thro’ which the cross-piece goes: the ufe of it is to delay the cable thereto, while the ship is at anchor.

BITCH, the female of the dog-kind. See the article Dog.

BITUMEN,
BITUMEN, in natural history, an inflammable fossil substance, otherwise called asphaltum. See the article ASPHALTUM. Besides the bitumen judaicum, mentioned under the article ASPHALTUM, there are other kinds, viz. A hard flinking black kind, found in great plenty about the dead-sea; it yields an oil which is an excellent cement, and is supposed to be the bitumen which we are told supplied the place of mortar in building the walls of Babylon. 2. The brownish black flinking bitumen, common in Germany, and even with us, under the name of pitch-stone.

BITUMINOUS, something belonging to, or partaking of the nature of bitumen. See the article BITUMEN.

BIVALVES, one of the three general classes of shell-fish, comprehending all those, the shells of which are composed of two pieces, joined together by a hinge. See the article SHELL-FISH.

Of this class we have only the six following genera: 1. The oysters. 2. The chame. 3. The muscles. 4. The heart-shells. 5. The scellops. 6. The razor-shells. See the article Oyster, CHAME, MUSCLE, &c.

BIVALVE is also an appellation given to such pods, or capsules, as consist of two valves inclosing the seeds.

BIVENTER, in anatomy, called also digastric, or two-bellied, a muscle of the lower jaw, that has its origin in the incisure under the maffoide process. The tendon of it often passes the stylo-hyoidaeus muscle, and the membraneous ring affixed to the os hyoides, in the manner of a pulley, and is then inferted by a synchondrosis into the internal part of the chin. The mouth is opened by means of this trochlæa, in a most wonderful and elegant manner.

BIUMBRES, in geography, the name with the amphiœci. See AMPHISCII.

BIXA, in botany, a genus of the polyandra monoandria class of plants. The flower is double, the exterior one consisting of five oblong, equal, and thick petals, and the interior of five petals also, like those of the other, but thinner: the fruit is an ovato-cordated compressed capsule, belit with hairs, formed of two valves, opening at the angles, with only one cell with an interior bivalve membrane; the seeds are numerous, turbinated, and truncated at the umbilicus.

BIXA is also used to denote the bulbocastaneum, or earth-nut.

BIZARRO, in the Italian music, denotes a fanciful kind of composition, sometimes fast, flow, soft, strong, &c., according to the fancy of the composer.

BIZOCHI, or BISOCHI, in church-history, certain heretical monks, said to have assumed the religious habit contrary to the canons, rejected the sacraments, and maintained other errors.

BIZU, a town of Barbary, in Africa, in the kingdom of Morocco.

BLACK, a well known colour, supposed to be owing to the ab沈ence of light; all the rays thereof being imbibed by the black bodies. See COLOUR and LIGHT. Black bodies are not only warmer, but more inflammable than others, as is proved by various experiments, for which the curious, may consult Boyle, 's Græveslænde, and other philosophers who have treated of this subject.

BLACK, among dyers, one of the five simple and mother colours, used in dying. It is made differently, according to the several qualities of the stuffs that are to be dyed. For stuffs of a high price, as woolen cloth, an ell and a half or an ell and a quarter wide, broad and narrow ratteens, fine woollen druggets, &c. they must use a black made of the beet wood and indigo, inclining to a bluish brown. The goodness of the composition confines in there being not above six pounds of indigo ready prepared to each ball of woad, when the latter, being in the tub, begins to cast its blue flower; and in not being heated for use above twice; after which it must be boiled with alum, tartar, or ashes of lees of wine, then maddered with common madder, and lastly the black must be given with gall-nuts of Alep, copperas, and fumach. As for more indifferent stuffs, such as small ratteens, and shaloon, as they cannot pay for the expense of maddinger, it is sufficient that they be well boiled with woad, and afterwards blacked with gall and copperas. There is likewise the jefuit's black, which is made with the same ingredients as the good black, but without having first dyed the stuff blue.

German BLACK, called by some frankfort black, is made with the lees of wine, burnt, washed afterwards in water, then ground in mills made for that purpose, with ivory, bones, or peach-stones, also burnt. It comes from Frankfort, Mentz, and Strasbourg, either in lumps or powder, and must be chosen moist, without having been wetted, of a fine shining black,
black, soft, friable, light, and with as few shining grains as possible.

Ivory-Black, otherwise called velvet-black, is burnt ivory, which becoming quite black, and being reduced to thin plates, is ground in water, and made into troches, to be used by painters, and by jewellers, who set precious stones, to blacken the ground of the collets, and give the diamonds a teint or foil. In order to be good, it ought to be tender, friable, and thoroughly ground.

Bone-Black is made with the bones of oxen, cows, &c. and is used in painting; but is not so much esteemed as ivory-black.

Hart's Black, that which remains in the retort after the spirits, volatile salt, and oil have been extracted from hart's-horn. It answers the purposes of painters almost as well as ivory-black.

Spanish Black is nothing but burnt cork; it is used in several works. It should be light, and have as few grains of sand mixed with it as possible.

Lamp-Black, or Lam-Black, the footy smoke of rosin. There is some in powder and some in lumps, and is mostly brought from Sweden and Norway, and pays duty 1L. 10s. 4d. the hundred weight. It is used on various occasions, particularly for making the painter's ink, for which purpose it is mixed with oil of walnuts, or linseed, and turpentine, all boiled together.

Earth-Black, a sort of coals found in the ground, which the painters and limners use to paint in fresco, after it has been well ground. There is also a black made with gall-nuts, copperas, or vitriol, such as common ink. And a black made with silver and lead, which serves to fill up the cavities of engraved things.

Currier's Black, a black made with gall-nuts, four beer, and old iron, termed the first black. The second black, which gives the gloss to the leather, is composed of gall-nuts, copperas, and gum arabic.

Black, in heraldry, is called sable. See the article Sable.

Black, in the manage. Horses entirely black, are accounted dull; but those with a white foot, or white spot in their forehead, are not without spiritliness.

Black-Bank, in geography, a town of Ireland, about seven miles south of Armagh, in 6° 50' west long. and 54° 12' north lat.

Black-Berry, in botany, See Rubus.

Black-Bind Weed, See Tamnus.

Black-Bird, a species of turdus, otherwise called merula. See Turdus and Merula.

Black-Book of the Exchequer. See the article Exchequer.

Black-Bourn, a market-town of Lancashire, about nine miles east of Preston, in 5° 20' west lon. and 53° 40' north lat.

Black-cap, the name of several birds, viz. one of the gull-kind, otherwise called ed pewit; another called by zoologists parus palustris; and a third, called atricapilla. See the articles Pewit and Parus.

The atricapilla, or black-cap, properly so called, is a species of motacilla. See the article Motacilla.

Black-Diver, in ornithology. See the article Scoter.

Black-Eagle. See Eagle.

Black-Forest, a part of Swabia, divided from Switzerland by the river Rhine.

Black-Game. See Urogallus.

Black Hellobore. See Hellobore.

Black Land. See Land and Soil.

Black-Lead. See Plumago.

Black-Mail, a link of mail, or small pieces of metal or money. In the counties of Northumberland, Cumberland, and Westmoreland, it was formerly taken for a certain rent of money, corn, cattle, or other consideration, paid by poor people near the borders, to persons of note and power, allied with some mōs-troopers, or known robbers, in order to protect them from pillage.

Black-Oats. See Oats.

Black-Order. See the article Order.

Black-Rod. See the article Rod.

Black-Sea, the same with the Euxine sea, lying north of Natoia, between 29° and 44° east longitude, and 42° and 46° north latitude.

Black-Star. See the article Star.

Black-Thorn, the wild plum.

Black-Tin. See the article Tin.

Black-Water, the name of two rivers in Ireland, one of which runs through the counties of Cork and Waterford, and falls in Youghal bay; and the other, after watering the county of Armagh, falls into Lough Neagh.

Black, in physiology. See Negroes.

Bladder, a thin membranous substance, found in several parts of an animal, serving as a receptacle of some juice, or of some liquid excrement, as the urinary bladder, gall bladder, &c.

Bladder, by way of eminence, or urinary bladder, is a membranous hollow body,
body, of the figure of a pear, situated in
the pelvis, and defined to collect, and,
at a proper time, to expel the urine. Its
size is such, that it will conveniently hold
about a pint in adults; but it is capable
of dilatation, so as to hold much more.
It is connected, in the human body, in
a singular manner, by the peritoneum to
the os pubis, otherwise than in other ani-
imals: it is also connected with the parts
of generation by the urethra; with the
navel by the urachus and umbilical arte-
rries; and finally, in men, with the in-
testinal rectum; and in women, with the
vagina. It is divided into three parts,
the body, the neck, and the fundus or
bottom. The coats of the bladder are
much thinner in the body and the fundus
than they are at the neck. Its blood-
vessels come from the hypogastric, the
umbilical, and the haemorrhoidal vessels
in men; and in women, from the per-
ematics also. Its nerves are from the in-
tercostals, and principally from those of
the os sacrum.
Its structure is membranaceous, and con-
stitutes of three coats: the first is called
the common membrane; this is continuous
with the peritoneum, and surrounds only
the bottom of the bladder. The second coat
is muscular, and is composed of several fi-
bers, running in various directions, but
principally longitudinal and transverse.
The third, or inner coat, is nervous, and
is covered with a peculiar fluid of a mucous
nature, which is secreted in glands situated
in this coat, and principally in that part
which is near the neck of the bladder.
The sphincter of the bladder is composed of
a series of transverse fibers, running
cross-ways under the strait fibers of
the neck of the bladder, in form of a circle,
and serving to close it, to prevent the in-
voluntary discharge of the urine. The
bladder has three foramina; two where
the ureters enter in, at which the urine
is thrown into the bladder; and one,
much larger than thefe, in the neck, for
the discharge of the urine into the ure-
thra.
The diseascs of the bladder are the flone,
inflammations, ulcers, &c. See the ar-
ticle STONE, &c.
For the other bladders of the body, see
the article VESICULA.
In commerce, bladders pay duty of im-
portation $\frac{2}{3} d$. the dozen.
100
Air-BLADDER, in physiology. See the ar-
ticle AIR-BLADDER.

Oil-BLADDERS. See the article OIL.
BLADDER-LOTUS. See the article LOTUS.
BLADDER-NUT. See STAPHYL0DENDRON.
African BLADDER-NUT. See the article
ROYENA.
Laurel-leaved BLADDER-NUT. See the article
DOD0N4EA.
BLADD4R-PUCERON. See PUCERON.
BLADDER-SENA. See COLUTEA.
BLADE, in botany, a name sometimes
given to the flower-petals.
BLADE, in commerce, a slender piece of
metal, designed for cutting: thus we meet
with word-blade, blade of a chisель, blade
of a saw, &c.
BLÆRIA, in botany, a genus of the te-
trandria-monogyia class of plants, the
flower of which is monopetalous and cam-
panied: the tube is cylindric, of the
length of the cup, and pervious: the limb
is small, and divided into four oval reflex
segments: the fruit is an oblong quadran-
gular capsule, with four cells, containing
several roundish seeds.
BLAFART, in commerce, a small coin,
current at Cologn, worth something
more than a farthing of our money.
BLAIN, among farriers, a distemper in-
cident to beasts, being a certain bladder
-growing on the root of the tongue, against
the wind-pipe, which swells to such a
pitch, as to stop the breath. It comes by
great chafing and heating of the
mouth: to cure it, cast the beast,
take forth his tongue, and then
slitting the bladder, wash it gently with vinegar
and a little salt.
BLAIR of Athol, a small town of Athol,
in Scotland, situated about twenty-eight
miles north of Perth.
BLAIRIA, in botany, the name by which
Vaillant calls the verbena, or vervain.
BLAMONT, a town of Lorraine, about
twenty-eight miles south-east of Nancy:
east lon. 6° 45', and north lat. 48° 39'.
BLANC, or BLANK. See BLANK.
BLANCH FERM, according to Blount, is
a white farm, where the rent was paid in
silver, and not in cattle. The crown-
rents were often referred in libros albis, or
blanch fermo, in which case the buyer
or farmer was Holden dealbare fermam,
i.e. his money, worse than the standard,
was to be melted down in the exchequer
and reduced to the fineness of standard; or
instead of that he paid to the king 12 d.
in the pound, by way of addition.
Carre-BLANCHE. See the article CARTE.
BLANCHING,
BLANCHING, in a general sense, denotes the art of bleaching or whitening.

BLANCHING of copper is done various ways, so as to make it resemble silver. If it be done for sale, it is felony by 8 and 9 William III. ch. xxvi.

BLANCHING, in coinage, the operation performed on the planchets or pieces of silver, to give them the requisite lustre and brightness. They also Blanch pieces of plate, when they would have them continue white, or have only some parts of them burned.

Blanching, as it is now practised, is performed by heating the pieces on a kind of peel with a wood-fire, in the manner of a reverbaratory; so that the flame passes over the peel. The pieces being sufficiently heated and cooled again, are put successively to boil in two pans, which are of copper: in these they put water, common salt, and tartar of montpelier. They also blanch when they have been well drained of this water in a copper sieve, they throw sand and fresh water over them; and when dry, they are well rubbed with towels.

Blanching, among gardeners, an operation whereby certain fallets, roots, &c., are rendered whiter than they would otherwise be.

It is this: after pruning off the tops and roots of the plants to be blanched, they plant them in trenches about ten inches wide, and as many deep, more or less, as is judged necessary; as they grow up, care is taken to cover them with earth, within four or five inches of their tops: this is repeated, from time to time, for five or six weeks, in which time they will be fit for use, and of a whiffle colour, where covered by the earth.

Blanching also denotes the operation of covering iron plates with a thin coat or crust of tin.

BLANCO, or Cape-Blanco, a promontory of Peru, in south America: west longitude 81°, and south lat. 5° 45'.

Blanco is also the name of one of the Antilles islands, on the coast of Terra Firma: west longitude 64°, and north latitude 12°.

Cape-Blanco is also a promontory of Africa, in 18° west long. and 20° north lat.

BLANDFORD, a market town of Dorset-shire, ten miles north of Poole: west long. 2° 20', and north latitude 50° 56'.

BLANES, a port town of Catalonia, in Spain: east longitude 1° 40', north lat. 41° 30'.

BLANK, or Blanca, properly signifies white. See White.

Blank, in commerce, a void or unwritten place which merchants sometimes leave in their day-books or journals. It is also a piece of paper at the bottom of which a person has signed his name, the receipt being void. These are commonly intrusted into the hands of arbiters, to be filled up as they shall think proper, to terminate any dispute or law-suit.

BLANK-BAR, in law, the same with common bar. See the article Bar.

BLANK-TICKETS, in lotteries, those drawn without any prize.

Blank-verse, in the modern poetry, that composed of a certain number of syllables, without the affinities of rhyme. See the articles Verse and Rhyme.

Point Blank. See Point-Blank.

BLANKENBURG, a town of Dutch Flanders, eight miles north-east of Ostend: east longitude 5° 19', north latitude 51° 20'.

Blankenburg is also the name of a town in lower Saxony, about forty-five miles south-east of Wolfembuttle: east long. 11° 15', and north lat. 51° 50'.

BLANKET, a coverlet for a bed. A stuff commonly made of white wool, and wrought in a loom like cloth; with this difference, that they are crossed like fergus.

When they come from the loom, they are sent to the fuller; and after they have been fulled and well cleaned, they are napped with a fuller’s thistle.

There are also blankets made with the hair of several animals, as that of goats, dogs, and others.

French blankets, called Paris mantles, pay duty 12s. 12d. each, if coloured and the manufacture of France; otherwise only 5s. 1d. If unchecked, and the manufacture of France, they pay each 9s. 6d. otherwise only 3s. 10d. Blankets imported into France, pay a duty of importation according to their fineness; namely, those of fine wool, six livres per piece; those of coarse and middling wool, three livres. None can be imported but by the way of Calais and St. Valley.

BLANOS, a maritime town of Spain, in Catalonia, near the mouth of the river Torders.

BLANQUILLE, in commerce, a small silver coin current in the kingdom of Morocco, and all that part of the coast of Barbary: it is worth about three half-pence of our money.

$1
BLA, in commerce, a small copper-coin of Bern, nearly of the same value with the

BLAREGNIES, a town of the Austrian Netherlands, about seven miles south of Mons: east longitude 3° 55'; and north latitude 50° 30'.

BLASIA, in botany, a genus of plants belonging to the cryptogamia algarum class. The male is monophyllous, ovated at the base, of a cylindric figure at the middle, and truncated at the apex. The female flower is scarcely visible. The pericarpium contains a few roundish seeds.

BLASOIS, a diocesis of the Orléanais, in France, lying north of Berry.

BLASPHEMY, an indignity or injury offered to the Almighty, by denying what is his due, and of right belonging to him; or by attributing to the creature that which is due only to the creator.

The primitive church distinguished blasphemy into three sorts. 1. The blasphemy of apostates, whom the heathen professors obliged not only to deny, but to curse Christ. These blasphemers were punished with the highest degree of ecclesiastical censure. 2. The blasphemy of heretics, and other profane Christians. In this sense, they included not only those who maintained impious doctrines, but those who uttered profane and blasphemous words, derogatory to the majesty and honour of God. The same punishment that was inflicted upon heretics and sacrilegious persons, was consequently the lot of this sort of blasphemers. 3. The blasphemy against the holy ghost, concerning which the opinions of the antients varied. Some apply it to the sin of lapsing into idolatry and apostasy, and denying Christ in time of persecution. Others made it consist in denying Christ to be God: others, in denying the divinity of the holy ghost: and others place it in a perjury and malicious ascribing the operations of the holy spirit, to the power of the devil; and that against express knowledge and conviction of conscience.

Blasphemy, among the Jews, was punished by stoning the offender to death. With us, it is punishable at common law, by fine and pilory. And by a statute of William III. if any person shall, by writing or speaking, deny any of the persons in the trinity, he shall be incapable of any office; and for the second offence, be disabled to sit in any actions, to be an executor, &c.

BLAST, in a general sense, denotes any violent explosion of air, whether occasioned by gun-powder, or by the action of a pair of bellows.

BLASTS, among miners, the fame with damps. See the article DAMPS.

BLAST, or BLIGHT, in husbandry. See the article DAMPS.

BLASTING, a term used by miners for the tearing up rocks, which lie in their way, by the force of gun-powder.

In order to do this, a long hole is made in the rock, which being charged with gun-powder, they fill it up; leaving only a touch-hole, with a match to fire the charge.

BLATTA, in the history of insects, a name by which some call the large black beetle. See the article SCARABÆUS.

BLATTA BYZANTIA, in pharmacy, the same with uinguis odoratus. See the article UNGUIS.

BLATTARIA, in botany, the same with verbascum. See the article VERBASCUM.

BLAVET, or PORT-LEWIS, a port-town of Brittany, in France, situated at the mouth of the river Blavet; west longitude 5°, and north latitude 49° 40'.

BLAWBUREN, a town of Swabia, in Germany, about eleven miles east of Ulm: east long. 9° 45', and north lat. 48° 24'.

BLAY, in zoology, the same with bleak. See the article BLEAK.

BLAYE, a fortress of Guienne, in France, situated on the river Garonne, about twenty-one miles north of Bourdeaux: west long. 45', and north lat. 45° 7'. The intention of it is, to hinder any ship from going to Bourdeaux without permission.

BLAZE, a white spot in a horse's face. See the article BLEAK.

BLAZING-STAR, the same with comet. See the article COMET.

BLAZONING, or BLAZONRY, in heraldry, the art of deciphering the arms of noble families.

The word originally signified the blowing or winding of a horn, and was introduced into heraldry as a term denoting the description of things borne in arms, with their proper significations and intendments, from an ancient custom the heralds, who were judges, had of winding an horn at juilts and tournaments; when they explained and recorded the achievements of knights.

In blazoning a coat of arms, you must always begin with the field, and next proceed to the charge; and if there be many
BLEACHING, the art or method of whitening linens, stuffs, &c.

BLEACHING of silk. The silk being raw, is put into a bag of fine linen, and thrown into a vessel of boiling river-water, in which has been dissolod good Genoa or Toulon soap. After boiling for some hours, it is taken out to beat, and then is washed in cold water, wrung slightly, and put a second time into the boiling vessel, filled with cold water, mixed with soap and a little indigo, which gives it a bluish cast. When it is taken out of this second water, they wring it hard, untwist it, and separate the threads; then they suspend it in the air in a kind of stove, where they burn fulphur, the vapour of which mineral gives the last degree of whiteness to the silk.

BLEACHING of woollen stuffs is performed three different ways. 1. With water and soap. 2. With the vapour of fulphur. And, 3. With chalk, indigo, and the vapour of fulphur.

BLEACHING of coarse linens. After they are taken from the loom, they are laid in wooden frames full of cold water, where they are beaten with wooden hammers, and purged from the filth; then they are spread upon the ground to receive the dew for eight days; after which they are put into wooden tubs, with hot lye poured over them. Having been thus lixiviated, they are again purged in a mill, and the former process repeated, till they have acquired their just degree of whiteness.
BLEEDING at the nose, a particular kind of hemorrhage. See HEMORRHAGE.

BLEEDING is also used for the drawing out the sap of plants; otherwise called tapping. See the article TAPPING.

BLENING, the most south-easterly province of Sweden, having the Baltic on the south, Smalnd on the north, and the province of Schonen on the west.

BLEMISH, a term in hunting, when the hounds or beagles finding where the chase has been, make a proffer to enter, but return.

BLEMYES, or BLEMYES, a fabulous people of Ethiopia, said to have had no heads; their eyes, mouth, &c. being situated in their breasts.

BLEMCH, or BLANCH. See BLANCH.

BLEND, or BLEND, a mineral substance resembling lead-ore, but containing very little of that metal.

BLEND-WATER, called also morehough, a distemper incident to black cattle, comes either from the blood, from the yellows, or from the change of ground.

In order to cure it, take bole armoniac, and as much charcoal dust as will fill an egg-shell, a good quantity of the inner bark of an oak, dried and pounded together to a powder, and give it to the beast in a quart of new milk and a pint of earning.

BLENHEIM, a village of Swabia in Germany, situated on the west side of the Danube, three miles north-east of Hockfirt, and twenty-seven miles north-east of Ulm: east longitude 10° 2', and north latitude 48° 40'.

BLENNIUS, in ichthyology, a genus of acanthopterygious fishes, the characters of which are, that there are six bones in the branchiostegate membrane; that the fore part of the head is very flattened; and that the belly fins have only two bones.

To this genus belong the blennius, properly so called, the gattorugine, galea, galenia, gunellus, galea, mutela, and pentadactylus.

BLENNUS is particularly used for that species of blennius, which has a furrow between the eyes, with a beautiful spot in its back fin; from whence it has got the name of the butter-tv fish. See plate XXVIII. fig. 6.

BLENNUS is also the name by which Schonfeld calls the acus of Arifotle, or tobacco-pipe fish. See ACUS.

BLESENSIS POLUS, hole of Blois. See the article HOLE.

BLEW, or BLUE. See the article BLUE.

BLEYME, an inflammation arising from bruised blood between a horse's sole and the bone of the foot, towards the heel: of these there are three sorts, the first being bred in spoilt wrinkled feet, with narrow heels, are usually seated in the inward or weakest quarter. In this case the hoof must be pared, and the matter let out; then let oil de meryelle be poured in, and the hoof be charged with a remolade of foot and turpentine. The second sort, besides the usual symptoms of the first, infects the gristle, and must be extirpated, as in the case of a quitten bone, giving the horse, every day, moisten bran, with two ounces of liver of antimony, to divert the course of the humours, and purify the blood. The third sort of bleymes, is occasioned by small stones and gravel between the shoe and the sole. In this case the foot must be pared, and the matter, if any, let out: if there be no matter, then the bruised sole must be taken out; but if there be matter, the sole must be dressed like the prick of a nail.

BLICCA, the broad and thin cyprinus, with forty bones in the tail-fin.

BLIGHT, in husbandry, a diseaie incident to plants, which affects them variously, the whole plant sometimes perishing by it, and sometimes only the leaves and blossoms, which will be scorched and shrivelled up, the rest remaining green and flourishing.

Some have supposed that blights are usually produced by an easterly wind, which brings vast quantities of insects eggs along with it, from some distant place, that being lodged upon the surface of the leaves and flowers of fruit trees, cause them to shrivel up and perish.

To cure this distemper, they advise the burning of wet litter on the windward side of the plants, that the smoke thereof may be carried to them by the wind, which they suppose will afflict and destroy the insects, and thereby cure the distemper.

Others direct the use of tobacco-duft, or to wash the trees with water wherein tobacco talks have been infus'd for twelve hours; which they say will destroy those insects, and recover the plants.

Pepper dust scattered over the blossoms of fruit trees, &c. has been recommended as very useful in this case; and there are some that advise the pulling off the leaves that are distempered.

The true causes of blights, seem to be a con-
continued dry easterly wind for several days together, without the intervention of showers, or any morning dew, by which the perspiration in the tender blossom is stopped; and if it so happens, that there is a long continuance of the same weather, it equally affects the tender leaves, whereby their colour is changed, and they wither and decay: for the perpiring matter is hereby thickened, and rendered glutinous, closely adhering to the surfaces of the leaves, and becoming proper nutriment to those small insects, which are not the first cause of blights, though it must be allowed, that when they meet with such proper food, they multiply, and are instrumental in promoting the distemper.

The best remedy for this distemper, is gently to wash, and sprinkle over the tree, &c. from time to time, with common water; and if the young shoots seem to be much infected, let them be washed with a woolen cloth, so as to clear them, if possible, from this glutinous matter, that their respiration and perspiration may not be obstructed. This operation ought to be performed early in the day, that the moisture may be exhaled before the cold of the night comes on: nor should it be done when the sun shines very hot.

Another cause of blights in the spring, is sharp hoary frosts, which are often succeeded by hot sun-shine in the day time: this is the most sudden and certain destroyer of fruits that is known.

But that blights are frequently no more than an inward weakness, or distemper in trees, will evidently appear, if we consider how often it happens, that trees against the same wall, exposed to the same aspect, and equally enjoying the advantage of the sun and air, with every other circumstance which might render them equally healthy, yet very often are observed to differ greatly in their strength and vigour; and as often do we observe the weak trees to be continually blighted, when the vigorous ones, in the same situation, shall escape very well; which must therefore, in a great measure, be ascribed to their healthy constitution. This weakness may proceed from several causes, either from want of a sufficient supply of nourishment, or from some ill quality in the soil, from some bad quality in the stock, or inbred distemper of the bud or cyon, which it has imbibed from its mother tree, or it may proceed from some mismanagement in the pruning, &c.

BLIND, something that wants sight. See the article BLINDNESS.

Pore-BLIND, or pur-BLIND, is said of a person who is very short lighted.

Moon-BLIND, denotes horses that lose their sight at certain times of the moon; to cure which, take half an ounce of lapis calaminaris; heat it red hot, and quench it in a quarter of a pint of plantain-water or white-wine: to this add half a dram of aloes, and a spoonful of camphor, in powder; and letting them distilvove, drop part of it into the horse's eye.

BLIND is also used, figuratively, for things without apertures: thus we say, a blind wall, a blind alembic, &c.

BLIND, in zoology, the name given by the people of Cornwall to a fish of the cod kind, more generally known by the name of the bil.

BLIND, among traders, a kind of false light which they have in their warehouses and shops, to prevent too great a light from diminishing the lustre of their linens and stuffs.

BLIND, BLINDE, or BLEND. See BLEND.

BLINDS, or BLINDES, in the art of war, a sort of defence commonly made of oziers, or branches interwoven, and laid across between two rows of stakes, about the height of a man, and four or five feet asunder, used particularly at the heads of trenches, when they are extended in front towards the glacis; serving to shelter the workmen, and prevent their being overlooked by the enemy.

BLINDNESS, a total privation of light, arising from an obstruction of the functions of the organs of sight, or from an entire deprivation of them.

The causes of blindness are various, proceeding from cataracts, gutta pernann's, &c. There are also periodical blindness, as a defect of sight in some towards night, in others only in the day; the former of which is termed nightalopia, the latter hemeralopia. See the articles NYCTALOPIA, &c.

There are many instances of the amazing sagacity of blind people. We are told of a sculptor, who becoming blind at twenty years of age, made a perfect marble statue of Cosimo II. de Medicis, and another of clay, of Urban VIII. We are also told that there was a blind sculptor in Denmark, who distinguished perfectly well, by a mere touch, not only all kinds of woods, but all sorts of colours.

'Tis
This said, that in several parts of Peria, there are found vast numbers of blind people of all ages, sexes, and conditions, by reason of a species of little flies, which prick the eyes and lips, and enter the nostrils, carrying certain blindness with them, when they light on the eyes.

BLINDNESS, in farriery. When a horse becomes blind, it may be thus described: his walk or step is always uncertain and unequal, so that he does not set down his feet boldly, when led in one's hand: but if the same horse be mounted by an expert horsemann, and that he be of himself a beast of metal, then the fear of the furs will make him go, resolutely and freely; so that his blindness can hardly be perceived.

Another mark by which a horse may be known to have lost his sight is, that when he hears any body enter the stable, he will prick up his ears, and move them backwards and forwards. The reason is, that a vigorous horse, having lost his sight, misjudges every thing, and is continually in alarm, at the least noise he hears.

BLISTER, in medicine, a thin bladder containing a watery humour, whether occasioned by burns, and the like accidents, or by vesicatories laid on different parts of the body for that purpose. See Burn, Erispastics, and Vesicatory.

Cantharides, or Spanish flies, applied in the form of a plaster, are chiefly used with this intention. See Cantharides.

BLITE, blitum, in botany, a genus of the monandra-digynia class of plants. It has no flower petals: the fruit is a berry-like capsule, of an oval figure, and somewhat compressed; the seed is fingle, of a globular figure, compressed, and nearly of the size of the capsule.

Blite, on account of its cooling and emollient qualities, is recommended in dysenteries and spitting of blood.

BLITE, or BLIGHT, in husbandry. See the article BLIGHT.

BLITH, a market-town in Nottinghamshire, about eighteen miles north-west of Newark, west longitude 1°, and north latitude 51° 25'.

BLOATING, among physicians, the same with emphysema. See EMPHYSEMA.

BLOCK, a large mass of wood, serving to work or cut things on.

Blocks, on ship-board, is the usual name for what we call pulleys at land. They are thick pieces of wood, some with three, four, or five shivers in them, through which all the running ropes run. Blocks, whether single or double, are distinguished and called by the names of the ropes they carry, and the uses they serve for.

Double blocks are used when there is occasion for much strength, because they will purchase with more ease than single blocks, though much slower.

Block and block is a phrase signifying that two blocks meet, in taking any tackle, or halliard, having such blocks belonging to them.

Fifth block is hung in a notch at the end of the davit. It serves to balance up the blocks of the anchor at the ship's prow.

Snatch block is a great block with a shiver in it, and a notch cut thro' one of its cheeks, for the more ready receiving of any rope; as by this notch the middle part of a rope may be reeved into the block, without passing it endwise.

'Tis commonly fastened with a strap about the main-mast, close to the upper deck, and is chiefly used for the fall of the winding tackle, which is reeved into this block, and then brought to the capstan.

BLOCK, among bowlers, denotes the small bowl used as a mark.

BLOCK, in falconry, the perch upon which they place the hawk. It ought to be covered with cloth.

BLOCK OF MARBLE, a mass of it just as taken out of the quarry.

BLOCKADE, in the art of war, the blocking up a place, by poiting troops at all the avenues leading to it, to keep supplies of men and provisions from getting into it; and by these means propelling to starve it out, without making any regular attacks.

To raise a blockade, is to force the troops that keep the place blocked up, from their poists.

BLOIS, a beautiful city of Orleans, about thirty miles south-west of Orleans; situated on the north shore of the river Loire, in one of the finest countries in France: east long. 1° 30', and north lat. 47° 35'.

BLOMAREY, or BLOOMARY, in metallurgy, the first forge through which iron pallets, after it is melted out of the ore.

BLONIC, a town of Poland, about twenty miles west of Warsaw, east longitude 20° 30', and north latitude 52°.

BLOOD, fayguis, a red liquor circulating through the arteries, veins, and other vessels of animal bodies; and serving for the support of life, and nourishment of all their parts...
Blood is the great source from whence all the other liquors of the body are derived; in the origin of which, see the article SACRIFICATION.

Analysis of the Blood. The most obvious composition of blood is of a thin watery liquor, called serum; and a thick reddish-lump, called staphylohemum. This last, viewed by the microscope, is seen to consist of red globules, of a certain determinate magnitude; the same in different parts of the same animal, and even in different animals of whatever size; being equally big in an ox, a sheep, or rabbit; and the plano-oval particles in the blood of fowls and fishes, corresponding to the globules of terrestrial animals, are the same in the greatest whales, as in an eel or a frog; the same in an eagle, as in a sparrow.

These are easily perceived by any body; but the sharp-eyed Lewenbock went farther. He discovered those globules to be made up of lesser ones, which were likewise composed of others still smaller; and so on to the fifth, sixth, &c. orders. Hence it appears, how little reason certain physiologists had to suppose these globules made up of viscid bullae, including little phlebrites of air.

As to the fibres, | ser., which many have described as essential parts of the blood, there are no vestiges of them to be found, at least in its natural state. The ancients did not pretend to determine the proportions of the constituent parts of the blood; but, from the experiments of modern chemists, they have been found to be nearly as in the following table, where the blood is reckoned unity, and supposed to consist of 4873 grains.

<table>
<thead>
<tr>
<th>No. of grains</th>
<th>proportion to the whole</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>4068</td>
</tr>
<tr>
<td>Oil</td>
<td>333</td>
</tr>
<tr>
<td>Salt</td>
<td>190</td>
</tr>
<tr>
<td>Earth</td>
<td>65</td>
</tr>
<tr>
<td>Air</td>
<td>171</td>
</tr>
</tbody>
</table>

Thus we see how greatly the watery or phlegmatic part of the blood exceeds the other principles. However, it is proper to observe, that there is a remarkable difference between the blood as it circulates in the vessels of animals, and when exposed to the cold air: we know that all bodies whatever are condensed by cold, and expanded again by heat; so that we may safely affirm the cold blood, or as it is commonly examined, to be specifically heavier, than that circulating in vessels of living animals.

Circulation of the Blood. See the article CIRCULATION.

Heat of the Blood. See the article HEAT.

Quantity of the Blood. Authors are not agreed in regard to the quantity of blood contained in the human body; some making it only 10 pounds, whilst others make it to be 20, 60, or even 100 pounds: but then these last comprehend the juices of the lymphatic vessels under the term blood. As to the quantity of current blood in a horse, the ingenious Dr. Hales found it to be, at a low computation, 1105 cubic inches, or 42.2 pounds.

Blood, in medicine, claims the most attentive regard of physicians. An excess of its quantity produces a plethora, lethargy, &c. Fevers are the consequence of its too rapid motion, and obstructions of its visibility and languor. The too great heat and viscosity of the blood are its prevailing disorders in a country like this, where people live high, and drink hot inflammable liquors. Besides temperance, and using water as beverage, the milder preparations of mercury contribute greatly to cool and dilute the blood; such are ethiops and cinnambar, if given in moderate doses, so as not to affect the stomach, or excite a salivation.

Thicknes of the blood is another distemper, proceeding from a plethora, and diminution of its motion; from whence arise obstructions, stagnations, hypochondriac and hysterical affections, &c. The incubus, or night-mare, is also owing to the same cause.

Spitting of Blood is cured by copious bleeding every third day, to the fourth time. Gentle purging is likewise recommended; and, for appeasing the commotion of the blood, spirit of vitriol, but more especially the tincture of rotes made therewith. A milk diet is also preferable to any other; and after the cure is completed, it will be necessary, by way of prevention, to bleed once in six months for several years together.

Blood, in farriery, a distemper in the backs of cattle, which will make a beast go as if he drew his head aside, or after him. In order to cure it, you should fit the length of two joints under his tail, and so let him bleed well; but if he bleeds too much, knit his tail next the body, and
and then bind salt and nettles bruised unto it.

**Bullition of the Blood**, a disease in horses which proceeds from want of exercise, and gives rise to outward swellings, frequently mistaken for the farce.

Blood running itch happens to a horse by the blood's being over heated by hard riding or other labour. As the blood gets between the skin and the flesh, it makes a horfe rub and bite himself, and if neglected, will turn to a grievous mange.

**Blood of Christ**, the name of a military order instituted at Mantua in 1608. The number of knights was restricted to twenty, besides the grand master. Their device was *Domine probasti me, or, nihil, hoc, triste, recepto*.

Blood of Christ is also the name of a congregation of nuns at Paris.


**Blood-wort**, in botany. See the article Sanguinaria. **Bloody**, something belonging to, or abounding with blood. **Bloody-Flux**. See the articles Flux and Dysentery. **Bloody-hand**, is when a trespasser is apprehended in a forest with his hands or other parts bloody; which is a circumstance of his having killed the deer, tho' he be not found hunting or chasing them.

**Bloody-heel-cock**. See Heeler. **Bloody-rain**. See the article Rain. **Bloody-urine**. See the article Urine. **Bloom**, a mass of iron after having undergone the first hammering, called blomary. See the article Blomary. **Blossom** denotes the flowers of plants, but more especially of fruit-trees. See the articles Botany and Flower.

**Blossom, or Peach coloured**, in the manage, a term applied to a horse that has his hair white, but intermixed all over with foarrel and bay hairs. Such horses are so insensible, and hard both in the mouth and the flanks, that they are scarce valued; besides, they are apt to turn blind.

**BLOTTING-BOOK**, the same with waste-book. See the article Book. **BLOTTING-PAPER**. See Paper. **BLOW**, in law, any kind of stroke, whether given with the hand or a weapon. See the article Battery.

**BLOW**, in medicine. See the articles Wound and Contusion. **BLOW-pipe, or Blowing-Pipe**, a hollow tube, used by several artificers; as enamellers, glass-makers, etc.

**BLOWING**, in a general sense, denotes an agitation of the air, whether performed with a pair of bellows, the mouth, a tube, or the like.

**BLOWING of glass**, one of the methods of forming the divers kinds of works, in the glæs manufacture. It is performed by dipping the point of an iron blowing-pipe in the melted glass, and blowing through it with the mouth, according to the circumstances of the glass to be blown.

**BLOWING OF OIL** denotes the melting its ore, after being first burnt to destroy the mundic.

**BLOWING, among gardeners, the same with the blossoming of plants, or putting forth their flower-leaves.**

**BLUBBER** denotes the fat of whales and other large sea animals, whereof is made train oil. See the article Oil. **Sea-Blubber**, a name used for the urtica marina. See the article Urtica.

**BLUE**, otherwise called Azure, is one of the primitive colours of the rays of light.

**Painters Blue** is made different, according to the different kinds of painting. In limning, fresco, and miniature, they use indifferently ultramarine, blue ashes, and small: these are their natural blues, excepting the last, which is partly natural, and partly artificial. In oil and miniature, they also use indigo prepared; as also a fictitious ultramarine. See the articles Ultramarine and Indigo.

Enamellers and painters upon glass have also blues proper to themselves, each preparing them after their own manner.

**Turnsole Blue** is used in painting on wood, and is made of the seed of that plant: the way of preparing it is, to boil four ounces of turnsole in a pint and half of water, in which lime has been flacked.

**Flanders Blue** is a colour bordering on green, and seldom used but in landscape.
To write on paper or parchment with Blue Ink. Grind blue with honey, then temper it with glair of eggs, or gum made of ingle-glass.

Blueing of metals is performed by heating them in the fire, 'till they assume a blue colour; particularly practised by gilders, who blue their metals before they apply the gold and silver leaf.

To dye skins Blue. Boil elder berries or dwarf elder, then simmer and wash the skins therewith, and wring them out; then boil the berries, as before, in a dissolution of alum-water, and wet the skins in the same manner once or twice; dry them, and they will be very blue.

Dyers Blue is one of their simple or mother colours, used in the composition of others. It is made of woad, indigo, and a paste brought from Normandy. Some dyers heighten their blue, by adding brasil and other woods.

A Blue for painting or staining of glass. Take fine white sand twelve ounces, saffron and minium of each three ounces; reduce these to a fine powder in a bell-metal mortar, then putting the powder into a very strong crucible, cover it and lute it well, and, being dry, calcine it over a quick fire for an hour; take out the matter and pound it, then to 16 ounces of this powder, add 14 of nitre powder; mix them well together, and put them into the crucible again; cover and lute it, and calcine for two hours on a very strong fire.

Prussian Blue. This blue is next to ultramarine for beauty, if it be used in oil: this colour does not grind well in water.

Blue Ice is a colour of good brightness, next to prussian blue, and also a colour of a body, and will flow pretty well in the pencil.

Saunders Blue is also of very good use, and may serve as a shade to ultramarine or the blue ice, where the shades are not required to be very deep, and is itself a pleasant blue, to be laid between the light and shades of such a flower as is of a mazarine blue.

A fine Blue from Mr. Boyle. Take the blue leaves of rue, and beat them a little in a stone mortar with a wooden pestle, then put them in water, juice and all, for fourteen days or more, washing them every day 'till they are rotten; and at last beat them and the water together, 'till they become a pulp, and let them dry in the sun. This is a fine blue for shading.

Vol. I.

Indig-Blue. This makes the strongest shade for blues of any other, and is of a soft warm colour, when it has been well ground, and washed with gum-water; by means of a stone and a muller.

Lacus, or Litmus Blue. This is a beautiful blue, and will run in a pen as free as ink. It is made of lacmus, and prepared thus: Take an ounce of lacmus, and boil it in a pint of small beer, 'till the colour is as strong as you would have it; then pour off the liquor into a gallipot, and let it cool for use. This affords a beautiful colour, has extraordinary effects, and is a holding colour; if it be touched with aqua fortis, it immediately changes to a fine crimson, little inferior to carmine.

Blue Japan. Take gum-water, what quantity you please, and white lead a sufficient quantity, grind them well up on a porphyry; then take ingle-glass size, what quantity you please, of the finest and best small a sufficient quantity, mix them well; to which add, of your white lead, before ground, so much as may give it a sufficient body; mix all these together to the consistence of a paint.

Blue-Bottle, in botany. See Cyanus.

Blue-Cape, in ichthyology, a species of salmon, with a broad blue spot on its head.

Blueing. See the article Blue.

Blue-Mantle, in heraldry, the title of a pourluyvant at arms.

Blue-ness, the quality which denominates a body blue; or it is such a size and texture of the parts, which compose the surface of a body, as dispose them to reflect the blue, or azure rays of light, and those only, to the eye.

As to the blue ness of the skyes, Sir Isaac Newton observes, that all the vapours, when they begin to condense and coalesce into natural particles, become first of such a bigness, as to reflect the azure rays, before they can confluence clouds, or any other colour.

Bluff-Head, among sailors. A ship is said to be bluff-headed, that has an upper right stern.

Blunderbuss, a short fire-arm with a wide bore, capable of holding a number of bullets at once.

Blushing, a suffusion, or redness of the cheeks, excited by a sense of shame, on account of a consciousness of some failing or imperfection.

Blushing is supposed to be produced from a kind of content, or sympathy between...
the several parts of the body, occasioned by the same nerve being extended to them all. Thus the fifth pair of nerves, being branched from the brain to the eye, ear, muscles of the lips, cheeks and palate, tongue and nose, a thing, seen or heard, that is shameful, affects the cheeks with blushes, driving the blood into their minute vessels, at the same time that it affects the eye and ear. Mr. Derham further observes, upon this subject, that a favoury thing, seen or smelt, affects the glands and parts of the mouth: if a thing heard be pleasing, it affects the muscles of the face with laughter; if melancholy, it exerts itself on the glands of the eyes, and occasions weeping, &c. To the same cause is, by others, the pleasure of kissing ascribed.

**B MI**, in mule, the third note in the modern scale. See the article Scale.

**B MOLLARRE**, or **MOLLE**, one of the notes of the scale of mule, usually called soft or flat, in opposition to **b quadro**. See **B QUADRO**.

**BOAR**, a male swine that has not been gelt, kept chiefly for propagation. See the articles Hog and Sus. A boar ought to be handsome, to have a truss body, a thick head, long snout, large hanging ears, and short and thick thighs. Such a boar is esteemed good for generation, from one to five years old. See plate XXIX. fig. 1.

**BOAR**, in the manage. A horse is said to bear, when he shoots out his nose as high as his ears, and toffes his nose in the wind.

**BOARD**, a long piece of timber, sawed thin for building and several other purposes. See the article Timber.

**Barrel-Boards**, imported from Ireland, Asia, or Africa, pay only 11½d. the hundred; but if imported from elsewhere, they pay 1s. 5½d. Clap-boards pay 4s. 9½d. the hundred; but if imported from Ireland, Asia, or Africa only 2s. 10½d. Pipe-boards pay 5s. 8½d. the hundred; but if from Ireland, &c. Only 3s. 10½d. Scale-boards pay 8s. 5½d. the hundred weight; and ½d. more if imported in foreign bottoms.

**BOARD**, among seamen. To go aboard, signifies to go into the ship. To flip by the board, is to slip down by the ship's side. Board and board, is when two ships come so near as to touch one another, or when they lie side by side. To make a board is to turn to windward; and the longer your boards are, the more you work into the wind. To board it up, is to beat it up sometimes upon one tack, and sometimes upon another. She makes a good board, that is, the ship advances much at one tack. The weather board, is that side of the ship, which is to windward.

**BOARD** is also used for an office under the government: thus we say the board of trade and plantations, the board of works ordnance, &c.

**BOARDING a ship**, is entering an enemy's ship in a fight.

In boarding a ship, 'tis best to bear up directly with him, and to caule all your ports to leeward to be beat open; then bring as many guns from your weather side, as you have ports for; and laying the enemy's ship, on board, loof fo loof, order your tops and yards to be manned, and furnished with necessaries; and let all your small shot be in a readiness; then charge, at once, with both small and great, and, at the same time, enter your men under cover of the smoke, either on the bow of your enemy's ship, or bring your midship close up with her quarter, and so enter your men by the shrouts: or if you would use your ordnance, 'tis best to board your enemy's ship athwart her hawse; for, in that cafe, you may use most of your great guns, and the only those of her prow. Let some of your men endeavour to cut down the enemy's yards and tackle, whilst others clear the decks, and beat the enemy from aloft. Then let the scuttles and hatches be broke open with all possible speed to avoid trains, and the danger of being blown up by barrels of powder placed under the decks.

**BOAT**, a small open vessel, commonly wrought by rowing. The structure, and even the names of boats, are different, according to the different uses they are designed for, and the places where they are to be used. The several boats and their names are as follow: a long boat, a jolly boat, a skiff, a pinnace, a water-boat, a yawl; the preceding fix are boats for ships. Other boats are a gondola, a Greenland boat, a Bermudas boat, a ballon of Siam, a horse-boat, a periga, a pleasure boat, a ponton, a canoe, a cradle, a currancy, a deal hooker, a felucca, a ferry-boat, a praw, a flying-praw, a punt, a tilt-boat, a tod-boat, a well-boat, a wherry, &c.
The boats or wherries, plying about London, are either scullers, wrought by a fingle perfon with two ears; or oars, wrought by two perfon, with each an ear. All boats, rowed with more than four ears above or below London-bridge, are forfeited, by 8 Geo. c. xviii.

Boatswain, a ship-officer, to whom it committed the charge of all the tackleings, fails and rigging, ropes, cables, anchors, flags, pendents, &c. He is also to take care of the long boat and its furniture, and to steer her either by himself or his mate.

He calls out the several gangs and companies aboad, to the due execution of their watch, works, spells, &c. He is likewise provost-marshal, who fees and punishes all offenders sentenced by the captain, or a court martial of the fleet.

Boatswain’s mate has the peculiar command of the long boat; for the setting forth of anchors, weighing or fetching home an anchor, warping, towing, or mooring; and is to give an account of his store.

Bob, a term used for the ball of a short pendulum.

Bobbin, a small piece of wood turned in the form of a cylinder, with a little border jutting out at each end, bored through to receive a small iron pivot. It serves to spin with the spinning-wheel, or to wind thread, woollen, hair, cotton, flax, gold, and silver.

There are bobbins of several lengths and sizes, according to the materials which are to be spun or wound. Those used by the flax dealers, and the manufacturers in gold and silver, are thick short bobbins; and so are those used by the woollen manufacturers.

Bobbing, a method of fishing. See the article Fishing.

Bobbio, a town of the Milanese, in Italy, about twenty-eight miles south east of Pavia; east longitude 10°, and north latitude 44° 35’.

Boca, in ichthyology, the name with boe. See the article Boca.

Boa-chica, the entrance into the harbour of Carthagena, in south America, defended by several forts. See the article Carthagena.

Boca del drago, a strait between the island of Trinidad and new Andalusa, a province of Terra firma. See the article Terra firma.

Boca-molle, in ichthyology. See the article Fira Jurumenbeca.

Bocardo, among logicians, the fifth mode of the third figure of syllogisms, in which the middle proposition is an universal affirmative, and the first and last particular negatives, thus: Bo Some fickly perfons are not students; car Every fickly perfon is pale; do Therefore some perfons are pale that are not students.

Bocconia, in botany, a genus of the polyandria-monogynia class of plants, whose corolla consists of four very narrow petals, and whose fruit is of an oval figure, but contracted on each side, long, and compressed, containing only one cell, and filled with pulp. The seed is fingle and globular.

Bocce, in ichthyology; the name by which Aristotle calls the Iparus, with four parallel, longitudinal, gold and silver-coloured lines on each side. It is a large and beautiful fish, especially its eyes; from whence it has got the name of boops. There are nineteen rays in the pinni ani, and the pectoral fins are red. See plate XXIX. fig. 3.

Bochara, a large town of Usbec Tartary, situated on the river Oxus, about sixty miles west of Samarcand, in 65° east longitude, and 40° north latitude.

Bockholt, a town of Munster, in Westphalia, situated in 6° 20’ east longitude, and 51° 40’ north latitude.

Bock-land, in the Saxons time, is what we now call freehold lands, held by the better sort of persons by charter or deed in writing, by which name it was distinguished from folkland, or copy-hold land, held by the common people without writing.

Pudiano; or Pudiano, in ichthyology. See the article Pudiano.

Bodkin, a small instrument made of steel, bone, ivory, &c. used for making holes.

The small gros, or twelve dozen, of bodkins pays on importation 1 s. 3½ d. if of iron or steel, 4 s. 3½ d. and if of brass, only 3½ d.

T. 2

Bodmin.
BODMIN, a borough-town of Cornwall, about twenty-six miles north-east of Falmouth, in 5° 10' west longitude, and 50° 32' north latitude.

It sends two members to parliament, and gives the title of villicount to the earl of Radnor.

BODROCH, a town of Hungary, about an hundred miles south-east of Buda, and situated on the north-east shore of the Danube, in 30° 15' east longitude, and 46° 15' north latitude.

BO D Y, in physics, an extended solid substance, of itself utterly passive and inactive, indifferent either to motion or rest; but capable of any sort of motion, and of all figures and forms. According to the doctrine of the peripatetics, body is composed of matter, form, and privation. According to the epicureans and corpulricartes, the composition consists of an assemblage of hooked heavy atoms. According to the cartesians, of a certain quantity of extension. According to the newtonians, of an association of solid, mafly, hard, impenetrable particles, ranged or disposed in this, or in that manner; whence resulf bodies of this or that form, distinguished by this or that name.

That all bodies agree in one common matter, the schoolmen themselves allow, making what they call the materia prima, to be the basis of them all, and their specific differences to spring from their extension, or in that and its impenetrability together, it will follow, that the differences, which make the varieties of bodies we see, must not proceed from the nature of mere matter, of which we have but one uniform conception, but from certain attributes; such as motion, size, position, &c. which we call mechanical affections.

Affections of Body. See Affection.

Modes of Body. See the article Mode.

Elements of Body. See Element.

Substance of Bodies. We are as far, says Mr. Locke, from the idea of the substance of body, by the complex idea of extended, figured, coloured, and all other sensible qualities, which is all we know of it; as if we knew nothing at all; nor, after all the acquaintance and familiarity, which we imagine we have with matter, and the many qualities men allure themselves they perceive and know in bodies, it will, perhaps, upon examination, be found, that they have no more or clearer primary ideas belonging to body, than they have belonging to the immaterial spirit. The primary ideas we have peculiar to body, as contra-distinguished from spirit, are the cohesion of solid, and consequently separable parts, and a power of communicating motion by impulse.

Existence of Bodies is a thing incapable of being demonstrated. The order in which we arrive at the knowledge of their existence, seems to be this: we first find we have sensations, afterwards we observe, that we have not these sensations when we please; and thence conclude, that we are not the absolute cause thereof, but that there is required some other cause for their production.

Colour of Bodies. Sir Isaac Newton shews, that bodies appear of this or that colour, as they are disposed to reflect most copiously the rays of light, originally endowed with such colours: but the particular constitutions, whereby they reflect some rays more copiously than other, remain yet to be discovered.

DESCENT OF BODIES. Heavy bodies, in an unsatifying medium, fall with an uniformly accelerated motion; whence the spaces descended are in the duplicate ratio of the times and velocity, and increase according to the uneven numbers 1, 3, 5, &c. The times and velocities are in a subduplicate ratio of the spaces. The velocity of descending bodies is, in proportion to the times from the beginning of their fall; and the spaces described by a falling body, are, as the squares of the times from the beginning of their fall. See DESCENT; ACCELERATION, and Motion.

Division of Bodies is generally into animate and inanimate; into those informed by a soul, and those that are not. Bodies are also divided into alkaline bodies, conlent bodies, elastic bodies, fixed bodies, heterogeneous bodies; for which see the articles ALKALINE, consistent, elastic, &c.

Body, with regard to animals, is used in opposition to soul, in which sense it makes the subject of anatomy, and is that part of the animal composed of bones, muscles, canals, juices, nerves, &c. which, if considered with regard to the various voluntary motions it is capable of performing, is an assemblage of an infinite number of levers, drawn by cords; if considered with regard
to the motions of the fluids it contains, it is another assemblage of an infinity of tubes and hydraulic machines; and if considered with regard to the generation of those fluids, it is another infinite assemblage of chemical instruments and vessels, the principal apparatus whereof, in the whole body, is the brain, that wonderful laboratory.

In the machine of the animal body, the retainers to the doctrine of trituration maintain the brain to do the office of the beam of a press, the heart of a piston, the lungs of bellows, the mouth of a millstone, and the teeth of pettles; the stomach of a press, the intestines of a reservoir, the vessels of sieves and strainers, and the air of a pondus or spring, that sets the machine going.

Body is used by anatomists to denote several particular parts of the animal fabric, as the callous body of the brain, &c. The division of body, among physicians, is into solids and fluids, also into venters or cavities, the head, thorax, and lower venter; the ref of the body they call members or extremities.

The peripatetics maintained, that the soul was the form of the human body; but so far is animal life from depending on the soul, because of its ceasing when the soul is separated, that, on the contrary, the continuance of the soul depends entirely on the state of the body; the former never quitting the latter, till its economy or order is interrupted.

The cartesians maintain the soul and body to be too disproportionate for the ideas of the soul to be caused by the motions of the body, and vice versa. Thus their reciprocal motions, not being able to be the direct cause of the one and the other, are only deemed the occasion, or occasional cause. God, on occasion of the motion of a body, impregnes an idea of sensation on the soul; and again, on occasion of an idea of the soul, communicates a motion to the body: consequently, according to them, God is the only agent of the whole intercourse between soul and body.

Reticular Body. See Reticular.

Body, in geometry, is otherwise called a solid. See the article Solid.

The regular bodies, or those which have all their angles and sides similar and equal, are five, viz. the tetrahedron, octahedron, dodecahedron, icosaehedron, and the cube. See Tetrahedron, &c.

Body, in law. A man is said to be bound or held in body and goods; that is, he is liable to remain in prison, in default of payment.

In France, all restraints of the body for civil debts are null after four months, unless the sum exceeds two hundred livres.

A woman, though in other respects she cannot engage her person but to her husband, may be taken by the body, when she carries on a separate trade.

Body, among painters, as to bear a body, a term signifying that the colours are of such a nature, as to be capable of being ground so fine, and mixing with the oil so entirely, as to seem only a very thick oil of the same colour.

But such colours as are said not to bear a body, will readily part with the oil when laid on the work; so that when the colour shall be laid on a piece of work, there will be a separation; the colour in some parts, and the oil in others, except they are tempered extraordinary thick.

Body, in the manege. A horse is chiefly said to have a good body, when he is full in the flank. If the lat of the short ribs be at a considerable distance from the haunch bone, although such horses may, for a time, have pretty good bodies, yet, if they are much laboured, they will lose them; and these are properly the horses that have no flank. It is also a general rule, that a man should not buy a light-bodied horse, and one that is fiery, because he will soon destroy himself.

Body, in the art of war, a number of forces, horse and foot, united and marching under one commander.

Main Body of an army, the troops encamped in the center between the two wings, and generally infantry; the other two bodies are the vanguard and the rearguard; thef being the three into which an army, ranged in form of battle, is divided.

Body of reserve. See Reserve.

Body, in matters of literature, denotes much the same with system, being a collection of everything belonging to a particular science or art, disposed in proper order: thus, we say, a body of divinity, law, physic, &c.

Boedromia, in grecian antiquity, a festival celebrated yearly by the Athenians in the month boedromion; for the ceremonies of which, see Potter's arch. græc. b. ii. c. 20.

Boedromion, in chronology, the third month of the Athenian year, answering to
to the latter part of our August and beginning of September.

**BOERHAAVIA**, in botany, a genus of the *monandria-monogynia* class of plants, whose flower consists of a single campainulatated petal, erect, and of a quinquangular form, divided into five segments, that are short and marginalized. The fruit is a turbinated capsule, furrowed on the surface, and forming only one cell, within which there is lodged a single seed.

**BOGESCHOT**, a town of the austrifan Netherlands, situated in Brabant, about twelve miles north east of Malines, in 4° 40' east longitude, and 51° 5' north latitude.

**BOG** properly signifies a quagmire, covered indeed with grass, but not solid enough to support the weight of the body; in which fexe, it differs only from marshes or fens, as a part from the whole: some even restrain the term bog to quagmires pent up between two hills; whereas fens lie in champaign and low countries, where the defcent is very fmall.

To drain boggy lands, a good method is, to make trenches of a sufficient depth to carry off the moisture; and if these are partly filled up with rough fones, and then covered with thorn busses and fraw to keep the earth from filling up their interfices, a flatron of good earth and turf may be laid over all; the cavities among the ftones will give passage to the water, and the turf will grow at top, as if nothing had been done. See the article FEN.

**BOG** in geography, a river of Poland, which, running south east through the province of Podolia and Buziac Tartary, falls into the Euxine sea between Oczakow and the mouth of the Borifhens.

**BOG**, or **BOG OF GICH**, a small town of Scotland, near the mouth of the river Spey, situated in 2° 23' west longitude, and 57° 40' north latitude.

**BOGA**, or **BOCE**, in ichthology. See the article BOCE.

**BOGARMITÆ** or **BOGOMILI**. See the article BOGOMILI.

**BOGDOL**, a great nation of Tartary in Asia. The Chinefe call them eastern Tartars; and in the mogul's country, they are called Niuchi or Nuchi.

**BOGHO**, or **BUIL**, a town in the county of Nice, in Piedmont, situated on the frontiers of France, about twenty-five miles north west of Nice, in 6° 43' east longitude, and 44° 12' north latitude.

**BOGOMILI**, or **BOGARMITÆ**, in churcch history, a feft of heretics, whichprung up about the year 1179. They thought that but seven books of the scripture are to be received, that the use of churches, of the sacrament of the Lord's supper, and all prayer, except the Lord's prayer, ought to be abolished; that the baptism of catholicks is imperfect; that the persons of the trinity are unequal, and that they oftentimes made themselves visible to those of their fex. They faid, that a devils dwelt in the churches, and that Satan had refided in the temple of Solomon from the deftruction of Jerusalem to their own time.

**BOGOTO**, the capital of New Granada, in Terra Firme, situated in 74° west longitude, and 4° north latitude.

**BOHEA**, in commerce, one of the best kinds of tea that come from China. There are three forts of it: the first is bought at Canton for 80 tals per picé; the second for 45; and the third for 25. See the article Tea.

**BOHEMIA**, a kingdom subject to the houfe of Austria, bounded by Saxony on the north, by Poland and Hungary on the eaff, by Austria on the south, and by Bavaria and part of Saxony on the west. It lies between 12° and 17° east long. and 48° and 53° north lat.

**BOHEMIAN BOLÉ, bohemia bolus.** See the article Bole.

**BOHOL**, one of the Philippine-islands, in Asia: eaff long. 122°, and north lat. 16°.

**BOJANO**, a city of Molife, in the kingdom of Naples, about fifteen miles north of Benevento: east longitude 15° 25', and north latitude 45° 26'.

**BOJARS** denote russian noblemen. See the article Russia.

**BOIGUACU**, the largest of all serpents, being from twenty-four to forty feet long, and thick in proportion. It is found in the E aft and West-Indies, where the Europeans, as well as the natives, are extremely fond of it as food: See plate XXIX. fig. 4.

The boiguacu is a very terrible animal, lying in ambush in thickets or on branches of trees; from whence it darts itself on its prey. Authors of credit tell us, that it will swallow a goat, a bear, and even a stag, horns and all.

**BOIL, or FURUNCLE, in surgery.** See the article Furuncle.

**BOILED**, something that has undergone boiling; in which fexe we lay, boiled meat, boiled filk, &c.

**BOILER,**
BOILER, a vessel, usually of copper, wherein things are boiled.

BOILING, or Ebullition, in physics, the agitation of a fluid body, arising from the application of fire, &c. The phenomena of boiling may be thus accounted for: the minute particles of the fuel, being detached from each other, and impelled in orbem with a great velocity, i.e. being converted into fire, pass the pores of the containing vessel, and mix with the fluid. By the resistance they here meet, their motion is destroyed; that is, they communicate it wholly to the quiescent water; hence arises, at first, a small interline motion in the water, and from the continued action of the first cause, the effect is increased, and the motion of the water continually accelerated; so that, by degrees, it becomes sensibly agitated. But now the particles of fire, sticking on those in the lowest surface of the water, will not only give them an impulse upwards, contrary to the laws of equilibrium, but will likewise render them specifically lighter than before, so as to determine them to ascend according to the laws of equilibrium, and this, either by inflating them into little vehicles, by the attraction of the particles of water around them, or by breaking and separating the little spherules of water, and so increasing the ratio of their surface to their solid content. There will be, therefore, a constant flux of water from the bottom to the top of the vessel, and consequently a reciprocal flux from the top to the bottom; that is, the upper and under water will change places; and hence we have the reason of that phenomenon of the water being hot at top, sooner than at bottom.

Again, an intense heat will diminish the specific gravity of water, so as not only to make it mount in water, but also in air; whence arise the phenomena of vapour and smoke, though the air, enclosed in the interstices of the water, must be allowed a good share in this appearance; for that air, being dilated, and its spring strengthened by the action of the fire, breaks its prison, and ascends through the water into the air, carrying with it of the contiguous spherules of water, so many as shall hang in its will, or as can adhere immediately to it.

The particles of the air, in the several interstices of the fluid mass thus expanded and moving upwards, will meet and coalesce in their passage; by which means great quantities of the water will be heaved up and let down alternately, as the air rises up, and again paffes from the water; for the air, after coalition, though it may buoy up a great heap of water by its elaticity, while in the water, yet cannot carry it up with itself into the atmosphere; since, when once got free from the upper surface of the water in the vessel, it will unbend itself in the atmosphere, and so its spring and force become just equal to that of the common unhated air; and hence we see the reason of the principal phenomenon of boiling, viz. the fluctuating of the surface of the water.

The ingenious Mr. Amenton has shewn, that water heated to a degree of boiling, will not conceive any further heat, how much sooner the fire be increased. Yet this excellent discovery may receive a considerable improvement from what Mr. Fahrenheit has observed, viz. that the heat of the same boiling water is always regularly greater, by how much the weight of the atmosphere is greater which presses upon its surface: and again, that the same heat of the boiling water diminishes, as the weight of the incumbent atmosphere grows less. Hence in marking the degree of heat in boiling water, it will be necessary to note the weight of the atmosphere at the same time by the barometer; otherwise no certain measure will be expressed. In the mean time, however, it must be allowed, that so long as the pressure of the atmosphere continues the same, boiling water will not grow hotter by any increase of fire whatever; and with this limitation, Mr. Amenton's rule will for ever hold true. When the difference of the weight of the atmosphere is three ounces, the greatest degree of heat in boiling water, under these different weights, will be 8 or 9 degrees. From whence, the author evidently deduces, that by how much the particles of water are more compressed to each other upon increasing the incumbent weight, by so much the more fire is required to make them recede from each other, wherein ebullition consists. Hence also he concluded, that a thermometer applied in boiling water, would mark by the degree of heat it expresses, the gravity of the atmosphere at that time.

BOEBI, in zoology, an American serpent, of a beautiful and shining green all over.

BOIQUIRA, the American name for the rattlesnake.
BOIS DE SOIGNIES, the forest of Soignies, in the Austrian Netherlands, and province of Brabant, about three miles south-east of Brussel.

BOISLEDUC, called by the Dutch Hertogenbosch, a large fortified town of Dutch Brabant, situated on the river Bommel, about twenty-three miles north-east of Breda: east longitude 5° 20', and north latitude 51° 45'.

BOITJAPU, an American serpent, of an olive colour on the back, and yellow on the belly.

BOKHARAH, BOCAR, or BOGHAR, a city of Tartary in the country of the Ubees, near Gihun and Bikunt.

BOLES, a genus of earths, moderately coherent, ponderous, soft, and not stiff; but in some degree viscid, but in some degree friable, but in some degree friable, bright, but in some degree friable, bright, but in some degree friable, yellow, friable, pale-red bole, called "tume" or "fum," and used as a flux. 1. A hard, heavy, friable greyish-red bole, called "tume" or "fum," and used as a flux.

Boles are either white, yellow, red, brown, or grey.

I. Of white boles we have the following species. 1. The pure white bole aromatic, esteemed a sudorific and astringent, but unknown to our apothecaries. 2. A white friable bole, dug near Frankfort, accounted sudorific and astringent, and accordingly preferred in fputting of blood, and ulcers of the leg. 3. A hard, heavy white bole, called "terra noceira," in great esteem in malignant fevers, and against the bites of venomous animals. 4. The white lemmian earth, a light, white bole, esteemed good in dyenteries, haemorrhages, and malignant fevers. 5. The greyish-white bole, called "earth of Goltberg," and used as an astringent, cordial, and sudorific. 6. The yellowish-white bole, or tuician earth, preferred as a sudorific, and in diarrhoeas. 7. A white, soft, heavy bole, called earth of Malta, preferred against venomous bites. 8. A whitish alkaline bole, called "eretian earth," and said to be a noble astringent and sudorific. 9. A hard, whitish, alkaline bole, found near Bengal, and used with success in fevers.

II. Of the yellow boles, these are the species. 1. The yellow bole aromatic, said to be an excellent astringent, sudorific, and alexipharmic. 2. The bole of Blais, of a pure and light yellow colour, and a powerful astringent. 3. The friable, yellow bole of Tokay, esteemed a good astringent. 4. The yellow lemmian earth, accounted a good sudorific, astringent, and vulnerary. 5. The friable gold-coloured bole, brought from Westphalia, frequently used in cordial and astringent electuaries. 6. The brownish-yellow bole, called "filejian earth," a good astringent. 7. The light, friable, reddish-yellow bole, called livenian earth, esteemed a better astringent than most of the other boles. 8. The firm and heavy reddish-yellow bole, called "bohemian bole," esteemed an excellent medicine in malignant fevers, and fluxes of all kinds.

III. Of the red boles, authors enumerate the following species. 1. A hard red bole, or bole aromatic of Avienna; a good astringent, but never met with genuine. 2. A heavy, compact, pale-red bole, dug in many parts of France. 3. A light, friable, dull-red bole, called earth of Striga. 4. A heavy, friable, red bole, called livenian earth, and is a powerful astringent. 5. A heavy, friable, pale-red bole, called "feared earth of Tucany"; prescribed in fevers, and fluxes of all kinds, with good success. 6. A friable, weighty, fine red bole, found in Portugal, and esteemed a good medicine against poisons, and in malignant fevers. 7. The red lemmian earth, which is hard and weighty. 8. The friable greyish-red bole, called "Turky earth," used as a sudorific and astringent. 9. A hard pale-red bole, found in many parts of America.

IV. Of the brown boles, there are only three species. 1. A pure, pale-brown bole, laid to be a good astringent. 2. The dense, heavy, pale-brown bole, found in many parts of Germany, and used as a sudorific and astringent. 3. The light, friable, brown bole, found in many parts of England, thought to be a good astringent.

V. Of the green boles, there is only one known species, found in the perpendicular strata of stone in many parts of England, and thought improper to be used internally in medicine, on account of the copper it contains.

BOLETUS, in botany, a genus of mushrooms growing horizontally, and porous underneath. See MUSHROOM.

BOLETUS is also used by Micheli for the phallic of Linnaeus. See PHALUS.

BOLINGBROOK, or BULLINGBROKE, a market town of Lincolnshire, about twenty-five miles east of Lincoln: east longitude 15°, and north lat. 55° 15'.

BOLIS-
BOLISLAW, a town of Bohemia, about thirty miles north-east of Prague: east long. 14° 40', and north lat. 50° 25'.

BOLLARDS, large posts set into the ground, on each side of a dock: on dock-ing or undocking ships, large blocks are lashed to them; and thro' these blocks are reeved the transporting hawlers to be brought to the capstans.

BOLLITO, a name by which the Italians call a sea-green colour in artificial crystal. To prepare this colour, you must have in the furnace a pot filled with forty pound of good crystal, first carefully skimmed, boiled, and purified, without any manganese: then you must have twelve ounces of the powder of small leaves of copper, thrice calcined, half an ounce of zaffer in powder: mix them together, and put them at four times into the pot, that they may the better mix with the glass, filtering them well each time of putting in the powder, for fear that it should swell too much and run over.

BOLOGNA, a city of Italy, fifty miles north of Florence. It is about five miles in circumference, and is remarkable for its magnificent churches and monasteries, as well as for its university, which is one of the most considerable in Europe: east long. 11° 40', and north lat. 44° 30'.

BOLOGNE, or BOULOGNE. See the article BOULOGNE.

BOLONIAN STONE is a sulphureous kind of stone, about the bigness of a walnut, found near Bologna; which, when duly prepared by calcination, makes a species of phosphorus. See PHOSPHORUS.

BOISENNA, a town of the pope's territories in Italy, about forty-five miles north of Rome, at the north end of a lake to which it gives name: east long. 13°, and north latitude 44° 40'.

BOLSLAW, a town of Bohemia, situated on the river Sizera, about thirty miles north-east of Prague: east long. 14° 45', and north latitude 50° 24'.

BOLSTERS OF A FADDLE, those parts of a great faddle which are railed upon the bows, both before and behind, to hold the rider's thigh, and keep him in a right posture.

BOLSWAERT, a town of west Friesland, in the united provinces, about eighteen miles south-west of Lewarden: east longitude 5° 20', and north latitude 51° 10'.

BOLT, among builders, an iron fastening fixed to doors and windows. They are generally distinguished into three kinds, viz. plate, round, and spring bolts.

Bolts in gunnery are of several sorts, as, 1. Tranium bolts, that go between the cheeks of a gun-carriage, to strengthen the tramsums. 2. Priie bolts, the large knobs of iron on the cheeks of a carriage, which keep the hand-spoke from sliding when it is poizing up the breech of a piece. 3. Traverse bolts, the two short bolts that being put one in each end of a mortar carriage, serve to traverse her. 4. Bracket bolts, the bolts that go through the cheeks of a mortar, and by the help of quoins keep her fixed at the given elevation. And, 5. Bed bolts, the four bolts that fasten the brackets of a mortar to the bed. Bolts in a ship are iron pins of which there are several sorts, according to their different make and uses. Such are, Drive bolts, used to drive out others. Ray bolts, with jags or bars on each side, to keep them from flying out of their holes. Clench bolts, which are clench'd with rivetting hammers. Forelock bolts, which have at the end a forelock of iron driven in to keep them from starting back. Set bolts, used for forcing the planks, and bringing them close together. Fend or sender bolts, made with long and thick heads, and struck into the uttermost bends of the ship, to give her fides from bruises. And ring bolts, used for bringing to of the planks, and those parts whereto are fastened the breeches and tackles of the guns.

BOLT OF CANNAS, in commerce, the quantity of twenty-eight ells.

BOLT-ROPE. See the article ROPE.

BOLTING, a term formerly used in our inns of court, for the private arguing of causes. An ancient and two barristers sat as judges, and three students bringing each a cafe, out of which the judges chose one to be argued, the students being to argue it, and after them the barristers. It was inferior to mootings. See the article MOOT.

BOLTON, a market town of Lancashire, about twenty-seven miles north-east of Liverpool: west longitude 2° 20', and north latitude 53° 35'.

BOLUS, an extemporaneous form of a medicine, soft, coherent, a little thicker than honey, and the quantity of which is a little mortal or mouthful; for which reason it is by some called bussella.
Whatever is fit for internal use, either by itself, or when mixed with other substances, provided it is capable of the above-mentioned consistence, is a proper material for the composition of a bolus. Such are soft substances more or less thick, as conserves, eleuaries, rogs, pulps, extracts, syrups and liquid substances, as oils, spirits, essences, elixirs, &c. The dose of a bolus may be extended from one dram to one dram and a half, or two drams.

BOLZAS, a sort of ticking which comes from the East-Indies.

BOMAL, a town of Luxembourg, in the Austrian Netherlands, situated on the river Oult, about twenty miles south of Liège: east longitude 5° 30', north lat. 50° 20'.

BOMB, in military affairs, a large shell of cast iron, having a great vent to receive the fuse, which is made of wood. The shell being filled with gunpowder, the fuse is driven into the vent or aperture, within an inch of the head, and fastened with a cement made of quick-lime, ashes, brick-dust, and steel filings, worked together in a glutinous water; or of four parts of pitch, two of colophony, one of turpentine, and one of wax. This tube is filled with a combustible matter, made of two ounces of nitre, one of sulphur, and three of gunpowder dust, well rammed. To preserve the fuse, they pitch it over, but uncafe it when they put the bomb into the mortar, and cover it with gunpowder dust; which having taken fire by the flash of the powder in the chamber of the mortar, burns all the time the bomb is in the air; and, the composition in the fuse being spent, it fires the powder in the bomb, which bursts with great force, blowing up whatever is about it. The great height the bomb goes in the air, and the force with which it falls, makes it go deep into the earth.

For the theory of throwing bombs, see the article PROJECTILES.

BOMB-CHEST, a kind of chest filled usuaily with bombs, sometimes only with gunpowder, placed under ground to tear it and blow it up into the air, with those who stand on it. It was set on fire by means of a faucisse fastened at one end, but is now much disused.

BOMB-BATTERY, the same with battery of mortars. See BATTERY.

BOMBARD, a piece of ordnance antiently in use, exceedingly short and thick, and with a very large mouth. There have been bombards which have thrown a ball of 300 pound weight. They made use of cranes to load them.

The bombard is by some called basilisk, and by the Dutch, donderbus. See the article BASILISK.

BOMBARDIER, a person employed about a mortar. His business is to drive the fuse, fix the shell, load and fire the mortar, and to work with the fire-workers on all forts of fire-works, whether for war or recreation.

BOMBARDMENT, the havoc committed in throwing bombs into a town or fortress.

BOMBARDO, a musical instrument of the wind kind, much the same as the bassoon, and used as a bass to the hautboy.

BOMBASINE, a name given to two sorts of stuffs, the one of silk, and the other crossed, of cotton. Bombafine of silk pays duty on importation as other foreign silks. See SILK.

That of cotton pays each piece, not exceeding 15 yards, if narrow, 11. 3s. 1/2d. but if broad, 11. 6s. 1/2d.

BOMBAST, in matters of literature, high-felling language made up of hard words, with little meaning, and less sense.

BOMBAX, a sort of ticking which comes from the East-Indies.

BOMBARDO, a sort of ticking which comes from the East-Indies.

BOMBAY, an island on the west coast of the hither peninsula of India, situated in 72° 20' east long. and 18° 30' north lat. It is about seven miles long, and twenty in circumference; and is the property of our East-India company.

BOMB-KETCH, a small vessel built and strengthened with large beams for the use of mortars at sea.

BOMBUS, in medicine, a resounding and ringing noise in the ear, which is accounted by Hypocrates a mortal symptom in acute diseases.

BOMBYLIUS, in the history of insects, the name by which zoologists call the humble-bee, whereof they enumerate a great many species. See APIS.

BOMBYLOPHAGUS, the humble-bee eater, a fly of the tipula kind. See the article TIPULA.

BOMBYX, the silk-worm, in zoology. See the article SILK-WORM.

BOMBYX was also used, by antient naturalists, indifferently for silk or cotton.

BOMEN, a port town of Zeland, in the united provinces, situated on the northern shore of the island Schouen, opposite to the island of Goree: east longitude 4°, and north latitude 51° 50'.

BOMMEL, a town of Dutch Guelderland, situated on the northern shore of the river Waal,
BON [331] BON

Waal, about four miles north-east of Nimègue: east longitude 5° 30', and north latitude 52°.

BOMONICI, in grecian antiquity, young men of Lacedæmon, who contended at the sacrifices of Diana which of them was able to endure most laces; being scourged before the altar of this goddess.

BON, or BôN, in botany, the name by which some call the coffee-tree, a species of jæmin. See the article JASMINE.

BON, in geography, a town of the electorate of Cologne, in Germany, situated on the western shore of the river Rhine, about twelve miles south of Cologne: east longitude 7°, and north latitude 50° 35'. It is a small but well fortified town, and has a fine palace, which the elector of Cologne makes his usual residence.

BON is also the name of one of the Molucca islands, lying west of Ceram.

BONA, in geography, a port town of the kingdom of Algiers, in Africa, about two hundred miles east of the city of Algiers: east long. 8°, north lat. 36°. There is also a cape called Bona, on the same coast to the eastward, almost opposite to Sicily.

Bona-fides, or Bona-fide, among lawyers, is as much as to say, such a thing was done really, without either fraud or deceit.

A man is said to possess any thing bona-fide, who is ignorant of that thing's being the property of another; on the contrary, he is said to possess a thing malo-fide, who is conscious of its being the property of another.

Bona mobilia, the same with moveable goods or effects.

Bona notabilia, are such goods as a person dying has in another diocese than that wherein he dies, amounting to the value of 5l. at least; in which case the will of the deceased must be proved, or administration granted in the court of the archbishop of the province, unless by composition, or custom, any dioceses are authorised to do it, when rated at a greater sum.

Bona patria, an affile of countrymen, or good neighbours, where twelve or more are chosen out of the country to pass upon an affile, being sworn judicially in the presence of the party.

BONA, in geography, a cape of Africa, near Tunis, in the Mediterranean sea.

BONAIRE, an island near the coast of Terra Firme, in South America, situated in 67° west long. and 12° 30' north lat.

It is subject to the Dutch, who traffic from thence with the Caraccos-coast.

BONANA, in botany, a genus of plants otherwise called mula. See MUSA.

BONAROTA, in botany, the same with the pederosa of Linnaeus.

Bonasus, in zoology, a species of wild ox, very thick and bulky, and furnished with a mane like a horse. See plate XXIX. fig. 2.

The boninus is a very unwieldy animal, being larger than our bull: the horns are but short, and so turned as to be unfit for wounding: the nostrils are wide, and the ears long and broad: the colour of the animal is a deep tawny; only the forehead and the breast are white, and the mane is of a darker colour than that of the rest of the body. When pursued, it does not attempt to defend itself with its horns, but kicks, and discharges its dung to a great distance against the pursuers.

Bona ventura, a sea-port town in Popayan in South America, upon the south sea.

Bonavista, one of the cape Verd-Islands, subject to Portugal: west long. 23°, and north lat. 16° 30'.

Bond, an obligatory instrument, or deed, in writing, whereby one binds himself to another to pay a certain sum of money, or perform some certain acts: as that the obligor shall make a release, execute a sufficient conveyance of his estate, save the obligee harmless, perform the covenants of a deed, &c.

A bond contains an obligation with a penalty, and a condition generally written under it, which expressly mentions the sum that is to be paid, or other thing to be performed, and to whom, with the limited time thereof, for which the obligation is peremptory binding.

The condition of a bond must be to do something lawful; for if it be to perform an act malum in se, as to kill a person, &c. it is void: likewise bonds not to use trades, &c. are unlawful and void: so also are bonds made by compulsion, by infants, and feme covertz, &c. but if a drunken man voluntary gives his bond, it shall bind him; and a bond, though it be without any consideration, is binding. Where a bond has no date, or a false one is inserted therein, if it be sealed and delivered, it is a good bond; and a person shall not be charged by any bond, though signed and sealed, without delivery, or words, or other thing, amounting.
BON

or threads continued from it, that enter into the substance of the bone, which give them probably some internal senile.
The uses ascribed to it are, 1. To be a testament of the bones. 2. To convey spirits into the substance of the bones, for maintaining their heat, for preferring their sensibility, and to afflict in the work of their concretion and nutrition, by means of the minute fibres it emits into them. 3. To help to set limits to the growth and extension of the bones, as the bark is sometimes observed to bind young trees, that it is necessary to open it, before they can have the liberty of thriving.

4. It is serviceable in the conjunction of the bones, and their epiphyses.
The substance of the bones is said to consist of lamellae, or plates lying upon the other; and consist of small strings, running lengthways of the bones (like as we see in whale-bone) which strings, tho' some of them run to the extremities of the bones, and others approach near to them, do not terminate there, so as to have distinct ends; but they are, where they may be thought to terminate, still continued, and run transversely, and as it were, arch-wise; so that the strings of one side of the bone proceed so as to meet and be united to those that are propagated from the opposite; and this at both extremities; being a continuation, tho' not in the figure, yet in the manner of a ring; therefore they are not all of a length, but in every plate they fall one shorter than another.

In several bones, the lamellae are disposed diversely. In those bones which have a large cavity, they are on each side contiguous, and closely united; but in those which have not any great cavity, but are altogether ipigenous within, many of the internal laminae are placed at some distance one from another in all their lengths, having between them a cavernous substance, or small bony cells; and so have all those bones, containing a large cavity, some of those cells at both their extremities.

In the bones whose plates are contiguous, there are pores thro' and between the plates, besides those which are made for the passage of the blood-veins; and these are of two sorts, the one penetrate the laminae, and are transversely, looking from the cavity to the external superficies of the bone. The second sort are formed between the plates, which are longitudinal and strait, tending from one
end of the bone towards the other, and obviating the course of the bony firings. The first kind are formed not only in the first internal laminæ, but in every one, even to the outermost; tho' the nearer they are to the cavity, the greater is the number of the pores. The second kind, viz. the longitudinal, are not to be observed but by the help of good glasses; unless it be now and then in some particular bones: by these it is that the medullary oil diffuses itself, and is immediately beneficial to the plates. The other, viz. the transverse, are but subordinate to these, and rather designed for the passage of the marrow into them, than for the immediate communication of it to the substance of the bone. The medulla, contained in the bones, consists (besides the blood-vessels) of an investing membrane, in which are included membranaceous lobules, and bags; and in these bags vesicles, or glandulous bladders, very-like the vesicular substance of the lungs. See the articles MARROW and MEDULLA.

Dr. Havers divides also the blood-vessels of the bones into nutritious and medullary: the most considerable of the nutritious enter at the ends of the bone, viz. the artery at one end, and the veins at the other.

Some bones have long cavities in them, as the os humeri and femoris, the ulna and radius, tibia and fibula, &c. besides these large cavities which are in the inside of the bones, there are less cells or caverns in their substance, which are found in all bones, even those which have a large cavity: besides these, most have superficial cavities, or sinuses, which are distinguished into ulci, or furrows, and the holes for the nutritious and medullary vessels to enter by.

On the surface of the bones are observed two kinds of prominences, one of which is a continued part of the bone jutting apparently above its plain superficials, for the more commodious infection of the muscles, &c. called apophysis, or processus; the other an additional bone, growing to another by mere continuity, being generally more soft and porous than the other, and called an epiphysis, or appendage.

The bones are connected together various ways, according to the various purposes they are to serve, some being intended for motion, others for rest, and the support of the incumbent parts only.

The number of the bones is various in various subjects; ordinarily it is about two hundred and forty-two, some say three hundred, others three hundred and seven; others three hundred and eighteen, but the later writers fix it at two hundred and forty-nine, or two hundred and fifty.

Accidents to which the BONES are liable, are either fractures, luxations, or different kinds of wounds. See FRACTURE, LUXATION, and WOUND.

Diseases of the BONES, are caries, excrescences, exostoses, fissures, nodes, tophi, rickets, &c. See the articles CARIES, EXCRESCENCES, EXOSTOSIS, &c.

Petrified or petrified Bones, those found buried in different strata, not excpeting the hardest rocks, where they have undergone to great a change as to be converted into a stony substance. See the article PETRIFICATION.

BONE-ACE, an easy butlicking game at cards, played thus: the dealer deals out two cards to the first hand, and turns up the third, and so on through all the players, who may be seven, eight, or as many as the cards will permit; he that has the highest card turned up to him, carries the bone, that is, one half of the stake, the other remaining to be played for: again, if there be three kings, three queens, three tens, &c. turned up, the eldest hand wins the bone: but it is to be observed, that the ace of diamonds is bone-ace, and wins all other cards whatever. Thus much for the bone; and as for the other half of the stake, the nearest to thirty-one wins it, and he that turns up — or draws thirty-one, wins it immediately.

BON-ESPERANCE, the same with the cape of Good-hope. See GOOD-HOPE.

BONGO, or BUNGO, the capital of one of the islands of Japan, to which it gives name: east longit. 131°, and north lat. 32° 30'. It is a fa-port town, situated on the east side of the island, opposite to the island of Tonfa, from which it is separated by a narrow channel.

BONGO-PALA, a name given to the tree which produces the nutmeg. See the article NUTMEG.

BONIFACIO, in botany, the name by which some call the broad-leaved Ruscus, or Alexandrian bay. See RUSCUS.

BONIFACIO, in geography, a port-town of Corsica, situated at its south end, in 9° 20' east lon. and 41° 20' north lat. It is one of the best towns in the whole island, and gives name to the freight between Corsica and Sardinia.
BONIS: non amovendis, in law, is a writ directed to the sheriffs of London, &c., charging them, that a person, against whom judgment is obtained, and prosecuting a writ of error, be not suffered to remove his goods until the error is determined.

BONITO, in ichthyology, a very beautiful fish, of the tunny-kind, with a broad gold-coloured stream running along the middle of each side from the gills to the tail. See the article SCOMBER.

BONNA, in zoology, the name by which Pliny calls the bonasus. See BONASUS.

BONNET, in a general sense, denotes a cover for the head, in common use before the introduction of hats. See HAT.

Bonnets are still used in many parts of Scotland.

BONNET, in fortification, a small work, consisting of two faces, having only a parapet with two rows of palisadoes, of about ten or twelve feet distance: it is generally raised before the falient angle of the countercarp, and has a communication with the covered way, by a trench cut through the glacis, and palisadoes on each side.

BONNET A PRETRE, or PRIEST. Bonnet, in fortification, is an out-work, having at the head three salient angles, and two inwards. It differs from the double tenaille only in this, that its sides, instead of being parallel, are like the queue d'aronde, or swallow's tail, that is, narrowing, or drawing close at the gorge, and opening at the head.

BONNET, in the sea-language, denotes an addition to a sail: thus they say, lace on the bonnet, or shake off the bonnet.

BONNEVILLE, a town of Savoy, situated on the north side of the river Arve, about twenty miles south-east of Geneva, in 6° 10' east lon. and 46° 15' north lat.

BONNY, among miners, a bed of ore, differing only from a squat as being round, whereas the squat is flat. See SQUAT.

BONONIAN, or BOLONIAN. See the article BOLONIAN.

BONOS-AYERES. See the article BUENOS-AYRES.

BONT-FISH, an east-indian fish, seemingly of the turdus-kind, only that it has no scales.

BONTIA, in botany, a genus of the di-dynamica-aegialopetra class of plants: the flower consists of a single petal, the upper lip of which is erect and emarginated, and the lower lip bent back; the fruit is a large drupe, of an oval figure, containing only a single seed.

BONZES, Indian priests, who, in order to distinguish themselves from the laity, wear a chaplet round their necks, confiding of an hundred beads, and carry a staff, at the end of which is a wooden bird; they live upon the alms of the people; and yet are very charitably disposed, maintaining several orphans and widows out of their own collections. The Tonquines have a pagod, or temple, in each town, and every pagod has at least two bonzes belonging to it; some have thirty or forty. The bonzes of China are the priests of the foibits, or sects of Fohi; and it is one of their established tenets, that there are rewards allotted for the righteous, and punishments for the wicked, in the other world; and that there are various manisons, in which the souls of men will reside, according to their different degrees of merit. The bonzes of Pegu are, generally, gentlemen of the highest extraction.

BOOBY, a bird of prey, nearly allied to the goose-kind, common about Jamaica.

BOOK, liber, the composition of a man of wit or learning, designed to communicate somewhat he has invented, experienced, or collected, to the public, and thence to posterity; being withal of a competent length to make a volume.

In this sense, a book is distinguished from a pamphlet, by its greater length; and from a tome or volume, by its containing the whole writing. According to the antients, a book differed from an epistle, not only in bulk, but in that the latter was folded, and the former rolled up; not but that there are divers antient books now extant, under the names of epistles.

Origin of Books. We have nothing that is clear on that subject. The books of Moses are doubtless the oldest books now extant; but there were books before those of Moses, since he cites several. Scipio Sgambati, and others, even talk of books before the deluge, written by the patriarchs Adam, Seth, Enos, Cainan, Enoch, Methusalem, Lamech, Noah and his wife; also by Ham, Japhet and his wife; besides others by demons or angels; of all which some moderns have found enough to fill an antediluvian library; but they appear all either the dreams of idle writers, or the impostures of fraudulent ones. A book of Enoch is even cited in the Epistle of Jude, ver. 10 and 15, from which some endeavour to prove the reality of the antediluvian writings; but the
The book cited by that apostle is generally allowed; both by antient and modern writers, to be spurious.

Of profane books, the oldest extant are Homer's poems, which were so even in the time of Sixtus Empiricus; though we find mention in greek writers of seventy others prior to Homer, as Hermes, Orpheus, Daphne, Horus, Linus, Musæus, Palamedes, Zoroaster, &c., but of the greater part of these there is not the least fragment remaining; and of others, the pieces which go under their names are generally held, by the learned, to be supposititious. F. Hardouin goes farther, charging all the antient books, both greek and latin, except Cicero, Pliny, Virgil's Georgics, Horace's Satires and Epistles, Herodotus, and Homer, to be spurious, and forged in the Xllth century, by a club of perfons, under the direction of one Severus Archontius. Among the Greeks, it is to be observed, the oldest books were in verse, which was prior to prose: Herodotus's History is the oldest book extant of the profaic kind.

Materials of Books. Several sorts of materials were used formerly in making books: plates of lead, and copper, the barns of trees, bricks, stone, and wood were the first materials employed to engrave such things upon, as men were willing to have transmitted to posterity. Josephus speaks of two columns, the one of stone, the other of brick, on which the children of Seth wrote their inventions and astronomical discoveries: Porphyry makes mention of stone pillars, preferred in Crete, on which the ceremonies, practised by the Corybantes in their sacrifices, were recorded: Hesiod's works were originally written upon tables of lead, and deposited in the temple of the Muses, in Boeotia: the ten commandments, delivered to Moses, were written upon stone; and Solon's laws, upon wooden planks. Tables of wood, box, and ivory, were common among the antients: when of wood, they were frequently covered with wax, that people might write on them with more ease, or blot out what they had written. The leaves of the palm-tree were afterwards used instead of wooden planks, and the finest and thinnest part of the bark of such trees, as the lime, the ash, the maple, and the elm; from hence comes the word liber, which signifies the inner bark of the trees; and as these barks were rolled up, in order to be removed with greater ease, these rolls were called volumen, a volume; a name afterwards given to the like rolls of paper, or parchment.

Thus we find books were first written on stones, witness the Decalogue given to Moses: then on the parts of plants, as leaves chiefly of the palm-tree; the rind and barks, especially of the tilia, or phillyrea, and the egyptian papyrus. By degrees wax, then leather, were introduced, especially the skins of goats and sheep, of which at length parchment was prepared: then lead came into use; also linnen, silk, horn, and lastly paper itself.

Form of Books. The first books were in the form of blocks and tables: but as flexible matter came to be wrote on, they found it more convenient to make their books in the form of rolls: these were composed of several sheets, fastened to each other, and rolled upon a stick, or umbilicus; the whole making a kind of column, or cylinder, which was to be managed by the umbilicus as a handle, it being reputed a crime to take hold of the roll itself: the outside of the volume was called frons; the ends of the umbilicus, cornua, horns, which were usually carved, and adorned with silver, ivory, or even gold and precious stones; the title, συλλαξις, was struck on the outside; the whole volume, when extended, might make a yard and a half wide, and fifty long. The form which obtains among us is the square, composed of separate leaves; which was also known, though little used, by the antients.

To the form of books belongs also the internal economy, as the order and arrangement of points and letters into lines and pages, with margins and other appurtenants: this has undergone many varieties; at first the letters were only divided into lines, then into separate words, which, by degrees, were noted with accents, and distributed, by points and stops, into periods, paragraphs, chapters, and other divisions. In some countries, as among the orientals, the lines began from the right and ran leftward; in others, as the northern and western nations, from left to right; others, as the Greeks, followed both directions, alternately going in the one, and returning in the other, called boustrophedon: in most countries the lines run from one side to the other: in some, particularly the Chinese,
Books, from top to bottom. Again, in some the page is entire and uniform, in others divided into columns; in others distinguished into texts and notes, either marginal, or at the bottom; usually it is furnished with signatures, and catchwords; sometimes also with a register, to discover whether the book is complete. To these are added the apparatus of summaries, or side-notes, the embellishments of red, gold, or initial letters, headpieces, tail-pieces, effigies, schemes, maps, and the like. The end of the book, now denoted by finis, was antiently marked with this character <, called cornis: there also occur certain formulas at the beginnings and endings of books; the one to exhort the reader to be courageous, and proceed to the following books; the others were conclusions, often guarded with imprecautions against such as should falsify them.

Uses of Books. It is certain, that books make one of the chief instruments of acquiring knowledge; they are the repositories of the law, and vehicles of learning of every kind; our religion itself is founded on books, and without them, says Bartholin, God is silent, justice dormant, physic a blank, philosophy lame, letters dumb, and all things involved in cimmerian darkness. The eulogia which have been bestowed upon books are endless: the praises of books are already commonly known and to be quoted: quotations rarely made, and then only to prove some important truth, or embellish the subject with some beautiful and uncommon observations, never bringing an antient philosopher on the stage, to say what the meanest lacquey could have said as well; nor making a sermon, unless the business be to preach.

Marks of good Books. These are, according to Selden, solidity, perspicuity, and brevity. The first will be attained by keeping the piece long by us, often reviewing and correcting it; by the advice of friends: the second, by disposing the sentiments in a due order, and delivering them under proper and usual expressions; the third, by rejecting every thing that does not immediately concern the subject.

Bad effects object to Books. On the other hand it is said, that they employ too much of our time and attention, engage us in pursuits of no use to the commonwealth, and indispose us for the functions of civil life; that they render many lazy, and prevent their exerting their own talents, by furnishing them, on every occasion, with things of the growth of others; and that our natural lights become weakened and extinguished by ensuring ourselves only to see with foreign lights: besides, that all men are thereby furnished with means of imposing on the people, and propagating superstition, immorality, enthusiasm, or irreligion, which will always spread faster, and be received more greedily than leasons of truth and virtue.

Art of writing or compounding Books. To this end we have much fewer helps and instructions, than for the art of speaking; though the former be the more difficult of the two, as a reader is not so easily to be imposed on, but has better opportunities of detecting frauds than a hearer. A great cardinal, indeed, reduces an author's business to a few heads, were they but as easily praised as prescribed: let him consider who it is writes, what, how, why, and to whom. To write a good book, an interesting subject must be chosen, which is to be long and closely meditated on; and of the sentiments that offer themselves, those which are already commonly known are to be rejected; few or no digressions from the main point are to be allowed; quotations rarely made, and then only to prove some important truth, or embellish the subject with some beautiful and uncommon observations, never bringing an antient philosopher on the stage, to say what the meanest lacquey could have said as well; nor making a sermon, unless the business be to preach.

To judge of a Book. Those who have treated of the subject, direct us to observe the title, the author's or editor's name, the number of editions, the place where, and the year when it was printed; proceed then to the preface, and look for the author's design, and the occasion of his writing; consider also his country (each nation having
having its peculiar genius) and the person by whole order he wrote: if his life be annexed to it, run it over, and note his profession, and what rank he was of, what is remarkable in his education, studies, conversation, &c. If the preface does not give an account of the method of the work, run briefly over the order and disposition of it, and note what points the author has handled.

Foreign Books. All foreign bound books pay duty on importation 14s. for every 112s. As to unbound books, they are commonly entered by the hundred weight, and pay, if French, 13s. 6d. d. but if from any other country, only 7s. 7½d. It is also to be observed, that all popish books are prohibited to be imported; as are all English books printed abroad, unless with the consent of the proprietor of the copy.


Text-Book. See the article Text.

Books, in a mercantile sense, the several registers wherein merchants and other dealers keep their accounts. Merchants’ books are kept either single, or according to the method of double entry. They who keep them in the former method, have occasion for few books, as a journal, or day-book; and a ledger, or post-book: the former to write all the articles, following each other as they occur in the course of their business; and the other to draw out the accounts of all the debtors and creditors on the journal. This method is only proper for retail dealers, or at least for traders who have but very little business: but as for wholesale dealers and great merchants, who keep their books according to the double entry, or italian method, as is now most commonly done, their business requires several other books, the usefulness of which will be seen from what follows.

The most considerable books, according to the method of double entry, are the waife-book, the journal, and the ledger; but besides these three, which are absolutely necessary, there are several others, to the number of thirteen, or even more, called subsidiery or auxiliary books, which are used in proportion to the business a man has, or to the nature of the business a man carries on. These books are the cash-book, the debt-book, the book of numbers, the book of invoices, the book of accounts current, the book of commissions, orders, or advices, &c.

The waife-book may be defined a register, containing an inventory of a merchant’s effects, and debts, with a distinct record of all his transactions and dealings, in a way of trade, related in a plain simple style, and in order of time as they succeed one another.

The waife-book opens with the inventory, which consists of two parts; first, the effects, that is, the money a merchant has by him, the goods he has in hand, his part of ships, houses, farms, &c.; with the debts due to him; the second part of the inventory is the debts due by him to others: the difference between which, and the effects, is what the merchants call next stock. When a man begins the world, and first sets up to trade, the inventory is to be gathered from a survey of the particulars that make up his real estate; but ever after is to be collected from the balance of his old books, and carried to the new.

After the inventory is fairly related in the waife-book, the transactions of trade come next to be entered down; which is a daily task to be performed as they occur. The narrative ought to exhibit transactions with all the circumstances necessary to be known, and no more. It should contain the names of persons with whom the merchant deals upon trust, the conditions of bargains, the terms of payments, the quantity, quality, and prices of goods, with every thing that serves to make the record distinct, and nothing else. The waife-book, if no subsidiary books are kept, should contain a record of all the merchant’s transactions and dealings, in a way of trade; and that not only of such as are properly and purely mercantile, but of every occurrence that affects his stock, so as to impair or increase it, such as private expenses, servants’ fees, house-rents, money gained, &c.

The journal, or day-book, is the book wherein the transactions recorded in the waife-book are prepared to be carried to the ledger, by having their proper debtors and creditors ascertained and pointed out: whence it may be observed, that the great design of the journal is to prevent errors in the ledger; again, after the ledger is filled up, the journal facilitates the work required in revising and correcting it; for first the waife-book and journal are compared, and then the journal and ledger; whereas to revise the ledger immediately from the waife-book, would be a matter of no less difficulty, than to form it with-out
out the help of a journal: lastly, the journal is designed as a fair record of a merchant’s business, for neither of the other two books can serve this purpose; not the ledger, by reason of the order that obtains in it, and also on account of its brevity, being little more than a large index: nor can the waste-book answer this design, as it can neither be fair nor uniform, nor very accurate, being commonly written by different hands, and in time of business. Hence it is, that in case of differences between a merchant and his dealers, the journal is the book commonly called for, and inspected by a civil judge.

In the journal, persons and things are charged debtors to other persons and things as creditors; and in this it agrees with the ledger, where the same style is used, but differs from it as to forms and order; so that it agrees with the waste-book in those very things where it differs from the ledger; and, on the other hand, it agrees with the latter, in the very point wherein it differs from the former: but in order to state the comparison between the waste-book and journal, we shall turn two or three examples of the waste-book into a journal form.

**WASTE-BOOK.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 18</td>
<td>Bought of William Pope 40 yards of black cloth, at 14s. per yard, payable in three months</td>
<td>£28.00</td>
</tr>
<tr>
<td></td>
<td>Bought of James Sloan 100 yards of shalloon, at 10d. per yard</td>
<td>£1.00</td>
</tr>
<tr>
<td></td>
<td>Whereof paid</td>
<td>£2.00</td>
</tr>
<tr>
<td></td>
<td>Rest due, at two months</td>
<td>£2.03</td>
</tr>
<tr>
<td></td>
<td>Sold William Pope four pipes of port wine, at 27l. 10s. per pipe</td>
<td>£110.00</td>
</tr>
<tr>
<td></td>
<td>Whereof received</td>
<td>£55.00</td>
</tr>
<tr>
<td></td>
<td>Rest due, on demand</td>
<td>£55.00</td>
</tr>
</tbody>
</table>

**JOURNAL.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 18</td>
<td>Black cloth Dr. to William Pope, 28l. For 40 yards, at 14s. per yard, payable in three months</td>
<td>£28.00</td>
</tr>
<tr>
<td></td>
<td>Shalloon Dr. to sundries, 4l. 3s. 4d. To Cash paid in part for 100 yards, at 10d. per yard</td>
<td>£2.00</td>
</tr>
<tr>
<td></td>
<td>To J. Sloan, for the rest, due at two months</td>
<td>£2.03</td>
</tr>
<tr>
<td></td>
<td>Sundries Dr. to port wine, 110l. Cash, received in part for four pipes, at 27l. 10s. per pipe</td>
<td>£110.00</td>
</tr>
<tr>
<td></td>
<td>William Pope, for the rest on demand</td>
<td>£55.00</td>
</tr>
</tbody>
</table>

It may be here observed, that every case or example of the waste-book, when entered into the journal, is called a journal post, or entrance; thus the examples above, make three direct posts. Again, a post is either simple or complex: a simple post, is that which has but one debtor, and one creditor, as the first of these above; a complex post, is either when one debtor is balanced by one or more
nOlhinated the
The two parts in any cafe in the
former of which goes to the left
which, the narrative, or reason of the
in one or more lines, as in the first
of these three pofts above.
1. In a simple poft, the debtor is to be
expression, mentioned, then the creditor,
which, in their own nature are
money columns; as in the second and
same folio. Thus all the articles of the
part, which in their own nature are
money received, go to the left:
the purchaser of
purchased for
the ledger, the debtor,
or debtor part, is entered upon the left
side (hence called the debtor side) of its
own account, where it is charged debtor
to the creditor part: again, the creditor,
or creditor part, is posted to the right
side or creditor side of its account, and
made creditor by the debtor part. Hence
book-keeping is said to be a method of
keeping accounts by double entry, be
cause every single cafe of the waste-book,
requires at least two entrances in the
ledger, viz. one for the debtor, and ano
ther for the creditor.
From what has been said, it is evident
that the terms debtor and creditor, are
nothing else but marks or characteristics
stamped upon the different parts of tran
sections in the journal, express the rel
lation of these parts to one another, and
showing to which side of their respective
accounts in the ledger they are to be
carried.
Having thus far explained the meaning
of the terms debtor and creditor, we
shall now proceed to the ledger, or prin
cipal book of accounts.
Of the ledger. The ledger is the principal
book wherein all the several articles of each
particular account, that lie scattered in
other books, according to their dates, are
collected, and placed together in spaces
 allotted for them, in such a manner, that
the opposite parts of every account, are
directly set fronting one another, on op
posite sides of the same folio.
The ledger’s folios are divided into spaces
for containing the accounts, on the head
of which are written the titles of the ac
counts, marked Dr. on the left hand
page, and Cr. on the right: below which
stand the articles, with the word To pre
fixed on the Dr. side, and the word By
on the Cr. side; and upon the margin
are recorded the dates of the articles, in
two small columns allotted for that pur
pose. The money columns are the same
as in other books: before them stand the
folio column, which contains figures, di
recting to the folio where the corre
sponding ledger-entrance of each article is
made: for every thing is twice entered in
the ledger, viz. on the Dr. side of
one account, and again on the Cr. side of
some other account; so that the figures
mutually refer from the one to the other,
and are of use in examining the ledger.
Besides these columns, there must be kept
in all accounts, where number, measure,
weight,
BOOK [340]

weight, or distinction of coins is considered, inner columns, to infer the quantity; and for the ready finding any account in the ledger, it has an alphabet, or index, wherein are written the titles of all accounts, with the number of the folio where they stand.

**How the ledger is filled up from the journal.**

1. Turn to the index, and see whether the Dr. of the journal post, to be transported, be written there: if not, insert it under its proper letter, with the number of the folio to which it is to be carried.

2. Having distinguished the Dr. and the Cr. sides, as already directed, recording the dates, complete the entry in one line, by giving a short hint of the nature and terms of the transaction, carrying the sum to the money columns, and inserting the quantity, if it be an account of goods, &c. in the inner columns, and the referring figure in the folio column.

3. Turn next to the Cr. of the journal-post, and proceed in the same manner with it, both in the index and ledger; with this difference only, that the entry is to be made on the Cr. side, and the word **By** prefixed to it.

4. The post being thus entered in the ledger, return to the journal, and on the margin mark the folios of the accounts, with the folio of the Dr. above, and the folio of the Cr. below, and a small line between them thus —. These marginal numbers of the journal, are a kind of index to the ledger, and are of use in examining the books, and on other occasions.

5. In opening the accounts in the ledger, follow the order of the journal; that is, beginning with the first journal-post, allow the first space in the ledger for the Dr. of it, the next for the Cr. the third for the Dr. of the following post, if it be not the same with some of those already opened, and so on till the whole journal be transported: and supposing that, thro' inadvertency, some former space has been allowed too large, you are not to go back to subdivide it, in order to erect another account in it.

Tho' these rules are formed for simple posts, where there is but one Dr. and one Cr. yet they may be easily applied to complex ones.

As examples, how articles are to be entered in the ledger, take the two accounts of **Cash** and **William Pope**, so far as mentioned in the above waste-book and journal.

<table>
<thead>
<tr>
<th>1751</th>
<th>Cash</th>
<th>Dr.</th>
<th>Fo.l.</th>
<th>s.</th>
<th>d.</th>
<th>1751</th>
<th>Contra Cr.</th>
<th>Fo.</th>
<th>s.</th>
<th>d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>To port-wine, received in part for four pipes, at 271. 10s. per pipe</td>
<td>6 55 00 00</td>
<td>July</td>
<td>By shalloon, paid in part for 100 yards, at 10d. per yard</td>
<td>12 2 00 00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>WILLIAM POPE DR.</strong></td>
<td>6 55 00 00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>To port-wine, as per journal.</td>
<td>6 55 00 00</td>
<td>July</td>
<td>By black cloth, for 40 yards, at 14s. per yard</td>
<td>3 28 00 00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cash Book.** This is the most important of the auxiliary books. It is so called, because it contains, in debtor and creditor, all the cash that comes in, and goes out of a merchant's stock. The receipts on the debtor's side; the persons of whom it was received, on what, and on whose account, and in what specie; and the payments, on the creditor's side; mentioning also the specie, the reasons of the payments, to whom, and for what account they are made.

**Book of debts, or payments,** is a book in which is written down the day on which all sums become due, either to be received or paid, by bills of exchange, notes of hand, merchandizes bought or sold, or otherwise. By comparing receipts and payments, one may, in time, provide the necessary funds for payments, by getting the bills, notes, &c. due to be paid, or by taking other precautions.

**Book of numero's, or quares.** This book is kept in order, to know easily all the mer-
merchandizes that are lodged in the ware-
house, those that are taken out of it, and those that remain therein.

Book of invoices. This book is kept to preserve the journal from erasures, which are unavoidable in drawing up the accounts of invoices of the several mer-
chandizes received, sent out, or sold; wherein one is obliged to enter very minute particulars. It is also designed to render those invoices easier to find than
they can be in the waste-book, or journal.

Book of accounts current. This book serves to draw up the accounts which are to be sent to correspondents, in order to settle them in concert, before they are bal-
canced in the ledger; it is properly a duplicate of the accounts current, which is kept to have recourse to occasionally. The other mercantile books generally in
use are, the book of commotions, orders, or advices; the book of acceptances of
bills of exchange; the book of remittances; the book of expences; the copy
book of letters; the book of postal bills; the ship-books, and the book of work-
men. To these may be added others, which depend on the greater or lesser
accuracy of the merchants and bankers, and on the several kinds of trade carried on by particular dealers.

Book-binding. The art of gathering and
sewing together the sheets of a book, and
covering it with a back, &c. It is per-
formed thus: the leaves are first folded with a folding-flick, and laid over each
other in the order of the signature; then beaten on a stone with a hammer, to
make them smooth, and open well, and
afterwards prefed. While in the press
they are fewed upon bands, which are pieces of cord or packthread; six bands to a folio book, five to a quarto, octavo, &c. which is done by drawing a thread thro' the middle of each sheet, and giv-
ing it a turn round each band, beginning with the first, and proceeding to the last.

After this the books are glued, and the bands opened and scraped, for the better fixing the paste-boards; the back is turned with a hammer, and the book fixed in a press between two boards, in order to make a groove for fixing the paste-boards; these being applied, holes are made for fixing them to the book, which is prefed a third time. Then the book is at last put to the cutting-press, between two boards, the one lying even with the press, for the knife to run upon, the other above it, for the knife to run
against; after which the paste-boards are squar'd. The next operation is the sprinkling the leaves of the book, which is done by dipping a brush into vermilion and fap-
green, holding the brush in one hand, and spreading the hair with the other; by which motion the edges of the leaves are sprinkled in a regular manner, with-
out any spots being bigger than the others.

Then remains the covers, which are ei-
er of calf-skin, or of sheep-skin; these being moistened in water, are cut out to the size of the book, then smeared over with paste, made of wheat flour, and after-
wards stretched over the paste-board, on the outside, and doubled over the edges within; after having first taken off the four angles, and indented and
platted the cover at the head-band; which done, the book is covered, and bound firmly between two bands, and then set to dry. Afterwards it is washed over with a little paste and water, and then sprinkled fine with a brush, unless it should be marbled; when the spots are to be made larger, by mixing the ink with vitriol. After this the book is glaz-
ed twice, with the white of an egg beaten, and at last polished with a polishing-iron passed hot over the glazed cover.

Book-keeping, an art teaching how to
record and dispose the accounts of bui-
nels, so as the true state of every part, and of the whole, may be easily and di-
finely known. See the article Books, in a mercantile sense.

Bookseller, one who trades in books,
whether he prints them himself, or gives them to be printed by others.

Booksellers are in many places ranked
among the members of universities, and entitled to the privilege of students, as
at Tubingen, Salisburg, and Paris, where they have always been distinguished from the vulgar and mechanical traders, and exempted from divers taxes and im-
positions laid upon other companies. The traffic of books was antiently very in-
considerable, in so much, that the book-
merchants both of England, France, and Spain, and other countries, were dis-
tinguished by the appellation of stationers, as having no shops, but only stalls and
stands in the streets. During this state, the civil magistrates took little notice of
the booksellers, leaving the government of them to the universities, to whom they were supposed more immediate re-
tainers;
tainers; who accordingly gave them laws and regulations, fixed prices on their books, examined their correctness, and punished them at discretion. But when, by the invention of printing, books and book-sellers began to multiply, it became a matter of more consequence, and the sovereigns took the direction of them into their own hands; giving them new statutes, appointing officers to fix prices, and granting licences, privileges, &c.

Authors frequently complain of the arts of book-sellers. Lord Shaftesbury gives us the process of a literary controversy blown up by book-sellers. The publication of books depend much on the taste and disposition of book-sellers. Among the German writers, we find perpetual complaints of the difficulty of procuring book-sellers: many are forced to travel to the book fairs at Frankfort or Leipsic, to find book-sellers to undertake the impression of their works.

BOOKING, among merchants, the making an entry of any thing in a journal. See the articles BOOK and JOURNAL.

BOOM, in the sea-language, a long piece of timber with which the crew of the fudding-fail is spread out; and sometimes the boom is used to spread or boom out the crew of the main-mast. Boom-spar, imported from the British plantations, are free; if from Ireland, Asia, or Africa, they pay 6s. 5d. the hundred; and if from elsewhere, 9s. 6½d.

BOOM denotes also a cable stretched athwart the mouth of a river or harbour; with yards, top-masts, battling or spars of wood lashed to it, to prevent an enemy's coming in.

BOOMING, among sailors, denotes the application of a boom to the fails. A chip is said to come booming forwards, when the crew comes with all the sail she can make.

BOOPHTHALMUS, a kind of agat with large circles in it, bearing some resemblance to an ox's eye, from whence it has got this name.

BOOPS, a name given to the boca, on account of its fine large eyes. See BOCA.

BOOT, a well-known cover for the leg, made of leather. Hunting boots are made of thinner leather than ordinary, as the fishing ones are of a strong thick kind, fit to hold out water.

Jack-Boots, a very strong kind, worn by troopers.

BOOT-TREE, or BOOT-LAST, an instrument used by shoemakers to widen the leg of a boot. It is a wooden cylinder slit into two parts, between which, when it is put into the boot, they drive by main force a wedge or quoin.

BOOTES, a constellation of the northern hemisphere, consisting of 24 stars, according to Ptolemy's catalogue, of 28 in Tycho's, of 34 in Bayer's, of 42 in Hevelius's, and of 45 in Mr. Flamstead's catalogue.

BOOTY, whatever is taken from an enemy in time of war. By the law of Moses, the booty taken from the enemy, was to be divided equally between those who were in the battle and the rest of the people. And Moses adds, "Ye shall likewise separate the Lord's share, " which ye shall take out of the whole "booty belonging to the men of war."

The rabbins pretend, that under the kings of Israel, another rule was followed in the distribution of the spoil. 1. Every thing was given to the king which belonged to the conquered king, his tent, slaves, cattle, &c. After this the rest of the booty was divided into two equal parts, of which the king had one moiety, and the other was distributed among the soldiers who were in the action, and those who continued in the camp.

Among the Greeks, the booty was divided equally, a share being reserved for their gods. By the military discipline of the Romans, the booty belonged to the republic, and the generals ordered it all to be carried to the public treasury. Sometimes, indeed, it was distributed among the soldiers, as a reward of their bravery, and in order to animate them in future actions.

BOPPART, a town of the electorate of Trier, situated on the west shore of the Rhine, about eight miles south of Coblenz: east longitude 7° 10', north latitude 50° 20'.

BOQUEROON, an island in the east-indian ocean, lying north-east of Borneo, in north latitude 3°.

BOQUINIANS, in church-history, a sect of heretics so called from Bequinius their founder, who taught that Christ did not die for all mankind, but only for the faithful, and consequently was only a particular favour.

BORA, in natural history, a name used by some for the bufonites. See the article BUFONITES.

BORAGO, Borrage. See BORRAGE.

BORAK,
BORAX, a fabulous animal, said to be of a middle nature between an aś and a mule, and to have carried Mahomet in his aerial journeys from Jerusalem into heaven.

BORASSUS, in botany, a genus of plants, the characters of which are not fully ascertained as to reduce it to any class. The male flowers have the corolla divided into three oval segments resembling petals; and the female flowers have it divided into three round small permanent segments. The fruit is a roundish, obtuse, rigid, unilocular berry, containing three oval, compressed, different and filamentous seeds.

BORAX, in natural history, a mineral salt found in a fluid form, suspended in certain waters, and discoverable in them by a sweetish mixed with a brackish and bitter taste; readily separable from them by evaporation, and appearing, when separated, in a solid, bright, and transparent form, and in large, regularly figured bodies, affording, on a nice solution and evaporation, octahedral crystals. Borax makes no effervescence either with acids or alkalies, and yields nothing by distillation but an inodorous phlegm. Its use in folding of gold and other metals, is well known; also in metallurgy, as a flux; in the remelting, the small malleus of gold and silver that are the produce of afayors: for by rubbing it over the vessels there are to be melted in, it fills up all their little cavities, and leaves not the least roughness on the surface, to detain any of the melted metal: it is used by the dyers also, to give a gloss to silks; and, in Italy, the ladies use it as a cosmetic: with us, it is in no small repute as a promoter of the menes and delivery; the powder, kept as a secret by some of our women midwives, being a composition whereof borax is the basis, and the only efficacious medicine. It is also used in making Glauber's-salt.

BORAX is also used by some as the name of the toad-stone, more usually called bufonites. See the article BUFONITES.

BORONIA, in botany, a genus of the diadelphie-decandria class of plants, the flower of which is pentapetalous, papilionaceous, and hairy on the outside; the fruit is a roundish acuminated pod, with one cell, containing one seed in the shape of a kidney.

BORBORITIS, bororitis, in church-history, a sect of gnostics, in the second century, who, besides embracing the errors of those heretics, denied the last judgment. Their name comes from βορήρις, filth, on account of a custom they had of daubing their faces and bodies with dirt and filth.

BORCHA, or BORBO, names used by some authors, for the bearded gadus with two back-fins, and both jaws, even.

BORCH, a town of Lower Saxony; in Germany, about fourteen miles north-east of Magdeburg: east long. 12° 14', north lat. 52° 25'.

BORCHOEN, or LOOTS, a town of the bishopric of Liege, in Germany, about fifteen miles north-west of the city of Liege: east longitude 5° 50', north lat. 50° 50'.

BORDAT, in commerce, a small narrow stuff which is manufactured in some parts of Egypt, particularly at Cairo, at Alexandria, and at Damietta.

BORDER, in gardening, is made to inclose parterres, that they may not be injured in walking in them. Borders are made either circular, straight, or in cants; and are turned into knots, serpents, volutes, and other compartments. They are rendered very ornamental by the flowers, shrubs, yews, &c. that are raised in them. They are, always laid with a sharp rising in the middle; because if they are flat, they are no ways agreeable to the eye: and as for their breadth, the largest are allowed five or six feet, and the lesser commonly four. There are four forts, 1. Those continued about parterres, without any interruption. 2. Those cut into compartments and convenient divisions by small palisades; these two are raised in the middle, and adorned with flowers and shrubs. 3. Even and flat ones, without flowers. And, 4. Quite plain borders, only fanned, as in parterres of orangery.

BORDER, or BORDURE, in heraldry. See the article BORDURE.

Borders also denote the leaves standing about the middle thrum of a flower.

BORD-FREE. See the article FREE.

BORD-HALFPENNY, a small toll, by custom paid to the lord of the town for setting up boards, tables, booths, &c. in fairs and markets.

BORD-LANDS, the demesnes which lords keep in their hands for the maintenance of their board or table.

BORD-LODE, a service required of tenants to carry timber out of the woods of the lord to his house. It is also used to signify
BORD-SERVICE, the tenure of bord-lands, by which some lands in certain places are held of the bishop of London, and the tenants now pay six-pence per acre, in lieu of finding provision annually for their lord’s table.

BORDURE, in heraldry, a cutting off from within the escuteon all round it about ¼ of the field, serving as a difference in a coat of arms, to distinguish families of the same name, or persons bearing the same coat. See plate XXIX. fig. 5.

If the line constituting the bordure be strait, and the bordure be plain, then in blazoning you must only name the colour of the bordure.

Bordures are sometimes ingrailed, gabled, invected, &c. See the articles INGRAILED, &c.

If the bordure be charged with any part of plants or flowers, the term is verdoy of trefoils, or whatever flower it be, if it consists of ermins, vairly, or any of the furs, they say purflew of ermins, &c. If the bordure be charged with martlets, the word is charged with an enamel of martlets, &c.

Bordures are symbols of protection, favour and reward, and as such kings below them on thole they have a value for.

BORE, among engineers, denotes the diameter of the barrel of a gun or cannon, or rather its whole cavity.

Square BORE, among mechanics, a square piece of well-tempered steel, fitted into a handle, serving to widen holes, and make them perfectly round.

BOREAL, in a general sense, something relating to the north. Thus, BOREAL SIGNS, in astronomy, are the first six signs of the zodiac, or those northwards of the equinoctial.

Aurora-BOREALIS. See AURORA.

BOREALIS, a Greek name, now in common use for the north wind.

Petron obserues, that anciently boreas signified the north-eaft wind, blowing at the time of the summer solstice. Boreas is represented in painting like an old man with a horrible look, his hair and beard covered with snow or hoar frost, with the feet and tail of a serpent.

BOREALISMI, Ἡθητερνίς, in grecian antiquity, a festival kept by the Athenians in honour of Boreas.

BORCO, a cape on the north part of new Zeland, in the south sea, lying west by south from the most southerly part of South America.

BORGO, a town of Finland, in the province of Nyland, upon the northern coast of the gulf of Finland.

BORGO DI SÉSIA, a town of Italy, in the dutchy of Milan, situated upon the Seia.

BORGO DI SEPULCHRO, a town of Tuscany, about fifty miles east of Florence, near the head of the Tiber: east long. 13° 15', and north lat. 43° 30'.

BORGO DE VAL DE FARO, a town of Italy, in the dutchy of Parma, about twenty miles south-west of that city: east long. 10° 36', north lat. 44° 34'.

BORGO-FORTE, a town of the Mantuan, in Italy, situated at the confluence of the rivers Po and Menzo, about eight miles south of Mantua: east longitude 11°, north latitude 44° 50'.

BORGO ST. DOMINGO, a city of Italy, in the dutchy of Parma, about ten miles north-west of that city: east long. 10° 31', north lat. 44° 50'.

BORIA, a city of Arragon, in Spain, about thirty-five miles north-west of Saragossa: west long. 2°, and north lat. 41° 42'.

BORING, in a general sense, the art of perforating, or making a hole through any solid body.

BORING of water-pipes. The method of boring water-pipes is as follows. The poles of alder, which is a very useful wood in making pumps, water-pipes, &c., being laid on horfes or trefolls, &c., to rest the auger upon while they are boring, they fet up a lath to turn the leaft end of the poles, to fit them to the cavities of the great end of the others. They turn the small ends of the poles about five or six inches in length, to the size they intend to bore the bigger ends about the same depth, viz. five or six inches. This is designed to make a joint to shut each pair of poles together, the concave part being the female part, and the other part, the male of the joint. In turning the male part, they turn a channel in it, or a small groove at a certain distance from the end; and in the female part, they bore a small hole to fit over this channel. This being done, they bore the poles through; and to prevent them from boring out at the side, they stick great nails at each end to be a guide in boring. It is usual, however, to bore them at both ends; so that if a pole
BOB [345] BOR

This country abounds in cattle, millet, and cotton. It lies between 15° and 24° east long., and between 10° and 20° north latitude.

BOR is also the name of a lake, in the river Niger, where it traverses the above-mentioned country.

BOROUGH, BURROUGH, BORROW, or BURGH, a corporation, or town, which is not a city. The word, in its original signification, meant a company, consisting of ten families, which were bound together as each other’s pledge. Afterwards borough came to signify a town, having a wall or some kind of enclosure round it. And all places that in old time had the name of borough, it is said, were fortified, or fenced in some shape or other.

BOROUGH is now particularly appropriated to such towns or villages as lend burghers or representatives to parliament, whether they be incorporated, or not.

They are distinguished into those by charter or statute, and those by prescription or custom: the number in England is one hundred and forty-nine, some of which lend one, but the most of them two representatives.

Royal Boroughs, in Scotland, are corporations made for the advantage of trade, by charters granted by several of their kings, having the privilege of sending commissioners to represent them in parliament, besides other peculiar immunities. They form a body of themselves, and send commissioners each to an annual convention at Edinburgh, to consult the benefit of trade, and their general interest.

BOROUGH-ENGLISH, a customary descent of lands or tenements, in certain places, by which they descend to the youngest instead of the eldest son; or, if the owner have no issue, to the younger instead of the elder brother. This custom goes with the land, although there be a devise or foishment at the common law to the contrary. The reason of this custom, says Littleton, is, because the youngest is presumed, in law, to be least able to provide for himself.

BOROUGH-HEAD, or HEADBOROUGH, called also borough-holder, or burghholder, the chief man of the decemna, or hundred, chosen
chosen to speak and act in behalf of the ref.

Headborough also signifies a kind of head constable, where there are several chosen as his assistants, to serve warrants, &c.; see the article Constable.

Low-Boroughs, or Burrows, in the law of Scotland, denotes binding to the peace. See the article Peace.

Borough-bridge, a town in the north riding of Yorkshire, about fifteen miles north-west of York: west long. 1° 15', and north latitude 54° 10'.

Borozail, or the zail of the Ethiopians, a disease epidemic in the countries about the river Senega. It principally affects the pudenda, but is different from the lues venera. It owes its rise to excessive venery: in the men this dieterm is called afab, and in the women affabatu.

Borrage, borage, in botany, a genus of the pentandria-monogynia class of plants, the flower of which consists of a single petal of the length of the cup, and divided into five segments: there is no pericarpium, but the cup grows larger and inflated, and contains four seeds of a roundish figure, rugose, carinate outwardly from the point, globose at the base, and incurred into a hollow receptacle. See plate XXIX. fig. 6. The leaves of borage are accounted cordial, and good in removing faintness; for which reason the tops are frequently put into wine and cool tankards. Bocchave recommends the expressed juice in all inflammatory diseases. The flowers are one of the four cordial flowers. The only official preparation is the conserve of the flowers.

Borrellists, in church-history, a christian sect in Holland. They are a kind of anabaptists, but they have some very particular opinions. They reject the use of churches, of the sacraments, public prayer, and all other external acts of worship. They assert, that all the christian churches of the world have degenerated from the pure apostolical doctrines, because they have suffered the word of God, which is infallible, to be expounded, or rather corrupted, by doctors, who are not infallible. They lead a very austere life, and employ a great part of their goods in alms.

Borsalo, a kingdom of Africa, in Nigritia: it extends along the north side of the river Gambia, as far as Tancendence.

Bos, the ox, in zoology, a genus of quadrapeds, of the order of the pereora, the characters of which are, that the horns are hollow and turned forward, bent like crescents, and smooth on the surface. Of this genus authors enumerate the following species, viz. 1. The common tame kind. 2. The bonasus. 3. The bisom. 4. The babalis. 5. The urus. See the articles BONASUS, BISON, &c.

Bos camelitas, a kind of wild ox, thought to be the same with the bisom.

Bos marinus, the name by which the variegated my-fish, with ten prickly tubercles on the middle of the back, is sometimes called.

Bosa, or Bossa, a town of Sardinia, situated on its western coast, at the mouth of a river of the same name: east longit. 8° 30', and north latitude 40° 15'.

Boscage, the same with a grove, or thicket.

Boscage, in a law sense, is that food which yields to cattle, as malt, &c. But Manwood says, to be quit of boscage, is to be discharged of paying any duty for wind-fall wood in the forest.

Boscage, among painters, denotes a landscape representing much wood and trees.

Boscchetto, in geography, a territory in the Isle of Malta: and likewise an estate belonging to the grand masters of that order, about two miles from Civita Vecchia, in Italy.

Bosea, in botany, a genus of plants, belonging to the pentandria-rognynia class. There is no corolla: the fruit is a globose berry, with one cell, containing a single acuminate seed. This genus comes very near the celtis and the ulmus.

Bosna-serafo, the capital of the province of Bosnia: east longitude 39°, and north latitude 44°.

Bosnia, a frontier province of Christendom, divided between the house of Austria and the Turks; that part of it lying eastward of the river Unna, belonging to the Turks; and the rest of it, lying westward of that river, to the Austrians.

Bosphorus, in geography, denotes, in general, a narrow sea, or channel, separating two continents, and serving as a communication between two seas.

Bosphorus is more particularly used for the straits of Constantinople, which divides Europe from Asia. This was the original bosphorus; so called because oxen could swim over it: and from the resemblance between it and the rights of Kaffa, these last were antiently.
tently called the cimmerian, as the for-
mer were the thraician bosforus.

**BOSQUETS, in gardening, groves so call-
ed from *boschetto*, an italain word, which
signifies a little wood. They are com-
partments in gardens, formed by the
branches of trees, disposed either regu-
larly in rows, or wildly and irregularly,
according to the fancy of the owner. A
bosquet is either a plot of ground includ-
ed with palfiades of horn-beam, the middle
of it being filled with tall trees, as elm
or the like, the tops of which make a tuft
or plume; or it consists of only high trees,
as horse-chestnut, elm, &c. The ground
should be kept very smooth and rolled,
or elie covered with grafs, after the man-
er of the green-plots. In planting bo-
quets, care should be taken to mix the
trees which produce their leaves of differ-
ent shapes, and various shades of green,
and hoary or meally leaves, so as to af-
ford an agreeable prospect. Bosquets are
only proper for spacious gardens, and re-
quire a great expence to keep them up.

**BOSS, or *Bosse*, in sculpture. See the
article RELIEVO.

**BOSSAGE, in architecture, a term used
for any stone that has a projection, and
is laid rough in a building, to be after-
wards carved into mouldings, capitals,
coats of arms, &c.

Bossage is also that which is: otherwis-
called rustic work, and consists of stones
which advance beyond the naked, or level,
of the building, by reason of indentures or
channels left in the joinings. These are
chiefly used in the corners of edifices, and
thence called rustic quoins. The cavities
or indentures are sometimes round, some-
times chain-framed, or bevelled, some-
times in a diamond form, and sometimes
inclosed with a cavetto, and sometimes
with a lifel.

**BOSSINEY, a borough-town of Cornwal,
situated on the irth channel, about fif-
teen miles north-west of Louanefon: well long. 5°, and north lat. 50° 40'.
It lends two members to parliament.

**BOSBORA, or BASSORA, a large port-
town of allatic Turky, in the province of
Eyrac Arabic; situated on the western
shore of the river Euphrates, about forty
miles north-west of the gulf of
Perfa, or Bassora: east longit. 47°, and
north lat. 39°.

**BOSSUIT, a town of Brabant, in the au-
frian Netherlands, about eight miles
south of Louvain: east longit. 4° 30', and
north lat. 50° 52'.

**BOSTANGIS, in the turkish affairs, perons
employed in the garden of the feraglio, out
of whose number are collected those who are
to row in the grand signior's brigantines,
when he has a mind to divert himself with
fishing, or take the air upon the canal.
They who row on the left hand are only
capable of mean employments in the gar-
dens; but they who row on the right
hand may be promoted to the charge of
bostangi-bachi, who has the general in-
tendency of all the grand signior's gar-
dens, and commands above ten thousand
bostangis.

**BOSTON, a port-town of Lincolnshire,
situated near the mouth of the river With-
am, about twenty-six miles south-east of
Lincoln: east long. 5', and north lati-
tude 53°.

**BOSTON is also the name of the capital of
New-England, situated on a peninsula,
at the bottom of a fine bay, covered with
small islands and rocks, and defended by
a castle and platform of guns: west lon.
7°, and north lat. 42° 24'.
It is a flourishing town, wherein are ten
churches, six of them belonging to inde-
pedents. The number of its inhabitants
are computed to be about fourteen thou-
sand.

**BOSWORTH, a market-town of Leic-
sestershire, situated about eleven miles
south-west of Leicester: west longitude
1° 2', and north lat. 52° 45'.

**BOTALF FORAMEN, in anatomy, a name
given to the foramen ovale, from Botall,
physician to Charles IX. to whom the
discovery of it is ascribed. See the article
HEART and FORAMEN OVALE.

**BOTANIST, a person skilled in botany,
and consequently capable of ascribing to
every plant its proper characters and name.

**BOTANOPHILI, persons who have treat-
ed of plants, not as botanists, but as
horticulturists, physicians, &c.

**BOTANIK, that branch of natural history,
which treats of plants, their classes, sub-
divisions, various genera, and species.
In this sense botany differs from phyto-
logy and pharmacy; which treat of the ge-
neration, structure, medicinal and other
uses of plants; as also from agriculture,
and gardening, which comprehend their
culture and propagation. See the articles
AGRICULTURE, &c.

The science of botany is differently ex-
plained by different authors; but the two
systems of Tournefort and Linnæus more
especially deserve our consideration.
We shall begin with the latter, as being that which we have principally followed in the botanical part of this dictionary. It is to be observed, then, that Linnaeus has established an entirely new system of botany, founded on the number and different structure observable in the male and female parts of generation of each plant; the former of which is called stamen, or stamens, when there are more than one of them; and the latter pistil. See the articles STAMEN and PISTIL.


See plate XXX. where 1 represents class 1; 2, class 2; and so of the rest.

These are the general classes of plants, established by that excellent botanist; who farther subdivide them into orders, which he denominates monogyenia, digynia, trigynia, &c. from the number of pistils, or female parts of generation, found in each plant. See the articles MONOGYinia, DIGYNIA, TRIGYNIA, &c.

The same celebrated naturalist has likewise distributed the vegetable part of the creation into different orders, from the form and structure of the calyx, or cup, of their flowers: but as this has no connection with the method laid down. we must refer the reader to his Genera Plantarum, where they will find it explained; as also to the article CALYX.

Having thus briefly explained the system of Linnaeus, we come to that of Tournefort, which is founded on the different structure and disposition, observable in the flowers, or, more strictly speaking, the flower-leaves of plants. According to Tournefort, therefore, all plants are ranged under one or other of the following classes, viz. 1. Plants with monopetalous, campifform, or bell-fashion flowers. 2. Those with monopetalous, infundibuliform, or funnel-like flowers. 3. Plants with apomalous monopetalous flowers. 5. Plants with polypetalous labiatus flowers. 6. Plants with polypetalous cruciform flowers. 7. Plants with polypetalous rosaceous flowers. 8. Plants with carophyllus, or pink-like flowers. 9. Plants with lilacceus, or lilly-like flowers. 10. Plants with polypetalous papilionaceous flowers. 11. Plants with polypetalous anomalous flowers. 12. Plants with flocculous flowers. 13. Plants with semi-flocculous flowers. 14. Plants with radiated flowers. 15. Plants with flamineous flowers. 16. Plants without flowers, but having visible seeds. 17. Plants with neither visible flowers nor seeds. 18. Trees with apetalous flowers. 19. Trees with apetalous 2mentaceous flowers. 20. Trees with monopetalous flowers. 21. Trees with rosalaceous flowers. 22. Trees with papilionaceous flowers. The description of each of which see under their several heads MONOPETALOUS, CAMPIFORM, &c.

See plate XXXI. where 1 represents class 1; 2, class 2; and so of the rest.

BOTARGO, a kind of saffage, made with the eggs and blood of the sea-mullet, a large fish, common in the Mediterranean. The best kind comes from Tunis, in Barbary: it must be chosen dry and redish. The people of Provence use a great deal of it, the common way of eating it being with olive oil and lemon juice. There is also a great consumption of botargo throughout all the Levant.

Botargo pays on importation 27,86 d. the pound, whereof 27,86 d. is repaid on exportation.

BOTATRISsa, or BOTATRIA; in ichthyology, the name with the bitttern. See BITTERN.

BOTE, bota, in our old law books, signifies recompence or amends: thus man-bote, is a compensation for a man slain.

There are likewise house-bote and plough-bote, privileges to tenants, of cutting wood for making ploughs, repairing tenements, and likewise for fuel.

BOTELESS, or BOOTLESS, is when an offender was said to be without emendation, when no favour can acquit him; as in the case of sacrilege.

BOTHNIA
BOTHNIA, the name of two provinces in Sweden, distinguished by the epithets east and west, and lying on each side the bosphoric gulf, which takes its name from them.

BOTRYTIS, in botany, the same with the byssus of Linnaeus.

BOTTLE, a vessel proper to contain liquors, made of leather, glass, or stone. There are bottles of boiled leather, which are made and sold by the cafe-makers. Those among the ancient Hebrews were generally made of goat-skin, with the hair on the inside, well pitched and sewed together; the mouth of the bottle was through the animal’s paw that furnished the matter of it.

There are now in use bottles of fine glass which are commonly covered with ozier, and others of thick glass which are not covered. Formerly all those bottles made in France held exactly a pint Paris measure (or about a quart of our English wine measure); but since the tavern-keepers fell most of their wine in such bottles, notwithstanding an ordinance to the contrary, that one would think the glasmakers had entered into an agreement with them, not to make any bottles that hold the full measure, there are none but what hold less, and some considerably so. See the article GLASS-MAKING.

In commerce, bottles of earth or stone pay 11½ d. each dozen, on importation; whereas 10½ d. is repaid on exporting them. Glass bottles covered with wicker, pay 6s. 7½ d. the dozen; whereas 6s. 2½ d. is repaid on exporting them. Glass bottles covered with leather, pay 1l. 9s. 11½ d. the dozen; whereas 1l. 7s. 10½ d. is repaid on exporting them. Glass bottles uncovered, pay 1s. 5½ d. the dozen; 1s. 4½ d. being repaid on exporting them. Bottles made of flint glas, pay 8d. for each pound weight; and thole made of green glass only 2d. for each pound weight. Bottles made of wood, called fucking-bottles, pay by the gross, or twelve dozen, 1s. 1l. 10½ d.; whereas 1s. 8½ d. is repaid on exporting them.

Stone Bottles. See Potter’s ware.

BOTTLING of beer. See the article Beer.

BOTTOM, in a general sense, denotes the lowest part of a thing, in contradiction to the top, or uppermost part.

Bottom, in navigation, is used to denote as well the channel of rivers and harbours, as the body or hull of a ship: thus, in the former sense, we say, a gravelly bottom, clayey bottom, sandy bottom, &c. and in the latter sense, a British bottom, a Dutch bottom, &c. By statute, certain commodities imported in foreign bottoms, pay a duty called petty customs, over and above what they are liable to, if imported in British bottoms.

BOTTOMRY, in commerce, a marine contract for the borrowing of money upon the keel or bottom of a ship, that is to say, when the master of a ship binds the ship itself, that if the money be not paid by the time appointed, the creditor shall have the said ship.

BOTTOMRY is also where a person lends money to a merchant, who wants it in traffic, and the lender is to be paid a greater sum at the return of the ship, standing to the hazard of the voyage. On which account, though the interest be greater than what the law commonly allows, yet it is not usury, because the money being furnish’d at the lender’s hazard, if the ship perish, he shares in the loss.

It is enacted by 15 Geo. II. cap. xxxvii. that after August 1, 1746, every sum of money lent on bottomry, upon the ships of any subjects to or from the East-Indies, shall be lent only on the ship, or the merchandizes laden on board her, and no express’d in the condition of the bond; and the benefit of salvage shall be granted to the lender, his agents, &c. who only shall have a right to make assurance on the money lent: and no borrower of money on bottomry shall recover more on any assurance, than the value of his interest on the ship or effects, exclusive of the money borrowed. And if the value of his interest doth not amount to the money borrowed, he shall be responsible to the lender for the surplus, with lawful interest for the same, together with the assurance, and all charges whatsoever, &c. notwithstanding the ship and merchandize shall be totally lost.

There is a fictitious way of taking up money, in the nature of bottomry, upon supposition of a ship and maffet, when, indeed, there is no such ship or maffet in being; the condition reciting, that if that ship (naming her) shall not arrive at such a place, within twelve months, the money agreed on to be paid, shall be paid; but if the ship shall arrive, then nothing is to be paid. This unjustifiable method of raising money is a ‘common practice...
BOTTONY. In heraldry, a cross bottony, it is a cross with a dot in the centre of each quarter. It is used in the arms of certain English families.

BOUQUET. In botany, a bouquet is a collection of flowers used for decoration. It is often used in floral arrangements and displays.

BOUNTIFUL. In theology, bountiful means full of goodness. It is used to describe a person or thing that is generous and kind.

BOURBON. In history, Bourbon is a French dynasty that ruled France as kings. They are also known for their patronage of the arts and sciences.

BOUQUETIN. In botany, a bouquetin is a type of rose. It is known for its fragrant flowers and has long been cultivated for its beauty and scent.

BOUQUETED. In botany, bouquetsed refers to plants that have been collected or gathered together in a bunch. It is used to describe the natural arrangement of flowers in a bouquet.

BOURNE. In geography, a bourne is a small river or stream. It is often used to describe the course of a river or stream that flows through a particular area.

BOURNOIS. In geography, a bournois is a region or area within a country. It is often used to refer to a specific district or province.

BOURNOSSIN. In geography, a bournoossin is a term used to describe a specific area within a country. It is often used to refer to a region or district.

BOURNOSSINION. In geography, a bournoossinion is a term used to describe a specific area within a country. It is often used to refer to a region or district.
BOURBON-LANCY, a town of Burgundy, in France: east longitude 5° 40', and north latitude 46° 31'.

BOURBOURG, or BOURBORG, a town of the French Netherlands, about ten miles south-west of Dunkirk: east long. 2° 10', and north latitude 50° 50'.

BOURDEAUX, the capital of all Guienne and Gallony, situated on the river Garonne, in 45° west long.; and 44° 50' north latitude.

BOURDINES, a town of the auffrian Netherlands, ten miles north-east of Na­mor: east long. 5°, and north lat. 50° 35'.

BOURDONNEE, in heraldry, the name with pomee. See the article POM'SE.

BOURG, the capital of the island of Cay­enne, a French colony on the coast of Guiana, in south America: west long. 52°, and north lat. 5°.

BOURG-EN-BREIS, the capital of Breis, in the province of Burgundy, in France, thirty-six miles west of Geneva, and thirty­two north of Lyons: east long. 5° 5', and north latitude 46° 20'.

BOURG-SUR-MER, a town of Guienne, in France, fifteen miles north of Bourse­deaux: west longitude 3°.

BORGER-MASTERS, the name with burge-masters. See BURGO-MASTERS.

BOURGES, the capital of the territory of Berry, in the Oiseanois, in France, si­tuated about fifty miles south-east of Or­leans: east long. 2° 30', and north lat. 47° 15'.

BOURGET, a town of Savoy, six miles north of Chambery: east longitude 5° 55', and north latitude 45° 45'.

BOURIGNONIST'S, the name of a sect among the low country protestants, being such as follow the doctrine of Antoinette Bourignon, a native of Lille, and apologist of the roman catholic religion.

The principles of this sect bear a very near resemblance, with those of the quie­tists, quakers, or fanatics. They con­duct themselves by pretended revelations.

BOURO, an island in the Indian ocean, subjacent to the Dutch: east longitude 124°, and south latitude 3° 30'.

BOUT, in the manege. A horse is called boute, when his legs are in a straight line from the knee to the corone: short­jointed horses are apt to be boute; and, on the other hand, long-jointed horses are not.

BOUTON, an island in the Indian ocean: east longitude 121° 50', and lying be­tween 4° and 5° south latitude.

BOUTS-RIMES, in French poetry, a term signifying certain rhymes disposed in or­der, and given to a poet, together with a subject, to be filled up with verses ending in the same word and same order. In choosing the rhymes, it is usual to fix on such as seem the remotest, and have the least connection. Some authors fancy, that these rhymes are, of all others, the easiest, that they affl inflict the invention, and furnish new thoughts.

BOUVILLON, a city of Luxemburg, in the auffrian Netherlands, about forty miles west of Luxemburg: east longitude 5°, and north latitude 49° 55'.

BOW, arcus, a weapon of offence made of steel, wood, horn, or other elastic matter, which, after being bent by means of a string fastened to its two ends, in return­ing to its natural state, throws out an arrow with prodigious force.

The use of the bow is, without all doubt, of the earliest antiquity. It has likewise been the most universal of all weapons, having obtained amongst the most barbarous and remote people, who had the least communication with the rest of mankind.

The figure of the bow is pretty much the same in all countries, where it has been used; for it has generally two inflexions or bendings, between which, in the place where the arrow is drawn, is a right line. The grecian bow was in the shape of a Z, of which form we meet with many, and generally adorned with gold or silver. The scythian bow was distin­guished from the bows of Greece and other nations, by its incurvature, which was so great, as to form an half moon or semicircle. The matter of which bows were made, as well as their size, differed in different countries. The Persians had very great bows made of reeds; and the Indians had also, not only ar­rows, but bows made of the reeds or canes of that country; the lycean bows were made of the cornel tree; and those of the Ethiopians, which surpassed all others in magnitude, were made of the palm-tree.

Though
Bow

Though it does not appear, that the Romans made use of bows in the infancy of their republic, yet they afterwards admitted them as offensive weapons, and employed auxiliary archers in all their wars.

In drawing the bow, the primitive Greeks did not pull back their hand towards their right ear, according to the fashion of modern ages, and of the ancient Persians, but placing their bow directly before them, returned their hand upon their right breast. This was also the custom of the Amazons.

The bow is a weapon of offence amongst the inhabitants of Asia, Africa, and America at this day; and in Europe, before the invention of fire arms, a part of the infantry were armed with bows. Lewis XI. first abolished the use of them in France, introducing, in their place, the halbard, pike, and broad sword.

The long bow was formerly in great vogue in England, and many laws were made to encourage the use of it. The parliament under Henry VII. complained of the difufe of long bows, heretofore the safeguard and defence of this kingdom, and the dread and terror of its enemies.

Bow is also an instrument formerly used at sea for taking the sun's altitude; consisting of a large arch of ninety degrees graduated, a franks or staff, a shade vane, a fight vane, and an horizon vane. It is now out of use.

Bow, among builders, a beam of wood or brafs, with three long screws, that direct a lath of wood or fheel to any arch; chiefly used in drawing draughts of ships, and projections of the sphere; or wherever it is requisite to draw large arches.

Bow, in music, a small machine, which, being drawn over the strings of a musical instrument, makes it resound. It is composed of a small flick, to which are fastened eighty or an hundred horse hairs, and a screw which serves to give these hairs the proper tension. In order that the bow may touch the strings briskly, it is usual to rub the hairs with rosin.

Bow, among artificers, an instrument so called from its figure; in use among gunsmiths, locksmiths, watchmakers, &c. for making a drill go. Among turners, it is the name of that pole fixed to the ceiling, to which they fasten the cord that whirls round the piece to be turned.

Bow-staves, imported from the British plantations, are free; if from Ireland,

Bow, or Africa, they pay 15s. 4½d. for every 120; and if from any other country, 1l. 2s. 10½d. for the same number.

Bows of a faddle are two pieces of wood laid archwise to receive the upper part of a horse's back, to give the saddle its due form, and to keep it tight.

The fore bow, which sustains the pommel, is composed of the withers, the breasts, the points or toes, and the corking. See the article Withers, &c.

The hind bow bears the troussequin or quilted roll. The bows are covered with finews, that is with bulls pizzles beaten, and so run all over the bows to make them stronger. Then they are strengthened with bands of iron to keep them tight, and, on the lower side, are nailed on the saddle fraps, with which they make fast the girths.

Bow of a ship, that part which begins at the loofe, and compaings ends of the stern, and ends at the sternmost part of the forecastle.

If a ship have a broad round bow, they call it a bold bow. If the has a narrow thin bow, they say she has a lean bow.

Bow-line. See the article BOWLING.

Bow-pieces are the pieces of ordinance at the bow of a ship.

Rain-Bow. See RAIN-BOW.

Bow-bearer, an inferior officer of the forest, who is sworn to make inquisition of all trespasses against vert or venison, and to attack offenders.

Bowe, a market-town of Devonshire, about twelve miles north west of Exeter, well long: 4° 7', and north lat: 50° 45'.

Bowels, in anatomy, the same with intestines. See INTESTINES.

Bower, in gardening, a place under a building, a market-town, or market-garden, placed in the outskirts of a town, or city, usually at the very brink of a wood, or at the end of a street, where the produce is sold. See garden.

Bower, in the fea-language, the name of an anchor carried at the bow of a ship. There are generally two bowers, called first and second, great and little, or best and small bowers. See Anchor.

Lady's-Bower, or Virgin's-Bower, in botany, the English name of the Clematis. See the article CLEMATIS.

Bowess, or Bowet, in falconry, a young hawk, when he draws any thing out of her nest, and covets to clamber on the boughs.
BOW

BOWGE, or BOUCHE of court. See the article BOUCHE.

BOWL denotes either a ball of wood, for the use of bowling; or a vessel of capacity, wherein to hold liquors.

Bowls and buckets of wood, imported, pay a duty of 9½ d. the dozen; whereas 8 d. is repaid on exporting them.

BOWLER-STONES, small stones, of a roundish figure, and no determinate size, found on the sea shore and banks, or rather channels of rivers.

BOWLING, the art of playing at bowls.

The first thing to be observed in bowling is, the right choosing your bowl, which must be fuitable to the ground you design to run on. Thus, for close alleys, the flat bowl is the best; for open grounds of advantage, the round byass'd bowl; and for plain and level forwards, the bowl that is as round as a ball. The next is to choose your ground; and lastly to distinguish the flatness, fallings, and advantages of the places where your bowl.

BOWLING, or BOW-LINE, in a ship, a rope made fast to the leech or middle part of the outside of the sail: it is fastened by two, three or four ropes, like a crow's foot, to as many parts of the sail; only the mizen bowline is fastened to the lower end of the yard. This rope belongs to all sails, except the spirt-sail and sprit-top-sail. The use of the bowline is to make the falls stand sharp or close, or by a wind. Sharp the bowline, is hale it taught, or pull it hard. Hale up the bowline, that is pull it harder forward on. Check or exile, or run up the bowline, that is let it be more fack.

BOWLING-BRIDLES are the ropes by which the bowline is fastened to the leech of the sail.

BOWLING-KNOT, a knot that will not flip, by which the bowline-bridle is fastened to the cringles.

BOWLING-GREEN, a kind of parterre, laid with fine turf, designed for the exercise of bowling. See BOWLING.

BOW-NET, among sportsmen. See NET.

BOW-SAW, among artificers. See SAW.

BOWSE, in the fast-language, signifies as much as to hale or pull. Thus, bowling upon a tack, is haling upon a tack. Bowse away, that is pull away all together.

BOW-SPRIT, or BOLT-SPRIT, a kind of mast, refining slopewie on the head of the main stem, and having its lower end fastened to the partners of the fore-mast.

Vol. I.

and farther supported by the fore-stay. It carries the sprit-fail, sprit-top-fail, and jak-staff; and its length is usually the same with that of the fore-mast.

BOW-SPRIT-LADDER. See LADDER.

BOWYERS, artificers, whose employment or occupation it is, to make bows. There is a company of bowyers in the city of London, first incorporated in 1623.

BOX, in its most common acceptation, denotes a small chest or cofier for holding things.

Fire-boxes or tinder-boxes pay, on importation, a duty of 3s. 10½ d. the gros; whereas 3s. 4½ d. is repaid on exportation. Wooden money-boxes pay 3s. 7½ d. the gros; whereas 3s. 2½ d. is repaid on exportation. Neft-boxes pay 1s. 6½ d. the gros; whereas 1s. 1½ d. is repaid. Pepper-boxes pay 4s. 3½ d. whereas 3s. 9½ d. is repaid. French-boxes, for marmallade or jelly, pay each dozen 3s. 10½ d. whereas 1s. 9½ d. is repaid. Sand-boxes pay 3s. 10½ d. the gros; whereas 3s. 4½ d. is repaid. Snuff-boxes, if of wood, pay 2s. 4½ d. the dozen; whereas 2s. 1½ d. is repaid; if ofhorn, they pay 4s. 9½ d. the dozen; 4s. 1½ d. being drawn back: if of ivory or tortoiseshell, they pay 9s. 6½ d. the dozen; whereas 8s. 7½ d. is drawn back. Soap-boxes pay 7s. 8½ d. the dozen, containing sixty boxes. Spice-boxes pay 1s. 1½ d. the dozen. Tobacco-boxes pay 5s. 9½ d. the gros. Touch-boxes, covered with leather, pay only 6½ d. the dozen; but if the leather be the most valuable part, they pay 6s. 11½ d. for every 20s. value upon oath: if covered with velvet, they pay 2s. 10¼ d. the dozen: and if of iron, or other metal gilt, they pay 3s. 10½ d. the dozen. In all which cases, a proportionable draw-back is allowed.

BOX is also used for an uncertain quantity or measure: thus a box of quick-silver contains from one to two hundred weight; a box of prunelles, only fourteen pounds; a box of rings for keys, two gros, &c.

Box of a plough, the crofs piece in the head of a plough, which supports the two crow-flaves. See PLough.

Box, in zoology, the same with botom. See the article BOOPS.

BOX, or BOX-TREE, in botany, the English name of the buxus. See BUXUS.
The turner, engraver, carver, mathematical instrument, comb, and pipe-makers, give a great price for this wood by weight, as well as by measure. It makes wheels or rollers, pins for blocks and pulleys, pegs for musical instruments, nut-crackers, weaver's shuttles, collar-flicks, bump-flicks and dreslers for shoemakers, rollers, rolling-pins, petites, mall-balls, beetles, tops, tallies, chef-men, screws, bobbins, cups, spoons, and the strongest of all axle-trees.

BOXBERG, a town of Germany in Franconia, belonging to the elector palatine.

BOXTEL, a town of Dutch Brabant, situated on the river Bommel, about eight miles south of Boisleduc, in east longitude 5° 16', and north latitude 51° 30'.

BOXTHUDE, a town of the duchy of Bremen, in Germany, about fifteen miles west of Hamburg, and subject to the elector of Hanover: east longitude 9° 16', and north latitude 53° 50'.

BOXUS, in botany, a name sometimes given to the mistletoe.

BOYAR, a term used for a grandee of Russia and Transylvania. Beeman says, that the boyars are the upper nobility; and adds, that the czar of Muscovy, in his diplomas, names the boyars before the waywodes. See the article WAYWODE.

BOYAU, in fortification, a ditch covered with a parapet, which serves as a communication between two trenches. It runs parallel to the works of the body of the place, and serves as a line of contravallation, not only to hinder the fallies of the besieged, but also to secure the miners. But when it is a particular cut that runs from the trenches to cover some spot of ground, it is drawn so as not to be enfiladed, or scourfed by the shot from the town.

BOYER, a small vessel of burden, resembling a smack, with only one mast and a bolt-sprit.

BOYES, idolatrous priests among the savages of Florida. Every priest attends a particular idol, and the natives address themselves to the priest of that idol, to which they intend to pay their devotion. The idol is invoked in hymns, and his usual offering is the smoke of tobacco.

BOYLE'S LECTURES, a course of sermons set on foot, in London, by the honourable Robert Boyle in 1691; the design of which is to prove the truth of the Christian religion against infidels, without descending to any controversies among Christians.

BOYNE, a river of Ireland, which taking its rise in Queen's county, in the province of Leinster, runs north-east by Trim and Cavan, and falls into the Irish channel, a little below Drogheda.

BOYUNA, an American serpent, all over black. See SERPENT.

BOZOLO, a town of the duchy of Mantua, about twelve miles south-west of that city: east longitude 11°, and north latitude 44° 40'.

BOZOL, in botany, a genus of the family of the laurel. The flower of which consists of four linear obtuse petals in the lower part erect, and forming a kind of tube; in the upper turned backward. The fruit is a drupe of the drier kind, of an oval figure and hairy; the kernel is oval.

BRABANTE, a large province of the Netherlands, lying eastward of Flanders; the greater part of it is subject to the house of Austria, the capital Brussels; and the rest to the Dutch, their capital Breda.

BRACCIANO, a town of St. Peter's province of Lazio, in the province of Bracciano, about fifteen miles from the city of Rome, was taken by Edward I. of England, in the year 1270, and restored to the Romans at the expiration of the treaty, in the year 1271.
veral beasts of game, as a brace of bucks, foxes, hares, &c.

BRACE, or BRASSE, is also a foreign measure, answering to our fathom. See FATHOM.

BRACE, in architecture, a piece of timber framed in with bevil joints, the ule of which is to keep the building from fivering either way. When the brace is framed into the kingeffes or principal rafters, it is by fome called a flrut.

BRACES, in the sea-language, are ropes belonging to all the yards of a ship, except the mizen, two to each yard, reeved through blocks that are fastened to pennants, feized to the yard-arms. Their ule is either to fquare, or traverse the yards. Hence to brace the yard, is to bring it to either fide. All braces come aftward on, as the main-brace comes to the poop, the main-top-fail brace comes through blocks that are aftward on, as the main-brace bring it to either fide.

BRACES, in ornament, a term fometimes given by Dr. Hill, to a genus of animalcules, called, in English, wheel-animals. See WHEEL-ANIMALS.

BRACHIALIS, in anatomy, one of the superior extremities of the human body, comprehending the scapula, the os humeri, the cubit, and the hand. See the articles SCAPULA, ARM, &c.

Coraco-brachialis. See the article CORACO-BRACHIALIS.

BRACHIALIS, in a general fenfe, denotes something belonging to the arm. See ARM.

BRACHIAL-NERVE. See NERVE.

BRACHIALIS is particularly ufed for a thick and broad muscle of the arm, lying between the shoulder-bone and the elbow; its fore-part being covered all the way by the two fleshy bodies of the biceps. See the article BICEPS.

Brachvæus internus arises juft below the end of the deltoides, and is infiltrated in the tubercle of the uima, a little below its upper head.

BRACHIAL, in a general fenfe, denotes something belonging to the arm. See ARM.

BRACHIAL-NERVE. See NERVE.

BRACHIALIS is particularly ufed for a thick and broad muscle of the arm, lying between the shoulder-bone and the elbow; its fore-part being covered all the way by the two fleshy bodies of the biceps. See the article BICEPS.

Coraco-brachialis. See the article CORACO-BRACHIALIS.

BRACHIONUS, in zoology, the name given by Mr. Hill, to a genus of animalcules, called, in English, wheel-animals. See WHEEL-ANIMALS.

The modern brachmans lived upon herbs and pulses, and abstained from every thing that had life in it. They lived in solitude without matrimony, and without property; and they wished ardently for death, regarding life only as a burden. The modern brachmans make up one of the cafs or tribes of the banians. They are the prifets of that people, and perform their office of praying and reading the law, with feveral mimical geometres, and a kind of quavering voice. They believe, that, in the beginning, nothing but God and the water existed, and that the supreme being, defirous to create the world, caufed the leaf of a tree, in the shape of a child playing with its great toe in its mouth, to float on the water, from its navel there iffued out a flower, whence
whence Brama drew his original, who was intrusted by God with the creation of the world, and presides over it with an absolute sway. They make no distinction between the souls of men and brutes, but lay the dignity of the human soul consits in being placed in a better body, and having more room to display its faculties. They allow of rewards and punishments after this life; and have so great a veneration for cows, that they look on themselves as blest, if they can but die with the tail of one in their hand. They have preserved some noble fragments of the knowledge of the antient brachmans. They are skilful mathematicians, and calculate, with great exactness, eclipses of the sun and moon. They are remarkable for their religious auffles. One of them has been known to make a vow, to wear about his neck a heavy collar of iron for a considerable time: another to chain himself by the foot to a tree, with a firm resolution to die in that place: and another to walk in wooden shoes stuck full of nails on the infinite. Their divine worship consists chiefly of processions, made in honour of their deities. They have a college at Banara, a city, seated on the Ganges.

BRACHURUS, the name of a genus of animalcules, with tails shorter than their boodies, and no visible limbs.

BRACHYGRAPHY, the art of shorthand-writing. See TACHYGRAPHY.

In England we have various methods of shorthand, and those earlier, speedier, and more commodious, than are known in any other part of the world, witness Webster's, Wetton's, Mac Aulay's, and several other hand-books.

BRACHYPIERA, a term used by Wilmshby, to denote those hawks which have their wings so short, as not to reach to the end of the tail: of this kind are the gosh-hawk, sparrow-hawk, &c.

BRACHYTYREIA, in the history of foills, a genus of septraria, with a short roundish nucleus. See SEPTARIAE.

BRACHYTÉLOSTYLA, in natural history, the name by which Dr. Hill calls those crystals, which are composed of a short hexagonal column, terminated at each end by an hexangular pyramid. See the article CRYSTAL.

BRACKET, among carpenters, &c. a kind of wooden flay, serving to support shelves, and the like.

BRACKETS, in a ship, the small knees, serving to support the galleries, and commonly carved. Also the timbers that support the gratings in the head, are called brackets.

BRACKETS, in gunnery, are the cheeks of the carriage of a mortar: they are made of strong planks of wood, of almost a semicircular figure, and bound round with thick iron plates; they are fixed to the beds by four bolts, which are called bed-bolts; they rise up on each side of the mortar, and serve to keep her at any elevation, by means of some strong iron bolts, called bracket-bolts, which go through these cheeks or brackets.

BRACKLAW, the capital of the palatinate of Bracklaw, in Podolia, in Poland, situated on the river Bog, an hundred and ten miles east of Kaminec: east long. 29° 20', and north lat. 48°.

BRACKLEY, a borough town of Northamptonshire, about fifteen miles south-west of Northampton: west longitude 1° 15', and north latitude 52°. It lends two members to parliament.

BRAC'TEA, in natural history, denotes a spangle, or thin flake of any substance. BRAC'TEA, in botany, denotes the floral leaf. See the article FLORAL LEAF.

BRAC'TEARIA, in natural history, a genus of talcs, composed of small plates in form of spangles, each plate being either very thin, or fiiille into very thin ones.

Of this genus there are a great many species, called, from their different colours, mica aurea, or gold-glimmer; and mica argentea, silver-glimmer, or cat's-silver, &c.

BRAD, in geography, a town of Scalyvia, situated on the north side of the river Sava, eighteen miles south of Pofega: east long. 18° 44', and north lat. 45° 20'.

BRADFIELD, a market-town in Essex, fourteen miles north of Chelmsford: east long. 53° 4", and north latitude 51° 54'.

BRADFORD, a market-town in Wiltshire, about nine miles west of the Dee: east longitude 4° 40', and north latitude 41° 20'.

BRADFORD, a market-town of Yorkshire, thirty miles south-west of York: west long. 1° 35', and north lat. 53° 40'.

BRADNICH, a market-town of Devonshire, ten miles north of Exeter: west long. 3° 35' and north lat. 50° 45'.

BRADS, among artificers, a kind of nails used in building, which have no spreading
ing heads, as other nails have. They are distinguished, by ironmongers, by six names, as joiner’s-brads, flooring-brads, batten-brads, bill-brads, or quarter-heads, &c. Joiner’s-brads are for hard wainscot, batten-brads for soft wainscot; bill-brads are used when a floor is laid in haste, or for shallow joints subject to warp. See the article NAIL.

BRADYPUS, in zoology, a genus of quadrupeds, of the order of the anthro-pomorpha of Linnæus, otherwise called igneus, and in English the float; the characters of which are, that its feet have no great toe, and are made for climbing; See the article ANTHROPOMORPHA.

Of this genus there are two species. 1. The American float, with a short tail, and only three toes on each foot. 2. The ceylon float, with only two toes on each foot, and no tail.

BRAG, an ingenious and pleasant game at cards, wherein as many may partake as the cards will supply; the eldest hand dealing three to each person at one time, and turning up the last card all round. This done, each gamester puts down three flakes, one for each card. The first flake is won by the best card turned up in the dealing round; beginning from the ace, king, queen, knave, and so downwards. When cards of the same value are turned up to two or more of the gamesters, the eldest hand gains; but it is to be observed, that the ace of diamonds wins, to whatever hand it be turned up.

The second flake is won by what is called the brag, which consists in one of the gamesters challenging the rest to produce cards equal to his; now it is to be observed, that a pair of aces is the best brag, a pair of kings the next, and so on; and a pair of any fort wins the flake from the most valuable single card. In this part consists the great diversion of the game; for, by the artful management of the looks, gestures, and voice, it frequently happens, that a pair of fives, treys, or even duces, out-brags a much higher pair, and even some pairs royal, to the no small merriment of the company. The knack of clubs is here a principal favourite, making a pair with any other card in hand, and with any other two cards a pair royal.

The third flake is won by the person, who first makes up the cards in his hand one and thirty; each dignified card going for ten, and drawing from the pack, as usual in this game.

BRAGA, the capital of the province of Entre-minho-duro, in Portugal, situated on the river Cavado, thirty-two miles north of Porto; west longitude 8° 40’, and north latitude 42° 30’.

BRAGANZA, a city of the province of Tralosmontes, in Portugal, situated on the river Sabor, in 7° west longitude, and 41° 56’ north latitude.

BRAGET, a kind of drink made of malt, honey, and spices, much used in Wales.

BRAIL, or BRAILS, in a ship, are small ropes made ufe of to furl the fails across; they belong only to the two courses and the mizen-sail; they are reeved through the blocks, seiz’d on each side the ties, and come down before the fail, being at the very skirt thereof fastened to the cringles; their ufe is, when the fail is furled across, to hale up its bunt, that it may the more easily be taken up or let fall. Hail up the brails, or brail up the fail, that is, hale up the fail, in order to be furled or bound close to the yard.

BRAILOW, a town of Podolia, in Poland, situated on the river Bog, forty miles north of Bracklow; east longitude 29°, and north latitude 48° 50’.

BRAIN, in anatomy, that soft white mass inclosed in the cranium or skull, in which all the organs of sense terminate, and the soul is supposed principally to reside.

The brain is surrounded by three membranes, called menynge and mater; these are the dura mater, the arachnoid, and the pia mater. See DURA MATER, &c.

The general mass is divided into three parts or portions, the cerebrum, or brain properly so called, the cerebellum, and the medulla oblongata; to these three parts, contained within the cranium, some add a fourth, viz. the medulla spinälis, which is a continuation of the medulla oblongata. See CEREBELLUM, &c.

The cerebrum, or brain properly so called, is a mass of a moderate consistence, and of a greyish colour on the outer surface; the upper part is of an oval figure; it is flatter on the lower part, each lateral half of which is divided into three eminences, called lobes; one anterior, one middle, and one posterior. It is divided into two hemispheres, by means of the processus falciiformis of the dura mater, and these again are divided into the anterior and poste-
posterior lobes, between which there is a large inferior protuberance that goes by the same name; so that, in each hemisphere, there are three lobes; one anterior, one middle, and one posterior. Each lateral portion of the cerebrum has three sides; one superior, which is convex; one inferior, which is uneven; and one lateral, which is flat, and turned towards the falx: through the whole surface of these three sides, we see inequalities or windings, like the circumvolutions of the intestines, formed by waving streaks or furrows, very deep and narrow, into which the septa of the pia mater infiltrate themselves.

The human brain is, in general, so large as to weigh about four pounds. It is three times as much, in quantity, as the brain of an ox. Its substance, on cutting a part of it, is found to be of two kinds; the exterior, or cortical part; and the interior, or medullary part. The cortical part of the brain is about a sixth of an inch in thickness; the structure of the interior part is fibrous, and tubular. This last has its origin from the extremely small arteries of the exterior or cortical part: and its termination is the beginning of the nerves: it is somewhat harder than the cortical part.

In taking the brain carefully out of the skull, there are distinguished, in the lower part of the medulla oblongata, the nerves of the brain, which are commonly said to be ten pair, though, in reality, only nine: they are, for the sake of memory, reduced into the form of two Latin verbs: Oblaciens, cernens, oculosque movens; patiensque, Gyllans, abducens, audientisque, vagansque, loquensque.

Remarkable parts of the Brain. The most remarkable parts of the brain are, 1. The corpus callosum, which appears between the two hemispheres of the cerebrum. 2. The ventricles of the brain, in the examination of which we are to observe the septum lucidum, the fornix, the plexus choroides, the corpora striata, and the thalami nervorum opticorum. 3. The nates and teftes; and under these the valvula magna cerebri and the aqueduct of Sylvius. For the description of each of which, see the article Corpus callosum, &c.

Veices of the Brain. These are, besides the arteries, veins, and inuentient membranes, the pituitary gland, the rete mirabile, &c. See Pituitary and Rete.
five. In the depth, they should not be above three or four inches; but as for the length, they may be enlarged at pleasure; the shortest being eighteen feet long.

Bramble, or Brambling, in ornithology, the English name of a bird, called by authors montifringilla. See the article Montifringilla.

Bramins, the name of the ancient priests among the idolatrous Indians; the successors of the antient Brachmans. See the article Brachmans.

Bramapore, a town of the hither peninsula of India: east longitude 77°, and north latitude 21° 30'.

Brampton, a market-town of Cumberland, about six miles north-east of Carlisle: west longitude 2° 40', and north latitude 54° 50'.

Bramyard, a market-town of Herefordshire, about twelve miles north-east of Hereford: west longitude 2° 30', and north latitude 52° 20'.

Bran, the skins or husks of corn, specially wheat ground, separated from the flour by a néeve or boulter. It is of wheat-bran that starch-makers make their starch. The dyers reckon bran among the not-colouring drugs, and use it for making, what they call, the four waters, with which they prepare their several dyes. Bran, being of a porous spongy substance, is used, in pharmacy, as a suppurative and digestive medicine. In the composition of a cataplasm, the warmth of the part it is applied to, so rarefies the bran, that, being kept from the external air, all, that can tranpire, will be sucked up into its interstices. However, it should be applied, where there is good probability of the matter's tranpiring; otherwise it will draw more to the part, and thereby increase the malady.

Branch, in botany, an arm of a tree, or a part, which, sprouting out from the trunk, helps to form the head or crown thereof.

As branches have their outward parts common with the chief stem, so, in like manner, do their inward confift of a multitude of tubes, which are also provided with a number of small glands, veins, and muscles interperfed here and there, where the sap, coming from the first canal, is rendered much more delicate. Branches are distinguished into various kinds: 1. Wood-branches, which are those that form the shape of the tree, and are to be pruned from four to twelve inches, according to the vigour of the tree. 2. Fruit-branches, which are slenderer than the wood-branches, and have their eyes near to one another and large, by which the fruit-buds are formed. If they are too long, they are to be topped; but if they are of a just length, they are to be preferred, only just cutting off the extremity. 3. Branch-half-wood, that which, being too slender for a wood-branch, and too big for a fruit-branch, is cut off at the length of two or three inches, to make it produce a better shoot, whether wood or fruit. 4. Irregular branches, which are small and confused. They must be cut off, because they are neither fit for wood nor fruit. 5. Branches of false wood. These are such as grow upon the true wood-branches, and have flat eyes at a distance one from another; for which reason they are useless, and therefore must be cut off. 6. Luxuriant branches, which are such as shoot out from the large wood-branches. These are as taper and as big about as one's finger, the back being smooth and even, and having broad eyes at a distance from one another. These must all be cut off. 7. Spurious wood-branches, such as come contrary to the order of nature; or otherwise than from the cuts of the preceding year, or which, coming on such cuts, are big in the place where they should be small.

The distinguishing marks of good branches are, that the eyes, in the whole extent, be thick, well fed, and very close one to another. The good strong branches are employed in producing yearly, on their extremities, other new branches, some strong and others weak. The good weak branches are, such as are well placed, and, being of a mean thickness and length, may be able to produce, speedily, beautiful and good fruit.

The distinguishing marks of bad branches are, when, in the lower part, the eyes are flat, ill fed, and hardly formed, and at a large distance one from another.

Branch is likewise a term used in genealogy and anatomy. Thus we say, the branch of a family, the branch of an artery, the branch of a vein.

Branches of a bridle, in the manage, are two pieces of iron bound, which, in the interval, between the one and the other, bear the bit-mouth, the crois-chains, and the curb; so that on one end they answer to the head-flail, and on the other to the reins, in order to keep the horse's
hore's head in subjection. With regard to their form and structure, branches are either fruit, in form of a pistol, for young horses to form their mouth; or, after the constable of France's fashion, proper for a horse that carries his head well. Some are in form of a gigot or leg, which will prevent horses from carrying too low; some in form of a bent knee, contrived for horses that arm themselves against the operation of the bit; and others after the French fashion, which is hardly about ¼ of an inch at the evil hole, and kneeed ½ inch at the jarret or ham. It is to be observed, 1. That the farther the branch is from an horse's neck, the more effect it will have. 2. That short branches ceteris paribus are ruder, and their effects more sudden, than those of longer. 3. That the branch is to be proportioned to the length of a horse's neck; and one may sooner err in choosing one too short than too long.

**Branches of gillies, in architecture, are the arches of gothic vaults. These arches traversing from one angle to another diagonal wise, form a cross between the other arches, which make the sides of the square, of which the arches are diagonals.**

**Branch of a trench.** See Boyau.

**Branch of a mine.** See Gallery.

**Branch-stand, with falconers, a term used to signify the making a hawk leap from tree to tree, till the dog springs the game.**

**Brancher, among sportsmen, a young hawk, newly taken out of the neft, that can hop from bough to bough.**

**Branchery, in the anatomy of plants, denotes the ramifications of the luciferous vessels dispersed through the parenchyma, or pulpary part of fruits. The main branches are usually twenty in number; one half, or fifteen, being distributed over the parenchyma, and the rest, running from the stalk in a straight line, meet the former at the cork or shoot of the flower: to these last the coats of the kernels are fastened.**

**Branchies, gills, in the anatomy of fishes, the parts corresponding to the lungs of land-animals, by which fishes take in and throw out again a certain quantity of water, impregnated with air. All fishes, except the cetaceous ones and the petromyzum, are furnished with these organs of respiration; which are always eight in number, four on each side the throat. That next the heart is always the left, the rest increasing in order as they stand near the head of the fish. Each of these gills is composed of a bony lamina, in form of a semicircle, for the most part; and on its convex side stand the leaves or lamellae, like fo many sickles. The whole convex part of the lamellae is beset with hairs, which are longest near the base, and decrease gradually as they approach towards the point. There are also hairs on the concave side of the lamellae, but shorter than the others, and continued only to its middle. The convex side of one lamina, is fitted into the concave side of the next superior one; and all of them are connected together by means of a membrane, which reaches from their base half way their height, where it grows thicker, and in some measure resembles a rope. The rest of the lamina is free, and terminates in a very fine and flexible point. As to the use of these gills, they seem to be designed to receive the blood protruded from the heart into the aorta, and convey it into the extremities of the lamellae; from whence being returned by veins, it is distributed over the body of the fish.**

**Branchiarum foramina, apertures of the gills. In most fishes there is only one aperture; in the cartilaginous ones, these apertures are ten in number, five on each side; and in the petromyzon or lamprey, there are no less than fourteen of these apertures, seven on each side. As to the cetaceous fishes, they have no aperture of this kind; and the reason seems to be, because they are furnished with lungs.**

**Branchiae, in grecian antiquity, priests of the temple of Apollo, which was at Didymus in Ionia, a province of Jeffer Asia, towards the Egean sea, upon the frontiers of Caria. They opened to Xerxes the temple of Apollo, the riches whereof he took away. After which, thinking it unsafe to stay in Greece, they fled to Sogdiana, on the other side of the Caflian sea, upon the frontiers of Persia, where they built a city, called by their own name: but they did not escape the punishment of their crime: for Alexander the great having conquered Darius, king of Persia, and being informed of their treachery, put them all to the sword, and razed their city, thus punishing the impiety of the fathers in their posterity.**
BRANCHIOSTEGI, in ichthyology, one of the five general orders of fishes, whereof the rays of the fins are indeed bony, like those of the malacopterygi and acanthopterygi; from which, however, they are distinguished by having no bones, or oscula, in the branchiae or gills. Of this order there are only four genera, viz. the balistes, astracion, cyclopterus, and lophius. See Balistes, &c.

BRANCHON, a town of the austrian Netherlands, about eight miles north of Namur: east long. 49° 50', and north lat. 50° 32'.

BRANCHUS, spergo, a defluxion of humours upon the fauces, being a species of catarrh. See Catarrh.

BRAND-HERRING, a kind of herring caught by the Dutch. It pays no duty of importation in Holland: and for exportation, it pays two livres and ten livres per half of 12 tuns, according to the new book of rates made in Holland in the year 1724.

BRANDEIS, a town of Bohemia, situated on the river Elbe, ten miles north-east of Prague: east long. 14° 25', north lat. 50° 15'.

BRANDENBURG, a city of the marquisate of Brandenburg, in Germany, situated on the river Havel, twenty-six miles west of Berlin: east long. 15°, north lat. 52° 25'.

It was once the capital of Brandenburg; but is now on the decline, since Berlin supplanted it.

BRANDON, a market-town of Suffolk, ten miles north of Bury: east longitude 45°, north latitude 58° 30'.

It gives the title of duke to his grace the duke of Hamilton.

BRANDRITH, a trevet, or other iron-utensil, to fet a vesel on over the fire.

BRANDY, a spirituous and inflammable liquor, extracted from wine and other liquors, by distillation, which is most commonly performed by the balneum maris: but sometimes also by a small flaming fire. See Distillation.

The vessels used in this operation, are commonly of copper; some distillers, in order to cool the brandy, make the neck of the matrași, which is very long, and of a serpentine or winding figure, pass through a tun of cold water. In order to distil brandy, they fill the cucurbit half full with the liquor they would extract it from, which they put over a moderate fire, till about the sixth part of it be distilled, or till they perceive that what falls into the recipient, is no longer inflammable. Brandy distilled a second time, is called spirit of wine; and this spirit, purified again by one or by several distillations, is what they call spirit of wine rectified. The second distillation is made in the balneum maris, and in a glass cucurbit, till the brandy that was put into it be reduced into one half, and this half is again rectified, as often as the operator thinks proper. To try the goodness of the rectified spirit of wine, you must examine whether, when lighted into a blaze, it consumes entirely, without leaving any impurity behind: or rather, which is furer still, whether, having put some gunpowder at the bottom of the spirit you would try, the powder takes fire, when the spirit is consumed; in which case, the spirit is good. With regard to brandy (we speak only of that which is distilled from wine) they who trade in it, choose it white, clear, of a good taste, and such as will bear the test or proof; that is to say, that when poured into a glafs, it forms on the top of it a little white lather, which, as it diminishes, makes a circle; there being no brandy but that which is well deflagmated, and do not contain too much humidity, wherein this bead-proof, as it is called, will be entirely formed.

The chief use of brandy is as a drink, particularly in the northern countries; among the negroes of Guinea, who will fell one another for some bottles of brandy, and among the savages of Canada, who are extremely fond of it, but to whom the French are forbidden to give any, under very severe penalties: brandy is also used in medicine, to strengthen the nerves; and in dying, rectified spirits of wine being reckoned by the dyers among the non-colouring drugs.

Method of colouring Brandy. All brands, when first made, are as clear as water, and do grow higher coloured by long keeping; however, they are artfully made of any colour several ways. To make a light straw-colour, use turmeric, or a little treacle: but the best way is to give it a colour or tincture with a little burnt sugar, made to a consistence; or fyrum of elder-berris may be used, which gives an admirable colour, and may be made deeper or lighter, according to the quantity you put in.

Besides the brandy made of wine, there is some also made of beer, cyder, fyrrups, and a

A a

fugar,
sugar, molasses, fruit, grain, &c. however, these are not properly called brandy; but go under the general denomination of spirits, which see; see also the articles Rum, Rack, &c.

Winebrandy made in France, is esteemed the best in Europe. They make it wherever they make wine, and for that purpose, the wine that is pricked, rather than good wine. The chief brandies for foreign trade, and those accounted best, are the brandies of Bourdeaux, Rochelle, Cogniac, Charenton, the Isle of Rhône, Orleans, the country of Biasois, Poitou, Touraine, Anjou, Nantes, Burgundy, and Champagne.

BRANLIN, in ichthyology, a species of salmon, with several transverse black streaks, resembling the impression of so many fingers.

BRANSKA, a town of Transilvania, situated on the river Merith: east longitude 23° 15', north latitude 46°.

BRASEM, in ichthyology, a fish otherwise called acara-peba.

BRASIDIA, an anniversary solemnity at Sparta, in memory of Brasidas, a lacedaemonian captain, famous for his achievements at Methone, Pylos, and Amphipolis. It was celebrated with sacrifices and games, wherein none were permitted to contend, but free-born Spartans. Whoever neglected to be present at the solemnity, was fined.

BRASIL, or BRAZIL, a large maritime country of South America, lying between 35° and 60° west longitude, and between the equator and 35° south latitude.

It is bounded by the Atlantic ocean and the river Amazon on the north, by the same ocean on the east, by the river of Plate on the south, and by Paraguay on the west; being computed to be 2,500 miles in length, and 700 miles in breadth. The Portuguese have now the sole dominion of this extensive country, where besides sugar and tobacco, there are rich mines of gold and diamonds; from whence his Portuguese majesty draws a very considerable revenue.

BRASIL-WOOD, or BRAZIL-WOOD, an American wood of a red colour, and very heavy. It is denominated variously, according to the places from whence it is brought; thus we have brasil from Fernambuco, Japan, Lamon, &c.

The brasil-tree ordinarily grows in dry barren places, and even in the cliffs of rocks; it is very thick and large, usually crooked and knotty: its flowers, which are of a beautiful red, exhale a very agreeable smell, which strengthens the brain.

Though the tree be very thick, it is covered with so great a bark, that when thefavages have taken it off, the wood or trunk, which was before the thickness of a man, is scarce left equal to that of his leg.

This wood must be chosen in thick pieces, close, sound, without any bark on it, and such as, upon splitting of palm, becomes reddish, and, when chewed, has a pachararne taste. It is much used in turned work, and takes a good polish; but its chief use is in dying, where it serves for a red colour: it is a spurious colour, however, that it gives, and easily evaporates and fades; nor is the wood to be used without alum and tartar. From the brasil of Fernambuco, is drawn a kind of carmine, by means of acids: there is also a liquid lacca made of it, for miniature.

This tree has many distinctions among botanists: but it is agreed on by all to be a species of the fawders, and possessed of the same physical virtues; tho' it is seldom or ever preferred by physicians.

BRASLAW, the capital of a palatinate of the same name, in the province of Lithuania in Poland: east longitude 26°, north latitude 56° 20'.

BRASS, or as the French call it, yellow copper, is a fætitious metal, made of copper and lapis calaminaris.

The method of preparing it is as follows: the lapis, having been calcined and ground fine as flour, is mixed with fine charcoal, and incorporated, by means of water, into a mass: this being done, about seven pounds of lapis calaminaris is put into a melting pot, that will contain about a gallon, and over that about five pounds of copper; this pot is let down into a wind-furnace, where it remains for eleven hours, in which time it is converted into brafs. The metal then is cast, either into plates or lumps; forty-five pounds of crude lapis calaminaris, will produce thirty pounds when calcined or burnt. Sometimes brafs-shruff is used instead of copper; but that is not always to be procured in quantities sufficient, it being no other than a collection of old brafs.

Pure brafs is not malleable, unless when it is hot; for when it is cold it will break; and after it has been melted twice, it will be no longer in a condit-
BRA [ 363 ]

tion to bear the hammer at all; but in order to render it capable of being wrought, they put seven pounds of lead to an hundred weight of brass, which renders it more soft and pliable.

Brass, manufactured into any kind of utensils, pays duty on importation 3s. 3d. the pound; whereof 3s. 6d. is repaid on exportation of the same goods.

The best proportion for brass guns, is said to be a thousand pounds of copper, nine hundred pounds of tin, and six hundred pounds of brass, in eleven or twelve thousand weight of metal. The best brass guns are made of malleable metal, not of pure copper and calamine alone; but worrier metals are used to make it run clover and founder, as lead, and pot-metal. See Cannon.

Corinthian Brass has been famous in antiquity, and is a mixture of gold, silver, and copper. L. Mummius having facked and burnt the city of Corinth, 148 years before Christ, it is said this metal was formed from the immense quantities of gold, silver and copper wherewith that city abounded, thus melted and run together by the violence of the confagrations.

Brass-colour, one prepared by the braziers and colourmen to imitate brass. There are two sorts of it, the red brass, or bronze, and the yellow or gilt brass: the latter is made only of copper-filings, the smallest and brightest that can be found; with the former they mix some red ochre, finely pulverized: they are both used with varnish.

Brassatella, or Brassidella, in botany, the same with adder's tongue.

Basse, in ichthyology, the English name of the lucioperca; or pale, spotted pearch, with two long teeth on each side. See the article Lucioperca.

Brassica, Cabbage, in botany, a genus of the tetradynamia-filifosa class of plants; the flower of which is crucif orm, consisting of four petals, almost of the same length with the cup. The fruit is a bivalve pod, containing globose seeds. See the article Cabbage.

Brassicavit, or Brachicavit, in the manege, is a horfe whose fore legs are naturally bended archwise: being so called by way of distinction from an arched horfe, whose legs are bowed by hard labour.

Brava, or Parejra-Brava. See the article Parejra-Brava.

Brails, Indian cloths with blue and white stripes. They are otherwise called turbants, because they serve to cover those ornaments of the head, particularly on the coast of Africa.

Braunau, or Braunau, a town of Bavaria in Germany, about twenty-five miles south-west of Passau.

Braunsburg, a town of Prussia, situated on the Baltic sea, about thirty miles south-west of Koningsburg: east long. 20°, north lat. 54° 15'.

Bravo, one of the Cape-verd islands: west long. 25°, north lat. 14°.

Brauronia, in grecian antiquity, a festival in honour of Diana, furnished brauronia, from its having been observed at Brauron, an Athenian borough.

This festival was celebrated once in five years, being managed by ten men, called ixionstos. The victim offered in sacrifice was a goat, and it was customary for certain men to sing one of Homer's Illinois. The most remarkable persons at this solemnity were young virgins, habituated in yellow gowns, consecrated to Diana. It was unbeneficial for any of them to be above ten, or under five years of age.

Brawn, the flesh of a boar fouced or pickled: for which end the boar should be old; because the older he is, the more hairy will the brawn be.

The method of preparing brawn, is as follows: the boar being killed, it is skinned over, without the legs, that are made brawn; the bones of which are to be taken out, and then the flesh sprinkled with salt, and laid in a tray, that the blood may drain off: then it is to be salted a little, and rolled up as hard as possible. The length of the collar of brawn, should be as much as one side of the boar will bear; so that when rolled up, it be nine or ten inches diameter. The collar being thus rolled up, is to be boiled in a copper, or large kettle, till it is so tender, that you can run a drawn through it: then set it by, till it is thoroughly cold, and put it into the following pickle. To every gallon of water, put a handful or two of salt, and as much wheaten bran: boil them together, then drain the bran as clear as you can from the liquor; and when the liquor is quite cold, put the brawn into it.

Bray, a town of Champaign in France, about sixteen miles north of Sens: east long. 5° 20' north lat. 43° 25'.

Bray is also the name of a port-town of the county of Wicklow, and province of Leinster, in Ireland: west long. 6° 16', north lat. 53° 12'.
BRAZ'ING, the folding or joining two pieces of iron together by means of thin plates of brass, melted between the pieces that are to be joined. If the work be very fine, as when two leaves of a broken fan are to be brazed together, they cover it with pulverized borax, melted with water, that it may incorporate with the brass-ware. See BRASS.

BRAZIL, or Brasíl. See BRASIL.

BRAZING is also the joining two pieces of iron together by heating hot, the one upon the other, which is used for large pieces by farriers, &c.

BRAZZA, a town and island on the coast of Dalmatia, in the gulf of Venice: east longitude 18°, north latitude 43°.

BREACH, in fortification, a gap made in any part of the works of a town by the cannon or mines of the besiegers, in order to make an attack upon the place. To make the attack more difficult, the besieged throw the breach with crow-feet, or stop it with chevaux de frize. A practicable breach, is that where the men may mount and make a lodgment, and ought to be fifteen or twenty fathoms wide. The besiegers make their way to it, by covering themselves with gabions, earth-bags, &c.

BREACH, in a legal sense, is where a person breaks through the condition of a bond or covenant, on an action upon which, the breach must be ascribed: and this ascription must not be general, but particular, as in an action of covenant for not repairing houses, it ought to be ascribed particularly what is the want of repairation; and in such certain manner, that the defendant may take an issue.

BREAD, panis, a mass of dough, kneaded and baked in an oven. See BAKING. Bread ought to be well kneaded and seasoned with a little salt otherwise it is accounted very unwholesome.

We find bread sometimes made of rye, oats, barley, or vetch-flower; but of all others, that prepared from wheat affords the most wholesome nourishment. In several parts of Asia, Africa, and America, they make bread of maize-flour; besides which, the Americans make bread of the cassava-root. See the article CASSAVA.

Some are of opinion, that corn growing in gravelly and light lands, makes better bread than that which grows in deep and low grounds.

As to the affize of bread, the lord mayors of cities and other corporations, or two justices of the peace, have power to settle it; and bakers trespassing against it, forfeit 5s. per ounce for every ounce wanting, and 2s. 6d. for less than an ounce.

French-Bread. To make good French bread, for every two quarts of flour, add six spoonfuls of ale-yceat; also milk and water, warmed; a bit of butter, and a little salt: make them pretty light, and letting them rise before the fire, bake them in a quick oven.

Some put the yolks of six eggs, and the whites of two to this quantity; but others think the bread better without them. Foreign bread, or biscuit, pays duty on importation is. 7½d. for every 112lb. whereof is. 5½d. is repaid on exporting it again.

BREAD-ROOM, in a ship, that defined to hold the bread, or biscuit. The boards of the bread-room should be well joined and caulked, and even lined with tin plates, or mats. It is also proper to warm it well with charcoal, for several days before the biscuit is put into it; since nothing is more injurious to the bread than moisture. See BISCUIT.

BREAD, in the scripture style, is taken for every sort of food: the ancient Hebrews had several ways of baking bread, as baking it under the ashes, between two fires made of cow-dung, and in an oven. The Jews had, besides their leavened and unleavened bread, their flour-bread, bread of affliction, &c. See the articles LEAVELED, &c.

BREADTH, in geometry, one of the three dimensions of bodies, which multiplied into their length, constitutes a surface. See the article SURFACE.

BREAK, in a general sense, signifies to divide a thing into several parts with violence.

In the art of war, to break ground, is to open the trenches before a place. See the article TRENCHES.

Among sportmen, to break a hare in trotting, is to make him light upon the hand
hand in trotting, in order to make him fit for a gallop. To break a horse for hunting, is to supple him, to make him take the habit of running.

BREAKING, in a mercantile style, denotes the not paying one's bills of exchange, accepted, or other promissory notes, when due; and abounding, to avoid the severity of one's creditors. In which sense, breaking is the same thing with becoming bankrupt. See BANKRUPT.

BREAKING BULK, in the sea-language, is the same with unlading part of the cargo.

BREAM, *brama*, in ichthyology. See the article *Brama*.

This fish is easily taken; for after two or three gentle turns, it falls on its side, and may be drawn to land with eafe.

The best time of angling for bream, is from St. James's day till Bartholomew-tide, as being then exceeding fat; and the most proper bait, is the largest red garden worms that can be got.

BREAST, *pectus*, in anatomy, denotes the fore-part of the thorax. See the article *Thorax*.

BREASTS, *mammæ*, two glandulous tumours, of a roundish oval figure, situated on the anterior, and a little towards the lateral parts of the thorax: these are most remarkable in women; and in order to their being an ornament, they should be of a moderate size, their skin should be white and soft, their substance firm, not flaccid or pendulous, and the nipple red; they should also stand at a considerable distance. In different persons, however, their size is very various and uncertain. In virgins, they are usually small: in women with child, or who give suck, they are larger, often very enormous. In very young, and very old persons, they are always small. The time of the breasts growing full, in women, is about the age of fourteen; and the most natural time of their decreasing, is about the fiftieth year. The nipple of the human breast is a tarduous, cylindrical body, of a red colour, placed on the middle of the breast, and surrounded with a circle: its substance is cavernous, almost like that of the human penis; and hence it is capable of erection.

The breasts, besides the common integuments of the body, *viz.* the epidermis, cutis, and fat, are composed of a glandulous substance, of a whitish colour, not unlike that of the udders in quadrupeds. This forms the inner or central part, to the midst of which the nipple answers; and is surrounded by a quantity of fat, which makes by much the greater part of the breast.

Among this glandulous substance are found, beside the blood-veins, a multitude of lactiferous ducts, or small tubes, which unite by frequent anastomoses: these tubes are larger in women who give suck, and are dilated into pouches in many places, forming a kind of cells, which hold the secreted milk, and communicate with the veins and arteries. All these parts are to be seen much more distinctly in breasts that are large and full of milk, than in others: in young women, indeed, they are scarce to be distinguished at all; as also in such as have little breasts, in such as are emaciated, and in those of very old people.

The arteries and veins of the breasts are called mammary ones. See MAMMARY. The nerves proceed from the dorsal ones or spinal marrow.

Uses of the Breast are, 1. To secrete the milk in their glandulous substance, from the arterial blood, and to collect it in their sinuses and tubuli lactiferi, to be discharged, at a proper time, by the nipple, for the nourishment of the infant. 2. To add to the peculiar beauty of the female. 3. To add a stimulus to venery on both sides, while they are handled and pressed. As to the use of the nipple, it is evident-ly for giving suck to the infant, who, without it, could scarce possibly get at it.

BREAST-PLATE, in antiquity, a piece of armour worn to defend the breast, originally believed to be made of hides, or hemp twisted into small cords, but afterwards made of brafs, iron, or other metals, which were sometimes so exquisitely hardened, as to be proof against the greatest force.

BREAST-PLough, in the manage, the strap of leather that runs from one side of the saddle to the other, over the horse's breast, in order to keep the saddle tight, and hinder it to slide backwards.

BREAST-WORK, the same with parapet. See the article PARAPET.

BREATH, the air inspired and expelled again in the action of respiration. See the article RESPIRATION.

BREATH, or WIND, in the manage, sometimes signifies the easy respiration of an horse, and sometimes it implies the eafe and rest or repose of a horse; as give your horse breath, that is, do not ride him down;
down; give that leaping horse a long breathing-time between the turns, or repetitions of his manage, &c.

BREATHING, the same with respiration. See the article Respiration.

Difficulty of Breathing, in medicine. See the article Asthma.

BRECHIN, a borough-town of the county of Angus in Scotland, about fifteen miles north-east of Dundee: west long. 4° 20', north lat. 56° 40'.

BRECON, or BRECKNOCK, a borough-town of Brecknockshire, in Wales: west longitude 3° 25', north latitude 52°.

It is a strong fortified town.

BREECHES, a kind of close garment or covering for the thighs, hips, &c. worn by the modern Europeans. The breeches are peculiar to the male sex, and answer, in some measure, to the femoralia of the Romans.

BREECH OF A GREAT GNU, or cannon, the end next the touch-hole.

BREECHINGS, in the sea language, the ropes with which the great guns are lashed, or fastened to the ship's side. They are thus called, because made to pass round the breech of the gun.

BREEDING, in a general sense, the producing, nourishing, and educating all manner of young animals.

BREEDING of HORSES. To raise a good and beautiful race of horses, 'tis requisite to choose for a stallion a fine barbarous horse, free from hereditary infirmities, such as weak eyes, bad feet, &c., and he should have three months before the time he is to cover, be fed with found oats, peas, or beans, or with coarse bread, and little hay, but a good deal of wheat straw, leading him out twice a day to water; and after he has drank, walking him up and down an hour, without making him sweat. He should be admitted to mares according to his strength; that is, let him have twelve or fifteen, or at most twenty. Mares go with foal eleven months, and as many days as they are years old: so a mare should be covered, that her foal may be brought forth at a time when there will be plenty of good grass. About the end of May, you should put your mares into an inclosure capable of feeding them the whole time the stallion is to be with them: all the mares are put together, as well the barren as others. Lead forth your stallion, after having taken off his hind shoes, then let him cover one twice in hand; after which turn him loose to the rest. In this inclosure there should be built a little lodge, into which the stallion may retire from the heat; and in the lodge, a manger, wherein you are to give him oats, beans, &c. and he must always be thus entertained while he is with the mares, which will be about six or seven weeks. You must take care that the stallion and the mares have the same food. Mares which are very gross, hold with much difficulty: but those that are indifferently fat and plump, conceive with greater ease. To bring a mare in season, and make her retain, let her eat, eight days before she is brought to the horse, about two quarts of hemp-feed in the morning, and as much at night. As to the age of the stallion, he should not cover before he is six, nor after he is fifteen. On the other hand, the mares should not be covered before they are three years old.

BREEDING of MILK. When a cow chances to have a calf, and is poor, or to calve before her time, and has not milk enough to keep her calf, she must have a good deal of mash of malt given her lukewarm; also every morning and evening a quart of ale made in a pot, whose curd take off, and put into it aniseed, cummin, lettuce, and coriander-seeds, all made into powder; mingle them with the poifet, and let them stand three hours together; then give it the cow for four days successively; and by often drawing of her paps, her milk will be sure to increase in a short time.

BREEZE, a shifting wind, that blows from sea or land for some certain hours in the day or night; common in Africa, and some parts of the East and West Indies. The sea-breeze is only sensible near the coasts; it commonly rises in the morning, about nine, proceeding slowly in a fine small black curl on the water, towards the shore; it increases gradually till twelve, and dies about five. Upon its ceasing, the land-breeze commences, which increases till twelve at night, and is succeeded in the morning by the sea-breeze again.

BREEZE, in brick-making, small ashes and cinders, sometimes made use of instead of coals, for the burning of bricks; but as this does not so well answer the end, the use of it is prohibited by 12 Geo. I. cap. xxxv.
BREEZE is also the name of an insect, called the gad-fly, or horse-fly. See the article FLY.

BREGENTS, or BERCENTS, a town situated at the east end of the lake of Constance, in the county of Tyrol, in Germany: east longitude 9° 43', and north latitude 47° 36'.

BREGMA, in anatomy, the same with SINNUT, the name of the bones of the cranium, called ofa parietalia.

BREIDEWICK, or cape on the south-west of Iceland, in the northern ocean.

BREMEN, the capital of the duchy of the same name, in lower Saxony, situated on the river Weser, in 8° 20' east long. and 51° 25' north latitude. This city and duchy belongs to the king of Great Britain, as elector of Hanover.

BREMERVHOIDE, a fortified town of the duchy of Bremen, about seventeen miles north of Bremen: east longitude 8° 35', and north lat. 53° 48'.

BREMGALEN, a town of Switzerland, in the county of Baden, about twelve miles west of Zurich: east longitude 8° 15', and north lat. 47° 26'.

BREMINGHAM, in geography. See the article BIRMINGHAM.

BRENBERG, in geography. See the article BERNBERG.

BRENT, in geography, a market-town of Devonshire, situated twenty-seven miles south-west of Exeter: west longit. 4° 7', and north lat. 50° 30'.

BRENT-GOOSE, a species of goose with a black neck and a white collar round; usually confounded with the barnacle, though in reality a distinct species. It is a little larger than the common duck, and is described by authors under the name of anas torquata.

BRENTA, a liquid measure used at Rome.

BRENTE, in geography, a river, which, taking its rise in the bishopric of Trent, in Germany, runs south-east through the Venetian territories, and falls into the Adriatic sea, opposite to Venice.

BRENTFORD, a market-town of Middlesex, about seven miles west of London: west lon. 7', and north lat. 51° 26'.

BRENTWOOD, or BURNTWOOD, a market-town of Essex, about fifteen miles east of London: east longit. 15', and north latitude 51° 35'.

BREPHOTROPHIUM, an hospital for the maintenance of children; not unlike our foundling-hospital. See the article HOSPITAL.

BRESCLA, a city of Italy, about thirty miles north of Cremona: east longitude 10° 35', and north lat. 45° 30'. It is a bishop's see, and subject to Venice.

BRESELLO, a town of the duchy of Modena, in Italy, situated on the southern shore of the river Po, about twenty-five miles north-west of Modena: east long. 11°, and north lat. 44° 46'.

BRESICATE, in commerce, a kind of bays, of which there is some trade carried on with the negroes, between the river Gambia and Sierra Leone. The best forts for that purpose are the blue and the red.

BRESLAW, the capital of Sielesia, situated upon the river Oder, in 16° 50' east long. and 51° 15' north lat.

BRESMA, in ichthyology, a name used by some for the bream. See BREAM.

BRESSE, a territory of Burgundy, in France: it is bounded by Franche Comte on the north, by Savoy on the east, by Dauphine on the south, and by the Lyonnais on the west.

BRESSICI, in geography. See the article BRESTE.

BRESSVIRE, a town of Poictou, in the Orléanais, in France, situated about thirty-five miles north-west of Poictiers: west lon. 30', and north lat. 46° 50'.

BREST, in geography, an excellent port-town of Britany, in France: west longit. 4° 50', and north latitude 48° 29'.

BREST, or BREAST, in architecture, a term sometimes used for the member of a column, more usually called torus. See the article TORUS.

BREST-SUMMERS, in timber buildings, pieces in the outward thereof, into which the girders are framed: this, in the ground-floor, is called a cell; and, in the garret-floor, a beam. As to their size, it is the same with that of girders. See the article GIRDER.

BRESTE, or BRESSICI, the capital of the principality of Breischi, and of Poleia, in Poland, situated on the river Bog, about eighty miles east of Warsaw: east long. 24°, and north lat. 52°.

BRETESSE, in heraldry, denotes a line embattled on both sides.

BRETON, or CAPE-BRETON, an American island, subject to the French, and separated from New-Scotland by a narrow strait, called Canfo: it is about one hundred miles in length, and fifty in breadth, and is situated between 61° and 62°.
The breviary of the Greeks is the breviary in all places: but on the model of this various others have been built, appropriated to each diocese, and each order of religious.

The breviary of Rome is general, and may be used in all places: but on the model of this various others have been built, appropriated to each diocese, and each order of religious.

The breviary of the Greeks is the same in almost all churches and monasteries that follow the greek rites: the Greeks divide the psalter into twenty parts. In general the greek breviary consists of two parts, the one containing the office for the evening, the other that of the morning, divided into matins, lauds, first, third, sixth, and ninth, vespers, and the compline: that is, of seven different hours.

on account of that saying of David, 

The institution of the breviary is not very antient: there have been inserted in it the lives of the saints, full of ridiculous and ill attested stories, which gave occasion to several reformationes of it, by several councils, particularly those of Trent and Cologny; by several popes, particularly Pius V. Clement VIII. and Urban VIII. also by several cardinals and bishops, each lopping off some extravagances, and bringing it nearer to the simplicity of the primitive offices.

Originally every body was obliged to recite the breviary every day; but by degrees the obligation was reduced to the clergy only, who are enjoined under penalty of mortal sin and ecclesiastical censures, to recite it at home, when they cannot attend in public. In the XIVth century there was a particular referee granted in favour of bishops, who were allowed, on extraordinary occasions, to pass three days without rehearsing the breviary.

This office was originally called curfus, and afterwards the breviarium; which latter name imports, that the old office was abridged, or rather, that this collection is a kind of abridgment of all the prayers.

The brevieries now in use are innumerable: the difference between them consists principally in the number and order of the psalms, hymns, pater nother's, ave Mary's, creeds, magnificat's, cantemus's, benedictus's, canticamus's, nunc dimit-tis's, miserere's, halleluja's, gloria patriis, &c.

Brevis, in music, a note or character of time, in the form of a diamond, or square, without any tail, and equivalent to two measures, or minim.

Brevis, or brevis, in grammar: syllables are distinguished into longs and breves, according as they are pronounced quicker, or more flow.

Brevis, in the French customs, denotes the grant of some favour, or donation from the king, in which sense it partly answers to our warrant, and partly to letters patent.

Breviary, a daily office, or book of divine service, in the roman church. It is composed of matins, lauds, first, third, sixth, and ninth, vespers, and the compline, or post communio. The breviary of Rome is general, and may be used in all places: but on the model of this various others have been built, appropriated to each diocese, and each order of religious.

The breviary of the Greeks is the same in almost all churches and monasteries that follow the greek rites: the Greeks divide the psalter into twenty parts. In general the greek breviary consists of two parts, the one containing the office for the evening, the other that of the morning, divided into matins, lauds, first, third, sixth, and ninth, vespers, and the compline: that is, of seven different hours, on account of that saying of David, sep-tiis in diei laudem dixi vibi.
BREVIS; in anatomy, an appellation given to several muscles, on account of their shortness. Thus, BREVIS CUBITI, in anatomy, is a muscle that rises from the superior and posterior part of the humerus, and, by joining its fleshy fibres with the brachialis externus and longus, and becoming tendinous, covers the elbow, and is inserted into the olecranium, to extend the arm.

BREVIS RADI, a muscle which comes from the external and upper part of the ulna, and passing round the radius, is inserted into its upper and fore part, below the tendon of the biceps: this and the longus radii are called the supinators, their office being to turn the palm upwards.

BREVIS PALMARIS lies under the aponeurosis of the palmaris, and arises from the bone of the metacarpus, that sustains the little finger, and from that bone of the carpus which lies above the rest: it goes transversely, and is inserted into the eighth bone of the carpus; it assists in making the palm of the hand concave.

BREVITY, in matters of style, is a perfection of discoursé, whereby all superfluous words are rejected, and only such as are absolutely necessary used. However, as brevity is apt to degenerate into obscurity, it is a leś fault to say too much than too little.

BREVİUM CUSTOS. See Custos.

BREVIUM FALSO RETORNO. See the article Falso.

BREYORDT, a town of Guelderland, in the united Netherlands, situated about twenty-five miles south-east of Zutphen, in 6° 35' east long. and 52° north lat.

BREWER, a person who professes the art of brewing. There are companies of brewers in most capital cities: that of London was incorporated in 1427, by Hen. VI. and that of Paris is still older.

BREW-ER'S-HAVEN, a good harbour at the north end of the island of Chiloé, on the coast of Chili, in South America: west lon. 83°, and south lat. 42°.

BREW-HOUSE, a place for brewing. See the next article.

It should be so situated that the smoke may not be an annoyance to any of the apartments of the dwelling house; the furnace should be made close and hollow, for faving the fire, and giving vent for the palling of the smoke, that the liquor may not be tainted thereby. A copper is better than a leaden boiler. The malt-fat should be placed near to the head of the cooler, and the cooler near to the malt-fat, and the guile-fat under the cooler; and adjoining to them all, several clean tubs, to receive the worts and liquors.

BREWING, the operation of preparing ale, or beer, from malt. The usual process of brewing is as follows: the ingredients being ready, the water must be made to boil very speedily, and while boiling with the greatest violence, the fire must be immediately damped, or put out; when the height of the steam is over, the water is put into the mashing tub, to wet the malt; then so much being poured out, as to make it of a consistence stiff enough to be rowed up, let it stand thus a quarter of an hour, after which another quantity of the water is added, and rowed up as before; at last, the full quantity of water is poured upon it, and that in proportion as the liquor is intended to be strong or weak: this part of the operation is called mashing. Afterwards the whole may be left to stand two or three hours, more or less, according to the strength of the wort, or the difference of the weather; then let it run into the receiver, and mash again for a second wort, in the same manner as for the first, only the water must be cooler, and must not stand above half the time.

The two worts being mixed together, the quantity of hops that is designed may be added thereto, and the liquor put into the copper, which being closely covered up, let it boil gently, for the space of an hour or two; then let the liquor into the receiver, and the hops strained front into the coolers.

When cool, the barms is applied; when done, it is left to work, or ferment, till it be fit to tun up. For small beer there must be a third mash; the water must be near cold, and to stand not above three quarters an hour; to be hopped and boiled at discretion.

For double ale, or beer, the two quors coming from the two first mashings must be used as liquor for a third mashing: the water must be near cold, and to stand not above three quarters an hour; to be hopped and boiled at discretion.

In ordering vessels for the preservation of beer, they must not at one time be filled...
ed, and at another washed with cold water: some rub the vessels with hop-leaves, that come out of the work, and so rinse them again; then being dried in the air, and headed, they take a long piece of canvas, and dipping it in brimstone, make matches thereof, and with a few coriander-seeds, set fire thereto: others opening the bun, let the match burn in the vessel, keeping in as much as they can of the sulphureous fume, by laying the bun lightly on, and when the match is burnt, they stop all close for a little time; then being opened, and coming to the air, the cask is found to be as sweet as a violet.

BREY, a town of the bishopric of Liege, in Germany, about sixteen miles north of Maelstricht: east longit. 5° 40', and north lat. 51° 15'.

BREYNI, in botany, a genus of the *polyandria-monogynia* class of plants, whose corolla consists of four oval patent petals, and is somewhat larger than the cup: the fruit is a very long, fleshy, clavated, soft pod, formed of two valves, and containing only one cell: the seeds are numerous, kidney-shaped, fleshy, and arranged longitudinally, in the pod.

BRIANC, a town of Dauphiné, in France, situated about forty-five miles south-east of Grenoble: east longitude 6° 20', and north lat. 44° 50'.

BRIAR, or BRIAR-BUSH, the wild rose, with large hairy fruit. See ROSE.

BRIARE, a town of the Ille of France, situated on the river Loire, about seventy-five miles south of Paris: east lon. 2° 45', and north lat. 47° 40'.

RIBE, a gift given a perfon for doing or forbearing any action, that he ought to do or forbear. See the next article.

BIBERY, in common law, is when a person in judicial places, takes a gift or reward of any person who has business before him, for his doing his office, or by close of his office, except the king only, unless it be meat and drink.

Bibery, in judicial or ministerial officers, is punished by fine and imprisonment, and the loss of office; and in a judge it is deemed so heinous, that antiently it was punished as treason. Judges servants are punishable for receiving bribes; and if any judge refuses a bribe offered him, the person that offered it may be punished. Offices of the customs taking any bribe, whereby the crown may be defrauded, forfeit 1001. Candidates that bribe electors, after the end of writs of election, &c. are disabled to serve in parliament; as are likewise such electors, to vote, and to hold any office, and shall forfeit 5001. &c.

BRICIANI, those of the order of that name. This was a military order, instituted by St. Bridget, queen of Sweden, who gave them the rules and constitutions of those of Malta and St. Augustine. This order was approved by pope Urban V. They were to fight for the burying of the dead, to relieve and assist widows, orphans, the lame, sick, &c.

BRICK, a fat reddish earth, formed into long squares, four inches broad, and eight or nine long, by means of a wooden mould, and then baked or burnt in a kiln, to serve the purposes of building.

Bricks are of great antiquity, as appears by the sacred writings, the tower and walls of Babylon being built with them. In the east they baked their bricks in the sun; the Romans used them unburnt, only leaving them to dry for four or five years in the air.

The Greeks chiefly used three kinds of bricks; the first whereof was called *diaporos*, i. e. of two palms; the second, *tetraporos*, of four palms; the third, *sextaporos*, of five palms. They had also other bricks, just half each of those, to render their works more solid, and also more agreeable to the sight, by the diversities of the figures and sizes of the bricks.

Of the matter whereof Bricks are made.

Pliny says, that to make good bricks they must not consist of any earth that is full of sand or gravel, nor of such as is gritty or stony; but of a greyish marl, or whitish chalky clay, or at least of a reddish earth: he also adds, that the best season for making bricks is the spring, because, if made in summer, they will be subject to crack, and be full of chinks. He directs, that the loam of which bricks are made, be well steeped and wrought with water.

Bricks, among us, are various, according to their various forms, dimensions, uses, method of making, &c. the principal of which are, common bricks, of a circular form, used in fleyning of walls: concave, or hollow bricks, on one side flat like a common brick, on the other hollowed, and used for conveyance of water: feather-edged bricks, which are like common flat tiles, only thinner on one edge than the other, and used for penning up the brick-pannels,
B R I

in timber buildings: coggings bricks are used for making the indent works under the caping of walls built with great bricks: capping bricks, formed on purpose for caping of walls: dutch or Flemish bricks, used to pave yards, or stables, and for soap-boilers vaults and cisterns: clinkers, such bricks as are glazed by the heat of the fire in making: sandal or Flemish bricks, are such as lie outmost in a kiln, or clamp, and consequently are soft and useless, as not being thoroughly burnt: great bricks are those twelve inches long, fix broad, and three thick, used to build fence walls: plaster or buttref bricks, have a notch at one end, half the breadth of the brick; their use is to bind the work which is built of great bricks: statute bricks, or small common bricks, ought, when burnt, to be nine inches long, four and a quarter broad, and two and a half thick; they are commonly used in paving cellars, sinks, earths, &c.

The method of burning Bricks. Bricks are burnt either in a kiln or clamp. Those that are burnt in a kiln, are first set or placed in it, and then the kiln being covered with pieces of bricks, they put in some wood, to dry them with a gentle fire; and this they continue till the bricks are pretty dry, which is known by the fume's turning from a darkish colour to a transparent smoke: they then leave off putting in wood, and proceed to make ready for burning, which is performed by putting in brash, furze, spry, heath, brake, or fern cottages; but before they put in any cottages, they damp up the mouth or mouths of the kiln with pieces of bricks (which they call fumilog) piled up one upon another, and close it up with wet brick-earth, instead of mortar.

The fumilog they make so high, that there is but just room above it to thrust in a cottage; then they proceed to put in more cottages, till the kiln and its arches look white, and the fire appears at the top of the kiln; upon which they slacken the fire for an hour, and let all cool by degrees. This they continue to do, alternately heating and slackling, till the ware be thoroughly burnt, which is usually effected in forty-eight hours.

About London they chiefly burn in clamps, built of the bricks themselves, after the manner of arches in kilns, with a vacancy between each brick, for the fire to play through; but with this difference, that instead of arcing, they span it over by making the bricks project one over another, on both sides of the place, for the wood and coals to lie in till they meet, and are bounded by the bricks at the top, which close all up. The place for the fuel is carried up flat on both sides, till about three feet high; then they almost fill it with wood, and over that lay a covering of sea-coal, and then over it the arch; but they drew sea-coal also over the clamp, betwixt all the rows of bricks; lastly, they kindle the wood, which gives fire to the coal, and when all is burnt, then they conclude the bricks are sufficiently burnt.

Oil of Bricks, olive oil imbided by the substance of bricks, and afterwards distilled from it.

The process is as follows: the pieces of bricks being heated red hot in a smart fire, are extinguisshed in a trough half filled with olive oil: being then separated, and the brick thus saturated with oil, and grossly pounded, it is put into a retort, and placed in a reverberatory furnace, from whence is drawn an oil called by apothecaries oleum de lateribus, and by some chemists called oil of the philosophers. It is used for resolving tumours in the spleen, also against palies, epilepsy, &c.

BRICKLAYER, one who lays bricks in the building of edifices of any kind. Tylers and bricklayers were incorporated 10 Eliz. under the name of master and wardens of the society of freemen of the mystery and art of tylers and bricklayers.

BRICKMAKER, he who undertakes the making of bricks. See Bricks.

BRICKING, among builders, the counterfeiting of a brick wall on plaster, which is done by smearing it over with red ochre, and marking the joints with an edged tool; these last are afterwards filled with a fine plaster.

BRIDE, bronja, a woman newly married. See the article MARRIAGE.

Among the Greeks it was customary for the bride to be conducted from her father's house to her husband's in a chariot, the evening being chose for that purpose, to conceal her blushed face; she was placed in the middle, her husband sitting on one side, and one of her most intimate friends on the other; torches were carried before her, and she was entertained in the passage with a song suitable to the occasion. When they arrived at their journey's end, the axle-tree of the coach they role...
bride in, was burnt, to signify that the bride was never to return to her father's house. Among the Romans, when a bride was carried home to her husband's house, the was not to touch the threshold at her first entrance, but was to leap over it.

BRIDEGROOM, from a man newly married, the spouse of the bride. The Spartan bridgrooms committed a kind of rape upon their brides: for matters being agreed on between them two, the woman that contrived and managed the match, having shaved the bride's hair close to her skin, dressed her up in man's cloaths, and left her upon a mattress; this done, in came the bridegroom, in his usual dress, having lopped as ordinarily, and stealing as privately as he could to the room where the bride lay, and uniting her virgin-girdle, took her to his embraces, and having stayed a short time with her, returned to his companions, with whom he continued to spend his life, remaining with them by night as well as by day, unless he stole a short visit to his bride, which could not be done without a great deal of circumspection, and fear of being discovered.

BRIDEWELL, a work-house, or place of correction for vagrants, strumpets, and other disorderly persons. These are made to work, being maintained with clothing and diet; and when it seems good to their governors, they are sent by paßes into their native countries: however, while they remain here, they are not only made to work, but, according to their crimes, receive, once a fortnight, such a number of stripes as the governor commands. Yet to this hospital several hopeful and ingenious lads are put apprentices, and prove afterwards honest and substantial citizens.

BRIDGE, a work of masonry or timber, consisting of one or more arches, built over a river, canal, or the like, for the convenience of crossing the same. Bridges are a sort of edifices very difficult to execute, on account of the inconvenience of laying foundations, and walking under water. The parts of a bridge are the piers, the arches, the pavement, or way over for cattle and carriages, the foot way on each side, for foot passengers, the rail or parapet, which incloses the whole, and the buttments or ends of the bridge on the bank.

The conditions required in a bridge are, that it be well designed, commodious, durable, and suitably decorated. The piers of stone bridges should be equal in number, that there may be one arch in the middle, where commonly the current is strongest; their thickness is not to be less than a sixth part of the span of the arch, nor more than a fourth; they are commonly guarded in the front with angular flerlings, to break the force of the current; the strongest arches are those whose sweep is a whole semicircle; as the piers of bridges always diminish the bed of a river, in case of inundations, the bed must be sunk or hollowed in proportion to the space taken up by the piers (as the waters gain in depth what they lose in breadth) which other wise would cause her to wash away the foundation and endanger the piers; to prevent this, they sometimes diminish the current, either by lengthening its course, or by making it more winding; or by stopping the bottom with rows of planks, stakes, or piles, which break the current. It is also required that the foundation of bridges be laid at that season of the year, when the waters are lowest; and if the ground be rocky, hard gravel, or stony, the first stones of the foundation may be laid on the surface; but if the soil be soft sand, it will be necessary to dig till you come to a firm bottom.

Among the bridges of antiquity, that built by Trajan over the Danube is allowed to be the most magnificent; it was composed of twenty arches, of an hundred and fifty feet in height, and their opening from one pier to another was an hundred and sixty feet: the piers of this fine bridge are still to be seen in the Danube, being erected between Servia and Moldavia, a little above Nicopolis. Among modern bridges that of Westminster, built over the river Thames, may be accounted one of the finest in the world. It is forty-four feet wide, a commodious foot-way being allowed for passengers, on each side, of about seven feet broad, railed above the road allowed for carriages; and paved with broad moor-stones, while the space left between them is sufficient to admit three carriages and two horses to go abreast, without any danger. Its extent from wharf to wharf is 1220 or 1233 feet, being full three hundred feet longer than London bridge. The free water-way under the arches of this bridge is eight hundred and seventy feet, being four times as much as the free water-way left between the flerlings of...
of London bridge: this disposition, to-
gether with the gentleness of the stream,
are the chief reasons why no sensible fall
of water can ever stop, or, in the least,
endanger the smallest boats, in their pas-
sage through the arches.
It consists of thirteen large and two small
arches, together with fourteen interme-
diate piers.
Each pier terminates with a salient right
angle against either stream: the two middle
piers are each seventeen feet wide at the
springing of the arch, and contain three
thousand cubic feet, or nearly two hundred
tons of solid stone; and the others decreas-
edequally on each side by one foot.
All the arches of this bridge are semicir-
cular; they all spring from about two
feet above low-water mark; the middle
arch is seventy-six feet wide, and the
others decrease in breadth equally on each
side by four feet.
This bridge is built of the best materials,
and the size and disposition of these ma-
terials are such, that there is no false
bearing, or so much as a false joint in the
whole structure; besides that, it is built
in a neat and elegant taste, and with
such simplicity and grandeur, that,
whether viewed from the water, or by the
passengers who walk over it, it fills the
mind with an agreeable surprize. The
semicircular towers, which form the
recesses of the foot-way, the manner of
placing the lamps, and the height of the
balustrade, are, at once the most beau-
tiful, and, in every other respect, the best
contrived.
Bridges are either built of stone or tim-
ber, as is judged most convenient.
Stone Bridges consist of piers, arches, and
buttments, made of hewn stone, some-
times also intermixed with bricks.
Wooden Bridges are composed of beams
and joists, supported by pincungs, well
crammed and bound together.
Rythen Bridges are made of great handles
of rushes, bound fast together, over which
planks are laid, and fastened: these are
put over marshy places, to serve for a
crossing ground.
Pendent or hanging Bridges, called: also
philosophical bridges, are those not sup-
ported by posts or pillars, but hung at
large in the air, sustained only at the two
ends or buttments.
Draw-Bridge, one that is fastened with
hinges at one end only, so that the other
may be drawn up; in which case, the
bridge stands upright, to hinder the pas-
 sage of a ditch or moat.
Flying or floating Bridge is generally made
of two small bridges, laid one over the
other in such a manner, that the upper-
most stretches and runs out, by help of
certain cords, running through pulleys
placed along the sides of the under bridge,
which pulls it forwards, till the end of it
joins the place it is intended to be fixed on.
Bridge of boats, boats made of copper,
and joined side by side, till they reach ac-
cross a river, which being covered with
planks, are fastened with stakes or an-
chers.
Bridge of communication is that made over
a river, by which two armies, or forts,
which are separated by that river, have a
free communication with one another.
Floating Bridge, a bridge made use of, in
form of a work in fortification, called a
redoubt, consisting of two boats, covered
with planks, which are solidly framed,
so as to bear either horse or cannon.
Bridge, in gunnery, the two pieces of
timber which go between the two tran-
soms of a gun-carriage, on which the
bed rests.
Bridge, in music, a term for that part of
a stringed instrument over which the
strings are stretched. The bridge of a
violin is about one inch and a quarter
high, and near an inch and a half long.
Bridge-town, the capital of the island
of Barbadoes: west lon. 56°, and north
lat. 13°.
It has commodious wharfs, for unloading
goods, also some forts and castles for the
defence of the place.
Bridge-north, a borough-town of Shrop-
shire, situated on the river Severn, about
fifteen miles south-east of Shrewsbury:
west lon. 2° 30', and north lat. 52° 40'.
It sends two members to parliament.
Bridge-water, a large borough-town of
Somersetshire, situated near the mouth of
the river Ev1l, in 5° west long. and 51°
15' north lat.
It likewise sends two members to parlia-
ment.
Bridle, in the manage, a contrivance
made of straps or thongs of leather, and
pieces of iron, in order to keep a horse
in tubjection and obedience.
The several parts of a bridle are the
bit, or snaffle; the head-STALL, or leathers
from the top of the head to the rings
of the bit; the fillet, over the fore-head
and under the fore-top; the throat-band,
which buttons from the head-band under
the
the throat; the reins, or long thongs of leather that come from the rings of the bit, and being caff over the horse's head, the rider holds them in his hand; the nose-band, going through loops at the back of the head-flit, and buckled under the cheeks; the trelch; the cavefan; and the cravat. Bridles imported pay a duty of 4s. 9d. the dozen; whereof 4s. 3d. is repaid on exporting them again; besides which they also pay 6s. for every 20s. value upon oth, without any drawback.

BRIDLE-HAND is the horse-man's left-hand, the right-hand being the spear or sword-hand.

To fowallow the BRIDLE, is said of a horse that has too wide a mouth, and too small a bit-mouth.

BRIDLE, frenum, in anatomy. See the article FRENUM.

BRIDLINGTON, or BURLINGTON. See the article BURLINGTON.

BRIDON, or SNAFFLE, after the English fashion, is a very slender bit-mouth, without any branches. The English make much use of them, and scarcely use any true bridles except in the service of war. The French call them bridons, by way of distinction from bridles.

BRIDPORT, a borough and port-town of Dorsetshire, situated about ten miles west of Dorchester: west lon. 3°, and north latitude 50° 40'. It sends two members to parliament.

BRIEF, in common law, a writ whereby a man is summoned or attainted to answer any action. It is called brief, because it is couched in a few words, without any preamble. BRIEF is also used for a writing infused out of any of the king's courts of record at Westminster, whereby something is commanded to be done, in order to justice, or the execution of the king's command. BRIEF is also taken for a letter patent, granting a license to a subject to make collection for any public or private loss, as briefs for loss by fire, to be read by ministers in churches, &c.

BRIEF is likewise an abridgment of a client's case, wrote out for the instruction of counsel, on a trial at law. Apotheoretical BRIEFS, letters which the pope dispatches to princes, or other magistrates, relating to any public affair. These briefs are distinguished from bulls, in regard the latter are more ample, and always written on parchment, and sealed with lead or green wax; whereas briefs are very concise, written on paper, sealed with red wax, and with the seal of the fisherman, or St. Peter in a boat.

BRIEG, a town of Silezia, about twenty miles south-east of Brevlau: east longitude 17° 20', and north latitude 50° 50'.

BRIEL, or BRILL, in geography. See the article BRILL.

BRIENNOIS, the southern division of the duchy of Burgundy, in France.

BRIEUX, a post-town of Brittany, in France, situated on the English channel, about thirty miles west of St. Malo: west lon. 2° 50', and north lat. 48° 40'.

BRIGADE, in the military art, a party or division of a body of soldiers, whether horse or foot, under the command of a brigadier. An army is divided into brigades of horse and brigades of foot: a brigade of horse is a body of eight or ten squadrons; a brigade of foot consists of four, five, or six battalions. The eldest brigade has the right of the first line, and the second the right of the second, and the two next take the left of the two lines, and the youngest stand in the center.

BRIGADE-MAJOR is an officer appointed by the brigadier, to assist him in the management and ordering of his brigade.

BRIGADIER is the general officer who has the command of a brigade. The eldest colonels are generally advanced to this post. He that is upon duty is brigadier of the day. They march at the head of their own brigades, and are allowed a sergeant and ten men, of their own brigade for their guard.

BRIGADIERS, and SUB-BRIGADIERS, are posts in the horse-guards.

BRIGANDINE, a coat of mail, a kind of ancient defensive armour, consisting of thin jointed scales of plate, pliant and easy to the body.

BRIGANTINE, a small light vessel, which can both row and sail well, and is either for fighting or giving chase. It hath about twelve or fifteen benches for the rowers, one man to a bench: all the hands aboard are soldiers, and each man hath his musquet lying ready under his ear.

BRIGG, a market-town in Lincolnshire, about twenty-four miles north of Lincoln: west lon. 25', and north latitude 53° 40'.

BRIGHTELMSTONE, a little port-town in Sussex, about seven miles south-west
of Lewes: west longit. 1o' and north lat. 55° 50'.

BRIHUEGA, a town of new Castile, in Spain, about forty-three miles north-east of Madrid: west lon. 3° 20', and north lat. 41°.

BRILL or BRIEL, the capital of the islant of Voorn, in Holland, situated about twelve miles south of the Hague: east lon. 4° 57', and north lat. 51° 50'.

BRILLIANT, in a general sense, something that has a lucid and bright appearane.

BRILLIANT DIAMONDS. See the article DIAMOND.

BRILLIANT, in the manege: a brisk, high-mettted, flately horse is called brilliant, as having a raised neck, a fine motion, excellent haunches, upon which he rises, though never so little put on.

BRIM denotes the utmost verge, or edge, especially of round things.

BRIM, in country affairs. A fow is faid to brim, or to go to brim, when she is ready to take boar.

BRIMSTONE-MARBLE. See MARBLE.

BRINDISI, a port-town of the kingdom of Naples, situated on the gulph of Venice, about thirty-five miles north-west of Otranto: east lon. 16° 45', and north latitude 40° 40'.

BRINE, water replete with saline particles; or pickle. See the article SALT.

BRINE-WATER, a salt water, which being boiled, turns into salt. See SALT.

Brine taken out of brine-pits, or brine-pans, used by fome for curing or pickling of fish, without boiling the same into foal, and rock-fall without refining it into white-salt, are prohibited by 1 Anne, cap. xxii.

BRINE-PAN. See the article SALT.

BRING-UP, among carpenters, a term used when they are discourseing with bricklayers: thus they say, bring up the foundation so high, bring up such a wall, bring up the chimneys, &c. which is as much as to say, build the foundation, &c. to high.

BRINGERS-UP. The whole leat rank of a battalion, being the least men of each file, are called bringers-up.

BRINGING-IN a horse, in the manege, the same as to fay keep down the nose of a horse that boars, and tolls his nose in the wind: this is done by means of a good branch. See BANQUET and WIND.

BRION, an island of north America, in the gulph of St. Lawrence.

BRIONES, a small town of old Castile, in Spain, situated on the river Ebro.

BRIONI, the name of three islands in the Adriatic sea, upon the western coast of Iltria. They belong to the republic of Venice.

BRIONNE, a town of Normandy, in France, situated on the Rill, about ten leagues from Rouen.

BRIONY, or BRYONY. See BRYONY.

BRISAC, a fortified town of Swabia, in Germany, situated on the eastern shore of the river Rhine, about thirty miles north of Strafsburg: east longit. 7° 15', and north latitude 48° 10'.

New Brisac, a fortress on the western shore of the Rhine, opposite to old Brisac. It is situated in Allace, and belongs to the French.

BRISGOW, a territory of the circle of Swabia, in Germany, situated on the east side of the Rhine, opposite to the upper Allace, whereof Fribourg and Brisac are the chief towns.

BRISSUS, and BRISCOIDES, in natural history, a kind of echini marini, of an oval form; the back of the former being smooth and even, whereas that of the latter is furrowed. See ECHINUS MARINUS.

BRISTLE, a rigid glossy kind of hair, found on swine, and much used by brash-makers, &c.

Bristles, rough and undressed, pay a duty of 1s. 2½ d. the dozen pound, whereas that of the former being smoothed, &c. is drawn back on exportation: whereas dressed bristles pay a duty of 2s. 4½ d. the dozen pound; whereas 2s. 1½ d. is drawn back on exportation.

The whisksers of cats are also sometimes called bristles; as are the quills of the porcupine.

BRISTOL, a city and port-town of England, situated partly in Gloucestershire, and partly in Somersetshire: west longi- 2° 40', and north latitude 51° 30'. It stands on the river Avon, about ninety miles west of London, and is a town of the greatest foreign trade of any in Britain next to London. It is also a bishop's see, sends two members to parliament, and gives the title of earl to the noble family of Harvey.

New Bristol, the capital of the county of Bucks, in Pensilvania, about twenty miles north of Philadelphia. It is situated
BRISTOL-WATER. These waters are the fourth in degree amongst the waters which are esteemed warm. The waters of Bath are the first, Buxton the second, and Matlock the third.

Bath waters are beneficial, when the secretions from the blood are diminished; Bristol, when too much increased; Bath attenuates powerfully; Bristol incrases; Bath is spirituous, and helps defects; Bristol is more cooling, and supresses plentitude, with its consequences, inflammations and haemorrhages.

If we may judge of the contents of Bristol waters, from their curvy form, they are chiefly of chalk, _lepis calcariu_, and _calaminaris_, the virtues of which are too dry to cleanse; they fill ulcers with flesh, and cicatrize them.

But whatever the substances are that impregnate them, it is plain they are very subtilis, and that there is but little of a terrestrial part in them, from their specific lightness above other waters: yet when we consider how agreeable to the fight, smell and taste; how clear, pure and frost they are; their gentle degree of heat, so adapted to fundry diseases, it must be concluded, that those waters do imbibe some salutary particles in their passage through the earth, and from the many cures yearly wrought by them, that they have an undoubted title to a place in the first class of medicinal waters.

The diseases in which Bristol waters are properly preferred, are internal haemorrhages, and inflammations, blood-spassing, dyfentery, and immoderate flux of the menses, purulent ulcers of the vescera: hence in consumptions, the drophy, scurrvy with heat, stone, gravel, strangury; the habitual goit, scorbutic rheumatism, diabetes, flows fevers, atrophy, pox, cancer, gleet in both sexes, king's evil, &c. in all these disorders, Bath waters are not only improper, but hurtful; they roufe the too languid, and quicken the too lazy circulation; they alay the heat, and restrain the too rapid motion of the blood. Those impregnate the phleumatic, those attemperate the cholerick constitution. Bath water seems to be adapted to the maladies of the stomach, guts, and nerves; Bristol, to those of the lungs, kidneys, and bladder; again, Bath waters are at variance with a milk course; and the Bristol can never be judiciously directed, but when they may be joined with reason and success.

The Bristol waters are taken medicinally only during the hot months, as from April to September.

BRISTOL-FLOWER, in botany, a name sometimes given to the lychnis. See the article _LYCHNIS_.

BRITAIN, or GREAT-BRITAIN, the most considerable of all the european islands, lies between 50° and 60° north latitude, and between 2° east longitude, and 6° west longitude.

The general division of Britain, is into south and north Britain, or England and Scotland. See the articles _ENGLAND_ and _SCOTLAND_.

New Britain, a large country of north America, called also Terra Labrador, has Hudson's-bay and strait on the north and west; Canada and the river of St Lawrence, on the south; and the Atlantic ocean, on the east.

It is subject to Great-Britain, but yields only skins and furs.

BRITANNIC, in a general sense, denotes something belonging to Great-Britain; but is more particularly applied to the king, who is styled his Britannic Majesty.

BRITANNICA, among antient physicians, the name by which they called the great water-dock; a powerful astringent, which they prescribed in haemorrhages, and other fluxes. See _LAPATHUM_.

BRITANY, a province of France, surrounded by the English channel and the bay of Biscay, on the north, west, and south; and bounded, on the east, by the province of Orléans.

BRITISH, or BRIGHT, in husbandry. Wheat, barley, or any other grain, is said to be bright, when it grows over ripe, and flutters.

BRITISH, something belonging to Great Britain: thus, we say, the British empire, British islands, &c.

The British empire comprehends all the dominions belonging to Great Britain, in whatever part of the world; but the term seems to be more especially used for the British plantations in north America. See the article _PLANTATION_.

Under the designation of British islands are comprehended, Great Britain, Ireland, and the isles of Wight, Seilly, Man, &c. also the Orkney-islands, the Shetland islands, and the western-islands of Scotland. See the articles _BRITAIN_, _IRELAND_, &c.
BRITTLINESS, that quality of bodies, on account of which they are denominated brittle; or, which subjects them to be easily broken. Brittle bodies are likewise very hard and durable, bearing accidents; and it is remarkable, that tin, tho' tough in itself, makes all other metals brittle, when mixed with them.

BRIVE LA GAILLARDE, a town of France in the Limousin, upon the Coureze.

BRIXEN, a city of Tyrol, in Germany, about fifty miles north-east of Trent: east long. 11° 45', north lat. 45° 45'.

BRIZA, in botany, a genus of the triandra-diazygia class of plants, whose corolla is composed of two valves; the lower valve is of the size and shape of the cup; the upper valve is small, plane, and roundish, flattened up the hollow of the other: the corolla, serving in the place of a pericarpium, incloses the seed, and when ripe, dropping it out: the seed is single, very small, roundish and compressed.

BRIZE, in husbandry, denotes ground that has lain long unimproved.

BRIZE-VENTS, filters used by gardeners who have not walls on the north side, to keep cold winds from damaging their beds of melons. They are incloruses about six or seven feet high, and an inch or more thick; made of straw, supported by stakes fixed into the ground, and props across on bothinside and outside; and fastened together with willow-twigs, or iron-wire.

BROAD, an appellation given to things whose breadth bears a considerable proportion to their length.

BROAD-ALBIN, a district or country of Perthshire, in Scotland, bordering upon Argyleshire: it gives the title of earl to a branch of the noble family of Campbell.

BROAD-SIDE, in the fæa-language, denotes a volley of cannon, or a general discharge of all the guns on one side of a ship at once.

BROCADE, or Brocado, a stuff of gold, silver, or silk, raised and enriched with flowers, foliages, and other ornaments, according to the fancy of the merchants, or manufacturers.

Formerly the word signified only a stuff, wove all of gold, both in the warp and in the woof, or all of silver, or of both mixed together; whence it palled to those of stuffs in which there was silk mixed, to raise and terminate the gold or silver.
It is the capital of a county of the same name.

**BROITSCHIA**, a city of Asia in Indostan, about twelve leagues from Surat.

**BROKEN**, in a general sense, denotes something divided into several parts. Hence, **BROKEN NUMBERS** are the same with fractions. See the article **FRACTION**.

**BROKEN RAY**, the same with ray of refraction. See the article **REFRACTION**.

It is thus called, because, in crossing the second medium, it is thus divided into a second medium, that adhering to the hollow passage of merchandize by water; they are consumed and corrected, or broken, as it were.

**BROKEN WIND**, among farriers, is a malady that happens to a horse when he is suffering from wind too long in the stable, without exercise: by this means he contracts grots and thick humours in such abundance, that adhering to the hollow parts of his lungs, they stop his wind-pipe.

This distemper is known by the horse's heaving and drawing up his flanks together, and blowing wide his nostrils.

To cure this disorder, take the guts of a hedge-hog, dry them, and pound them to powder, and give the horse two or three spoonfuls of it in a pint of wine or strong ale; then mix the rest with aniseed, liquorice, and sweet butter, of which make round balls, or pills, and give him two or three of them after drink, and let him fast two or three hours.

**BROKER**, a name given to persons of several and very different professions, the chief of which are exchange-brokers, stock-brokers, pawn-brokers, and brokers, finely so called, who sell household furniture, and second-hand apparel.

Exchange-Brokers are a kind of agents, or negotiators, who contrive, propose, and conclude bargains between merchants, and between merchants and tradesmen, in matters of bills of exchange, or merchandise, for which they have so much commission. Thee, by the statute of 8 and 9 William III. are to be licensed in London by the lord mayor, who gives them an oath, and takes bond for the faithful execution of their offices. If any person shall act as broker, without being thus licensed and admitted, he shall forfeit the sum of £500, and persons employing him 5l. and brokers are to register contracts, &c. under the like penalty: also brokers shall not deal for themselves, on pain of forfeiting 2£. They are to carry about with them a silver medal, having the king's arms, and the arms of the city, and pay 40s. a year to the chamber of the city.

The exchange brokers make it their business to know the alteration of the course of exchange, to inform merchants how it goes, and to give notice to those who have money to receive, or pay, beyond sea; they are the proper persons for negotiating the exchange, and when the matter is accomplished, that is, when the money for the bill is paid, and the bill delivered, they have for brokerage 25s. for 100l. sterling. They reckon at Paris, among the city officers, who are employed under the jurisdiction of the provost of the merchants, and echeuins, or aldermen, three forts of brokers.

1. The brokers of horfes for the carriage of merchandize by water; they are established for the navigation, and take care to examine the horses used to draw the boats up the river; to set the horses together, to oblige the carriers to repair their boats, or to break such as are no longer fit to serve.

2. Sworn wine-brokers on the keys, to examine and taffe all the wine that arrives there.

3. Brokers of bacon and lard. These are established to examine those sorts of merchandizes, as they are landed or unloaded, and to answer for their goodness to the buyer, and to the seller, for the price of his wares.

**Stock-Brokers**, are those who are employed to buy and sell shares in the joint stock of a company, or corporation.

As the practice of stock-jobbing has been carried on so much an excess as became not only ruinous to a great number of private families, but even affect many, or at least might soon affect, the public credit of the nation, the legislature thought fit to put a stop to it, or at least to bring it within certain bounds, and under some regulation, by statute 7 George II. c. viii. sect. 1.

**Pawn-Brokers**. These are persons who keep shops, and lend money upon pledges to necessitous persons, and most commonly at an exorbitant interest. They are more properly stiled pawn-takers, or tally-men, sometimes fripers, or frierers. These are meant in 1 Jac. I. cap. xxiv. sect. 5. where it is declared, that the sale of goods wrongfully taken to any broker, or pawn-broker in London, Westminster, Southwark, or within two miles of London, does not alter the property.

And
And sect. 7. If a broker, having received such goods, shall not, upon request of the owner, discover them, how and when he came by them, and to whom they are conveyed, he shall forfeit the double value thereof, to be recovered by action of debt, &c.

In the cities of Italy, there are companies established by authority for the letting out money on pawns, called mounts of piety; a title little becoming such institutions, as the loan is not gratis. In some parts of Italy, they have also mounts of piety of another kind, wherein they only receive ready money, and return it again with interest, at a certain sum per annum. At Bologna they have several such mounts, which are distinguished into frank and perpetual; the interest of the former is only four per cent; that of the latter, seven.

Brokers are also those who sell old household furniture, and wearing apparel, &c.

Brokerage, the fee paid to a broker for his trouble in negotiating business between persons and persons. See Broker.

Bromelia, in botany, the name of a distinct genus of plants, called by Tournefort ananas. See the article Ananas.

Bromesgrove, a market-town in Worcestershire, about ten miles north of Worcester; west long. 2° 5', and north lat. 52° 26'.

Bromley, a market-town of Kent, ten miles south-east of London; east long. 5', north lat. 51° 25'.

Bromley is also the name of a market-town of Staffordshire, about ten miles east of Stafford; west long. 1° 50', north lat. 52° 45'.

Bromoides, in botany, the name by which Scheuchzer calls the falfoca of Linnaeus. See the article Festuca.

Bromus, in botany, a genus of the triandria-d zigaya class of plants. The flower consists of two valves of an ovate-oblong figure; the lower one is the larger, and emits a faint arista above the insertion of this arista it is bised: the upper valve has no arista. The fruit is nothing but the corolla that covers every way a single oblong seed, convex on one side, and hollowed on the other. A decoction of the root of this plant, is recommended for the worms in children.

Bron, or Bronno, a town of the territory of Pavia, in the Milanese in Italy, situated on the south side of the river Po, about twelve miles south of Pavia; east long. 10° north lat. 44° 50'.

Bronchia, in anatomy, the ramifications of the trachea. The bronchia, in their origin, are formed of imperfect annuli, and in their progress cartilaginous and membranous frutes, very curiously connected and joined together. These have their origin from the trachea; and after being subdivided into innumerable ramifications, finally terminate in those small vessels which form the greater part of the subsidence of the lungs. These vessels have interstices all the way between them, and adhere, as it were, to the branches of the bronchia, in the manner of clusters of grapes. See the article Lungs.

Bronchial Artery, a vessel allotted to the nutrition of the lungs. It rises sometimes single, sometimes double, sometimes triple, from the aorta and intercostals, and adheres everywhere firmly to the bronchia.

Bronchial-vein arises either from the intercostals, or from the vena azygos; accompanies the artery, and divides into the same number of branches with it. As the artery brings blood to the bronchia for the nutrition thereof, and of the vessels of the lungs, so the vein carries off the blood again to the cava, where it soon terminates.

Bronchocele, in surgery, a tumour arising in the anterior part of the neck, from the refilling fatus or air, some humour or other violence, as straining in labour, lifting of weights, &c. This disorder with us is frequently called a Derby-neck, on account of the inhabitants of that county being much subject to it; probably for the same reasons that the inhabitants about the valleys of the Alps, and other mountainous countries, are so much affected with it; namely, the air or waters of the country. But it has not been yet explained, in what manner they operate to produce these effects. This tumour, when once become inveterate, is very difficultly, if ever, curable by medicines; but may be dispersed, if it is recent. A leaden collar, mixed with mercury, prevents it from growing bigger, if it does not entirely disperse it. Some advice to rub it well with the hand or a bone of a dead man, and others direct to other superstitious means; but the most celebrated remedy is one that is sold at Coventry, and kept a secret by Ccc. the
the preparer. It is ordered to be laid under the tongue, every night upon going to bed.

**BRONCHOTOMY**, in surgery, an incision made in the alpeva arteria, or wind-pipe, which is necessary in many cases, and especially in a violent quinsy, to prevent suffocation from the great inflammation or tumor of the parts. It is also called laryngotomy and tracheotomy.

There are several methods of performing this operation; but that which exceeds the rest, as being most easy and expeditions, and occasioning the least wound and pain to the patient, is by an instrument consisting of a small tube, in which is contained a triangular needle called a trochar. This instrument is so managed, as to pass through the middle of the trachea by one push; and after drawing out the needle from the tube, the later is left in the wound, till the patient recovers. Bronchotomy should be performed in time, while there is sufficient strength and hopes of the patient's recovery; for when the patient is spent, it is usually performed in vain. If a drowned person has but just expired, or not continued long under water, the most certain and expeditious way of recovering him, will be by opening the trachea with such instrument as is nearest at hand, and afterwards to inflate or blow into his lungs either with the naked mouth, or with a tube.

**BRONCHUS**, ὑπομένος, according to Galen, is the alpeva arteria which reaches from the larynx to the lungs, consisting of the bronchia. See the article BRONCHIA.

Sometimes it is put for the whole alpeva arteria; and Hippocrates uses it to signify the throat.

**BRONTIC, THUNDER-STONES, in natural history, the name with the belemnite. See the article BELEMNITES.**

**BRONTIUM, χολομένος, in grecian antiquity, a place underneath the floor of the theatres, in which were kept brazen vessels full of stones and other materials, with which they imitated the noise of thunder.**

**BRONTOLOGY denotes the doctrine of thunder, or an explanation of its causes, phaenomena, &c. together with the prelages drawn from it. See THUNDER.**

**BRONZE, a compound metal, two thirds of which consists of copper, and one third of brass, to which is added some fine tin.**

**BRONZES, a name given by antiquarians to figures either of men or beasts, to urns, and, in general, to every piece of sculpture which the antients made of that metal. We likewise give the name of bronzes to statues, bulks cast of bronze, whether these pieces be copies of antiques, or original subjects. Among medallists, all copper medals bear the name of bronze.**

**BRONZING, the art of varnishing wood, plaster, ivory, &c. so as to give them the colour of bronze. See VARNISHING.**

**BROOD, the young of fish and fowls.**

The brood of sea-fish is spawned, and lies in still waters, where it may have reft to receive nourishment, and grow to perfection; and here it is often destroyed by weirs, draw-nets, or nets with canvas or like engines in the bottoms of them, in harbours, havens, and creeks. Every weir, near the main sea, takes, in twelve hours, sometimes five bushels, sometimes twenty or thirty.

**BROODING, the act of a hen in hatching her eggs. See the article HATCHING.**

**BROOK, a little river, or small current of water.**

A brook is distinguished from a river inasmuch, as a river flows at all times, whereas a brook flows at some particular seasons only.

**BROOK-LIME, in botany, the English name of the water anagallis. See ANAGALLIS.**

Brook-lime is moderately hot and moist, and said to be good for cleaning the blood; and, consequently, recommended against the scurvy, dropsy, and stone.

**BROOM, genista, in botany. See the article GENIST.A.**

Many gather the yellow buds of this plant, and pickle them with salt and vinegar, in the same manner as capers, from which they are not then to be distinguished; the flowers are most in use, and are accounted sp melancholy, naphritic, and hepatic.

Broom is extremely perversive to arable and pasture lands; and therefore ought, by all means, to be rooted up, which is the only method of killing it. On barren grounds, indeed, it is a good improvement; for besides its use as fuel, it makes an excellent and lasting thatch, if well laid on.

**Butcher's-BROOM, the English name of a genus of plants, called by botanists ruscus. See the article RUSCUS.**

---

*Spanish-*
BRO [ 381 ]  B RO

Spanish—Broom, in botany, the Sparrtium of authors. See the article Sparrtium.
This is an extremely beautiful shrub, which sometimes grows to an incredible height.

Broom-Flower, ordre de la geniture, an order instituted by St. Louis, King of France, to shew the eftream which he had for the queen his wife, who, the evening before his queen's coronation, received this order himself.

Broom-lime, in botany, the Veronica of authors. See the article Veronica.

Broom-rape, in botany, the Orobanche of botanists. See Orobanche.

Brooming, or Breaming of a flop, the washing and burning off all the filth that she has contracted on her sides with weeds, straw, broom, or the like, when she is on the careen, or on the ground: See the article Careening.

Broskea, in botany, a genus of plants mentioned by Pluuner, the calyx of which is a perianthium, formed of a single leaf, divided into five segments, which terminate in erect acute points, of the length of the corolla; which is also formed by a single petal, and of a conic figure, the top truncated and undivided; the germen is pentacoccus; the style is fibulated, and shorter than the corolla; the stigma simple; the fruit is a round capsule, divided by five furrows, containing five cells; the seeds are numerous and small.

Brothe/, the same with flews. See the article Stews.

Brother, frater, a term of relation between male children, sprung from the same parents, or from the same father, or the same mother. The antients used the term brother, indiscriminately, to almost all who lived related in the collateral line, as uncles and nephews, consens-german, &c.

According to the laws of Moses, the brother of a man, who died without children, was obliged to marry the widow of the deceased, in order to raise up children to him, that his name and memory might not be extinct. See the article Widow.

Among us, it is customary for kings to give the title brother to each other.

In the civil law, brothers, fratres, in the plural number, sometimes comprehends fathers.

Brother is also a customary term for priests of the same persuasion to address one another by: but it is more particularly used to denote the relation between monks of the same convent, as father Zachary:
In English, we more usually say, friar Zachary, from the French word frere, brother: preachers also call their hearers, my brethren, or my dear brothers; and sometimes they use the singular number, and say, my brother, or my dear brother.

This appellation is borrowed from the primitive Christians, who all called each other brothers: but it is now principally used for such of the religious as are not priests; those in orders are generally honoured with the title of father, whereas the rest are only simply brothers.

Loi-Brothers. See the article Lay.

In the military orders, the knights are also called brothers.

In the order of Malta, there is a particular class who are called serving brothers, consisting of such as cannot give proof of their nobility.

Brothers-German, fratres germani. See the article German.

Brothers by adoption. See Adoption.

Two brothers, who have only the same father, are called fratres congueni; and those who are only descended from the same mother, are called fratres uteri.

Brothers of the roly-crois. See the article Rosicrucian.

Sworn Brothers, fratres jurati. See the article Fratres.

Brother is sometimes allotted for one, who resembles another either in good or evil.

Brou, a town of France, upon the river Douxaine, near Chateaudun.

Brouage, a fortress in the territory of Santoign, in France, situated on a bay of the sea, about eighteen miles south of Rochelle: west longitude 1°, and north latitude 45° 50'.

Brouck, the name of a town of Germany, in the circle of Wesphalia, upon the river Roer; and likewise of a town of Switzerland, upon the banks of the Aar.

Brouershaven, a port-town of Zealand, in the united Netherlands, situated on the north side of the island of Schonen, about nine miles south-west of Helvcot fluys: east longitude 3° 55', and north latitude 51° 50'.

Brow, or Eye-brow, an hairy arch extended over the orbit of each eye.

The eye-brows are composed of hairs of a peculiar kind and a determinate length, all turned toward the temples; and under
der thee, is a thick skin and some fat, by means of which they are raised and become more eminent. That part of the eye-brows, where they approach one to another about the root of the nose, is called their head; the opposite extremity is their tail. Their use is to prevent the sweat, trickling from the forehead, from getting into the eyes, and for moderating the force of the light from overhead.

BROW-POST, among builders, denotes a beam which goes across a building.

BROW-ANTLER, among sportsmen, that branch of a deer's horn next the head.

BROWALLIA, in botany, a genus of plants of the didynamia - angiofermica class; the flower of which is monopetalous of a funnel form; the fruit is an ovato-obtuse capsule, with only one cell, divided into four segments at the top, and containing several small seeds.

BROWN, among dyers, painters, &c. a dulky colour, inclining towards redness. Of this colour there are various shades or degrees, distinguished by different appellations; for instance, Spanish-brown, a fad-brown, a tawney-brown, the London-brown, a clove-brown, &c. Spanish-brown is a dark dull red, of a horse-flesh colour. It is an earth, and is of great use among painters, being generally used as the first and priming colour that they lay upon any kind of timber-work in house-painting. That which is of the deepest colour, and freest from stones, is the best. Though this is of a dirty brown colour, yet it is much used not to colour any garment, unless it be an old man's gown; but to shadow vermillion, or to lay upon any dark ground behind a picture, or to shadow yellow berries in the darkest places, when you want lake, &c. It is best and brightest when burnt in the fire, till it be red hot, although, if you would colour any hare, horé, dog, or the like, it should not be burnt; but, for other uses, it is best when it is burnt, as for instance, for colouring wood, posts, bodies of trees, or any thing else of wood, or any dark ground of a picture.

The method of dyeing browns is, by entering the cloth in a boiling bath of red wood ground and nut-galls bruised, and when it has boiled for two hours and a half; and has been cooled and aired, it is entered again in the same bath, to which a proportionable quantity of coppermust first be added. The fadder you would have the brown, the more cop- per must be put in.

BROW-WORT, in botany, a name given to two very distinct genera of plants, the brunella and serophularia. See the articles BRUNELLA and SCROPHULARIA.

BROWNISTS, in church-history, a religious sect, which sprung up in England towards the end of the XVth century. Their leader was one Robert Brown, born at Northampton. They separated from the established church, on account of its discipline and form of government. They equally disliked episcopacy and presbyterianism. They condemned the solemn celebration of marriages in churches, maintaining, that matrimony being a political contrivance, the confirmation of it ought to proceed from the civil magistrate. They rejected all forms of prayer, and held, that the Lord's prayer was not to be recited as a prayer; being given only as a model, upon which to form our prayers.

BROWSE, BROUCE, or BRITTLE, the tops of the branches of trees, upon which cattle usually feed.

BUC, the name of a river and sea-port town of Sicily, in the valley of Noto.

BRUCHISAL, a town of the bishopric of Spires, in the palatinate of the Rhine, in Germany: east longitude 8° 30', and north latitude 49° 15'.

BRUCK, or Pruck, in geography. See the article Pruck.

BRUG, BRUGG, or PRUGG. See the article Prugg.

BRUGES, a city and port-town of Flan- ders, eleven miles east of Ostend, and twenty-four north-west of Ghent: east long. 5° 5', and north lat. 51° 16'. There is a navigable canal from Ostend to Bruges, which has fill the beet foreign trade of any town in Flanders.

BRUISE, in surgery, the same with contusion. See the article Contusion.

BRUISE-WORT, in botany, a name sometimes given to the lychnis. See the article Lychnis.

BRUISING, in pharmacy, the crushing or pounding certain medicines, as roots, woods, &c. in a coarse manner, to make them yield their virtues the more readily.

BRUMALIA, in roman antiquity, festivals of Bacchus celebrated twice a year; the first on the twelfth of the calends of March, and the other on the eighteenth of the calends of November. They were instituted by Romulus, who, during these feasts, used to entertain the senate. Among
among other heathen festivals, which the primitive Christians were much inclined to observe. Tertullian mentions the bruma or brumalia.

BRUNELLA, in botany, a genus of the *dichotoma-gymnospermia* class of plants; the flower of which is monopetalous, with a short cylindric tube. There is no pericarpium, but the cup contains four seeds, nearly of an oval figure.

The brunella, or self-heal, is recommended in wounds of the lungs, and externally in the quinsy, and other diseases of the throat. It is a very useful plant in all inflammatory diseases, in hemorrhages, dysenteries, and in spitting of blood.

BRUNFELSA, in botany, a genus of plants belonging to the *pentandria-monogyna* class; the flower of which consists of a single petal, of a funnel form; the fruit is a glabrous berry, with one cell containing numerous roundish seeds, placed close to the integument of the berry.

BRUNIA, in botany, a genus of the *pentandria-monogyna* class; the flower of which consists of five petals, with flender tongues of the length of the cup, and roundish patent bracteae; there is no pericarpium, but the common receptacle of the fructifications separates the perianth by its hairy squamae; the seeds are single and somewhat hairy.

BRUNSWick, the capital of the duchy of Brunswick, in the circle of Lower Saxony, in Germany, situated on the mouth of the river Elbe; east longitude 8° 42', and north latitude 54° 10'.

It is subject to Denmark.

BRUNSWICK, the capital of the duchy of Brunswick, in the circle of Lower Saxony, in Germany, situated on the river Oker, about thirty-five miles east of Hanover; east longitude 10° 30'; and north lat. 52° 30'.

The elector of Hanover is styled duke of Brunswick, though he has no property in, or dominion over, the city of that name, which belongs to the duchy of Brunswick Wolfenbuttel.

BRUNTS-ISLAND, a parliament-town on the coast of Fife, in Scotland, about ten miles north-west of Edinburgh; west longitude 3°; and north latitude 56° 11'.

BRUSH, an instrument made of bristles, hair, wire, or small twigs to clean clothes, rooms, &c. and also to paint with. There are various sorts of them, distinguished by their shape or use. In the choice of painters brushes, observe whether the bristles are fast bound in the flock, and if the hair be strong and lie close together; for if they sprawl abroad, such will never work well; and if they are not fast bound in the flock, the bristles will come out when you are using them, and spoil your work, as may be seen where the loose hairs of the brush have lain up and down in the colours laid on, to the great detriment of the work.

Wine-bruses are of use for scrubbing those silver, copper, and brass pieces, which are to be gilded over, in order to clear them perfectly from any dirt, rust, or filth, which may adhere to them, and if not brushed off, would hinder the closing of the gold with them. They are therefore used by gilders, silversmiths, &c. and are usually sold by ironmongers.

Head-brushes pay a duty, on importation, of 1s. 3d. the gross or twelve dozen; whereas 1s. 1 1/2 is drawn back on exporting them. Comb-brusches pay 2s. 6d. the dozen; for the same number; and of this 2s. 3d. is repaid. Head-brusches pay 1s. 3 1/2d. the dozen; rubbing-brusches 3 1/2d. the dozen; weavers-brusches 1 1/2d. the dozen; for the same number; in all which a proportional draw-back is allowed. However, it is to be observed, that brushes are among the number of goods prohibited to be imported.

Silver-Brush, in botany, a name sometimes given to the plant, called by botanists *barba jovis*. See Barba.

BRUSSELS, the capital of the province of Brabant, and of all the Austrian Netherlands. It is situated on the river Senne, and is the seat of a bishop; west long. 4° 6', and north latitude 50° 50'.

It is a strong fortified town, and agreeably situated, which, together with the viceroys residence, occasions a great resort of nobility and gentry.

BRUTE, an animal without the use of reason, or that acts by mere instinct, in which sense it denotes much the same with beast, and comprehends all animals, excepting mankind.

Philosophers, however, are far from being agreed on this subject; some make them mere machines, whilst others raise them to the level of mankind, and allow them not only reason, but immortality. Perhaps those come nearest the truth, who, taking a middle course, allow brutes to have imagination, memory, and passion;
Black-Bryony, bryonia nigræ, a name sometimes given to the tamnus. See the article Tamnus.

Indian-Bryony, or Peruvian-Bryony, names given to several species of jalap. See the article Jalap.

Wild-Bryony, bryonia aygian, a term used, by some of the ancients, for the chamæpitys of modern botanists. See the article Chamæpitys.

Bryum, Wall-Moss, in botany, a genus of mosses, consisting of a flake furnished with leaves, which arises immediately from the root: on this flake stands a separable pedicle, with a conic capsule on its top, covered with a smooth operculum, and containing a fine powder. See plate XXXII: fig. 6.

The smoothness of the operculum distinguishes the bryum from the polytrichum; and the growing of the pedicles only on the summits of the branches, distinguishes it from the hypnum.

Bubalinus serpens, a large east-indian serpent, so called from the mischief it does among the cattle.

Bubalus, the Buffalo, in zoology. See the article Buffalo. There is frequent mention of the bubalis in scripture: Moses suffered the Hebrews to eat of it, and it was served up at Solomon's table.

Bubble, bulba, in philosophy, small drops or vesicles of any fluid filled with air, and either formed on its surface, by an addition of more of the fluid, as in raining, &c. or in its substance, by an interminable motion of its component particles.

Bubbles are dilatable or compressible, i.e. they take up more or less room, as the included air is more or less heated, or more or less pressed from without, and are round, because the included aura acts equally from within, all around: their coat is formed of minute particles of the fluid, retained either by the velocity of the air, or by the brisk attraction between those minute parts and the air.

Bubble, in physiology, a small bladder on the surface of the skin, generated, according to Galen, by a status included within a humid substance. See Vesicle.

Bubble, in commerce, a cant term, given to a kind of projects for raising of money on imaginary grounds, much practised in France and England in the years 1719, 1720, and 1721. The pretence of those schemes was the raising a capital for retrieving, setting on foot,
Fig. 1. Bottomy.
Fig. 2. Braced.
Fig. 3. Brocade-Shell.

Fig. 4. Brama the Bream.

Fig. 5. Bryony.

Fig. 6. Bryum.

Fig. 7. Bubo.
BUB [385]

apply diffusent plasters externally, as emplast. diachyl. simples, de spermate ceti, de galbano, diaphonias, &c.

But if the inflammation proves more violent, the pains more intense, and the diffusent plasters avail nothing, it will be proper to bring it to suppuration, by the application of emp. diachylon, cum gummis, or something as effectual. If violent pains also affect the patient, the frequent application of digesting cataplams warm to the part, will not only mitigate the pain, but also greatly promote a dispersion, or else a digestion and maturation.

Pestilential BUBOs are distingusihable from other tumours, by their happening at a time, and in conjunction with the plague, and from their being accompanied, in the patient, with the symptoms proper to that distemper; these tumours are sometimes joined with carbuncles.

It is not, without reason, affirmed by some of the more learned and modern physicians, that almost the whole buffins of curing the plague consisted in carefully promoting the eruption of bubos. The patient, upon the first appearance of the tumours, should keep the house, or rather keep in a warm bed, to be more secure from the air.

In the external treatment, it is very serviceable to rub the tumified part pretty strongly with the hands or cloths; and what is still preferable, to apply external maturative and emollient medicines, whereby they will come out the sooner; the patient will also find great benefit from the use of a cataplasm, made ex fermento pani calldio, vel folo, vel cum fale atque lupinapi contrito. To the external applications, it will be proper to join internal medicines, by the help of which the venom, lurking in the body, may be expelled in a gentle sweat; but such sudorific medicines, as are very strong and heating, have been always found dangerous and pernicious by modern physicians.

In some cases, the tumour turns suddenly to suppuration, and in others it remains for some weeks, without being any thing softer. When this is the case, it is necessary to continue the use of the forementioned remedies, till the tumour either breaks of itself, or is fit to be opened, like other abscesses, by incision with the scalpel, that the pestilential matter may be discharged, and prevented from returning into the blood.

Venereal BUBO, a tumour with pain and inflammation, arising in the groin or arm-pits,
BUB 

pits, after contact with an impure woman, who is afflicted with the venereal disease. The most certain signs of bubos being venereal are, the patients having to do with these women, and from their being, and having been, accompanied with gonorrhoeas, chancreas, or other symptoms of the venereal disease. With regard to the cure, there are many physicians who hold, that the dispersion of venereal bubos are equally improper, as in the peritoneal; they therefore judge it necessary, to abstain entirely from bleeding, purging, and to forward the tumour to suppuration as fast as possible: however, others are for taking cathartic and mercurial medicines, together with a decoction of the woods, and other purifiers of the blood. The dispersion is to be effected with large doses of merc. dulce, as is usual in carrying off gonorrhoeas.

Externally to the tumour should be applied some diffusent plasters, as those in the peritoneal tumours: the patient should keep a regular diet and course of life, and should abstain from strong liquors. The suppuration is to be promoted much in the same manner, as mentioned in the benign and peritoneal tumour.

The internal medicines should be a decoction of the woods, two or three times a day, from eight to twelve ounces at a time, with thirty or forty drops of efficient, lignor. pimpinellæ, alba fuar. &c. It is to be opened at the peritoneal bubo.

BUBONI, in botany, a genus of the pentandria digyna class of plants; the general corolla of which is uniform; the single flowers consist each of five oblong petals, of a lanceolated figure, and inflex; the fruit is naked, oval. Aftiated, hairy, coronated, and separable into two parts; the seeds are two, oval, plane on one side, and on the other convex, fratiated, and hairy.

BUBONOELE, or HERMA INGULARIS, in surgery, a tumour in the inguinal fossæ; by a protrusion of the intestine, omentum, or both through the processes of the peritoneum, and rings of the abdominal muscles. The bubocele may arise from two causes, viz. a relaxation of the peritoneum and rings of the abdominal muscles, or from violent contraction and pressure of the abdominal muscles upon the intestines, as in jumping, lifting of great weights, coughing, hallowing, blowing, a trumpet, riding on horse-back, a fall, 

When this disorder is formed insensibly, and by degrees, it is attended with but few and slight symptoms: when it arises from violent colds, exercises, eating too plentifully of groats and flatulent food, which will exasperate the disorder, the consequence will be violent pain and inflammation, sickness, vomiting, and the illae passion: it may be farther discovered from the tumour occasioned thereby in the groin, which proceeds up to the ring of the abdominal muscles; and when the intestine is not incarcerated, but returnable into the abdomen, the tumour subsides upon lying down. When the bubonocele is incarcerated, so that the parts, forming the tumour, are not returnable into the abdomen, it usually appears with a greater resistance to the touch, redness, and inflammation.

These ruptures are often attended with danger, especially the incarcerated ones, in which, if the intestine be not timely returned, but the fistula continues two or three days, red and livid spots appear upon the tumour, which denote a sphæculus or mortification; and if an universal cold sweat seizes the patient, he has generally but a few hours to live. When the omentum alone falls down, there is less danger than when it is accompanied with the intestines.

When the intestine is returnable, the patient should be laid on his back, with his thigh a little bent, to relax the integuments; then the tumour is to be gently pressed, or returned with the hands and fingers, after which a plaster and compression are to be applied to the part affected, and retained with a proper truss, and a girdle or bandage, without taking them off for several months, or longer, as there is occasion. See the article TRUSS.

When the intestine is not returnable, then the operation of incision becomes absolutely necessary, in order to dilate the parts. However, the surgeon may first try the repeated use of cataplasm, ointments, and laxative lotions, after bleeding; whereby the fistula is sometimes removed, and the intestine may be returned by the finger, without much difficulty.

BUBONIUM, in botany, a name by which some call the after, or star-wort.

BUBULCA, in ichthyology, the name of a species of cypinus, with a roundish body, and large scales. See CYPINUS.

BUCANEPHYLON, in botany, the name by which Plukenet calls the larracea of Linnaeus. See the article SARACENA.
BUCCARI, or Bouchari, is also the name of a large province of Asiatic Tartary, situated between 76° and 95° east longitude, and 34° and 44° north latitude.

BUCCELLARI, an order of soldiery under the Greek emperors, appointed to guard and distribute the ammunition-bread; though authors are somewhat divided as to their office and quality. Among the Vandalos bucellarius was a general name for a client or valet, who lived at the expense of his lord. Some give the denomination to parasites in the courts of princes, some make them the body guards of emperors, and some fancy they were, only such as emperors employed in putting persons to death privately.

BUCCINA, an antient musical and military instrument. It is usually taken for a kind of trumpet, which opinion is confirmed by Plutus, by his defining it a crooked horn, played on like a trumpet. Vegetius observes, that the buccina bent in a semicircle, in which respect it differed from the tuba or trumpet. 'Tis very hard to distinguish it from the cornu or horn, unless it was something else, and not quite so crooked; yet it certainly was of a different species, because we never read of the cornu in use with the watch, but only the buccina. Befide, the sound of the buccina was sharper, and to be heard much farther, than either the cornu or the tuba. In scripture, the like instrument, used both in war and in the temple, was called rams-horns, kiren-jobel, and spheroth hagijobelim.

BUCCINATOR, in anatomy, a muscle on each side of the face, common to the lips and cheeks: The origin of the buccinator is partly from the anterior and lower part of the coronoide process of the lower jaw, and partly about the roots of the posterior dentes molares of both jaws. Its progress, as the head is erect, is nearly horizontal; its termination is at the angle of the lip. Its ules are to bring the food into the way of the teeth, and the alival duft of Steno perforates it in the middle.

BUCCINUM, the trumpet-shell, a genus of univalve shells, shaped, in some degree, like a horn, or other wind-instrument: the belly of the shell is distended, the aperture of the mouth is large, wide, and elongated, the tail is more or less long, and the clavicle more or less exerted.
This is a very numerous genus, the principal species of which are the spindle-shell, the mitre-shell, the midas-ear-shell, the great triton-shell, the tower of Babel-shell, &c. See plate XXXII. fig. 1, where n. 1 represents the mitre-shell; n. 2. the rough buccinum; and n. 3. the tower of Babel-shell.

Buccinum, in botany, the name with the delphinium of the best botanists.

Buccula, in antiquity, denotes theumbo, or most prominent cicatrix (peculiar to the delphinium middle of a pillar), of the great and as magnificent a cistern or other building, as the ambassadors and counsellors of State, on which the duke of Venice is built by order of his doge of Venice, and all the Venetians, of Bavaria, and of the Venetians, built by order of the elector of Bavaria, and lauched on a lake, which is six leagues in length.

Bucephalon, in botany, a genus of plants, the claws of which is not yet fully ascertained. There is no corolla: the fruit is an oval, but somewhat quadrangular berry, with one cell, containing a brittle seed.

Buceros, in ornithology, a species of raven, common in the East-Indies, remarkable for a considerable gibbosity near the base of its beak.

Buch, a town of Guienne, in France, which gives its name to a territory, called le Capitulat de Bu.

Buchan, a country or district of Aberdeenshire, in Scotland: it gives the title of earl to the noble and ancient family of Erskine.

Buchau, an imperial city of Swabia, in Germany, about twenty-five miles south-west of Ulm: east long. 9° 40', and north lat. 48° 5'.

Buchnera, in botany, a genus of the diosma-flora, the flower of which is monopetalous, with five equal and oblongely cordated segments at its edge: the fruit is an oval-to-elliptical capsule, with two cells divided at the top, and containing numerous angulated seeds.

Bucharest, a town of Wallachia, subject to the Turks: east longitude 26° 30', and north latitude 44° 30'.

Buchorn, a city of Swabia, in Germany, situated on the east side of the lake of Constance, and about twelve miles east of the city of Constance: east long. 9° 26', and north lat. 47° 46'.

Bucioche, in commerce, a sort of woolen cloth manufactured in Provence, which the French ships carry to Alexandria and Cairo.

Buck, among sportsmen, in his first year, is called a fawn; the second, a pricket; the third, a forel; the fourth, a fore; the fifth, a buck of the first head; and the sixth, a great buck. This beast is common in most countries, being corpulent as a hart, but in size, resembling more a roe, except in colour: the males have horns, which they lose yearly; the females none at all. As for the colour, it is very different; however, they are mostly branded and sandy, with a black hit all along the back. Their flesh is excellent for nourishment.

Buck-hunting. Let art and skill be required in lodging a buck, than in harbouring a hart; nor does there need so much drawing after: it is sufficient that you judge by the view, and mark what grove or covert he enters. When hard hunted, he usually takes to some strong hold he is acquainted with; not flying before the hounds, nor crossing, nor doubling, nor using any of the subtilities the hart is accustomed to. The buck herds more than the hart does, and chooses to lie in the driest places. He groans and trots as the hart babbles, and with a worse note and rattling in the throat, leaps higher at the rut than the stag. The bucks mow or shed their horns every year about April or May; and their new ones are burnished about the end of August. They make their winterings in divers forms, according to the diversity of food; but they are most commonly round.

Now the greatest care of the huntsman must be employed in preventing the hunting counter or change, because of the plenty of fallow deer, which use to come more directly upon the hounds than the red deer do. The buck comes
in season the 8th of July, and goes out the 14th of September.

BUCK-BEAN, in botany, the trifolium pratense, or marsh trefoil of authors.

BUCK'S-HORN-CRESS, the nafturtium of botanists. See the article NASTURTUM.

BUCK'S-HORN-PLANTAIN, the coronopus of botanical writers. See CORONOPUS.

BUCK-MAST denotes the mast of the beech-tree. See the article BEECH.

BUCK-THORN, the English name of the ramnus of botanists.

Sea-BUCK-THORN, the ramnoides of botanical writers.

BUCK-WHEAT, the English name of the fagopyrum of authors.

BUCKET, a small portable vessel to hold water, often made of leather for its lightness and easy use in cales of fire.

It is also the vessel let down into a well, or the sides of ships, to fetch up water.

BUCKING, the first operation in the whitening of linen-yarn or cloth: it consists in pouring hot water upon a tubful of yarn, intermingled with several straments of fine ashes of the ash-tree.

See the article BLEACHING.

BUCKINGHAM, a borough-town of Buckinghamshire, about forty-six miles north-west of London: west longitude 5°, and north latitude 52° 50'.

It sends two members to Parliament.

Buckinghamshire has Northamptonshire on the north; Bedford, Hertford, and Middlesex, on the east; Berkshire, from which it is divided by the river Thames, on the south; and Oxfordshire, on the west.

BUCKLE, a well known utensil, made of divers sorts of metals, as gold, silver, steel, brass, &c.

The fashion, or form, of buckles is various: but their use, in general, is to make fast certain parts of drapery, as the shoes, garters, &c.

Buckles for girdles pay a duty of 3s. 10d. the gros, or twelve dozen; whereof 18. 44d. is drawn back on exportation. Buckles for gists pay like-wise a duty of 1s. 4½d. the gros; and both these pay somewhat more, if of brass. But it is to be observed, that all buckles are prohibited to be imported.

BUCKLER, a piece of defensive armour used by the antients. It was worn on the left arm, and composed of wickers woven together, or wood of the lightest sort, but most commonly of hides, fortified with plates of brafs or other metal. The figure was sometimes round, sometimes oval, and sometimes almost square. Most of the bucklers were curiously adorned with all sorts of figures of birds and beasts, as eagles, lions; nor of these only, but of the gods, of the celestial bodies, and all the works of nature; which custom was derived from the heroic times, and from them communicated to the Grecians, Romans, and Barbarians.

Vulgar Bucklers. Those consecrated to the gods, and hung up in their temples, either in commemoration of some hero, or as a thanksgiving for a victory obtained over an enemy; whole bucklers, taken in war, were offered as a trophy.

BUCKNHAM, or BUCKENHAM, a market-town of Norfolk, about nine miles east of Thetford: east longitude 1° 10', north latitude 52° 30'.

BUCKOR, a province of the East-Indies, situated on the river Indus, having the province of Multan on the north, and Tatta on the south.

BUCKRAM, in commerce, a sort of coarse cloth made of hemp, gummed, calendered, and dyed several colours. It is put into these places of the lining of a garment, which one would have stiff and to keep their forms. It is also used in the bodies of women's gowns; and it often serves to make wrappers to cover cloths, serges, and such other mercantizes, in order to preserve them and keep them from the dust, and their colours from fading. Buckrams are sold wholesale by the dozen of small pieces or remnants, each about four ells long, and broad according to the pieces from which they are cut. Sometimes they use new pieces of linnen cloth to make buckrams, but most commonly old sheets and old pieces of fells.

Carriick buckram pays a duty of 5r. 7½d. the short piece; whereof 5r. 7½d. is repaid on exporting it. East-country buckram pays 1s. 2½d. the roll, or half piece; whereof 1s. 2½d. is drawn back.

French buckram pays 11. 15s. 10½d. the dozen pieces; whereof 11. 10s. 1½d. is repaid. Fine German buckram pays 2s. 4½d. the piece; whereof 2s. 1½d. is drawn back on exportation.

BUCKSTALL, a toll to take deer, which must not be kept by any body that has not a park of his own, under penalties.

BUCK-WHEAT, the faine with French wheat.
BUD [390] BUF

BUCKTHORN, RHAMNUS, in botany. See the article RHAMNUS.

BUCOLIC, in ancient poetry, a kind of poem relating to shepherds and country-affairs, which, according to the most generally received opinion, took its rise in Sicily. Bucolics, says Vossius, have some conformity with comedy. Like it, they are pictures and imitations of ordinary life; with this difference, however, that comedy represents the manners of the inhabitants of cities, and bucolics, the occupations of country people. Sometimes, it continues he, this last poem is in form of a monologue, and sometimes of a dialogue. Sometimes there is action in it, and sometimes only narration; and sometimes it is composed both of action and narration. The hexameter verse, is the most proper for bucolics in the Greek and Latin tongues. Moehus, Bion, Theocritus and Virgil, are the most renowned of the ancient bucolic poets. See the articles ELOGUE and IDYLLION.

For the nature of this kind of poem, and the style and subjects which it requires, see the article PASTORALS.

BUD, among gardeners, that part of a feed which first begins to sprout, or rather the leaves first put forth: these in some plants are two; in others, four; and in others again, six, or even more. BUD is also used for the sprout from whence a branch arises. See BRANCH.

BUD, in country-affairs, likewise denotes a weaned calf of the first year; so called, because the horns are then in the bud.

BUDA, the capital of lower Hungary, about 130 miles south-east of Vienna: it stands on the side of a hill, on the south-west side of the Danube, and is well fortified and defended by a castle, esteemed one of the strongest fortresses in Hungary: east longitude 19° 20', and north latitude 47° 40'.

BUDDENBAULD, a market-town of Suffolk, about thirteen miles north-east of Bury: east longitude 1° 10', and north lat. 52° 25'.

BUDDE, in mineralogy, a large square frame of boards, used in washing the tin ore. See the article WASHING.

BÜDDELEIA, in botany, a genus of the tetraandria-monogynia class of plants, the flower of which consists of a single petal, lightly divided into four oval, acute segments, and three times as large as the cup. The fruit is an oval, oblong capsule bifurcated, with two cells, containing numerous and very small seeds.

BUDDLING, the act of cleansing, or washing any ore. See the article WASHING.

BUDDLING-DISH is a small, shallow vessel, for the washing ores with the hand.

BUDGE, or BOCHE. See the article BOCHE.

BUDGE-BARRELS, among engineers, small barrels well hooped, with only one head; on the other end is nailed a piece of leather, to draw together upon strings like a purée. Their use is for carrying powder along with a gun or mortar, being less dangerous, and easier carried, than whole barrels. They are likewise used upon a battery of mortars, for holding meal powder.

BUDINGEN, the capital of a country of the same name in Germany, situated in the circle of the upper Rhine, about twenty miles north-east of Frankfort.

BUDOA, a city of Dalmatia, situated on the gulf of Venice, in 19° 20' east long. and 42° 15' north lat. It is a bishop's see.

BUDWEIS, a town of Bohemia, situated on the river Muldaw, about sixty-five miles south of Prague: east longitude 14° 20', north latitude 49°.

BUDZIAC TARTARY, a country subject to the Turks, situated on the rivers Neifter, Bog, and Nieper; having Poland and Ruffia, on the north; little Tartary, on the east; the black sea, on the south; and Bessarabia, on the west.

BUEIL, or BOGLIO, in geography. See the article BOGLIO.

BUEN-AYRE. See the article BONAFE.

BUENOS-AYRES, one of the most considerable Spanish ports on the east coast of South America, situated on the southern shore of the river Plata, and about fifty leagues from its mouth; and yet here the river is full seven leagues broad: west long. 60°, south lat. 36°. It is a strong fortified town.

BUEN-RETIRO, a palace near Madrid, belonging to the king of Spain.

BUFFET, or BUFFET. See BUFFET.

BUFF, in commerce, a sort of leather prepared from the skin of the buffalo, which dressed with oil, after the manner of shamm, makes what we call buff skin. This makes a very considerable article in the French, English, and Dutch commerce at Constantinople, Smyrna, and all along the coast of Africa. The skins of elk, oxen, and other-like animals, when prepared after the same manner as that of the buffalo, are likewise called buffs.
BUFF [391] BUG

Of buff-skin, or buff-leather, are made a sort of coats for the horsse, or gus d'arms of France, bandailers, belts, pouches and gloves.

In France, there are several manufactories design'd for the dressing of those sort of hides, particularly at Corbeil, near Paris; at Niort, at Lyons, at Rone, at Etanepus, at Cone. The manner of preparation, see under the article SHAMMY.

BUFFALO, bubalus, in zoology, an animal of the ox-kind, with very large, crooked, and refupinated horns. See plate XXXII. fig. 2. It is equal in size to our biggest oxen: the head is very large, the forehead remarkably broad, and the apect very fierce and terrible: the eyes are large and prominent, the ears long and patulous, the horns very thick at the base, but sharp at the point: the neck is thick and remarkably short; the flesh hangs very loose under the throat: the body is more bulky in proportion than in our bull; and the legs are thicker, but about equal in length. The colour is usually a blackish grey: but in this there is a great variety. The buffalo is a native of the east, but has been introduced into Italy, and some other parts of Europe, where it is kept as a beast of burden and draught.

The buffalo affords trade, his horns, his hide, and his hair. Of the horns are made several turner's works, particularly beads for chaplets and insign-boxes, which are pretty much valued. The hair being separated from the hide, by means of lime, is used as a sort of wicks. As to the hide, see the preceding article BUFF.

BUFFET was antiently a little apartment separated from the rest of the room by slender wooden columns, for the disposing of china, glass-ware, &c.

It is now properly a large table in a dining-room, called also a side-board, for the plate, glasses, bottles, basins, &c. to be placed on, as well for the service of the table, as for magnificence. In houses of persons of distinction in France, the buffet is a detached room, decorated with pictures relative to the subject, with fountains, cisterns and vases. It is commonly faced with marble or bronze.

BUFFON, a droll or mimic who diverts the public by his pleasantries and follies. BUFFO, in zoology, the same with the rubeta, or common toad. See the article RUBETA.

BUFFONITAE, in natural-history, a kind of extraneous fossils, otherwise called lycodontes, or wolf's teeth. See the article LYCODONTES.

BUG, a river, which, taking its rise in red Russia in Poland, runs northward to Breite; and then, turning westward, falls into the Weifel, or Vitula, below Warlaw.

Bug, or BUGG, in zoology, the English name of a genus of insects, called by authors cimices. See the article CINEX. The house bug, or cimex lefarius, so extremely troublesome at beds, is of a roundish figure, and of a dark cinnamon colour. In order to destroy these vermin, let the bedsteads be wash'd with oil of turpentine, or painted over with verdigris ground in linseed and oil of turpentine. Or, boil wormwood, rue, common oil, and water together, till the water is consumed; then, after straining, make it into an ointment with a good quantity of grease or sulphur: with this rub the chinks and other places, where the bugs are supposed to be. Or, mix hemp, oil, and ox-gall together; with which rub the bed-fead all over, and the bugs will not come near it. Or, pound equal quantities of black soap and common soape together; then mixing as much of quicksilver with it, let the buggy places be rubbed with this mixture.

Bug is also a name sometimes given to the cherries infect. See CHERMES. Green-bouje-Bug, the coccus of the orange tree. See the article COCCUS.

BUGA, a city of Natolia, in the upper Caramania.

BUGEN, a town of Japan, the capital of the kingdom of that name in the isle of Ximo.

BUGGY, a territory in France, being the south division of Breite, in Burgundy, on the frontiers of Savoy.

BUGGASINS, in commerce, a name given to buckrams made of callico: these pay a duty on importation of 1 s. 3½ d. the half piece; whereof 1 s. 2½ d. is drawn back on exportation.

BUGGERS, in church-history, the same with bulgarians, a sect of heretics which amongst other errors held, that men ought to believe no scripture but the New Testament; that baptism was not necessary to infants; that husbands who converted with their wives, could not be fayed; and that an oath was absolutely unlawful.

BUGGERER,
BUGGERER, a person who is guilty of the crime of buggery. See the next article.

BUGGERY is defined by Sir Edward Cook to be a carnal copulation against nature, either by the confusion of species; that is to say, a man or woman with a brute beast; or sexes, as a man with a man, or man unnaturally with a woman. It is said, that this sin against God and nature, was first brought into England by the Lombards; and antiently, according to some writers, it was punishable with burning; but others say, with burying alive. It is, by statute, felony without benefit of clergy, and is always excepted out of a general pardon.

BUGLIA, a port-town of the kingdom of Algiers, in Africa, situated about sixty miles east of the city of Algiers: east longitude 49°, north latitude 35° 30'.

BUGLE, a port-town of Egypt, situated on the western shore of the Red-Sea, almost opposite to Ziden, the port-town to Mecca, and about 100 miles west of it: east long. 36°, north lat. 22°.

BUGLE, bugula, in botany. See the article Bugula.

BUGLOSS, buglossum, in botany, a name given to several very distinct genus of plants, as the anchusa, lycopus, and alpepero. See the articles anchusa, &c.

Viper's-bugloss, the English name of the echium of botanists. See echium.

BUGLOSSA, or Buglossus, in ichthyology, names given to the foal-fish, or oblong pleurocentes, with the upper jaw longest, and rough scales on both sides.

BUGLOSSOIDES, in botany, the name by which Rivinus calls the lycopus of Linnaeus.

Buglossus, in ichthyology, the name by which Rondeletius calls the foal-fish.

Bugula, bugle, in botany, the same with the ajuga of Linnaeus: it belongs to the didynamia-gymnosperma clas of plants: the flower is monopetalous and ringent; the upper lip being small, and bifid; the lower one, large and trid: there is no pericarpium: the seeds are contained in the cup of the flower, and are four in number.

The flowers and leaves of bugle are said to be good in fluxes, in retention of urine, and in hernias.

Bugul, a little fortress in Swabia, about six miles south-east of Stolhoven, and nineteen north-east of Strauburg.

Building, a fabric erected by art, either for devotion, for magnificence, or for convenience.

Regular Building, is that whose plan is square, the opposite sides equal, and the parts disposed with symmetry.

Irregular Building, is that whose plan is not contained with equal or parallel lines, either by the accident of situation, or the design of the builder, and whose parts are not relative to one another in the elevation.

Inflated Building, is that which is not contiguous to any other, but is encompassed with streets, open squares, or the like.

Engaged Building, one surrounded with other buildings, having no front to any street or public plate, nor any communication without, but by a common paffage.

Interred or sunk Building, one whose area is below the surface of the place on which it stands, and of which the lowest courtes of Rome are concealed.

With respect to their use, buildings take several denominations, as public buildings, private buildings, hydraulic buildings, &c. See the articles basilica, church, palace, house, fountain, &c.

Building is also used for the art of constructing and raising an edifice; in which sense it comprehends as well the expences, as the invention and execution of the design. There are three things chiefly to be considered in the art of building, viz. convenience, firmness, and delight.

To accomplish which ends, Sir H. Wotton considers the subject under these two heads, the situation and the work. As to the situation, either that of the whole is to be considered, or that of its parts. In the first, regard must be had to the quality, temperature, and falsity of the air; to the quality of the soil; to the convenience of water, fuel, carriage, &c. and to the agreeableness of the prospect. To which may be added a political precept or caution, by no means to build too near a great neighbour; for in that case, says the above-mentioned celebrated architect, you would be as unfortunately seated on earth as Mercury is in the heavens, for the most part ever in combustion, or obscurity, under brighter-beams than his own. As to the situation of the parts, the chief rooms, studies, and libraries, should lie towards the east; those offices which require heat, as kitchens, brew-houses, bake-houses, and distillatories, towards the south; those which require a cool fresh air, as cells,
lars, pantries, granaries, to the north; as also galleries for paintings, museums, &c. which require a steady light. The ancient Greeks and Romans generally situated the fronts of their houses towards the south; but the modern Italians vary very much from this rule. And indeed, as to this matter, regard must still be had to the country, each being obliged to provide against its own inconveniences. The situation being fixed on, the next thing to be considered is the work itself, under which come first the principal parts, and next, the accessories or ornaments. To the principals belong the materials, and the form or disposition. As for the materials, they are either stone, as marble, freestone, brick for the walls, mortar, &c. or of wood, as fir, cypresses, cedar for pillars of upright uses, oak for fummers, beams and copes-work, or for joining and connection. See the articles Brick, Mortar, Summers, Beams, &c.

As to the form and disposition of a building, it is either simple or mixed. The simple forms are either circular, or angular.

The circular form is very commodious, and the most capacious of any, strong, durable, and very beautiful; but is the most chargeable of all others, and much room is lost by the bending of the walls, when it comes to be divided into apartments; besides an ill distribution of the light, unless it be from the center of the roof. For these reasons, the antients employed this form only in their temples and amphitheatres, which had no need of compartments.

As for angular forms, building neither loves many nor few angles. The triangle is condemned above all others, as wanting both capaciousness and firmness, as also on account of its not being resolvable in the internal partitions, into any other figure than its own. Buildings with five, six, or more angles, are more fit for fortifications than civil edifices. The rectangle, therefore, is generally chosen, as being a medium between the triangle and a pentagon, &c. But then authors are in dispute, whether the rectangle should be an exact square, or an oblong; and Sir H. Wotton prefers the oblong, provided the length exceeds not the breadth by more than one third. As to mixed forms, partly circular, and partly angular, a judgment may be made of them, from what has been already said.

of simple ones. Let the builder, however, remember not to lose light of uniformity, while he is in pursuit of variety; for these two may be very well reconciled, as may be observed in our bodies, which are uniform in the whole configuration; and yet some of the members are round, others flat; some prominent, and others indented, or retired.

Some observe, that in building houses long, the use of some rooms will be lost; as they will take up more for entries and passages, and will require too much for doors; and if the building be a geometrical square, the middle rooms will want light, in case the house be pretty large; and therefore they recommend the form of the letter H, a form, say they, in which the building stands firm against the weather, and in which the offices may be remote from the parlour, and rooms of entertainment, and yet in the time house.

This figure may serve very well for a country gentleman's house. The principal parts of a building, are comprised by Baptista Alberti, under five heads, viz. the foundation, the walls, the apertures, the compartments, and the covering; the properties and uses of which, may be seen under the articles Foundation, Wall, Roof, &c. The accessories or ornaments of a building, are fetched from sculpture and painting. In the first, care ought to be taken that there be not too much of it, especially at the entrance; and that both in fine and coarse pieces of sculpture, and likewise in placing figures aloft, the rules of perspective be strictly observed.

In painting, the chief things to be regarded are, that the best pieces be placed in the best lights, and that they be suited to the intention of the rooms they are used in.

If we compare the modern with the old way of building in England, we cannot but wonder at the genius of those times. Our fore-fathers were wont to dwell in houses most of them with a blind stair-case, low ceilings, and dark windows; the rooms built at random, without any contrivance, and often with steps from one to another; whereas the genius of our times requires light stair-cases, fine sash-windows, and lofty ceilings, with conveniences far superior to those that houses in ancient days afforded upon an equal quantity of ground.

The greatest objection against our houses, especially...
especially in the city of London, is that they are so slight, on account of the fines exacted by the landlords; but then this manner of building is very much to the advantage of such trades as have relation to builders; for, they scarce ever want work in a city where they are always either repairing or rebuilding.

The following general rules to be observed in building, were established by act of parliament, before the rebuilding of the city of London after the fire. 1. In every foundation within the ground, there must be added one brick, in thickness, to the thickness of the wall next the foundation to be let off, in three courses equally on both sides. 2. No timber must be laid within twelve inches of the foreside of the chimney jauntys. 3. That all joists on the back of any chimney, be laid with a rimmer at six inches distance from the back. 4. That no timber be laid within the funnel of any chimney, upon penalty of ten shillings to the workman, and ten shillings every week it continues unrefomed. 5. That no joists or rafters be laid at greater distances from one to the other, than twelve inches; and no quarters at greater distance, than fourteen inches. 6. That no joists bear at longer length than nine feet. 7. That all roofs, window-frames, and cellar-floors, be made of oak. 8. That the tile-pins be made of oak. 9. That no summers or girders in brick-buildings, do lie over the heads of doors or windows. 10. That no summers or girders do lie less than ten inches into the brickwork; nor no joists less than eight inches, and that they be laid in loam.

Dr. Fuller gives us some good aphorisms in building, as, 1. Let not the common rooms be severable, nor the several rooms common; that is, the common rooms are not to be private or retired, as the hall, galleries, &c. which are to be open; and the chambers, closets, &c. to be retired. 2. As to capaciousness, a house had better be too little for a day, than too big for a year, and therefore to be proportioned to ordinary not extraordinary occasions. 3. As for strength, country houses must be substantious, able to stand of themselves; not like city buildings, supported and flanked by those of their neighbour on each side. 4. As for beauty, let not the front look alike a stranger, but accost him right at his entrance. 5. Let the offices keep their due distance from the manor-house; those are too familiar which presume to be of the same pile with it.

Section of a Building. See Section.

BUL, in the ancient Hebrew chronology, the eighth month of the ecclesiastical, and the second of the civil year; it has since been called Marthevan, and answers to our October.

Bul is also a name sometimes used for the common flounder.

BULAC, a town of Egypt, situated on the eastern shore of the river Nile, about two miles west of Grand Cairo, of which it is the port-town, and contains about four thousand families: east long. 32°, and north latitude 35°.

It is a place of great trade, as all the vessels, going up and down the Nile, make some stay here; it is also in this place that they cut the banks of the Nile every year, in order to fill their canals, and overflow the neighbouring grounds, without which the soil would produce neither grain nor herbage.

BULÃFO, a musical instrument consisting of several pipes of wood, tied together with thongs of leather so as to form a small interstice between each pipe. It is used by the negroes of Guinea.

BULB, or Bulbous root, in the anatomy of plants, expresses a root of a round or roundish figure, and usually furnished with fibres at its base.

Bulbous roots are laid to be solid, when composed of one uniform lump of matter; tincuted, when formed of multitudes of coats, surrounding one another; squamole, when composed of, or covered with lesser flakes; duplicate, when there are only two to each plant; and aggregate, when there is a congeries of such roots to each plant.

BULBINE, in botany, the same with the anthericum. See Anthericum.

BULBOCASTANUM, in botany, a genus of plants called by Linnaeus bunium. See the article Bunium.

BULBODICUM, in botany, a genus of the hexandria-monogyne class of plants, the flower of which consists of six petals of a funnel-form; the fruit is a triangular acuminate capsule, with three cells, containing numerous seeds. The root of this plant, according to Lemer, is purgative and appetitive; but Ray says it is emetic, and hurtful to the nerves. Mr. Herman says, the bruised leaves are good for an erysipelas.

BULBOSE
BULBPOSE, or BULBOUS. See the article BULB.

BULCARD, in ichthyology, the English name of the alua da non crijata, or blennius with the upper jaw lowest, and top of the head acuminated.

BULEUTÆ, BULSOUS, in grecian antiquity, were magistrates, answering to the decuriones among the Romans. See the article DECURIO.

BULGAR, the capital of the province of Bulgar, in Russia, situated on the river Wolga: east longitude 51°, and north lat. 54°.

BULGARIA, a province of Turkey in Europe, bounded by the river Danube, which divides it from Wallachia and Moldavia on the north; by the Black sea, on the east; by Romania, on the south; and by Servia, on the west. Its chief city is Nicopolis.

BULGARIAN LANGUAGE, the same with the Slavonic. See SLAVONIC.

BULIMY, a disease in which the patient is affected with an intemperate and perpetual desire of eating; and, unless he is indulged, he often falls into fainting fits. It is also called fames canina, canine appetite.

It must be observed, however, that some make a distinction between bulimy and fames canina; namely, that in the fames canina the patient is taken with vomiting, as dogs are after eating a too great quantity of food; though some are seized with a flux of the belly instead of vomiting, nature discharging that way the superfluity of aliment, which the stomach was incapable of digesting; but that the bulimy is attended with a lipothymy, and not with vomiting.

A bulimy arises from a too contractile force of the muscular coat of the stomach, or from very sharp humors contained in it. In some, the right mouth of the stomach has been found too large, after death, and consequently the aliment was expelled too soon.

As to the therapeutic part, in order to subdue the contractile force of the stomach, it is necessary to use oils and fat things, as fat meat, pork, hot bread and butter, likewise milk and lactisnia, especially compositions of meal and milk, rice, millet, barley, buck-wheat, beans, peas, lentils, almonds, and the like; as also chocolate made with milk and sweetened with sugar. If these are insufficient, opiates must be added, particularly a dram of theriaca in the evening.

If the bulimy proceeds from sharp humors irritating the stomach, the most rational method of cure is to evacuate such humour, or correct its acrimony, and then to restore the stomach, and the organs employed in digestion, to their natural tone and state, that no more may be generated. Abiortions may be added to the former things; and if an acid is in fault, thirty or forty drops of oil of tartar per daciaium, will be proper, and alkalis in general, especially filings of steel, taken in large doses. Brandy taken in the morning, and frequent smoking tobacco, have likewise proved beneficial to some.

BULITHUS, BULSOUS, a stone found either in the gall-bladder, or in the kidneys and bladder of an ox: hence appears the error of Aristotle, who pretended that man alone was afflicted with the stone.

BULK, or BIP, the whole content in the hold for the flowage of goods.

BULKHEADS are partitions made athwart the ship, with boards, by which one part is divided from the other; as the great cabin, gun-room, bread-room, and several other divisions. The bulk-head afore is the partition between the forecastle and gratings in the head.

Breaking Bulk. See Breaking.

BULL, TAURUS, in zoology, the male of the ox-kind, which being castrated is called an ox. See the article Bos.

A bull, kept for breeding, ought to be gentle, of a middle age, of a black or red colour, and of a sharp quick countenance; his forehead should be broad and curved, his hair smooth like velvet, his eyes black and large, his horns long, his neck fleshy, his breasts big, his back straight and flat, his buttocks square, his belly long and large, his legs short, and his joints short. Such a bull is said to produce strong and fine cattle, and especially oxen fit for draught. One bull will serve fifty, some fifty or sixty cows; but then he must be young, or only two or three years old.

BULL, Taurus, in astronomy. See the article TAURUS.

BULL'S-EYE, in astronomy. See the article ALDEBARAN.

BULL'S-EYE, among seamen, a small, obscure, sublime cloud, ruddy in the middle, that sometimes appears to mariners, and is the immediate forerunner of a great storm at sea.

Lee 2 BULL-FINCH,
BUL

BULL-FINCH, in ornithology, the English name of the *buxia* with a black head and a red breast. It is about the size of the common sparrow, and its wings are elegantly variegated with black and red. See plate XXXIII. fig. 3.

BULL-FOG, in zoology, the largest kind of frog. See the article RANA.

BULL-HEAD, in ichthyology, the English name of the smooth *cotto* without scales, having two spines on the head.

BULL-TROUT, a fresh-water fish, otherwise called a lucrf.

BULL, among ecclesiastics, a written letter, dispatched by order of the pope, from the Roman chancery, and sealed with lead, being written upon parchment, by which it is partly distinguished from the Roman chancery, and is chiefly in use in matters of Tarquinian with the praetexta to his fon, who had, with his own hand, at fourteen years of age, killed an enemy. Thus we find the bulla was a sign of triumph. Macrobius relates, that the children of freed men were allowed to wear the praetexta, and, instead of the golden bulla, a leathern one, about their necks: those bullae were made hollow within to inclose amulets against envy, &c. When the youth arrived at fifteen years of age, they hung up their bullae about the necks of their gods Lares. We are farther informed, that the bullae were not only hung about the necks of young men, but of women also.

BULLÆ, in Roman antiquity, ornaments at first given only to the sons of noblemen; tho' afterwards they became of more common use. This ornament was first given by Tarquinius with the praetexta to his son, who had, with his own hand, at fourteen years of age, killed an enemy. Thus we find the bulla was a sign of triumph. Macrobius relates, that the children of freed men were allowed to wear the praetexta, and, instead of the golden bulla, a leathern one, about their necks: those bullae were made hollow within to inclose amulets against envy, &c. When the youth arrived at fifteen years of age, they hung up their bullae about the necks of their gods Lares. We are farther informed, that the bullae were not only hung about the necks of young men, but of women also.

BULLACE-TREE, in botany, the English name of the *prunus filiciflata*, or wild plum-tree. See the article PRUNUS.

BULLEN, a term used by country people for hemp-stalks peeled.

BULLET, an iron or leaden ball, or shot, where with fire arms are loaded. See the article BALL.

Bullets are of various kinds, viz. red-hot bullets, made hot in a forge, intended to set fire to places where combustible matters are found. Hollow bullets, or shells made cylindrical, with an aperture and fusee at one end, which giving fire to the inside, when in the ground; it bursts, and has the same effect with a mine. Chain-bullets, which consist of two balls joined by a chain, three or four foot apart.

Branch-bullets, two balls joined by a bar of iron, five or six inches apart.

Two-headed bullets, called also angles, two halves of a bullet, joined by a bar or chain.

Gannon
Cannon bullets are of different diameters and weight, according to the nature of the piece: an English musquet carries a bullet of sixteen in a pound; a carbine, of twenty-four; and a pistoll of thirty-two in a pound; by which are to be understood ammunition caraines and pistolts. According to Marfenne, a bullet, flott out of a great gun, flies 92 fathoms in a second of time, being equal to 589½ English feet: but, according to some very accurate experiments of Mr. Derham, it only flies, at its firft discharge, 510 yards in five half seconds.

BULLIMONY, BULLIMONG, or BULL-MONG, BUCK-WHEAT, a kind of grain; also a medley of several sorts of grain together, as oats, peas, and vetches: it is also called maltin or mong-corn.

BULLING. There are many ways for it, but to make a cow take bull by milk, is done thus: let three pints of the milk of a cow that is bulling, be given to the cow that would be made to go to bull; then, if she be in good case, let the bull go to her, and she will be bulling in fix or eight days at the farthest, after that time.

BULLINGBROKE, in geography. See the article BOLINGBROKE.

BULLION, uncoined gold or silver in the mass.

Those metals are called so, either when smelted from the native ore, and not perfectly refined; or when they are perfectly refined, but melted down in bars or ingots, or in any unwrought body, of any degree of fineness.

When gold and silver are in their purity, they are so soft and flexible, that they cannot well be brought into any fashion for use, without being first reduced and hardened with an alloy of some other work metal.

To prevent these abuses, which some might be tempted to commit in the making of such alloys, the legislators of civilized countries have ordained, that there shall be no more than a certain proportion of a work metal to a particular quantity of pure gold or silver, in order to make them of the finenes of what is called the standard gold or silver of such a country.

According to the laws of England, all sorts of wrought plate in general, ought to be made to the legal standard; and the price of our standard gold and silver is the common rule whereby to set a value on their bullion, whether the same be in golds, bars, dust, or in foreign species: whence it is easy to conceive that the value of bullion cannot be exactly known, without being first assayed, that the exact quantity of pure metal therein contained, may be determined; and consequently whether it be above or below the standard.

Silver and gold, whether coined or uncoined (though used for a common measure of other things) are no less a commodity, than wine, tobacco, or cloth; and may, in many cases, be exported as much to the national advantage as any other commodity.

BULLITION, or Ebullition. See the article EBULLITION.

BULLOCK, the same with an ox, or gelded bull. See the article BULL.

BULLOCK'S-EYE, in architecture. See Eye.

BULLY-TREE, in botany, the English name of the chrysophyllum of authors. See the article CHRYSOPHYLLUM.

BULTEL, a term used to denote the refuse of meat after dressing, or the cloth wherein it is dressed, otherwise called bulter-cloth.

BULWARK, in the antient fortification, the same with rampart. See the article RAMPART.

BUMICILLI, a religious sect of maho-metans in Egypt and Barbary, who pretend to fight with devils, and commonly appear in a fright and covered with wounds and bruises. About the full moon they counterfeit a combat in the presence of all the people, which lasts for two or three hours, and is performed with affagiaus, or javelins, till they fall down quite spent; in a little time however, they recover their spirits, get up, and walk away.

BUN, the same with bullen. See the article BULLEN.

BUNCH, in a general sense, denotes a cluster of certain things, as of grapes.

Bunch is also used for a tumour or excrescence: such is that which grows on the backs of camels. See the articles TUMOUR and EXCRESCEENCE.

BUNCHEDE, in a general sense, something disfigured with a bunch or bunches.

BUNCHEDE CODS, or Pods, those that stand out in knobs, wherein the seeds are lodged.

BUNCHEDE ROOTS, all such as have knob or knots on them.

BUNG, denotes the plug, or stopple, fitted to the opening of a cask, called the bung-hole.
BUN [ 398 ] BUP

After tumming any fermented liquor, it is proper to leave the bung-hole open for sometime, otherwise the vessel would be in danger of bursting.

BUNGAY, a market-town of Suffolk, situated on the river Waveney, about thirty-two miles north-east of Bury: east lon. 1° 35', and north latitude 52° 35'.

BUNGO, or Bongo. See Bongo.

BUNIAS, in botany, a genus of the ter-gadynamio-filipogla class of plants, the flower of which consists of four petals in form of a cross; the fruit is an irregular pod with four sides, and terminated in sharp points, containing a roundish seed under each point. These seeds are said to be heating, drying, abstraying, aperitive, and digestive, and to be enemies to venery.

BUNDLE, a collection of things wrapped up together. Of baffe-ropes, harness-plates, and Glover's knives, ten make a bundle; of hamborg yarn, twenty skeans; of basket-rods, three feet about the band.

BUNIUM, the earth-nut, in botany, a genus of plants belonging to the pen-tandria-digynia class, the general flower of which is uniform, and the single flower consists of five inflexo-cordated equal petals: there is no pericarrium: the fruit is oval, and divisible into two parts; the seeds are two, and oval, convex on one side, and plane on the other.

BUNK, or Bunkin, in the materia medica. See the article Leucacantha.

BUNT of a fail, the middle part of it, formed designedly into a bag or cavity, that the fail may gather more wind. It is used mostly in top-fails, because courses are generally cut square, or with but small allowance for bunt or compass. The bunt holds much leeward wind, that is, it hangs much to leeward.

BUNT-LINES are small lines made fast to the bottom of the fails, in the middle part of the bolt-rope, to a cringle, and so are reeved through a small block, fixed to the yard. Their use is to trice up the bunt of the fail, for the better furling it.

BUNTING, in ornithology, the English name of the emberiza, a species of the fringilla. Its head somewhat resembles that of a rail; the chin, breast, and belly are of a yellowish white; the throat hath oblong black spots; the tail is more than three inches long, and of a dusky red colour: it sings sitting upon the highest twigs of trees and shrubs. See plate XXXIV. fig. 1.

BUNTLINGFORD, a market-town of Hertfordshire, about twelve miles north of Hertford: west long. 5° 4', and north lat. 51° 55'.

BUNTZLAU, or Buntzel, the name of two towns in Germany: the old town is situated on the river Elbe, and new town, which is become the most considerable, upon the Gizare, eight leagues from Lignitz, in 16° 26' east longitude, and 51° 12' north latitude. There is likewise a town of that name in Silesia.

BUONO, as tempo buono, in music, signifies a certain time or part of the measure, more proper for certain things than any other, as to end a cadence or pause, to place a long syllable or syncopated dissonance, concord, &c. In common time of four times to a bar, the first and third is one buono tempo, as the second and last are called tempo di cattiva.

BUOY, at sea, a short piece of wood, or a close-hooped barrel, fastened so as to float directly over the anchor, that the men, who go in the boat to weigh the anchor, may know where it lies.

BUOY is also a piece of wood, or cork, sometimes an empty cask, well closed, swimming on the surface of the water, and fastened, by a chain or cord, to a large stone, piece of broken cannon, or the like, serving to mark the dangerous places near a coast, as rocks, shoals, wrecks of vessels, anchors, &c.

There are sometimes, instead of buoys, pieces of wood placed in form of masts, in conspicuous places; and sometimes large trees are planted in a particular manner, in number two at least, to be taken in a right line, the one hiding the other, so as the two may appear to the eye no more than one.

Stream the Buoy is to let the anchor fall while the ship has way.

To Buoy up the cable is to fasten some pieces of wood, barrels, &c. to the cable, near the anchor, that the cable may not touch the ground, in case it be foul or rocky, lest it should be frettled and cut off.

BUOYANT, something which, by its aptness to float, bears up other more ponderous and weighty things. See Buoy.

BUPHTHALMUM, ox-eye, in botany, a genus of the fingenedia-polygma-superflu class of plants of Linneas, comprising the aftericus and afterides of Turquefort: the compound flower is large, radiated, and reddish on the backside, but white within: the seeds are soli-
bury, with the sides thereof margined, and contained in the cup; the proper hermaphrodite flower is infundibuliform, patulous, and divided into five segments at the limb. See plate XXXIV. fig. 2.

BUPHTHALMUS, in botany, a name sometimes used for the common great house-leek. See the article SEDUM.

BUPLEUROIDES, in botany, the name by which Boerhaave calls the phyllis of Linnaeus. See the article PHYLLIS.

BUPLEURUM, HARE'S-EAR, in botany, a genus of the pentandria-digynia class of plants, the general flower of which is uniform; the proper one consists of five small corollated petals, bent inwardly: the fruit is round, compressed, frigated, divisible into two cells, containing ovato-oblong frigated seeds, convex on the one side, and plane on the other.

BUQUOI, a town of Artois, in the French Netherlands, situated on the confines of Picardy: east longitude 2° 40', and north latitude 50° 12'.

BUR, a broad ring of iron, behind the place made for the hand on the fpears used formerly in tilting, which bur was brought to rest, when the tilter charged his spear.

BURBAS, in commerce, a small coin at Algiers, with the arms of the day strung on both sides: it is worth half an asper.

BURCHAUSEN, a town of Germany, in the lower Bavaria, situated on the river Salz, in 43° 25' east longitude, and 48° 5' north lat.

BURDEN, in a general sense, a load or weight, supposed to be as much as a man, a horse, &c. can well carry: also any troublesome affair, or difficulty in life, &c.

Burden, or Burdon, in music, the drone or bass, and the pipe or string which plays it: hence that part of a song, that is repeated at the end of every stanza, is called the burden of it.

A chord which is to be divided, to perform the intervals of music, when open and undivided, is also called the burden.

Burden of a ship is its contents, or number of tons it will carry. The burden of a ship may be determined thus: multiply the length of the keel, taken within board, by the breadth of the ship, within board, taken from the midship-beam, from plank to plank, and multiply the product by the depth of the hold, taken from the plank below the keelson, to the under part of the upper-deck plank, and divide the last product by 94; then the quotient is the content of the tonnage required. See the article FREIGHT.

BURDINES, in geography. See the article BOURDINES.

BURDO, that kind of mule produced between a horse and a she-ass. See MULE.

BURDOCK, in botany, the English name of the segetum of authors.

BURDUGNO, a town of the Morea, situated on the river Vasilipotonno, near Militra.

BURDUNCULUS, in botany, a kind of bugle-leek, with a head like that of the cardus benedictus.

BUREN, a town of Dutch Guelderland, about sixteen miles west of Nimygeen: east lon. 5° 50', and north lat. 52°.

Buren is also the name of a town of Westphalia, in Germany, about five miles south of the city of Paderborn: east lon. 5° 2', and north latitude 51° 35'. It gives the title of earl to the noble family of Beaumerc.

BURG, a town of Zutphen, in the Dutch Netherlands, situated upon the old IJssel, about eighteen miles east of Nimygeen: east lon. 6° 10', and north lat. 52°.

BURGA, a cape of Algiers, in Africa, running out into the Mediterranean sea.

BURGAGE, an antient tenure in boroughs, whereby the inhabitants, by custom, hold their lands, &c., of the king, or other superior lord of the borough, at a certain yearly rent: also a dwelling house in a borough, was antiently called a burgage.

BURGEON, a term used by gardeners in the same sense with bud. See the article BUD.

BURGES, an inhabitant of a borough, or one who possesses a tenement therein.

In other countries, burges and citizen-are confounded together; but with us they are distinguished: the word is also applied to the magistrates of some-towns. Burges is now ordinarily used for the representative of a borough-town in parliament.

BURGRAVE properly denotes the hereditary governor of a castle or fortified town, chiefly in Germany.

BURGH, a term denoting the same with borough. See the article BOROUGH.

BURGH-BOTE signifies a contribution towards the building or repairing of castles, or walls, for the defence of a borough, or city.

BURGH-BRECHE is properly the breaking open a burgh, house, enclosure, &c. and
BURGUNDY, or BURGOIRE. See the article BURGOMASTER. BURGUNDY, or BURGOYNE, a province, or government, in France, having Champaign on the north, and Dauphine on the south.

BURIAL, the interment of a deceased person. The rites of burial mark the greatest and most necessary care, being looked upon in all countries, and at all times, as a debt so sacred, that such as neglected to discharge it were thought accursed; hence the Romans called them juris, and the Greeks θυμος, θυσια, θυσια, &c. words implying the inviolable obligations which nature has laid upon the living, to take care of the obsequies of the dead. Nor are we to wonder, that the ancient Greeks and Romans were extremely solicitous about the interment of their deceased friends, since they were strongly persuaded, that their souls could not be admitted into the elyian fields till their bodies were committed to the earth; and if it happened that they never obtained the rites of burial, they were excluded from the happy mansions, for the term of an hundred years. For this reason it was considered as a duty incumbent upon all travellers who should meet with a dead body in their way, to cast dust or mould upon it three times, and of these three handfuls, one at least was cast upon the head. The antients likewise considered it as a great misfortune if they were not laid in the sepulchres of their fathers; for which reason, such as died in foreign countries had usually their ashes brought home, and interred with those of their ancestors. But notwithstanding their great care in the burial of the dead, there were some persons whom they thought unworthy of that last office, and to whom therefore they refused it: such were, 1. Public or private enemies. 2. Such as betrayed, or conspired against their country. 3. Tyrants, who were always looked upon as enemies to their country. 4. Villains guilty of sacrilege. 5. Such as died in debt, whose bodies belonged to their creditors. And, 6. Some particular offenders, who suffered capital punishment. Of those who were allowed the rites of burial, some were distinguished by particular circumstances of disgrace attending their interment: thus persons killed by lightening were buried apart by themselves, being thought odious to the gods; those who wasted their patrimony, forfeited the right.
right of being buried in the sepulchres of their fathers; and those who were guilty of self-murder were privately deposited in the ground, without the accustommolemnities. Among the Jews, the privilege of burial was denied only to self-murderers, who were thrown out to rot upon the ground. In the christian church, though good men always desired the privilege of interment, yet they were not, like the heathens, so concerned for their bodies, as to think it any detriment to them, if either the barbarity of an enemy, or some other accident, deprived them of this privilege. The primitive christian church denied the more solemn rites of burial only to unbaptized persons, self-murderers, and excommunicated persons who continued obdurate and impenitent, in a manifest contempt of the church's censures.

The place of burial among the Jews was never particularly determined. We find they had graves in the town and country, upon the highways, in gardens, and upon mountains. Among the Greeks, the temples were made repositories for the dead in the primitive ages, yet the general custom in later ages, with them, as well as with the Romans and other heathen nations, was to bury their dead without their cities, and chiefly by the highways. Among the primitive christians, burying in cities was not allowed for the first three hundred years, nor in churches for many ages after, the dead bodies being first deposited in the atrium or church-yard, and porches and porticos of the church: hereditary burying-places were forbidden till the twelfth century. As to the time of burial, with all the ceremonies accompanying it, see the article Funerary rites.

BURICK, a town of the duchy of Cleves, in the circle of Westphalia, in Germany, situated on the river Rhine, about twenty miles south of Cleves: east long. 6° 6', and north latitude 51° 35'.

BURLESQUE, a jocose kind of poetry, chiefly used in the way of drollery and ridicule, to deride persons and things. F. Vavasor maintains, in his book De ludicra dictione, that burlesque was altogether unknown to the antients, but others are of a different opinion. We even find that one Raintovius, in the time of Ptolemy Lagus, turned the serious subject of tragedy into ridicule; which is perhaps a better plea for the antiquity of farce, than of burlesque.

Vol. L

The Italians seem to have the justest claims to the invention of burlesque: the first of this kind was Bernia; who was followed by Lalli, Caporali, &c. From Italy it passed into France, and became there so much the more, that, in 1649, there appeared a book under the title of The passion of our Saviour, in burlesque verse. From thence it passed into England, where some have excelled therein.

BURLINGTON, a sea-port town, in the east riding of Yorkshire, situated on the german ocean, about thirty-seven miles north-east of York: east long. 10°, and north latitude 54° 15'. It gives the title of earl to a branch of the noble family of Boyle.

New Burlington, the capital of New-Jersey, in north America; situated in an island of Delawar river, about twenty miles north of Philadelphia: west long. 74°, and north lat. 40° 40'.

Burmannia, in botany, a genus of the hexandria-monogynia class of plants, the flower of which is very small, consisting of three very small, ovated, oblong petals, situated at the mouth of the cup; the fruit is an involuted capsule of a cylindraceo-trigonal figure, formed of three valves, with three cells, containing numerous very small seeds.

Burn, in medicine and surgery, an injury received in any part of the body, either by fire itself, or by instruments put in a violent heat by the fire.

When any thing of this nature is applied to the body, the fibres and small vessels of the parts that are touched by it, will instantly corrugate and burst: whilst the blood and other contained fluids will be extravasated, flagellate, and corrupt: but as the burns caused by solid bodies, are always attended with more grievous consequences, than those which are occasioned with boiling liquors, so the mischief is universally proportioned to the degree of vehement in the burn: we may therefore divide burns into four degrees: the first and lightest is that which occasions heat, pain, and a small vesication of the injured part, in a short time. The second degree is, when the part is instantly affected with great pain and vesication. The third is when the common integuments and subjacent flesh are so burnt, that they form a crust. The fourth is, where every thing is destroyed quite down to the bone. The third degree resembles a gangrene, and the fourth a phacelus: whence it follows, that burns

FF

very
very much resemble inflammations, and are known, in their respective degrees, by nearly the same signs.

As a burn is not unlike an inflammation, in regard to degrees, so the method of cure in both is much the same. When there happens a slight burn, or one of the first degree, the most proper medicines, on all accounts, are resolvents, of which there are two kinds principally to be observed, the astringent and the emollient. Mild astringents are spirit of wine rectified, or camphorated: let the part affected be immersed in this spirit, and carefully fomented with linen cloths wet therein. Emollients are of linseed, or sweet almonds, or olives, of white lillies, or hembané, &c. with these the part affected should be frequently anointed. The vulgar method of applying the burnt part to a candle, or the fire, and keeping it in that position as long as you can bear it, repeating this process till all sort of heat and pain is removed, is frequently attended with success. The injured part may be fomented with water, as hot as the patient can bear it, till the pain and heat entirely disappear.

When the burn is of the second degree, which is attended with a blister, it seems improper to open the vehicle, or cut the skin already lacerated; but the best method, in this case, is, with all the haste possible, to apply one or other of the medicines preferred in the first degree, and renewing it very frequently: if the pain continues, lenitive remedies are to be used; here the most eligible medicines are the linseed oil, Myntich's ointment, ungüettum nutritum, &c. with these the part must be often anointed; or they must be spread on linen, and bound to the part affected: as the pain and heat gradually decrease, some plasters, as that of red lead, may be applied, in order to smooth and restore the skin. If this second degree be more intense than ordinary, and affects a great part of the body, it will be necessary forthwith to take away some blood, in proportion to the violence of the burn, even till the patient faints, in order to prevent exulcerations, deformities by seams, and perhaps a gangrene: after which a strong cathartic should be used.

As to the third degree, in which a crust immediately covers the burnt part, it is very difficult, if not absolutely impossible, to cure it, without a suppuration. When this happens in the face, all diligence should be used to prevent deformity, which may be occasioned by a large cicatrix; therefore, in this case, the use of all plasters and ointments whatsoever is to avoided: but you cannot be too solicitous in forwarding the casting off of the eschar, or crust, and the evacuation of the matter that is concealed under it; yet it should not be torn away with the knife, nor separated with the hands: the easiest and most successful method is, by the use of emollients, such as have been mentioned already, applied warm, and repeated till the hard crusts separate from the live flesh; the part should be dressed two or three times a day, and at each dressing, if you should observe any portion of the crust tending to a separation from the rent, it should be removed with the forceps, and the remaining crust anointed with butter, at the same time being never neglectful of the use of fomentations. The crust being taken off, the wound must be cleansed and healed, the first of which offices may be executed by any mild digestive ointment, mixed up with mel roforum: the medicines used for healing, are principally unguentum diapompholygos, vel de lithargyrio, &c. but if any portion of the eschar is left under these ointments and plasters, a danger follows of making a deformed cicatrix, from the contraction of the neighbouring parts, and from the acrimony of the confined sanies. Evacuations by bleeding and purging are always to be premised, and proper regulations, with regard to diet, must be complied with: the best method of encouraging the renovation of the skin, is by frequently holding the burnt part over the steam that rises from boiling water. But as to the fourth degree, which is always attended with extreme danger, where the burning has penetrated to such a depth, as to corrupt and mortify all before it, almost to the very bone, all remedies are vain and useless, and there is no other way of affisting the patient, but by cutting off the affected limb, as is done in a phæclus.

BURNET, in botany, the English name of the *sanguisorba* of botanical writers. See the article SANGUISORBA.

BURNET-SAXIFRAGE, or PIMPERNEL-SAXIFRAGE, names sometimes used for the *tragoëlinum*. See TRAGOSELINUM.

BURNHAM, a market-town of Norfolk, about twenty-five miles north-west of Norwich: east long. 50°, and north lat. 53°.
BURRING, the act of fire on some \textit{pabulum}, or fuel, by which the minute parts
thereof are torn from each other, put
into a violent motion, and some of
them assuming the nature of fire them-
selves, fly off in \textit{orbem}, while the rest are
dissipated in form of vapour, or reduced
to ashes. See the articles \textit{Fire}, \textit{Vapour},
\textit{Smoke}, \textit{Ashes}.

BURNING, or \textit{Brenning}, in our old cus-
toms, denotes an infectious disease,
got in the stews by conversing with lewd
women, and supposed to be the same with
got in the stews, who was dean of
antient Greeks and Romans, and
"Weston," thus:

\textit{SMOKE, ASHES.}

In a manuscript of the vocation of John
Bale, to the bishopric of Oxford, written
by himself, he speaks of Dr. Hugh Wef-
ton, who was dean of Windsor, in 1556,
but deprived by cardinal Pole for adul-
tery, thus: "At this day is lecherous
Wefton, who is more practised in the
arts of breech-burning, than all the
whores of the stews. He not long
ago brent a beggar of St. Botolph's
parish." See the article \textit{Stews}.

BURNING, in antiquity, a way of dispo-
ing of the dead, much practised by the
antient Greeks and Romans, and still re-
tained by several nations in both the East
and West Indies.

Eutychius assigns two reasons why burn-
ing came to be of so general use in Greece;
the first is, because bodies were thought
to be unclean after the soul's departure,
and therefore were purified with fire.
The second reason is, that the soul being
separated from the gross and unactive
matter, might be at liberty to take its
flight into heaven. The body was rarely
burnt without company, for besides the
various animals they threw upon the pile,
we seldom find a man of quality confumed
without a number of slaves and captives,
which, in barbarous times, they used to
murder for that purpose; and in some parts
of the East Indies it is customary, at this
day, for wives to throw themselves into the
funeral pile with their deceased husbands.

At the funerals of emperors, generals,
&c. who had their arms burnt with them,
the soldiers made procession three times
round the funeral pile with hounds and
trumpets, to express their respect to the
dead. During the burning also, the dead
peron's friends stood by, called on the
deceased, and poured out libations of
wine, with which, when the pile was
burnt down, they extinguished the re-
 mains of the fire; and having collected
the bones of the deceased, washed them
with wine, and anointed them with oil.
When the bones were discoverd, they
gathered the ashes that lay close to them,
and both were repos'd in urns, either
of wood, stone, earth, silver, or gold,
according to the quality of the deceased.
See the article \textit{URN}.

BURNING, among surgeons, denotes the
same with cautery. See the article
\textit{Cauterization}.

BURNING is much practised by the people of
the East-Indies, particularly those of
Japan, who use the moxa for this pur-
pose. See the article \textit{Moxa}.

BURNING is also an appellation given to
several diseases, on account of the great
heat with which they are attended: thus
we say, a burning fever, &c. See the
articles \textit{Fever} and \textit{Causus}.

BURNING-ALIVE, in roman antiquity, a
punishment inflicted upon such as de-
ferred to the enemy, or divulged the se-
crets of the public, coiners of false
money, incendiaries; and christians under Nero,
were likewise burnt alive.

BURNING-GLASS, a convex or concave
glass, commonly spherical, which being
exposed directly to the sun, collects all
the rays falling thereon into a very small
space, called the focus; where wood, or
any other combustible matter being put,
will be set on fire.

The convex burning-glasses, transmit the
rays of light, and in their passage, re-
fract or incline them towards the axis;
keeping the property of lenses, and act-
ing according to the laws of refraction.
The concave burning-glasses, very im-
properly so called, being usually made of
metal, reflect the rays of light, and in
that reflection incline them to a point in
their axis; having the property of mir-
rors, and acting according to the laws of
reflection. See \textit{Lens}, \textit{Refraction},
\textit{Mirror}, \textit{Reflection}.

In order to account for the nature of
burning-glasses, whether mirrors or len-
es, we must consider the area of their
surfaces, and the focal distance, because
both these quantities enter into the ex-
pression of their power of burning. Let
A B and I K (plate XXXV. fig. 3.) be
two mirrors exposed directly to the rays
of the sun C D, E F, and L M, N O ;
then will all the rays falling on the sur-
face of these mirrors be reflected to the
focus of the glasse, where they will be
centered, not in a point of space, but
into a small round circular area G H and
P Q. Now this circular spot, is the
\textit{fig. 2} image
The most remarkable burning-glasses, or rather mirrors, among the antients, were those of Archimedes and Proclus; by the first of which the roman ships, besieging Syracuse, according to the testimony of several writers, and by the other, the navy of Vitian besieging Byzantium, were reduced to ashes. Among the moderns, the burning mirrors of greatest eminence, are those of Settala, of Villette, and Tichirnhausen, and the new complex one of Mr. de Buffon. That of Mr. Villette, was three feet eleven inches in diameter, and its focal distance was three feet two inches. Its substance is a composition of tin, copper, and tin-glass. Some of its effects, as found by Dr. Harris and Dr. Defagulliers, are, that a silver sixpence, melted in \( \frac{1}{2} \)", a king George's halfpenny melted in \( 1^{6}° \), and ran in 34", tin melted in \( 3^{2}° \), and a diamond weighing 4 grains, lost \( \frac{1}{7} \) of its weight.

That of Mr. de Buffon is a polyedron, six feet broad, and as many high, consisting of 168 small mirrors, or flat pieces of looking-glasses, each six inches square; by means of which, with the faint rays of the sun in the month of March, he set on fire boards of beech wood at 110 feet distance. Besides, his machine has the convenience of burning downwards, or horizontally, as one pleases; each speculum being moveable, so as, by the means of three screws, to be set to a proper inclination for directing the rays towards any given point; and it turns either in its greater focus, or in any nearer interval, which our common burning-glasses cannot do, their focus being fixed and determined. Mr. de Buffon, at another time, burnt wood at the distance of 200 feet. He also melted tin and lead, at the distance of above 120 feet, and silver at 50.

Those who are curious to have a description of that of M. Tichirnhausen, with an account of its powers, may consult the history of the academy of sciences, ann. 1699.

Burning-Mountains, the fame with volcanos. See the article Volcano.

Burning of colours, among painters. There are several colours that require burning, as sift, lamp-black, which is a colour of so great a nature, that except it is burnt, it will require a long time to dry.

The method of burning, or rather drying, lamp-black, is as follows: put it into
BUR [ 405 ]

BURN, for a crucible over a clear fire, letting it remain till it be red hot, or to near it, that there is no manner of smoke arises from it.

Secondly, umber, which if it be intended for colour for an horse, or to be a shadow for gold, then burning fits it for both these purposes.

In order to burn umber, you must put it into the naked fire, in large lumps, and not take it out till it is thoroughly red hot; if you have a mind to be more curious, put it into a crucible, and keep it over the fire till it be red hot.

Ivory also must be burnt to make black, thus: fill two crucibles with shavings of ivory, then clap their two mouths together, and bind them fast with an iron wire, and lute the joints close with clay, salt, and horie-dung, well beaten together; then let it over the fire, covering it all over with coals: let it remain in the fire, till you are sure that the matter inclosed is thoroughly red hot: then take it out of the fire; but do not open the crucibles till they are perfectly cold; for were they opened while hot, the matter would turn to ashes; and so it will be, if the joints are not luted close.

BURNING of land, for corn. This art usually called denfiring, or burnbeating, is not applicable or necessary to all sorts of lands, but that which is barren, four, heathy, and roughy; be it either hot or cold, wet or dry; insomuch, that most of them will yield, in two or three years after such burning, more above charges than the inheritance was worth before.

The common method for it is with a brest-plough to pare off the turf, turning it over; as it is cut, that it may dry, the better, which in a hot fenton is not necessary. When the turfs are dry, they must be laid in small heaps, about two wheel-barrow loads together: if the turf does not burn without any additional fuel, the heap should be raised on a small bundle of ling, gois, fern, or the like, that it may let the whole on fire: when they are reduced to ashes, they should lie till they are fodder with rain, before they are spread. Care must be taken that the turf be not over burnt; for if it be reduced to white ashes, the nitrous falt will be wafted.

The ground under hills must be pared somewhat lower than the surface of the earth, to abate the too abundant fertility caufed by the fire there: the land should be ploughed shallow only, and not above half the usual quantity of seed fown, which also should be late of the year; if wheat, towards the end of October, to prevent the excessive ranknefs of the corn.

BURNISHER, a round, polished piece of fleel, serving to smooth and give a luftre to metals.

Of these there are different kinds of different figures, ftrait, crooked, &c. Half burnilhers are used to folder silver, as well as to give a luftre. See the article SOLDERING.

BURNISHING, the art of smoothing or polishing a metalline body, by a brisk rubbing of it with a burnisher. See the article BURNISHER.

Book-binders burnifh the edges of their books, by rubbing them with a dog's tooth. Gold and silver are burnifh'd, by rubbing them with a wolf's tooth, or by the bloody stone, or by tripoli, a piece of white wood, emery, and the like. Deer are faid to burnifh their heads, by rubbing off a downy white skin from their horns, againft a tree.

BURNLEY, a market-town of Lancashire, about twenty-seven miles south-east of Lancaster: long. 5° 5', and north lat. 51° 49'.

BURNT, something that has undergone the operation of burning: thus we lay, burnt alum, burnt lead, burnt wine, &c. See the articles ALUM, &c.

Burnt bodies are not only dry and attrin-gent, but lofe a great deal, if not all their other medicinal virtues.

BURR, the round knob of a horn next a deer's head.

BURRE, BOURRE, or BOREE, a kind of dance composed of three steps joined together in two motions, begun with a crochet rising. The first couplet contains twice four meafures, the second twice eight. It confifts of a ballance and coupee.

BURREGREG, a considerable river of the kingdom of Fez, in Africa; which taking its rife in the Atlas-mountains, falls into the ocean not far from the straits of Gibraltar.

BURR-PUMP, or BILDEGE-PUMP, differs from the common pump, in having a staff 6, 7, or 8 feet long, with a bar of wood, whereto the leather is nailed, and this serves instead of a box. So two men, flanding over the pump, thrust down this staff, to the middle whereof is faftened a rope, for 6, 8, or 10 to fall by, thus pulling it up and down.

BURROCK, a small wier or dam, where wheels are laid in a river, for the taking of fish.

BURROW,
BURROW, or BOROUGH. See the article BOROUGH.

BURROWS, holes in a warren, which serve as a covert for hares, rabbits, &c.

BUSA, or PUSA, in geography, the capital of Bithinia, in Asia Minor, situated in a fine fruitful plain, at the foot of mount Olympus, about an hundred miles south of Constantinople: east long. 29°, north lat. 40° 30'.

BUSA-PASTORIS, SHEPHERD'S-PURSE, in botany, a distinct genus of plants, according to Tournefort, but comprehended by Linnaeus under the thalpli.

BUSA-PASTORIS-MINOR, a name sometimes given to the draba of Linnaeus.

BURSAR, in a general sense, signifies a treasurer or purse-keeper, especially in a monastery.

BURSARS, in the Scotch universities, are youths chosen as exhibitors, and maintained for the space of four years at the rate of 100L. per annum, Scots.

BURSE, in a commercial sense, a place for merchants to meet in, and negotiate their business publicly, with us called exchange. See the article EXCHANGE.

BURSTEN, denotes a person who has a rupture. See the article Rupture.

BURDENS, or BURDEN. See the article BURDEN.

BURTON, in geography, the name of two market-towns, the one in Staffordshire, and the other in Lincolnshire; the former being situated about eighteen miles east of Stafford, in 1° 36' west long., and 52° 46' north lat. and the latter, thirty miles north of Lincoln, in 50° west long., and 43° 46' north lat.

BURTON is also the name of a market-town in Wiltmorland, about thirty miles south-west of Appleby: west long. 2° 35', north lat. 54° 10'.

BURTON, in the sea-language, a small tackle consisting of two fingle blocks, and may be made fast anywhere at pleasure, for hoisting small things in and out; and will balance more than a single tackle with two blocks.

BURY, in geography, a market-town of Lancashire, about thirty miles south-east of Lancaster: west long. 2° 20', north lat. 53° 56'.

BURST. St. EDMUNDS, or ST. EDMUND'S

BURY, the county town of Suffolk, about twelve miles east of Newmarket, and seventy north-east of London: east long. 45°, north lat. 52° 20'.

BURY is also a term sometimes used for the hole or den of some animal under ground, more usually called burrow. See the article BURROWS.

Thus we say, the bury of a mole, rabbit, &c.

BURYING, the name with burial. See the article BURIAL.

BUSELAPHUS, in zoology, a creature of the goat-kind, supposed by Mr. Ray to be the same with the african gazella. See the article GAZELLA.

BUSH, a term used for several shrubs of the same kind, growing close together: thus we say, a furze-bush, bramble-bush, &c.

BUSH is sometimes used, in a more general sense, for any assemblage of thick branches interwoven and mixed together.

Burning-Bush, that bush wherein the Lord appeared to Moses at the foot of mount Horeb, as he was feeding his father-in-law's flocks.

As to the person that appeared in the bush, the scripture, in several places, calls him by the name of God: he says of himself, "that he is the Lord, the God, "who is the God of Abraham, Isaac, "and Jacob, &c." And Moses, blessing Joseph, says, "let the blessing of him "that dwelt in the bush, come upon the "head of Joseph." But the hebrew and the greek septuagint import, that the angel of the Lord appeared to him. St. Stephen, and several others, read it in the same manner; and moreover some say, that it was an angel that represented the Lord: yet the antients hold the son of God to be the person that appeared in the bush.

The mahometans believe, that one of Moses's shoes, put off by him as he drew near the burning-bush, was placed in the ark of the covenant, in order to preserve the memory of this miracle.

Poison-Bush, in botany, a name sometimes given to the tithymalus, or purge.

BUSHEL, a measure of capacity for dry things, as grain, fruits, dry pulse, &c. containing four pecks, or eight gallons, or one-eighth of a quarter.

A bushel, by 12 Henry VII. c. 5, is to contain eight gallons of wheat; the gallon eight pounds of Troy-weight; the ounce twenty sterlings, and the feather thirty-two grains, or coms of wheat growing in the midst of the ear. See the articles Measure and Weight.

At Paris, the bushel is divided into two half bushels; the half bushel into two quarters; the quarter into two half-quarters; the half-quarter into two litres; and the litre
Every bus has a master, an affiant, a mate, and seamen in proportion to the vessel's bigness; the master commands in chief, and without his express order, the nets cannot be cast, nor taken up; the affiant has the command after him; and the mate next, whose business it is to see the seamen manage their rigging in a proper manner, to mind those who draw in their nets, and those who kill, gut, and cure the herrings, as they are taken out of the sea; the seamen do generally engage for a whole voyage in the lump.

The provision which they take on board the busses, consist commonly in billet, oat-meal, and dried or salt fish; the crew being content for the rest with what fresh fish they catch. See FISHERIES.

BUST, or BUSTO, in sculpture, &c., a term used for the figure or portrait of a person in relief, shewing only the head, shoulders and stomach, the arms being lopped off: it is usually placed on a pedes tal or console.

M. Felibien observes, that those, in painting, one may say a figure appears in busto, yet it is not properly called a bust; that word being confined to things in relief. The bust is the same with what the latins called herma, from the Greek Hermes, Mercury, the image of that god being frequently represented in that manner by the Athenians.

Bust is also used, especially by the Italians, for the trunk of a human body, from the neck to the hips.

BUSTARD, in roman antiquity, gladiators who fought about the buffum, or funeral pile of a deceased person of distinction, in the ceremony of his obsequies.

This custom was found to be less barbarous than the first practice was of sacrificing captives at the buffum, or on the tomb of warriors; instances whereof we meet with both in roman and greek antiquities: the blood spilt on this occasion, was supposed to appease, by way of sacrifice, the infernal gods, that they might be more propitious to the manes of the deceased.

BUSTUAR1E, MOETHE, according to some, women that were hired to accompany the funeral, and lament the loss of the deceased; but others are of opinion, that they were rather the more common pro-
prostitutes, that flock among the tombs, graves, and other such lonely places.

BUSTUM, in antiquity, a pyramid or pile of wood upon which were antiently placed the bodies of the deceas'd, in order to be burnt. Some authors say, that it was called buftum after the burning, quafi bene ufum; that before the burning it was called pyra, and during the burning, rogus. See Burning of the dead.

The buftum in the Campus Martius was encompassed round with white stone, and an iron rail.

BUT, or BUTT. See the article Butt.

BUTCHER, a person who slauers cattle for the use of the table, or who cuts up and retails the same.

Among the antient Romans, there were three kinds of established butchers, whose office was to furnish the city with the necessary cattle, and to take care of preparing and vending their flesh. The fuarii provided hogs; the pecuarii or boarii, other cattle, especially oxen; and under these was a subordindae class whose office was to kill, called lanii, and carnifices.

To exercise the office of butcher among the Jews with dexterity, was of more reputation than to understand the liberal sciences. They have a book concerninghamble-constitution; and in case of any difficulty, they apply to some learned rabbi for advice: nor was any allowed to practice this art, without a licence in form; which gave the man, upon evidence of his abilities, a power to kill meat, and others to eat what he killed; provided he carefully read every week for one year, and every month the next year, and once a quarter during his life, the constitution above-mentioned. We have some very good laws for the better regulation and preventing the abuses committed by butchers. A butcher that sells wine's flesh mazed, or dead of the murrain, for the first offence shall be amerced; for the second, have the pillory; for the third, be imprisoned and make fine; and for the fourth, abjure the town. Butchers not selling meat at reasonable prices, shall forfeit double the value, leviable by warrant of two justices of the peace. No butcher shall kill any flesh in his scalding-houle, or within the walls of London, on pain to forfeit for every ox so killed, 12 d. and for every other beast, 8 d. to be divided betwixt the king and the prosecutor.

BUTCHER-BIRD, in ornithology, the English name of the lanius. See Lanius.

BUTCHER'S-BROOM, rufcus, in botany. See the article Ruscus.

BUTE, an island of Scotland, lying in the mouth of the frith of Clyde, south of Cowal in Argyleshire. It gives the title of earl to a branch of the Stuart family. Bute and Cathnies send only one member to parliament between them, each chooing in its turn, whereof Bute has the sirft.

BUTEO, the buzzard, in ornithology, a bird of the hawk-kind, about the fize of a small pullet, the beak of which is of a bluish black, and covered with a yellow membrane down to the nostrils.

BUTLER, buticularius, the name antiently given to an officer in the court of France, being the fame as the grand echanion, or great cup-bearer of the present times.

Butler, in the common acceptation of the word, is an officer in the houses of princes and great men, whose principal business is to look after the wine, plate, &c.

Butlerage of wine, is a duty of two shillings for every ton of wine imported by merchants strangers; being a composition in lieu of the liberties and freedoms granted to them by king John and Edward I. by a charter called charta mercatoria.

Butlerage was originally the only custom that was payable upon the importation of wines, and was taken and received by virtue of the regal prerogative, for the proper use of the crown. But for many years past, there having been granted by parliament subsidies to the kings of England, and the duty of butlerage not repealed, but confirmed, they have been pleased to grant the same away to some nobleman, who by virtue of such grant, is to enjoy the full benefit and advantage thereof, and may causie the fame to be collected in the same manner that the kings themselves were formerly wont to do.

BUTMENTS, in architecture, those supporters or props on or against which the foot of arches reft. See Bridge.

Buntment is also the term given to little places taken out of the yard or ground-plot of a house, for a buttry, feullery, &c.

BUTOMUS, the flowering-bush, in botany, a genus of plants of the enmean-dria hexagonio clas, the flower of which consists of six roundish, concave, fading petals, alternately exterior, smaller, and more acute; the fruit consists of six oblong.
B U T [ 409 ]

BUTTER. By the texture and nature of its substance, tends to relax the solids, and supplies the juices with light and adhesive particles. Upon the first account, it may be good in dry and cossive constitutions; but must be hurtful in lax, moist, and corpulent ones. By the levity and tenacity of its parts, it is also very apt to float in the glands and capillaries; by which means it fouls the vitæra, but particularly the small glands of the skin; hence it is apt to produce blotsches, and all cutaneous diseases.

There are as many sorts of butter, as there are different milks of animals whereof to make it: that of the cow is most in use. It is used everywhere, and is hardly any sauce made without it. The northern people, however, make more use of it than others. Every barrel of butter, imported from abroad, pays a duty of 3s. 10d. whereof 3s. 4d. is drawn back on exporting it. Irish butter pays only a duty of 1s. 10d. the hundred weight; whereof 1s. 8d. is drawn back on exporting it.

B U T T E R, a fat unctuous substance, prepared from milk by heating or churning it. It was late ere the Greeks appear to have had any notion of butter; their poets make no mention of it, and yet are frequently speaking of milk and cheese. The Romans used butter no otherwise than as a medicine, never as a food. The antient christians of Egypt burnt butter in their lamps instead of oil; and in the roman churches, it was antiently allowed, during chrismas time, to burn butter instead of oil, on account of the great consumption of it otherwise.

For the making of butter, when it has been churned, open the churn, and with both hands gather it well together. Take it out of the butter-milk, and lay it into a very clean bowl, or earthen pan; and if the butter be defigned to be used sweet, fill the pan with clear water, and work the butter in it to and fro, till it is brought to a firm consistence of itself, without any moisture. When this has been done, it must be scotched and sliced over with the point of a knife, every way as thick as possible, in order to fetch out the smallest hairs, mote, bit of rag, strainer, or any thing that may have happened to fall into it. Then spread it thin in a bowl and work it well together; with such quantity of salt as you think fit, and make it up into ditches, pounds, half pounds, &c. The newer the butter is, the more wholesome and pleasant it is; and that which is made in May, is esteemed the best.
BUT,[410].

wholesome drink, to be used in the summer instead of other drink, and will quench the thirst better than beer.

Butter-milk is esteemed an excellent food, in the spring especially, and is particularly recommended in hectic fevers.

Butter-wort, in botany, the English name of a distinct genus of plants, called by botanists pinguisula. See the article Pinguisula.

Buttery, a room in the houses of noblemen and gentlemen, belonging to the butter, where he deposits the utensils belonging to his office, as table-linnen, napkins, pots, tankards, glasses, crusts, salvers, spoons, knives, forks, pepper, mustard, &c.

As to its position, Sir Henry Wotton says, it ought to be placed on the north side of the building, which is designed for offices. In England, we generally place it near the cellar, viz., the room commonly just on the top of the cellar floors.

Buttock of a ship, is that part of her, which is her breadth right a stern, from the tackle upwards; and a ship is said to have a broad or a narrow buttock, according as she is built, broad or narrow, at the transom.

Button, an article of dress, serving to fasten cloaths tight about the body, made of metal, silk, mohair, &c, in various forms. Metal buttons are either cast in moulds, in the manner of other small works, (see Foundery) or made of thin plates of gold, silver, or brass, whose structure is very ingenious, though but of little use.

Buttons of all sorts are prohibited to be imported.

Button, among gardeners, denotes much the same with bud. See the article Bud.

Button, in the manage. Button of the reins of a bridle is a ring of leather, with the reins paffed through it, which runs all along the length of the reins. To put a horse under the button, is when a horse is stopped without a rider upon his back, the reins being laid on his neck, and the button lowered so far tov'hat the reins bring in the horse's head, and fix it to the true posture or carriage. 'Tis not only the horses, which are managed in the hand, that must be put under the button; for the same method must be taken with such horses as are brad between two pillars, before they are backed.

BUTTONS-BAY, the name of the north part of Hudson's-bay, in north America, whereby Sir Thomas Button attempted to find out a north-west passage to the East-Indies. It lies between 80° and 100° west longitude, and between 60° and 66° north latitude.

Button-tree, a name sometimes given to two very distinct genera of plants, the platanus and cephalanthus.

Button-tree of Jamaica, the same with the conacarpus of botanists.

Buttress, a kind of buttment built archwise, or a mass of stone or brick, serving to prop or support the sies of a building, wall, &c, on the outside, where it is either very high, or has any considerable load to sustain on the other side, as a bank of earth, &c.

Buttresses are used against the angles of steeples and other buildings of stone, &c, on the outside, and along the walls of such buildings as have great and heavy roofs, which would be subject to thrust the walls out, unless very thick, if no buttresses were placed against them: they are also placed for a support and buttment against the feet of some arches, that are turned across great halls, in old palaces, abbeys, &c.

The theory and rules of buttresses are one of the desiderata in architecture; but the size and weight of them ought to be in proportion to the dimensions and form of the arch, and the weight which is superincumbent on it.

As to the weight of the materials, both on the arch and in the buttress, it is not difficult to calculate: but it may be objected, that there may be a sensible difference, as to the strength and goodness of the mortar, which may, in some measure, compensate for the weight of the buttress.

Buzaw, a town of Lower Saxony, in Germany: it stands upon the river Var­now, on the road from Schwerin to Rostock; Buxton, a place in the peak of Derbyshire, celebrated for medicinal waters; the hottest in England, next to Bath.

Buxton-wells. The strata of earth and minerals, in the parts adjacent to Buxton, are peat moss, blue clay, iron, and coal, mixed with sulphur and braz­il. See the article Bath.

The warm waters there, at present, are the bath, which takes in several warm springs, St. Anna's-well, a hot and cold spring rising up into the same receptacle, and Eingham-well,
These waters greatly promote digestion, unless they are drank too long, in which case they relax the stomach, and retard all the digestion: they are well adapted to obstructions of every kind, whence they produce surprizing effects in gouty, rheumatic, arthritic and scorbatic pains: their irritation and effects are relaxation and dilution, and wherever these are indicated, this water will be of the greatest service: it is of great benefit in those obstructions, which arise from a sharpness, flatness, or eartheness of the blood and lymph, or from an accidental disposition to a rarefaction of the blood. As this water is warm, highly impregnated with a mineral steam, vapour, or spirit; it is beneficial to cramps, convulsions, and dilution, ...the irritation of the earthiness, the former constitution of trades; and taking up his trade, though it may be for the order and regulating of trades; and notwithstanding such a by-law may inflict a reasonable penalty, which may be recovered by dirftors or action of debt, yet none can be imprisoned upon it, as it is contrary to magna charta.

**BUZ.**

BYGHOE, or BYCOW, a city of Lithuania, in Poland, situated on the river Nieper: east long. 30°, and north lat. 52°.

**BY-LAWS.** or BYE-LAWS, private and peculiar laws for the good government of a city, court, or other community, made by the general consent of the members. All by-laws are to be reasonable, and for the common benefit, not private advantage of any particular persons, and must be agreeable to the public laws in being. If made by corporations, they are to be approved by the lord chancellor or chief justices, or justices of affize, on pain of 49l. if against the good of the public.

But it is said, a corporation cannot make by-laws without a custom for it, or the king's charter; nor may they make any by-law to bind strangers that live out of their corporation, or to restrain a person from working in or setting up his trade, though it may be for the order and regulating of trades; and notwithstanding such a by-law may inflict a reasonable penalty, which may be recovered by directors or action of debt, yet none can be imprisoned upon it, as it is contrary to magna charta.

**BUXTHUDE.**

BYRLA, or BURLAW LAWS; in Scotland, are made and determined by neighbours, elected by common consent in bylaw courts. The men, chosen as judges, are called bylaw or burlaw-men, and take cognizance of complaints between neighbour and neighbour.

**BYRSODEPSICON.** In botany, a name sometimes given to sumach, on account of its use in dying leather. See the article **SUMACH.**

**BUSSUS.** In botany, a genus of mosses, consisting of plain, simple, capillary filaments. The byssus is the most imperfect of all vegetables, no part of its fructification having been hitherto discovered: its filaments are uniform, and often so fine as to be barely discernible: though, in a clatter, they make a kind of rise down. Botanists are not agreed, whether the byssus be properly a moss or fungus. Linnaeus is of the latter opinion, and the generality of botanists of the former. Dillenius thinks it is of a middle nature between both. This difference of opinion probably arose from hence, that authors have confounded two very distinct vegetables under the same name byssus: the one, the filamentous bodies, described above, which are the only true

---

The text is written in a formal style, typical of 18th-century scientific and legal descriptions. It details the effects of certain waters on health, the legal implications of by-laws, and the natural history of byssus. The text is rich with technical terms and historical references, reflecting the scientific and legal practices of the time.
BYSSUS, in antiquity, that fine Egyptian linen, whereof the tunic of the Jewish priests were made. Philo says, that the byssus is the clearest and most beautiful, the whitest, strongest, and most glossy sort of linen; that it is not made of any thing mortal, that is to say, of wool, or the skin of any animal, but that it comes out of the earth, and becomes always whiter, and more shining, when it is washed as it should be.

BYZANT, or Bezant. See Bezant.

BYZANTIA BLatta. See the article Blatta.

BYZANTIUM, the antient name of Constantinople. See Constantinople.

BZO, a town of Africa, in the kingdom of Morocco.

C.

The third letter, and second consonant of the alphabet, is pronounced like k, before the vowels a, o, and u; but like f, before e and i.

As an abbreviature, C stands for Caius, Carolus, Caesar, condamno, &c. and C C for confidibus.

As a numeral, C signifies 100, CC 200, &c.

Among the French, C stands for compte, account; C. C. for compte courant, account current; M. C. man compte, my account; C. O. compte ouvert, open account; S. C. for compte, his account; L. C. leur compte, their account; N. C. notre compte, our account, &c.

C, in music, the highest part in the thorough-bass; again, a simple C, or rather a semicircle, placed after the cliff, intimates, that the music is in common time, which is either quick or slow, as it is joined with alegro or adagio: if alone, it is usuall adagio.

If the C be crossed or turned, the first requires the air to be played quick, and the last very quick.

CAABA, or Caabah, properly signifies a square building; but is particularly applied by the Mohammedans, to the temple of Mecca, built, as they pretend, by Abraham, and Imael his son. It is towards this temple they always turn their faces when they pray, in whatever part of the world they happen to be. This temple enjoys the privilege of an affylum for all sorts of criminals; but it is most remarkable for the pilgrimages made to it by the devout Multiform, who pay so great a veneration to it, that they believe, a single sight of its sacred walls, without any particular act of devotion, is as meritorious, in the fight of God, as the most careful discharge of one's duty, for the space of a whole year, in any other temple.

CAACHIRA, in botany, the indian name for the plant indigo.

CAAMINI, in botany, the name by which the Spaniards call the finer kind of para­guay-tea. See the article Paraguay.

CA'APEBA, in botany, a name used by Plumier for the ciffampelos of Linnaeus. See the article Cissampelos.

CAB, an hebrew dry measure, being the fifth part of a peah or sattum, and the eighteenth part of an epha: a cab contained ½ pints of our corn measure: a quarter-cab was the measure of dove's dung, or more properly a sort of chock­peale, called by this name, which was folded at Samaria, during the siege of that city, for five shekels.

CABALIST, cabalisse, in french commerce, a factor, or person, who is concerned in managing the trade of another.

CABALLARIA, in middle-age-writers, lands held by the tenure of furnishing a horieman, with suitable equipage, in time of war, or when the lord had occasion for him.

CABALLEROS, or Cavalleros, are Spanish wools, of which there is a pretty considerable trade at Bayonne, in France.

CABBALLINE denotes something belonging to horses: thus caballine aloeis is called, from its being chiefly used for purging horses; and common brimstone is called sulphur caballinum, for a like reason.

CABBAGE,
CABBAGE, *Brassica*, in botany. See the article *Brassica*.

Botanists enumerate no less than twenty-two species of cabbages:

The manner of sowing the seeds of all the best sorts of cabbages is, to make choice of your best cabbages about the middle of November, and these being pulled up, should be carried to some shed, and hung for three or four days by the stalks, that the water may drain from between the leaves; then plant them in some border, under an hedge, quite down to the middle of the cabbage.

If the weather should prove very hard, you should lay a little straw or pea-haulm lightly upon them, taking it off when the weather proves mild. In the spring, when those cabbages shoot out strongly, and divide into a number of smaller branches, you must support their stems; and if the weather should prove very hot and dry, you should refresh them with water once a week: when the tops begin to look brown, cut off the extreme part of every shoot; and when your seeds begin to ripe, you must take care that the birds do not destroy it, as they are very fond of these seeds: in order to prevent which, some throw old nets over their seeds; but the best method is, to get a quantity of bird-lime, and dawb over a parcel of slender twigs, fastened at each end to stronger sticks, placed near the upper part of the feed, that the birds may alight upon them, and by that means be fastened thereto: when the feeds are fully ripe, you must cut them off, and, after drying, thresh them out, and preserve them in bags for use.

In Holland and Flanders, there are an incredible number of mills, for preparing an oil from the seeds of reddish cabbages, said to be good for several purposes.

See CABBAGE, a name by which the crambe of botanists is sometimes called. See the article CRAMBE.

CABBAGE-TREE, a name sometimes given to the palm-tree, called, by Linnaeus, phoenic. See the article PHOENIX.

CABBAGING, among gardeners, a term used for the knitting of cabbages into round heads. See the preceding article.

CABBALA, according to the hebrew style, has a very different signification from that wherein we understand it in our language. The hebrew cabbala signifies tradition, and the rabbins, who are called cabbalists study principally the combination of particular words, letters, and numbers, and, by this means, pretend to discover what is to come, and to see clearly into the sense of many difficult passages in scripture: there are no sure principles of this knowledge, but it depends upon some particular traditions of the antients; for which reason it is termed cabbala.

The cabbalists have abundance of name; which they call sacred: those they make use of in invoking of spirits, and imagine that they receive great light from them: they tell us, that the secrets of the cabbala were discovered to Moses on mount Sinai, and that these have been delivered down to them from father to son, without interruption, and without any use of letters; for to write them down, is what they are, by no means, permitted to do. This is likewise termed the oral law, because it passed from father to son, in order to distinguish it from the written laws.

There is another cabbala, called artificial, which consists in searching for abstruse and mysterious significations of a word in scripture, from whence they borrow certain explanations, by combining the letters, which compose it: this cabbala is divided into three kinds, the gematrie, the notaricon, and the temura or themurah. The first whereof consists in taking the letters of a hebrew word for cyphers or arithmetical numbers, and explaining every word by the arithmetical value of the letters, whereof it is composed. The second sort of cabbala, called notaricon, consists in taking every particular letter of a word for an entire diction; and the third, called themurah, i.e. change, consists in making different transpositions or changes of letters, placing one for the other, or one before the other.

Among the christians likewise, a certain sort of magic is, by mistake, called cabbala, which consists in using improperly certain passages of scripture for magic operations, or in forming magic characters or figures with stars and talismans.

Some visionaries, among the Jews, believe, that Jesus Christ wrought his miracles by virtue of the mysteries of the cabbala.

CABBALISTS, the jewishe doctors, who profess the study of the cabbala.

In the opinion of these men, there is not a word, letter, or accent in the law, with
The Jews are divided into two general sects; the Karaites, who refuse to receive either tradition or the Talmud, or any thing but the pure text of Scripture; and the Rabbinitz; or Talmudists, who, besides this, receive the traditions of the ancients, and follow the Talmud.

The latter are again divided into two other sects; pure Rabbinitz, who explain the Scripture, in its natural sense, by grammar, history, and tradition; and cabalists, who, to discover hidden mystical senses, which they suppose God to have couched therein, make use of the cabalistic, and the mystical methods above mentioned.

CABIN, or CABIN. See CABIN.

CABECAS, or CABESSE, a name given to the fine-flax or flax of the East Indies, as those from 15 to 20 per cent. inferior to them, are called barina. The Indian workmen endeavour to pass them off one with the other; for which reason, the more experienced European merchants take care to open the bales, and to examine all the flax one after another. The Dutch distinguished two sorts of cabecas; namely, the most cabeca and the common cabeca.

The former is sold at Amsterdam for about $1.78 shillinghen flax, and the other for about $1.50.

CABENDA, a port-town of Congo, in Africa, and subject to the Portuguese; east long. 12°, and north lat. 4°.

CABEDOS, or CAYDOS, a longmeasure used at Goa, and in other places of the East-Indies belonging to the Portuguese, to measure flax, linens, &c. and equal to 1/6 of the Paris ell.

CABIN, or CABBIN; in the sea-language, a small room, or apartment, wherein there are a great many several parts of a ship; particularly on the quarter-deck, and on each side of the forecastle, for the officers of the ship to lie in.

The great cabin is the chief of all, and that which properly belongs to the captain, or chief commander.

CABINET, or CABINET, the most retired place in the finest part of a building, set apart for writing, studying, or preserving any thing that is precious. A complete apartment consists of a hall, anti-chamber, chamber, and cabinet, with a gallery on one side. Hence we say, a cabinet of paintings, curiosities, &c.

CABINET also notes a piece of joiner's workmanship, being a kind of press or chest, with several doors and drawers.

There are common cabinets of oak, or of chestnut, varnished cabinets of China and Japan, cabinets of inlaid work, and some of ebony, or the like scarce and precious woods.

Formerly the Dutch and German cabinets were much esteemed in France, but are now quite out of date, as well as the cabinets of ebony, which came from Venice.

CABIRI, a term in the theology of the ancient Pagans, signifying great and powerful gods; being a name given to the gods of Samothrace. They were also worshipped in other parts of Greece, as Lemnos and Thebes, where the Cabiri were celebrated in honour of them: these gods are said to be, in number, four, viz. Austeros, Axicerfa, Axicerfus, and Cafminus.

CABIRIA, festivals in honour of the Cabiri, celebrated in Thebes and Lemnos, but especially in Samothrace, an island consecrated to the Cabiri. All who were initiated into the mysteries of these gods, were thought to be seated thereby from forms at sea, and all other dangers. The ceremony of initiation was performed, by placing the candidate, crowned with olive branches, and girded about the loins with a purple riband, on a kind of throne, about which the priests, and persons before initiated, danced.

CABLAN, the name of a kingdom and city of India, beyond the Ganges.

CABLE, a thick, large, strong rope, commonly of hemp, which serves to keep a ship at anchor.

There is no merchant ship, however weak, but has, at least, three cables; namely, the chief cable, or cable of the fleet-anchor, a common cable, and a smaller one.

Cable is also laid of ropes, which serve to raise heavy loads, by the help of cranes, pulleys, and other engines. The name of cable is usually given to such as have, at leaft, three inches in diameter; those, that are less, are only called ropes of different names, according to their use.

Every cable, of what thickness ever it be, is composed of three strands; every strand of three ropes; and every rope of three twists: the twist is made of more or less threads, according as the cable is to be thicker or thinner.

In the manufacture of cables, after the ropes are made, they use fitches, which they pass first between the ropes of which they make the strands, and afterwards between
between the strands of which they make the cable, to the end that they may all twist the better, and be more regularly wound together; and also, to prevent them from twining or intertangling, they hang, at the end of each strand and of each rope, a weight of lead or of stone. The number of threads, each cable is composed of, is always proportioned to its length and thickness; and it is, by this number of threads, that its weight and value are ascertained: thus a cable of three inches circumference, or one inch diameter, ought to consist of 48 ordinary threads, and weigh 192 pounds; and on this foundation, is calculated the following table, very useful for all people engaged in marine commerce, who fit out merchant-men for their own account, or freight them for the account of others.

A table of the number of threads and weight of cables of different circumferences.

<table>
<thead>
<tr>
<th>Circumfer.</th>
<th>Threads</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 inches</td>
<td>48</td>
<td>192 pounds</td>
</tr>
<tr>
<td>4</td>
<td>77</td>
<td>308</td>
</tr>
<tr>
<td>5</td>
<td>121</td>
<td>484</td>
</tr>
<tr>
<td>6</td>
<td>174</td>
<td>696</td>
</tr>
<tr>
<td>7</td>
<td>233</td>
<td>952</td>
</tr>
<tr>
<td>8</td>
<td>311</td>
<td>1344</td>
</tr>
<tr>
<td>9</td>
<td>393</td>
<td>1572</td>
</tr>
<tr>
<td>10</td>
<td>485</td>
<td>1940</td>
</tr>
<tr>
<td>11</td>
<td>598</td>
<td>2392</td>
</tr>
<tr>
<td>12</td>
<td>699</td>
<td>2796</td>
</tr>
<tr>
<td>13</td>
<td>821</td>
<td>3284</td>
</tr>
<tr>
<td>14</td>
<td>952</td>
<td>3808</td>
</tr>
<tr>
<td>15</td>
<td>1093</td>
<td>4372</td>
</tr>
<tr>
<td>16</td>
<td>1244</td>
<td>4976</td>
</tr>
<tr>
<td>17</td>
<td>1404</td>
<td>5616</td>
</tr>
<tr>
<td>18</td>
<td>1574</td>
<td>6296</td>
</tr>
<tr>
<td>19</td>
<td>1754</td>
<td>7016</td>
</tr>
<tr>
<td>20</td>
<td>1643</td>
<td>7772</td>
</tr>
</tbody>
</table>

Sheet-anchor Cable is the greatest cable belonging to a ship.

Serve or plate the cable, is to bind it about with ropes, clouts, &c., to keep it from getting in the hawle.

To splice a cable, is to make two pieces fast together, by working the several threads of the rope, one into the other.

Pay more cable, is to let more out of the ship. Pay cheap the cable, is to hand it out space. Fear more cable, is to let more out, &c.

Cabled, in heraldry, a term applied to a cros, formed of the two ends of a ship’s cable; sometimes also to a cros covered over with rounds of rope, more properly called a cross-corded, as in plate XXXV. fig. 1.

Cabled-flute, in architecture, such flutes as are filled up with pieces, in the form of a cable. See flute.

Cabo de Istria, the capital of the province of Istria, in the dominion of Venice, situated on the gulph of Venice, about twelve miles south of Trieste: east long. 14° 20', and north lat. 45° 50'.

Caboched, in heraldry, is when the heads of beasts are borne without any part of the neck, full faced.

Cabo-Corsio, in geography. See the article Cape-Coast.

Caboletto, in commerce, a coin of the republic of Genoa, worth about three pence of our money.

Cabula, a fort of hemp, which grows in the province of Panama, in south America. The plant, which produces it, has leaves like those of a thistle, though broader, thicker, and greener. When it is ripe, they seep it in water, as they do hemp in Europe, and, after it is dried, beat it with wooden hammers, till there remain nothing but the threads. Of these, the Indians make ropes of different sizes, and stringings, which are so extremely hard and strong, that they use them for fawing iron, by mounting them on a bow, and putting a little sand upon the iron, as the work advances.

Cabil, the capital of a province of the same name, on the north-west of India. Both the town and province of Cabul were ceded to the Persians in 1739: east long. 69°, and north lat. 33° 30'.

Caburns, on ship-board, are small lines, made of spun yarn, to bind cables, seize tackles, or the like.

Cacaca, a city of Africa, in the kingdom of Fez.

Cacagoga, among ancient physicians, ointments, which, applied to the fundament, procure fluxes. Paulus Ægineta directs to boil alum, mixed with honey, for that purpose.

Cacalia, in botany, a genus of plants, being the same with the tussilago of Linnaeus. See the article Tussilago.

The juice of the leaves of this plant are recommended in coughs and roughnesses of the arteries aperis.

Cacalanthemum, in botany, the same with the kleinia of Linnaeus. See the article Kleinia.

Cacao, the chocolate-tree, in botany, genus of trees, called by Linnaeus theobroma. See Theobroma.
CACAVIA, in botany, a name sometimes given to the lotus, or nettle-tree.

CACCALIA, in botany, the same with the alkekengi, or phyfalis of botanists.

CACCABON, in botany, the name by which some call the nymphæa, or water-lily.

CACERES, a town of Estremadura, in Spain, about seventeen miles south east of Alcantara: west longitude 6° 45', and north latitude 39° 15'.

CACHAN, a city of Persia, situated in a large plain, about twenty leagues from Ifphahan.

It is remarkable for its manufactures of gold and silver fluffs, and of fine earthen ware.

CACHAO; or KECHIO, the capital of the kingdom of Tonquin, situated on the western shore of the river Domea: east long. 105°, and north lat. 23° 30'.

CACHETIC, something partaking of the nature of, or belonging to a cachexy. See the article CACHEXY.

CACHEMIRE, or KACHMIRE, a province of Asia, in the country of the Mogul. The inhabitants are thought to have been originally Jews, because they speak much of Moes and Solomon, whom they believe to have travelled into their country.

CACHMIRE is also the capital of that province, situated in 76° east longitude, and 34° 30' north latitude.

CACHEXY, in medicine, such a disposition of the body as depraves the nourishment throughout its whole habit. The causes of a cachexy are any bad state of the nutritious juices, or a fault in the vessels designed for their reception, or a defect of the assimilating faculty. From the first of these causes arise many disorders, according to the various colour, quantity, tenacity, acrimony, fluidity of the disempered humour, as a discolouring of the skin, a swelling under the eyes; the flesh parts become bloated; and lastly, the body is either reduced to a skeleton, or afflicted with a leucoplegmatia and a dropy. The vessels may be too contractile or too lax, and consequently the disorders that proceed from thence, may be looked upon as the causes of this disease, and the fault may lie in the assimilating faculty, if the force, by which the fluids are circulated, is too languid or too violent. From what has been said, the diagnostic signs are evident, and the prognostics may be gathered from the consideration of the cause, duration, the effects and degree of the disease, &c.

The cure sometimes requires a correction and a moderate insufflation of the too acid fluid. When it is tenacious and stagnating, it must be dissolved. But the medicines must be varied, according to the various causes, from whence these two faults arise. The greatest care must be taken, that the aliment be most like the healthy fluids, and easy of digestion. The organs of digestion should be disposed to perform their office by mild digestives, then by vomits and purges, and by medicines which promote digestion. When, by the use of these, the morbid matter is attenuated, you must proceed to apanaceous remedies, diuretics, and sudorifics, and last of all to chalybeates, with exercise, frictions, and baths.

When a cachetic takes arises, from too great an acrimony, the nature of that acrimony must be inquired into, and corrected by its contraries.

CACHRY'S, in botany, a genus of plants belonging to the pentandra-digyna class; the general flower of which is uniform; the proper flowers consist of five laminated, equal, and somewhat erect petals; the fruit is roundish, angulated, obtuse, very large, and separable into two parts, with
CAD

with two seeds very large, very convex on one side, and plane on the other; fungous, and containing a single oval-oblong nucleus. See plate XXXV. fig. 2.

Cacoethes, in medicine, an epithet applied, by Hippocrates, to malignant and difficult diememers: when applied to signs or symptoms, it imports what is very bad and threatening; and if given to tumours, ulcers, &c. it denotes a great malignancy.

Cactus, in botany, a genus of the tescandria-monogynia class of plants, comprehending the torch-thistle, melon-thistle, peregrina, and cochineal-plant; the flower of which consists of a great many broad obtuse petals, the exterior ones short, and the interior ones long and convinent: the fruit is an oblong umbilicated berry, covered with little leaves, like the cup, with one cell, containing numerous, roundish, and small seeds. This is a culinary plant, which is blanched like celery, and like that eaten raw with pepper and salt in Italy. In the medical virtues, it agrees with the cynara, or artichoke.

Cad, or Cade. See the article CADE.

Cadari, or Kadari, a foot of Mahomedans, which attributes the actions of men to men alone, and not to the divine decree determining his will; and denies all absolute decrees, and predestination. Ben Aun calls the cadari, the magi or manichees of the mulfulmen.

Caddow, a bird more usually called a chough, or jack-daw.

Cade, a cag, calk, or barrel. A cade of herrings is a quantity of herrings is a footing.

Cade-lamb, a young lamb, weaned and brought up by hand in a house.

Cade-Oil, an oil much used in France and Germany: it is prepared from the fruit of a species of cedar, called oxycedrus.

Cade-worm, in zoology, the maggot or worm of a fly, called phryganiun. See the article Phryganiun.

Cadence, in music, according to the antients, is a series of a certain number of notes, in a certain interval, which strike the ear agreeably, and especially at the end of the song, pianza, &c. It consists ordinarily of three notes. Cadence, in the modern music, may be defined a certain conclusion of a song, or of the parts of a song, which divide it, as it were, into so many numbers or periods. It is when the parts terminate in a chord or note, the ear seeming naturally to expect it; and is much the same in a song, as the period that closes the sentence in a paragraph of a discourse.

A cadence is either perfect, consisting of two notes sung after each other, or, by degrees, conjoined in each of the two parts, and, by these means, satisfying the ear; or imperfect, when its last measure is not in the octave or unison, but a fifth or third. It is called imperfect, because the ear does not acquitise in the conclusion, but expects a continuation of the song. The cadence is said to be broken, when the bass, instead of falling a fifth, as the ear expects, rises a second, either major or minor. Every cadence is in two measures; sometimes it is suspended, in which case it is called a repose, and only consists of one measure, as when the two parts stop at the fifth, without finishing the cadence. With regard to the bass-viol, Mr. Rouffeté distinguishes two cadences, one with a reft, when the finger, that should shake the cadence, stops a little, before it shakes, on the note immediately above that which requires the cadence; and one without a reft, when the stop is omitted.

All cadences are to be accommodated to the characters of the airs.

Cadence, with some French musicians, is synonymous with a shake. See Shake.

Cadence, in the manege, an equal measure or proportion, observers by a horse in all his motions; so that his times have an equal regard to one another, the one does not embrace or take in more ground than the other, and the horse observes his ground regularly.

Cadence, in rhetoric and poetry, the running of verse or prose, otherwise called the numbers, and by the antients syllables. See the article Rhythmus. It would be easy to give instances, both in our own, as well as the Greek and Roman poets, when the cadence is admirably adapted to the subject in hand.

Cadence, in dancing, is when the several steps and motions follow, or correspond, to the notes or measures of the music.

Cadene, one of the sorts of carpets, which the Europeans import from the Levant. They are the worst sort of all, and are sold by the piece from one to two piafters per carpet.

Cadenza fugita, fiorito, din'gangno, in the Italian music. See SUGITA, FIORITO, D'INGANNO. 

h h

Cadet,
CADET, the younger son of a family, is a term naturalized in our language from the French. At Paris, among the citizens, the cadets have an equal patrimony with the rest. At Caux, in Normandy, the custom, as with us, is to leave all to the eldest, except a small portion to the cadets. In Spain, it is usual for one of the cadets in great families, to take the mother's name.

CADET is also a military term denoting a young gentleman who chooses to carry arms in a marching regiment, as a private man. His views are to acquire some knowledge in the art of war, and to obtain a commission in the army. Cadet differs from volunteer, as the former takes pay, whereas the latter serves without any pay.

CADEW in zoology, a kind of worm, otherwise called the raw-worm.

CADGE, among sportsmen, a round flame of wood, upon which falconers carry their hawks. See CAGE.

CADIS, or CADHI, a judge of the civil affairs in the Turkish empire. It is generally taken for the judge of a town; judges of provinces being distinguished by the appellation of molla's. In Bledulgerid in Africa, the cadi decides in spiritual affairs.

CADILESCHER, a capital officer of justice, among the Turks, answering to a chief justice among us.

'Tis said that this authority was originally confined to the foldiery, but that, at present, it extends itself to the determination of all kinds of law-suits; yet nevertheless subject to appeals.

There are but three cadileshers in all the grand signior's territories; the first is of Europe; the second, of Natolia; and the third resides at Grand Cairo. This last is the most considerable: they have their feats in the divan next to the grand vizir.

CADIZ, a city and port-town of Andalusia in Spain, situated on the north-west end of the island of Leon, or Lyon, opposite to Port St. Mary on the continent, about sixty miles south-west of Seville, and thirty north-west of Gibraltar: west long. 6° 40'; north lat. 36° 30'.

The island it stands on is in length about eighteen miles; the south-west end is about nine broad, but the other end where the city stands, not above two. It has a communication with the continent by means of a bridge; and with the opposite shore, forms a bay of twelve miles long, and six broad. About the middle of this bay, there are two headlands, or promontories, one on the continent, and the other on the island, which advance so near together, that the forts upon them, called the Puntal and Matagorda, command the passage; and within these forts is the harbour, which it is impossible for an enemy to enter, till he has first taken the forts.

CADIZADELITES, a sort of Mahometans very like the ancient Iuwoe. They shun feasts and diversions, and affect an extraordinary gravity in all their actions; they are continually talking of God, and some of them make a jumble of chritianity and mahometanism; they drink wine, even in the fest of the ramazan; they love and protect the christians; they believe that mahomet is the holy ghost, practises circumcision, and justify it by the example of Jesus Christ.

CADLOCK, a name sometimes used for the rapiflrum of botanists.

CADMIA, in the natural history of the antients, the name of two distinct substances called native cadmia, and faditia cadmia. The native cadmia was only one of the copper ores; but this is not the cadmia so much cried up by them, for its absorbent and descative virtues: this was the faditia cadmia, a cement of copper, produced in the copper-works, of which there were three kinds. The finest of all was found in the very mouths of the furnaces, from whence it issued out with the flame and smoke, and was therefore called capritis, or imoky cadmia; a great part of this was necessarily lost in the air; but the little that adhered to the mouths of the furnaces, was collected in form of a powder, or fine ashes.

The finest cadmia next to this, was that found on the roofs of the furnaces, hanging down in form of clusters of round bubbles; and therefore called the cadmia botytis, the botryoide or clustered cadmia, which was much more firm and heavy than the capritis, and of a greyish or purple colour, whereof the latter was always esteemed the best.

A third kind of cadmia, was that gathered about the sides of the furnaces, as being not light or fine enough to ascend to the roof: it was called cadmia placitis, or crust-like cadmia. Of this cruflated cadmia they distinguished two kinds, the one of a blackish colour on the outside, variegated with spots on the inside, called oxychitis, on account of the resen-
Some physicians have prescribed them as sudorifics.

CÆCUM, or COECUM, in anatomy, the blind gut, or first of the thick intestines. Of the three large intestines, called from their size, intestina craffia, the first is the cæcum, situated at the right os ileum; it resembles a bag, and has a vermiform or worm-like appendage fixed to it. It begins at the termination of the ileum, and terminates in the bottom of the bag, or facculus, which it forms: its length is no more than three or four fingers breadth. In the appendage opening into the side of the cæcum, there are some glands, which, together with its erect situation, seems to shew that some fluid is secreted there. In hens, this is double; as also in many other fowls. In fishes, there are frequently a vast number of them, and in some species not less than four hundred. In man, it is at the utmost single, and is often wanting.

CÆMENT, in a general sense, any glutinous substance, capable of uniting and keeping things together in close cohesion: in this sense, under cement, are comprehended mortar, folder, glue, &c. but, strictly speaking, the term cement only denotes a glutinous composition used in cementing broken glases, china-ware, or earthen-ware.

One of the first, and at the same time strongest cement for this purpose, is the juice of garlic stamped in a stone mortar: this, if the operation is done with care, leaves little or no mark. Another cement is made by beating the white of an egg very clear, and mixing with it fine powdered quick lime: or hinglais, powdered chalk, and a little lime may be mixed together, and dissolved in fair water. With these, the glases, &c. are to be cemented, and then let in the flue to dry; a caution which should always be observed, which ever of the above cements is used.

A cement for cracked chemical-glasses, that will stand the fire, may be thus prepared: take wheat-flour, fine powdered Venice glase, and pulverized chalk, of each an equal quantity; of fine brick-dust, one half of the said quantity; and a little scraped lint; mix them all together with the whites of eggs; then, spreading this mixture upon a linen cloth, apply it to the cracks of the glases, which must be well dried before they are used. Old varnish is another cement that will answer the same purpose.
CAEM, among builders, a strong sort of mortar, used to bind bricks or stones together for some kind of mouldings; or in cementing a block of bricks for the carving of capitals, scrolls, or the like. There are two sorts, 1. Hot cement, which is the most common, made of resin, bees-wax, brick-dust, and chalk boiled together. The bricks to be cemented with this kind, must be made hot with the fire, and rubbed to and fro after the cement is spread, in the same manner as joiners do when they glue two boards together. 2. Cold cement, made of Cheshire-cheese, milk, quick lime, and whites of eggs. This cement is less used than the former, and is accounted a secret known but to few bricklayers.

Cement, among engravers, jewelers, &c. a composition of nine brick-dust well sifted, resin and bees-wax, in use among these artificers to keep the metals to be engraved or wrought on firm to the block; and also to fill up what is to be cheeced.

Cement, in chemistry, a kind of mixture compounded of salts, sulphurs, and brick reduced to dry powders, and stewed betwixt plates of metal, in order to raise their colour, or separate one metal from another.

Cements are prepared of such salts and other ingredients, as by their acrimony corrode and separate the silver, copper, or other metals from the body of the gold.

There are various kinds of cements, but those called the common and royal, are most used by refiners. The first is made of brick-dust, nitre, and verdigris; the second, of sal gregoria and armoniac, each one part, two parts of common salt, and four of bone; the whole reduced into a paste, with urine.

In compounding cements, it must be observed to use a weak sort in refining gold of a little value; but when the gold has but a small mixture of other metal particles in it, then the most efficacious cements are to be administered, by which means much time and expense will be saved.

Cements used in raising the colour of gold, are called gradatory cements. In all these, copper is an ingredient.

Cement-pots, or those used in the cementation of metals, are made of fine potter's clay, and that either pure, or mixed with sand in different proportions.

CAEMENTATION, in a general sense, the corroding of metals in a dry form, by means of the fumes of acid salts. It is performed in the following manner. After the copper has been separated as much as possible by copelling, a stratum of cement of about half an inch in thickness, is spread in the bottom of the cement-pot; over this are laid thin plates of gold, then another stratum of cement, and so on alternately till the pot is filled within half an inch of the brim. This being done, the pot is covered up, and encompassed with fire which should be made gradually fiercer and fiercer; and in sixteen or twenty hours after they have been red hot, entirely removed, that everything may cool by degrees. Then the pots are to be opened, the cement taken out, and if it is grown too hard, to be softened by a sprinkling of hot water. The plates of gold must be washed in hot water, and the water renewed, till it be free from all saline tafe; for the salts, together with the metal they have corroded, will be contained in the plates of gold. The gold must be tried with the touch-stone, or some more certain method, to know if it has the degree of fineness required. And if it is not pure enough, it must be cemented a second time, and, if necessary, with a stronger cement.

CAEN, the capital of a county of the same name, in Normandy, situated on the river Orne, about seventy-five miles west of Rouen, and thirty-four west of Havre-de-Grace: west long. 25°, north latitude 49° 20'. It has an university, first founded by king Henry VI. of England, in 1431.

CAERFILLY, a town of Glamorganshire, about five miles north of Landaff: west long. 3° 15', and north lat. 51° 35'.

CAERITES, or CERITUM TABULAE, in roman antiquity, tables or registers in which the names of the Caerites were registered. The people of Cære were accounted citizens of Rome, but had no privilege of voting: hence when a roman citizen was degraded, if a senator, he was expelled the senate; if a knight, he lost the public horse; and if a plebeian, his name was inferted in the register of the Caerites; that is, he was subject to all taxes, but incapable of voting or enjoying any public office.

CAERLEON, a market-town of Monmouthshire, situated on the river Usk, about sixteen miles south-west of Monmouth;
CAERWIS, a market-town in Flintshire, in north Wales, about five miles east of St. Asaph, and three miles west of Flint: west long. 3° 25'; north lat. 53° 06'.

CAESALPINA, in botany, a genus of the pentandra-monogynia class of plants, having no cup; the corolla is of the ringent kind, formed of one petal; the fruit is an oblong, acuminate legumen, containing one cell; the seeds are numerous and oval.

CAESALPINIODES, in botany, the same with the glestis, a distinct genus of plants. See GLEDITIA.

CAESAR, in roman antiquity, a title borne by all the emperors, from Julio Caesar, to the destruction of the empire. It was also used as a title of distinction, for the intended or presumptive heir of the empire, as king of the Romans is now used for that of the German empire.

This title took its rise from the surname of the first emperor, C. Julius Caesar, which, by a decree of the senate, all the succeeding emperors were to bear. Under his successor, the appellation of Augustus being appropriated to the emperors, in compliment to that prince, the title Caesar was given to the second person in the empire, tho' still it continued to be given to the first; and hence the difference between Caesar used simply, and Caesar with the addition of Imperator Augustus.

The dignity of Caesar remained the second of the empire, till Alexius Comnenus having elected Nicephorus Melissenus Caesar, by contract; and it being necessary to confer some higher dignity on his own brother Isaacus, he created him Sebastocreator, with the precedence over Melissenus; ordering, that in all acclamations, &c. Isaacus Sebastocreator should be named the second, and Melissenus Caesar; the third,

...
Thus we say, the heavier the bullet, *cateris paribus*, the greater the range, *i.e.* by how much the bullet is heavier; if the length and diameter of the piece, and the quantity and strength of the powder be the same, by so much will the utmost range or distance of a piece of ordnance be greater.

Thus also, in a physical way, we say, the velocity and quantity of the blood circulating, in a given time, through any section of an artery, *will*, *cateris paribus*, be according to its diameter, and nearness to, or distance from the heart.

CAFFA, in commerce, painted cotton-cloths manufactured in the East-Indies, and sold at Bengal.

CAFFA or KAFFA, a city and port-town of Crim Tartary, situated on the south-east part of that peninsula: east long. 37°, north lat. 44° 55'. It is the most considerable town in the country, and gives name to the straits of Caffa, which run from the Euxine, or Black Sea, to the Pans Mosetis, or sea of Azoph.

CAFFER, or COFFEE. See COFFEE.

CAFFILA, a company of merchants or travellers, who join together in order to go with more security through the dominions of the grand Mogul, and through other countries on the continent of the East-Indies.

The caffila differs from a caravan, at least in Persia; for the caffila belongs properly to some foreign, or to some powerful company of Europe; whereas a caravan is a company of particular merchants, each trading upon his own account. The English and Dutch have each of them their caffila at Gambroun.

CAFFILA on the coast of Guzerat or Cambayas, signifies a small fleet of merchant-ships.

CAFFRALARIA, the country of the Caffers, or Hottentots, in the most southerly part of Africa, lying in the form of a crescent about the inland country of Monomotapa, between 35° south latitude and the tropic of Capricorn; and bounded on the east, south, and west, by the Indian and Atlantic oceans.

Most of the sea-coasts of this country is subject to the Dutch, who have built a fort near the most southern promontory, called the Cape of Good-Hope.

CAG, or KEG, of sturgeon, &c. a barrel, or vessel, that contains from four to five gallons.

CAGE, caeva, an inclosure made of wire, wicker,
wicker; or the like, interwoven lattice-wire, for the confinement of birds, or wild beasts.

The cage, in the Roman amphitheatres, was a place wherein savage animals were confined. It was inclosed with iron rails, and open at top, so as to be seen to the bottom by the spectators.

CAGLI, a town of the province of Urbino, in the pope's territories, about twenty-five miles south of the city of Urbino: east long. 14°, north lat. 43° 15'.

CAGLIARI, the capital of the island of Sardinia, situated on a bay of the sea in the southern part of that island: east long. 9° 13', north lat. 39°.

CAGUI, in zoology, the Brazilian name of two species of monkeys, one pretty large, which is of a dark-greyish colour; and the other very small, and of a reddish-tawney colour.

CAHERAH, or Al-CaheraH, the capital of Egypt, which we call Grand Cairo. See the article CAIRO.

CAHLLO, the name by which some call the lupus pichis, or wolf-fish.

CAHORS, the capital of the territory of Quercy, in the province of Guienne in France, situated about forty-five miles north of Thouolute: east long. 1°, north lat. 44° 25'.

It is the see of a bishop, and has an university.

CAHYS, a dry measure for corn, used in some parts of Spain, particularly at Seville and at Cadiz. It is near a bushel of our measure.

CAJANABURG, the capital of the province of Cajania, or east Bothnia, in Sweden, situated on the north-east part of the lake Cajania, about three hundred miles north-east of Alto: east long. 27°, north lat. 63° 50'.

CAJAZZO, a town of the province of Lavoro, in the kingdom of Naples, situated about sixteen miles north-east of the city of Naples: east long. 15°, north lat. 41° 15'.

CAJEPUT, an oil brought from the East Indies, which resembles that of cardamom.

Dr. Trew recommends four or five drops of this oil in a proper liquor, as an excellent nervous medicine.

CAIFUM, a city of China, situated in the province of Honan, on the river Croceus, 350 miles north-west of Nanking: east long. 113° 30', north lat. 35°.

CAIMACAN, or CAIMACAM, in the turkish affairs, a dignity in the Ottoman empire, answering to lieutenant, or rather deputy, among us.

There are usually two caimacans, one residing at Constantinople, as governor thereof; the other attending the grand vizir, in quality of his lieutenant, secretary of state, and first minister of his council; and gives audience to embassadors. Sometimes there is a third cai'mcan, who attends the sultan; whom he acquaints with any public disturbances, and receives his orders concerning them.

CAIMAN, or CAIMAN-ISLANDS, certain American islands lying south of Cuba, and north-west of Jamaica, between 81° and 86° of west long. and in 21° of north latitude.

They are most remarkable on account of the fisheries of tortoises, which the people of Jamaica catch here, and carry home alive, keeping them in pens for food, and killing them as they want them.

CAINIANs, or CAINITES, in church-history, christians heretics, that sprung up about the year 130, and took their name from Cain, whom they looked upon as their head and father: they said that he was formed by a celestial and almighty power, and that Abel was made but by a weak one.

This sect adopted all that was impure in the heresy of the gnostics, and other heretics of those times: they acknowledged a power superior to that of the creator; the former they called wisdom, the latter, inferior virtue: they had a particular veneration for Korah, Abiram, Esu, Lot, the sodomites, and especially Judas, because his treachery occasioned the death of Jesus Christ: they even made use of a gospel, which bore that false apostle's name.

CAINITO, in botany, the name by which Plumier calls the chrysophyllum of Linnaeus. See CHRYSOPHYLLUM.

CAJOU, or ACAJOU, in botany. See the article ACAJOU.

CAIRO, or GRAND CAIRO, the capital of Egypt, situated in a plain at the foot of a mountain, about two miles east of the Nile, and 100 miles south of the mouth of that river: east longitude 32°, north latitude 30°.

The town is ten miles in circumference, and full of inhabitants. The cattle stands on the summit of a hill, at the south end of the town, and is three miles round. The British and other European states have their consuls and factors here, for the protection of trade.

CAIROAN,
CALOBIAN, a town of the kingdom of Tunis, in Africa, situated on the river Magrida, about eighty miles south of Tunis: east long. 9°, north lat. 36°.

CAINS, a name given to the Greeks in the island of Crete, who revolt from the Turks to the Venetians.

CAISSON, in the military art, a wooden chest, into which several bombs are put, and sometimes only filled with gunpowder: this is buried under some work whereof the enemy intends to possess themselves, and when they are matters of it, it is fired, in order to blow them up.

CAISSON is also used for a wooden frame, or chest, used in laying the foundations of the piers of a bridge.

CAITHNESS. See CAITHNESS.

CAKILE, the name of a distinct genus of plants, according to Tournefort, but comprehended under the raphanus, by Linnaeus. See the article RAPHANUS.

CALABAR, in botany, the name by which Plummer calls the calophyllum of Linnaeus. See the article CALOPHYLLUM.

CALABASH, in botany, a species of melopepo, or cucurbita. See CUCURBITA.

CALABASH-TREE, the name with the crescentia of Linnaeus.

CALABRIA, the most southerly part of the kingdom of Naples, situated over against Sicily.

There are two provinces of Calabria, called the hither and farther Calabria, with respect to the city of Naples; Cothenza being the capital of the former, and Rheggio of the latter.

CALADE, in the manage, the deficient or sloping declivity of a rising manege ground, being a small eminence upon which we ride down a horse several times, putting him to a gallop, with his forehams in the air, to make him learn to ply or bend his haunches, according to Tournefort, but comprehended under the article PHYLLOPHYLLUM.

CALAMANTH, a name sometimes given to several species of mint. See MENTHA.

CALAMITUS, in natural history, a name given to styrax. See the article STYRA.

CALAMITES, the name by which osteocolla is sometimes called. See the article OSTEOCOLLA.

CALAMUS AROMATICUS, in the materia medica, the stalk of a plant of the calamus or reed kind, met with in pieces of ten or twelve inches long, and from the

bant. It has a fine gloss, and is cashiered in the warp, whence the checks appear only on the right side. Some calaminchus are quite plain, others have broad stripes adorned with flowers; some with plain broad stripes, some with narrow stripes, and others watered.

CALAMIFEROUS, among botanists, the name with culmiferous. See the article CULMIFEROUS.

CALAMINOS, or LAPISSALAMANOS, in natural history, a kind of foil, the general ore of zinc, of a spungy substance, and a lax and cavernous texture, yet considerably heavy.

It is of no determinate shape or size, but is found in masses of a very various and irregular figure. It is, when most pure and perfect, of a pale brownish grey. It is found in Germany, Saxony, Bohemia, and England.

The great use of the lapis calaminaris is the mixing with copper, for the making of brass: this change it makes in copper, is wholly in virtue of the zinc it contains; which zinc, when separated, will do the fame. See BRASS and ZINC. Lapis calaminaris is much used in medicine externally, not only in collyriums for the eyes, but as a defecative for weeping ulcers, and for preventing excoriations in children. It has indeed been made more famous than it deserves in one particular instance, that of its virtue against burns: it is on this account made the principal ingredient in cerate, called, from its pretended inventor, Turner's cerate.

Calamine should be chosen for medicinal uses, the heaviest, softest, and most friable that can be got, and such as is the least debauched by other substances.

CALAMINT, calamintba, in botany, a distinct genus of plants, according to Tournefort, but comprehended under the melisca by Linnaeus. See MELISSA.

Calaminth is esteemed a good aperient and diaphoretic.
CALATHUS, in antiquity, a basket, hamper, or pannier of rushes, reeds, or twigs, for women to put their work in, or to gather flowers in.

CALATHUS was also a vessel, or pan, for cheese-curls and milk; also the name of a cup for wine, used in sacrifices.

CALATOR, in antiquity, was a public servant, and a freeman, such as a bailiff or crier, a sumner, to summon courts, synods, and other public assemblies.

CALATRAVA, a city of new Castile, in Spain, situated on the river Guadiana, forty-five miles south of Toledo; west long. 4° 20', north lat. 39°.

Knights of Calatrava, a military order in Spain, instituted under Sancho III. king of Castile, upon the following occasion. When that prince took the strong fort of Calatrava from the Moors of Andalusia, he gave it to the templars, who, wanting courage to defend it, returned it him again. Then Don Reymond, of the order of the Cistercians, accompanied with several persons of quality, made an offer to defend the place, which the king thereupon delivered up to them, and instituted that order. It increased so much under the reign of Alphonius, that the knights desired they might have a grand matter, which was granted. Ferdinand and Isabella afterwards, with the consent of pope Innocent VIII. reunited the grand mastership of Calatrava to the Spanish crown; so that the kings of Spain are now become perpetual administrators thereof.

The knights of Calatrava bear a cross gules, fleurdelisèd with green, &c. their rule and habit was originally that of the Cistercians.

CALCADA, or St. Domingo de Calca

d, a city of old Castile, in Spain, forty-eight miles east of Burgos; west long. 3°, north lat. 42° 36'.

CALCAMAR, a brazilian sea-fowl, about the size of a pigeon, which is never seen on wing.

CALCANEUM, or Os Calcis, in anatomy, the bone lying under the astragalus, to which, and the os cuboideum, it is articulated. Its apophysis behind, serves to prevent its falling backward, and on its posterior surface is inserted the tendo achillis; in its interior side there is an excavation, intended to give safe passage to the vessels running to the metatarsius and toes.

CALCANTHUM, or Chalcanthum. See the article Chalcanthum.

CALCAR,
CALCAR, in anatomy, the same with calcaneum. See the article CALCANEUM.

CALCAR, in glass-making, a sort of oven, or reverberatory furnace, in which being well heated, the crystal frit, or bollito, is made.

CALCAR, in geography, a town of the duchy of Cleves, and circle of Westphalia, in Germany; east lon. 5° 56', and north lat. 51° 45'.

CALCARIOSUS, in general, denotes something belonging to, or partaking of the nature of calx. See the article CALX.

CALCARIOUS, CALCIS OS, in natural-history, the same with lime-stone. See LIME.

CALCCEARIUM, in botany, a town of Mantua, in Italy, situated about ten miles south of the lake de Garda.

CALCIS OOS, in anatomy. See the article CALCINEUM.

CALCITRAPA, and CALCITRPOIDES, in botany, names used by Vaillant for the centauria of Linnaeus.

CALCULI, in a pear, a congeries of stony concretions, sometimes found in the substance of that fruit. The calculary is a distemper to which some kinds of pear are very liable.

CALCULATION, the act of computing several sums, by adding, subtracting, multiplying, or dividing. See the articles ARITHMETIC, ADDITION, &c.

Several people of Africa, America, and Asia calculate by means of cords, upon which they tie knots. An error in calculation is never protected or secured by any sentence, decree, &c. for in stating accounts it is always understood that errors of calculation are excepted.

CALCULATION is more particularly used to signify the computations in astronomy and geometry, for making tables of logarithms, ephemerides, finding the time of eclipses, &c.

CALCULATION of clock and watch work. See CLOCK and WATCH-WORK.

CALCULUS, in natural history, properly denotes a little stone or pebble. See the article PEBBLE.

CALCULUS, or CALCULUS HUMANUS, in medicine, the stone in the bladder or kidneys. See the article STONE.

CALCULUS also denotes a method of computation, so called from the calculi, or counters, antiently used for this purpose. Hence, CALCULUS SPECIALIS, or LITERALIS, is the same with algebra. See ALGEBRA.

CALCULUS DIFFERENTIALIS is a method of differing quantities, that is, of finding an infinitely small quantity, which being taken an infinite number of times, shall be equal to a given quantity. An infinitely small quantity, or infinitesimal, is a portion
The calculus differentialis, among mathematicians, a method of differentiating exponential quantities, and summing up the differentials of exponential quantities. By an exponential quantity is meant a power, the exponent of which is variable, as \( x^a \), \( a^x \). In order to difference an exponential quantity, nothing else is required than to reduce the exponential quantities to logarithmic ones, upon which the differentiating is managed as in logarithmic ones. For instance, suppose the differential of the exponential quantity \( x^y \) were required.

Let \( x^y = z \)

then will \( \frac{dy}{dx} \) be the second degree, as \( a^x \), suppose

\[
\begin{align*}
1 \times yx + yx^y - 1 & = dx dz \\
1 & = \frac{dy}{dx} + yx^{y-1} dx dz
\end{align*}
\]

That is \( x^y \) is equal to \( x^{y-1} dx dz \). If the exponential quantity to be differentiated be three quantities mutually multiplying each other, the factum of the two must be multiplied into the differential of the third; thus suppose \( \omega x y \); let \( \omega x = t \), and \( \omega xy = \omega yz = \omega zt \); consequently \( d (\omega xy) = t dy + \omega zt \); but if \( dy = -x dx + x dv \). If these values therefore are substituted in the antecedent differential \( t dy + \omega zt \), it follows that \( d(\omega xy) = x dy + \omega x dx + \omega xy dv \). In the same manner must we proceed when the quantities to be differentiated are more than three. But if, while one variable quantity increases, the other, \( y \), decreases, it is evident that \( ydx - xdy \) will be the differential of \( xy \).

The rule for differing quantities that mutually divide each other, is first to multiply the differential of the divisor into the dividend, and on the contrary, the differential of the dividend into the divisor. To subtract the first product from the last. To divide the remainder by the square of the divisor, and the quotient is the differential of the quantities mutually dividing each other. For instance, let \( xy = \omega xy \) be to be differenced: suppose \( xy = t \), and \( \omega xy = \omega zt \); then \( xy = \omega zt \) will be equal to \( t \omega \). But \( (t \omega) = (\omega dt - \omega d\omega) \omega z^2 \); and \( dt = \omega x dy + \omega ydx, \omega d\omega = \omega x dz + \omega z d\omega \). Wherefore \( d (t \omega) = d(xy) = \omega x dy + \omega ydx = \omega x dz + \omega ydx = \omega x dz + \omega ydx \). For a further account of the doctrine of differentials, see the article Fluxions.
CALCULUS INTEGRALIS, or SUMMATORIUS, is a method of summing up differential quantities; that is, from a differential quantity given, to find the quantity from whose differenting the given differential results.

It is the inverse of the calculus differentialis; whence the English, who usually call the differential method fluxions, give this calculus, which ascends from the fluxions to the flowing quantities, or, as Wolfius and other foreigners express it, from the differences to the sums, the name of the inverse method of fluxions. See the articles FLUENT and FLUXION.

Let \( r \) be the sign of the sum, or integral quantity, so that \( r dx \) may denote the integral of the differential \( y dx \). To integrate or sum up a differential quantity, \( y \). It is demonstrated that \( s dx = x \).

\[ s(dx + dy) = x + y \]

To integrate or sum up a differential quantity, \( y \). It is demonstrated that \( s dx = x \).

\[ s(x dy + y dx) = xy \]

By the same method may be found the differential of an exponential quantity of any power. This calculus was invented by Mr. John Bernoulli, and is used in investigating the properties of exponential curves. See Exponential Curve.

CALCULUS INTEGRALIS, or SUMMATORIUS, is a method of summing up differential quantities; that is, from a differential quantity given, to find the quantity from whose differenting the given differential results.

It is the inverse of the calculus differentialis; whence the English, who usually call the differential method fluxions, give this calculus, which ascends from the fluxions to the flowing quantities, or, as Wolfius and other foreigners express it, from the differences to the sums, the name of the inverse method of fluxions. See the articles FLUENT and FLUXION.

Let \( r \) be the sign of the sum, or integral quantity, so that \( r dx \) may denote the integral of the differential \( y dx \). To integrate or sum up a differential quantity, \( y \). It is demonstrated that \( s dx = x \).

\[ s(dx + dy) = x + y \]

To integrate or sum up a differential quantity, \( y \). It is demonstrated that \( s dx = x \).

\[ s(x dy + y dx) = xy \]

By the same method may be found the differential of an exponential quantity of any power. This calculus was invented by Mr. John Bernoulli, and is used in investigating the properties of exponential curves. See Exponential Curve.

CALDARIUM, in the ancient baths, a certain vault, or room, made so as to collect the vapours, and produce sweating; whence it signifies a hot-house, bagnio, flour, or sweating-room.

CALEFACTION, the production of heat in a body from the action of fire, or that impulse impressed by a hot body upon other bodies about it. This word is used in pharmacy, by way of distinction from cociation, which implies boiling; whereas calefaction is only heating a thing.

CALENBURG-CASTLE, the capital of the duchy of the same name, in lower Saxony, in Germany, situated upon the river Leine, about fifteen miles south of Hanover: east longit. 9° 40', and north lat. 53° 20'.

CALENDAR, calendarium, a distribution of time, accommodated to the various uses of life, but more especially such as regard civil and ecclesiastical policy; in which sense it differs nothing from the modern almanacs. See the article ALMANAC.

The first calendar was made by Romulus, who divided the year into ten months only, beginning on the first day of March, and containing 304 days, in which time he imagined the fun performed his course through all the seasons.

This calendar was reformed by Numa Pomphilus, who added two months more, viz. January and February, placing them before March: his year began on the first of January, and consisted of 355 days. This was afterwards improved by Julius Cesar, and was by him called the Julian account;
account, which reduced the year to 365
days, 6 hours; and was retained in most
protestant countries, and in our nation
till the year 1752. This year is disposed
into quadriennial periods, whereof the
three first years, which were called com-
mons, consisted of 365 days, and the
fourth bissextile, of 366. See the article
Bisextile.
The julian account was afterwards cor-
rected by pope Gregory XIII. which on
that account obtained the name of the
gregorian calendar, or new style, the ju-
lian being called the old style: and tho'
the gregorian calendar be preferable to
the julian, yet it is not without its de-
defects: perhaps, as Tycho Brahe and Caffi-
ni imagine, it is impossible ever to bring
the year to a perfect justness. For an ac-
count of the difference of these computa-
tions, see the article Bisextile.

Julian christian Calendar, that wherein
the days of the week are determined by
the letters A, B, C, D, E, F, G; by
means of golden numbers rightly dis-
posed, through the julian year. See the
article Golden number.

Gregorian Calendar, that which, by
means of epacts rightly disposed, through
the several months, determines the new
and full moons, and the time of easter,
with the moveable feasts depending thereon,
by means of golden numbers rightly dis-
posed through the gregorian year. See the
article Epact.

Reformed, or corrected Calendar, that
which, setting aside golden numbers,
epacts, and dominical letters, determines
the equinox, with the pachial full moon,
and the moveable feasts depending thereon,
in the gregorian year. Therefore the
gregorian calendar differs from the
julian, both in the form of the year, and
in that epacts are substituted instead of
golden numbers. See the article Epact.

CALENDS, calendae, in roman antiquity,
the first day of each month, so called
from the greek kalēs, to proclaim: it
being customary, on those days to pro-
claim the number of holy-days in each
month.
The roman method of reckoning the days
of their months has something extremely
singular in it: instead of computing for-
wards, in the natural order of the num-
bers 1, 2, 3, &c. they reckoned back-
wards, in the manner expressed in the
following verses:

Prima dies mensis cujusque est dioxa ca-
landae:
Sex Maius, nonas, Julius, Octobr, & Mars;
Quatuor at reliquias: habet idus quiritum &c.
Inde dies reliquias omnes die efe calendas;
Quas retro numerans, dices a menae se-
quente.

Hence to find the day of our month an-
swering to that of the calends, to the
number of days in the preceding month
add two, and from this sum subtracting
the number of calends given, the remain-
der will be the day of our month: thus
the fourth of the calends of June is found to
answer to the twenty-ninth of May:
and so in other cases.

CALENDULA, MARYGOLD, in botany,
a genus of the polygamia-necessaria class
of plants, the compound flower of which
is radiated, and the particular herma-
phrodite ones tubulose, and lightly divid-
ed into five segments of the length of the
cup: there are no central feeds of the
discus; thoe of the periphery are some-
times, though rarely, solitary; they are
of a membraneous substance, compress-
ed and cordated.

This plant, among physicians, passus for
alexipharmic and hyteric.

CALENTURE, calentura, in medicine,
a feverish disorder incident to sailors in
hot climates; the principal symptom of
which

Instrument is composed of two thick cylin-
ders, or rollers, of very hard and polish-
ed wood, round which the stuffs, to be
calendered, are wound: these rollers are
placed-cross-ways between two very thick
boards, the lower serving as a fixed base,
and the upper moveable, by means of a
thick screw, with a rope fastened to a
spindle, which makes its axis: the upper-
most board is loaded with large stones ce-
mented together, weighing 20000 lb. or
more. It is this weight that gives the polish
and makes the waves on the stuffs about the
rollers, by means of a shallow indenture
or engraving cut in it.
CALI, in geography, a town of Bulgaria, situated upon the Black-Sea, belonging to the Turks.

CALIBER, or CALIPER, properly denotes the diameter of any body: thus we say, two columns of the same caliber, the calibers of the bore of a gun, the caliber of a bullet, &c. See CANNON, &c.

CALIBER-COMPASSES, the name of an instrument, made either of wood, iron, steel, or brass: that used for measuring bullets consists of two branches, bending inwards, with a tongue fixed to one of them, and the other graduated in such a manner, that if the bullet be compressed by the ends of the two branches, and the tongue be applied to the graduated branch, it will shew the weight of the bullet. See plate XXXV. fig. 3.

CALIBER also signifies an instrument used by carpenters, joiners, and bricklayers, to see whether their work be well squared.

CAlICULAN, or Quilon, in geography. See the article Quilon.

CAlICULARIS, in botany, a name sometimes used for the {Hyoscyamus} of botanists.
CALKING, or C'ALKA, a
CALLS, Artificial
CALLABAS, a vine,
to the
ticle.
Calkins are apt to
wards, quite a poil the foot. 
Calkins are either single or 
that is, at one end of the
both; these last are deemed lefs hurtful, 
as the horse can rare more even.

CALL, among hunters, a lefs blown up
on the horn, to comfort the hounds.

CALLS, natural and artificial, among
fowlers, a sport much practised during the 
wooning feaon of partridges, espe-
cially for taking cock-partridges; for which 
they put a hen into a cage, to call and
bring them near. The hen-partridge
should be set near a hedge, in a thin,
open, wire-cage, so that she may be seen,
at a good distance: then the net, called
hallier, should be placed quite round the
cage, each part about the distance of
twenty feet: the fowler should retire be-
hind the hedge.

Artificial CALLS are beet made of box, va-

lute-tree, or the like: they are formed of the
bignefs of an hen's egg, bored thro'
from end to end; about the middle there
must be a hole hollowed within, to
the bottom; then have a pipe of a swan's
quill, and the bone of a cat's foot, open-
ed at one end, which must be conveyed
into the hole at the end, and so thurft in-
to the hole at the middle; take afterwards 
a goose quill, opened at both ends, and
put it in at the other end of the call; 
blew into the quill, and it will make the
ike noise as the partridge-cock does.

CALLA, in botany, a genus of the gym-
nandria-polyandria clas of plants, hav-
ing no corolla the fruits are berries of
one cell each, containing many seeds of
an oblong cylindrical figure, obtufe at
both ends.

CALLABAS, a town of Indoftan in Afsa,
upon the road from Surat to Agra.

CALLAO, a port-town in a little ifland
on the coast of Peru, in south America,

CALLEN, a town of Ireland, in the
province of Kilkenny, and province
of Lein-
fier, about ten miles south-west of Kil-
kenny: west longit. 7° 22', and north
latitude 52° 25'.

CALLER, or CALENDER. See the arti-
cle CALENDER.

CALLIBER, or CALIBER. See the article
CALIBER.

CALICHTHYS, a fish otherwise called
stromateus. See STROMATEUS.

CALLICO, in commerce, a kind of lin-
nen manufacture, made of cotton, chiefly
in the East Indies, some of which
are painted with various flowers of different
colours; and others that are never dyed,
having a stripe of gold and silver quite thro'
the piece; and at each end they fix a tis-
fiue of gold, silver and filk, intermixed
with flowers. This manufacture is brought:
ither by the East India company, and is
re-exported by merchants to other parts of
Europe. The general wear of flained or
printed india callicos in this nation hav-
ning become a general grievance, and occa-
sioning unfpeakable diftrefs upon our own
manufacturers, they were prohibited by
flat. 7 Geo. I. cap. vii.

CALLIDRYS, in ornithology, the name of
two birds, called in english redshank and
knot. See REDSHANK and KNO T.

CALLIFORNIA, a large country of the
West Indies, lying between 116° and 138°
west longitude, and between 23° and

46° north latitude. It is uncertain whether
it be a peninsula or an ifland.

CALLIGONUM, in botany, a genus of the polyandria-digynia clas of plants,
having no flower; the fruit is an oval,
comprefled, frifated, hairy pericarpium,
with biffid tops, turning backwards; the
feed is fingle.

CALLIGRAPHUS, in antiquity, a co-
pit or scribe, who transcribed, in a
fair hand, what the notaries had taken
down in notes, or minutes, being gene-
really in a kind of cypher or short-hand,
which, as they were in that hand, being
underford by few, were copied over fair,
and, at length, by persons who had a good
hand, for sale, &c.

CALLIMUS, in natural histo-
ry, the name used by the antients for the
loose substance found within the ætite, or
eagle-stone. See the article æTITE.
CALLING the house, in the British parliament, is the calling over all the members names, every one answering to his own, and going out of the house, in the order in which he is called: they do, in order to discover whether there be any persons there, not returned by the clerk of the crown; or if any member be absent without leave of the house.

CALLION, in botany, a name used by the antients for the alkekengi.

CALLIONYMUM, in botany, a name given to the lilly of the valley.

CALLIONYMUS, in ichthyology, a fish otherwise called the uranoscopus, or star-gazer. See the article URANOSCOPUS.

CALLISTEA, in grecian antiquity, a lebanian festival, wherein the women presented themselves in Juno's temple, and the prize was assigned to the fairest. There was another of these competitions at the festival of Ceres Eleusinia, among the Parthians, and another among the Eleans, where the most beautiful man was presented with a complete suit of armour, which he consecrated to Minerva, to whose temple he walked in procession, being accompanied with his friends, who adorned him with ribbons, and crowned him with a garland of myrtle. See the article CALATAJUD.

CALLITAJUD, or CALATAJUD. See the article CALATAJUD.

CALLITRICHUM, in botany, a name sometimes given to adiantum. See the article ADIANTUM.

CALLOUS, callojus, something partaking of the nature of a callus.

CALLOSUM CORPUS, in anatomy, a whitish hard substance, joining the two hemispheres of the brain, and appears in view when the two hemispheres are drawn back. See the article BRAIN.

In this part Lancisi and several others have supposed the soul particularly to reside.

CALLUS, or CALLOSITY, in a general sense, any cutaneous, corneous, or officious hardness, whether natural or preternatural; but most frequently it means the callus generated about the edges of a fracture, provided by nature to preserve the fractured bones, or divided parts, in the situation in which they are replaced by the surgenon.

A callus, in this last sense, is a sort of jelly, or liquid viscid matter, that sweats out from the small arteries and bony fibres of the divided parts, and fills up the shinks, or cavities, between them. It first appears of a cartilaginous substance, but at length becomes quite bony, and joins the fractured part so firmly together, that the limb will often make greater resistance to any external violence with this part, than with those which were never broken.

But as the new flesh in wounds will often sprout up too fast, so will the callus in fractures, and by this means render the limb uneven and deformed; the only measure to prevent this luxuriance, is by making the bandage somewhat tighter than ordinarily, and wetting it first with spirits of wine. When the callus is indurated, we have no medicine that will destroy it, or take it down: however, the emplastrum de raniis vigor, or mercurio, tying a plate of lead over it, is prescribed for taking it down.

CALLUS is also a hard, dense, insensible knob, rising on the hands, feet, &c. by much friction and pressure against hard bodies.

CALM, in the sea-language, is when there is no wind stirring.

That tract of sea, to the northward of the equator, between 4° and 10° of latitude, lying between the meridians of Cape Verde, and of the cafpermost island of that name, seems to be a place condemned to perpetual calms: the little winds that are being only some sudden uncertain gusts of very small continuance, and less extent. The Atlantic ocean, near the equator, is very much subject, and always attended with these calms.

CALM-SEA is when the sea appears very smooth.

CALMAR, the capital of the province of Gothland, in Sweden, situated on the coast of the Baltic sea, about forty miles north of Carlstrooom: east longitud. 16°, and north latitude 56° 40'.

CALMUKS, certain wandering tribes or hords of Tartars, inhabiting the country north of the Caspian sea, under the protection of Russia.

CALNE, a borough-town of Wilts, about twenty miles north of Salisbury, which sends two members to parliament: well longitud. 2°, and north lat. 51° 30'.

CALOGERI, in church-lilory, monks of the Greek church, divided into three degrees, the novices, called archari; the ordinary professed, called microchemi; and the more perfect, called megalocheni: they are likewise divided into cenobites, anchorites, and recluse. The co-

moites
nobles are employed in reciting their office from midnight to sun-set; they are obliged to make three genuflexions at the door of the choir; and returning, to bow to the right and to the left, to their brethren. The anchorites retire from the conversation of the world, and live in hermitages, in the neighbourhood of the monasteries; they cultivate a little spot of ground, and never go out but on Sundays and holy days, to perform their devotions at the next monastery. As for the recluse, they shut themselves up in grottos and caverns, on the tops of mountains, which they never go out of, abandoning themselves entirely to providence: they live on the alms of the people, a dole of emeralds, of silver, of gold, and are fed from midnight to sun-set; they are shut up in the mountain, at the foot of which, towards the sea, Gibraltar stands. It is half a league in height towards the land, and so steep, that there is no approaching it on that side.

CALOUEING, or CALKING, a term used in painting, &c. where the backside of any design is covered with a black or red colour, and the strokes, or lines, traced through, on a waxed plate, wall, or other matter, by passing lightly over each stroke of the design, with a point, which leaves an impression of the colour on the plate or wall.

CALTHA, MARSH-MARYGOLD, in botany, a genus of the polyandria-polygynia class of plants; the flower of which consists of five large, oval, plane, patent, deciduous petals: the fruit is short, acuminate, patent, bicarinated, and open at the upper future; the seeds are numerous and roundish, and adhere to the upper future.

CALTHA is also the name by which Tournefort calls the calendula, or marygold.

CALTROP, in military affairs, an instrument with four iron points, disposed in a triangular form, so that three of them are always on the ground, and the fourth in the air. They are scattered over the ground where the enemy's cavalry is to pass, in order to embarrass them.

CALTROP, in botany, the English name of the tribulus of botanists. See the article TRIBULUS.

CALVARIA, in anatomy, the hairy scalp, or upper part of the head, which, either by disease, or old age, grows bald first. See the articles HEAD and CALVITIES.

CALVARY, a term used in papish countries, for a fort of chapel of devotion, raised on a little hill near the city, in memory of the place where Jesus Christ was crucified, near Jerusalem.

CALVARY, in heraldry; a cross so called, because it resembles the cross on which our Saviour suffered. It is always set upon steps. See plate XXXV. fig. 4.

CALVI, a town of the province of Lavoro, in the kingdom of Naples, situated near the sea, about fifteen miles south of the city of Naples: east longitude 14° 45'; and north latitude 41° 15'.

CALVI is also the name of a sea-port in the island of Cereria; situated on a bay, on the west side of the island, about forty miles south-west of Bastia: east longitude 9° 57', and north lat. 42° 16'.

K k k CALVINISTS:
CALVINISTS, in church-history, those who follow the opinions of John Calvin, one of the principal reformers of the church, in the XVth century, a person of great parts and industry, and of considerable learning; whose doctrine still subsists in its greatest purity at Geneva, where it was first broached, and from whence it was propagated. This is the prevailing religion of the United Provinces. In England, it is confined among the dissenters; and, in Scotland, it subsists in its utmost rigour.

The calvinists are great advocates for the absolutenes of God's decrees, and hold that election and reprobation depend on the mere will of God, without any regard to the merit or demerit of mankind; that he affords to the elect an irreifiable grace, a faith that they cannot lose, which takes away the freedom of will, and necessitates all their actions to virtue.

The calvinists believe that God foreknew a determinate number, whom he pitched upon to be perfons, in whom he would manifest his glory; and that having thus foreknown them, he predestinated them to be holy, in order to which he gives them an irreifiable grace, which makes it impossible for them to be otherwise.

CALVITIES, or CALVITUM, in medicine, baldness, or a want of hair, particularly on the finciput, occasioned by the moisture of the head, which, being dried up, by some disease, old age, or the immoderate use of powder, &c. See the article ALOPECIA.

CALUMET, a symbol of peace among the indians, in the north of America; it is made of a red stone, like our marble; the head resembles our tobacco-pipes, but larger; and is fixed on a hollow reed, to hold it for smoking: they adorn it with feathers and a general term expressing the cup of a flower, or that part of a plant which covers the parts of the flower. The capules of most of the mosses have calyptrre. See the articles PERIANTHEUM, &c.

CALUMET, a river, antiently called Grant, which, arising in Hertfordshire, runs north-east by Cambridge, and afterwards continues its course northwards, to the Isle of Ely, where it falls into the river Ouse.

CAMÆA, in natural history, a genus of the semipellucid gems, approaching to the onyx structure, being composed of zones, and formed on a crystalline basis; but having their zones very broad and thick, and laid alternately on one another, with no common matter between; usually less transparent, and more debated with earth, than the onyxes.

1. One species of the camæa is the dull-looking onyx, with broad black and white zones; and is the camæa of the moderns, and...
and the arabian onyx: this species is found in Egypt, Arabia, Persia, and the East Indies. 2. Another species of the cameo is the dull, broad-zoned, green and white cameo, or the jaspi-cameo of the Italians: it is found in the East Indies, and in some parts of America. 3. The third is the hard cameo, with broad white and chestnut-coloured veins. 4. The hard cameo, with bluish, white, and flesh-coloured broad veins, being the cardonyx of Pliny's time, only brought from the East Indies.

CAMAIÉU, or CAMÉHUA, in natural history, the same with cameo. See the preceding article.

CAMALDIANS, a religious order founded by St. Romuald, in a little plain, on the mount Apeninne, called Camaldoli, situated in the state of Florence. The manner of life first enjoined this order, was that they dwelt in separate cells, and met together only at the time of prayer: some of them, during the two lent s of the year, observed an inviolable silence; and others, for the space of an hundred days. On Sundays and Thursdays they fed on herbs, and the rest of the week only on bread and water. These constitutions were, however, a little moderated sometime afterwards. This hermitage is now accounted very rich.

CAMÁRA, in botany, a species of the lantana. See the article LANTANA.

CAMARANA, an island of Arabia, in the Red-Sea, situated in 15° north latitude.

CAMBIA, a city of the province of Cambia, or Guzarat, in the hither peninsula of India; it is a very large city, and had once a great trade, now removed to Surat: east longitude 72°, and north lat. 23° 30'.

CAMAYES, in commerce, cotton linens made at Bengal, at Madras, and some other places on the coast of Coromandel.

CAMBER-BEAM, among builders, a piece of timber in an edifice, cut archwise, or with an obtuse angle in the middle, commonly used in platforms, as church-leads, and on other occasions where long and strong beams are required.

CAMBERED-DECK, one that lies encompassing, or higher in the middle than at either end; by no means fit for a ship of war.

CAMBLET, or CAMLET, a plain stuff, composed of a warp and woof, which is manufactured on a loom, with two tred- dles, as linens and flannins are. There are camlets of several sorts, some of goat's hair, both in the warp and woof; others, in which the warp is of hair; and the woof half hair and half silk; others again, in which both the warp and the woof are of wool; and lastly, some, of which the warp is of wool and the woof of thread. Some are dyed in thread, others are dyed in the piece, others are marked or mixed; some are striped, some waved or watered, and some figured. Camlets are proper for several uses, according to their different kinds and qualities; some serve to make garments both for men and women; some for bed curtains; others for household furniture.

CAMBODIA, the capital of a kingdom of the same name in India, beyond the Ganges: east longitude 104°, and north lat. 12° 30'. The kingdom of Cambodia extends from 5° to 15° of north latitude, being bounded by the kingdom of Laos on the north, Cochinchina on the east, the Indian ocean on the south, and by the bay of Siam on the west.

CAMBRAY, a city in the French Netherlands, situated on the river Schelde, near its source: east longitude 3° 15', and north lat. 50° 15'. It is a large and well built city, considerable for its linen manufacture, especially cambricks, which took their name from hence.

CAMBRICKS, a species of very fine white linen, made of flax at Cambray.

CAMBRIDGE, the capital of Cambridge-shire, situated upon the river Cam, about fifty-five miles north of London, and sixty north-east of Oxford: east longitude 5', and north lat. 52° 15'. Cambridge is most remarkable on account of its university, which consists of sixteen colleges, wherein are educated about fifteen hundred students. There are fourteen parishes in the town, which is said to contain about fix thousand inhabitants.

New CAMBRIDGE, a town of New-England, about three miles west of Boston; likewise remarkable for an university, consisting of three colleges: west longitude 70° 4', and north lat. 44°.

CAMBRING, in the vein-language. See the article CAMBERED-DECK.
CAM, or CAMEL, in natural history.
See the article CAMEL.

CAMEL, camelus, in zoology, a genus of quadrupeds, of the order of the pecora; distinguished from the rest by having no horns.

This genus comprehends the camel, properly so called, with two bunches on its back; the dromedary, or camel with a single bunch; the glama, or peruvian camel, with a gibbous breast and even back; and the pacos, or camel with no gibbosity at all.

The camel is larger than the dromedary, and covered with a fine fur, shorter as well as softer than that of the ox-kind; only about the bunches there grow hairs nearly a foot long. It is a native of Asia, particularly of Bactria, and makes an excellent beast of burden. See plate XXXV. fig. 6.

CAMELION, or CHAMELEON, in zoology. See the article CHAMELEON.

CAMELFORD, a borough-town of Cornwall, about twenty miles west of Landefoton: west longit. 5°; and north lat. 50° 40'. It sends two members to parliament.

CAMELITA BOS, in zoology, a kind of wild bull, with a bunch on its back: probably the same with the bufon.

CAMELIA, in botany, a genus of the monadelphia-polyandria class of plants: the flower consists of five ovated petals, connected vertically at the base; the fruit is a turbinate, lignose, and furrowed capsule; the seeds are numerous and small.

CAMELOPARDALIS, in zoology, a creature of the deer-kind, otherwise called zurnapa. See the article ZURNAPA.

CAMELUS, the CAMEL, in zoology. See the article CAMEL.

CAMERA OBSCURA, in optics, a machine representing an artificial eye, wherein the images of external objects are exhibited distinctly, in their native colours, either inverted, or erect.

The camera obscura, or darkened room, is made after two different methods; one is the camera obscura, properly so called, that is, any large room made as dark as possible, so as to exclude all light, but that which is to pass through the hole and lens in a ball, fixed in the window in thesaid room.

The other is made in various forms, as that of a box, whose sides fold out, &c. for the convenience of carrying it from place to place.

CAMERATED, among builders, the same with vaulted or arched.

CAMERET-BAY, in the province of Brittany, in France, forms the harbour of Brest. See the article BREST.

CAMERINO, a town of the Ecclesiastical state, in Italy.

CAMERLINGO, according to Ducange, signifies formerly the pope's or emperor's treasurer; at present, camerlingo is no where used, but at Rome, where it denotes the cardinal who governs the ecclesiastical state, and administers justice. It is the most eminent office at the court of Rome.
Fig. 1. Cabled or Corded Cross.

Fig. 2. Cachrys.

Fig. 3. Caliber Compasses.

Fig. 4. Calvary Cross.

Fig. 5. Canceres, Crabs.

Fig. 6. Camel.

Fig. 7. Camera Obscura.
CAMERON-CAPE, a promontory on the north part of the province of Honduras, in north America.

CAMERONIANS, a party of presbyterians, which sprung up in Scotland, in the reign of King Charles II. They affirmed that the king had forfeited his right to the crown, by breaking the solemn league and covenant, which were the terms on which he received it. They pretended both to dethrone and excommunicate him; and broke out into an open rebellion. Upon the revolution, they were reconciled to the kirk, and their preachers submitted to the general assembly of the church of Scotland, in 1690.

CAMERY, or FROUNCE, in horses. See the article FROUNCE.

CAMILLI, and CAMILLÆ, in roman antiquity, a certain number of boys and girls, who affisted in the sacrifices to the gods; but more especially attended the flamens dialis.

CAMINEC, or KAMINEC, in geography. See the article KAMINEC.

CAMMINHA, a port-town of Portugal, situated at the mouth of the river Minho, about ten miles north of Viana; west long. 9° 20', and north lat. 41° 50'.

CAMINI, in botany, the same with the greek term for hemlock.

CAMINEC, or KAMINEC, in botany. See the article PARAGUAY.

CAMIS, or KAMIS, in the japonese affairs, denote the deified souls of illustrious personages, believed to interest themselves in the welfare of their countrymen: in which sense they answer to the deified heroes of antiquity. See the article HERO.

CAMISADE, in the art of war, an attack by surprise in the night, or at the point of day, when the enemy is suppos'd a-bed.

CAMISARDS, a name given by the French to the calvinists of the Cevennes, who formed a league, and took up arms in their own defence, in 1638.

CAMLET, or CAMBLET. See the article CAMLET.

CAMLETINE, a light stuff, made of hair and coarse silk, in the manner of camblet. It is now out of fashion.

CAMMIN, a port-town of Brandenburg-Pomerania, in Germany, situated on the eastern mouth of the river Oder, about thirty miles north of Stettin: east long. 15°, and north lat. 54°.

CAMMOCK, in botany, a name sometimes given to the anoni, or reef-harrow.

CAMMOROS, in botany, a corruption of cacomoros, a greek term for hemlock.

CAMP, the ground upon which an army pitch their tents. It is marked out by the quarter-master-general, who appoints every regiment their ground. The chief advantages to be minded in choosing a camp for an army, are to have it near the water, in a country of forage, where the soldiers may find wood for dressing their victuals; that it have a free communication with garrisons, and with a country from whence it may be supplied with provisions; and, if possible, that it be situated on a rising ground, in a dry gravelly soil. Besides, the advantages of the ground ought to be considered, as marshes, woods, rivers, and inclosures; and if the camp be near the enemy, with no river or marsh to cover it, the army ought to be intrenched. An army always encamps fronting the enemy; and generally in two lines, running parallel about five hundred yards distance; the horse and dragoons, on the wings, and the foot in the center: sometimes a body of two, three, or four brigades is encamped behind the two lines, and is called the body of reserve. The artillery and baggage-wagons are generally encamped in the rear of the two lines. A battalion of foot is allowed eighty or an hundred paces for its camp; and thirty or forty for an interval betwixt one battalion and another. A squadron of horse is allowed thirty for its camp, and thirty for an interval, and more if the ground will allow it.

The disposition of the hebrew encampment was at first laid out by God himself: their camp was of a quadrangular form, surrounded with an inclosure of the height of ten hand's breadth. It made a square of twelve miles in compass, about the tabernacle; and within this was another, called the levites camp. The Greeks had also their camps, fortified with gates and ditches. The Lacedaemonians made their camp of a round figure, looking upon that as the most perfect and defensible of any form: we are not, however, to imagine, that they thought this form
Indies, as CAMP is also used, by the Siamese, and FLYING CAMP-DISEASES, in geography. See the CAMPAIGN, in the art of war, denotes the place required for it. Thus the mollusk fed with, when the circumstances of Greek camps, it may be observed, that the most valiant of the soldiers were placed at the extremities, the rest in the middle. Thus we learn from Homer, that Achilles and Ajax were the camp before Troy, as bulwarks on both sides. Though this, without doubt, was often accommodated to the situation of the place. They were always fortified, and a very exact discipline maintained in them, in order to prevent surprises from the enemy.

CAMP is also used, by the Siamese, and some other nations in the East-Indies, as the name of the quarters, which they assign to the foreigners who come to trade with them. In these camps, every nation forms, as it were, a particular town, where they carry on all their trade, not only keeping all their ware-houses and shops there, but also live in these camps with their whole families. The Europeans, however, are so far indulged, that at Siam, and almost everywhere else, they may live either in the cities or suburbs, as they shall judge most convenient.

FLYING CAMP, the ground on which a flying army is encamped.

CAMP-DISEASES are chiefly a bilious fever, malignant fever, feverous fluxes, &c. See the articles FEVER and CAMPAIGN.

CAMP-HOSPITAL. See HOSPITAL.

CAMPAGNA, in geography. See the article CAMPANA.

CAMPAGNE, in the art of war, denotes the space of time that an army keeps the field, or is encamped, in opposition to quarters.

Concerning the healthiness of the different seasons of a campaign, the ingenious Dr. Pringle has the following observations: the first fortnight or three weeks is always sickly, after which the sickness decreases, and the men enjoy a tolerable state of health throughout the summer, unless they get wet cloaths. The most sickly part of the campaign is towards the end of August, when the days are still hot, but the nights cold and damp, with fogs and dews; then, if not sooner, the dyentery prevails; and though its violence is over by the beginning of October, yet the remitting fever gains ground, continues throughout the rest of the campaign, and never entirely ceases, even in winter-quarters, till the frosts begin. He likewise observes, that the last fortnight of a campaign, if protracted till the beginning of November, is attended with more sickness than the two first months of the encampment; so that it is better to take the field a fortnight sooner, in order to return into winter-quarters as much the earlier.

As to winter-expeditions, though severe in appearance, he tells us, they are attended with little sickness, if the men have strong shoes, warm quarters, fuel, and provisions enough. See the articles CAMP and SOLDIER.

CAMPANA, floruæ, in botany, a name by which some call the pulsatilla of Linnaeus. See the article PULSATILLA.

CAMPAGNIA, a city of the hither Principate, in the kingdom of Naples, situated about thirty-five miles south-east of the city of the Naples: eait long. 15° 30', and north lat. 40° 45'.

CAMPANA, or CAMPAGNA di ROMA, a province of the pope's territories, in Italy, extending from the city of Rome south-east, as far as the frontiers of the kingdom of Naples.

CAMPANIFORM, or CAMPANULATED, an appellation given to flowers resembling a bell; a characteristic, whereon Tournefort establishes one of his classes of plants. See the article BOTANY.

Of campaniform flowers, we meet with four varieties. 1. The bell-flower, properly so called. 2. The oblong or tubular bell-flower. 3. The bell-flower, expanded to a greater width at the mouth, and consequently resembling a bonnet.

4. The globular, or roundish bell-flower; the mouth of which is narrower than its belly.

CAMPANINI, a name given to a marble of Italy, dug out of the mountains of Carrara; because, when it is worked, it resembles a bell.

CAMPANULA, bell-flower, in botany, a genus of the pentandria-monogynia class of plants; the flower of which consists of a campanulated single-petal; the base, broad and impervious; the limb lightly divided into five broad, acute, and patulous segments. The nectarium is situated in the bottom of the corolla, and is formed of five acute convenient valves. The fruit is an angulated roundish capsule, with three or five cells, and having so many foramina in the sides, for letting out the seeds...
CAMBELL-TOWN, a parliament-town, of Argyllshire, in Scotland, situated on the eastern coast of Cantire, about ten miles west of the island of Arran: west long. 5° 10', and north lat. 55° 35'.

CAMPDEN, a market-town, in Glouceffhire, about eighteen miles northeast of Gloucefter: west longitude 1° 50', and north latitude 52°.

CAMPEACHY, or CAMPEACHY-WOOD, a town of the province of Jucatan, on the bay or gulf of Mexico: west longitude 93°, and north latitude 19°.

CAMPEACHY-WOOD, campecia, in botany, the fame with the hæmatoxylum of Linnaeus; otherwife called log-wood.

It is brought to us in large and thick blocks or logs, and is the heart only of the tree which produces it. It is very heavy, and remarkably hard. It is not longitudinally split, but it splits pretty readily in a longitudinal direction.

Campeachy-wood must be chosen in large and thick pieces, found, and of a deep red colour. It has been long known among the dyers; but it is only of late, that it has been introduced into medicine. It is found to be an excellent astringent, and is given, in form of an extract, in diarrhoeas, with very great success.

CAMPEN, a port-town, in the province of Overyssel, in the united Netherlands, near the mouth of the river Ijssel, about forty-two miles north-east of Amsterdam: east long. 5° 40', and north lat. 52° 31'.

CAMPHOR, or CAMPHIRE, in the materia medica, a body of a particular nature, being neither a resin, nor a volatile salt, nor an oil, nor a juice, nor a bitumen, nor a gum, but a mixed substance, dry, white, transparent and brittle, of a strong and penetrating smell. The Indians distinguish two kinds of it, a finer and a coarser; the finer is the produce of Borneo and Sumatra, is very rare, and never is sent into Europe; the coarser is the Japonefe kind, which is the common fort, both in the Indies and in Europe.

The camphor, which we meet with in the shops, is also of two kinds, differing in regard to the degree of their purity, and distinguished by the name of rough and refined camphor.

The tree, which produces camphor, is a species of bay-tree, every part of which abounds with camphor; but it is not collected from it in the manner of other refining, but by a fort of chemical process. The natives of the places, where the trees grow, cut the wood and roots into small pieces, and put them into large copper vessels, which they cover with earthen heads, filled with straw; they give a moderate fire under them, and the camphor is raised in form of a white downy matter, and retained among the straw: when the process is over, they shake it out of the straw, and knead it into cakes. These cakes are not very compact, but easily crumble to pieces; they are moderately heavy, of a greyish or dusky reddish white in colour, of a pungent smell, and acrid taste, and are what we call rough camphor.

Refined camphor must be chosen of a perfectly clean white colour, very bright and pelucid, of the fame smell and taste, with the rough, but more acrid and pungent.

It is so volatile, that merchants usually inclofe it in lin-feed, that the viscosity of that grain may keep its particles together.

It has various ues, as in fire-works, varnish, &c. but its principal use is in medicine. There have been great disputes among physicians on the subject of its virtues: some have declared it to be cold, others hot; they argue for its being cold, from its abating venery, and being good against inflammations of the eyes; and those, who account it hot, produce, in their favour, its acrid taste, fragrant smell, its inflammability, and the great subtility and volatility of its parts.

At present, it is much used in medicine, both internally and externally. In cases, both of the recent and inverteber iles venerea, this medicine, skilfully prepared and applied, has been recommended to be used instead of the common indoric discretion of the woods. It may also be advantageously mixed along with the balsains, or fine turpentine, commonly used at the close of that distemper. Some physicians have recommended it in all inflammatory, putrid, peffilential, and even maniacal dillafes. It also promotes the menes and urine, and is good in ulcerations of the kidneys and bladder.

Camphor may probably be extracted from all plants, which abound with an essential oil; yet it would differ with regard to the smell, always retaining that of the tree from which it is extracted. The reader may
CAMUS, a person with a low flat nose, hollowed in the middle.

The Tartars are great admirers of camus beauties. Rubruquis observeth, that the wife of the great Jenghis Kan, a celebrated beauty, had only two holes for a nose.

CAN, in the sea-language, as can-pump, a vessel wherein men pour water into the pump to make it go.

CAN-RUOX, a larger size of buoy, used to discover dangerous rocks and shelves, by being placed over them.

CAN-HOOK. See the article Hook.

CANADA, or New France, an extensive tract of North America, bounded by New Britain and the British colonies on Hudson's bay, on the north; by the river of St. Lawrence, the Iroquois, or five Indian nations, the Huron and Illinois lakes, on the east and south; and by unknown lands, on the west. Its chief town is Quebec.

CANAL, in anatomy, a duct or passage through which any of the juices flow; as 1. the semicircular canals, distinguished by the epithets of the largest; the middle one, and the least, in the labyrinth of the ear, opening by five orifices,
CANARY, properly CANANOR, a fair port town of Asia, upon the coast of Malabar: from whence they have got their name; which is thought, the figure of a crab-fish; or, as others say, because it is as the bristle into its shell, which they feared to break away. See the article CANARIES.

CANCELLI, a small town of France, near St. Malo's, where ships may ride in eight fathoms water, with a sandy bottom.

CANCELIER, in falconry, is when a light-brown hawk, in her floooping, turns two or three times upon the wing, to recover herself, before she seizes.

CANCELLI, a term used to denote lattice-windows, or those made of cross-bars, disposed lattice-wise: it is also used for rails or balusters, inclosing the communion-table, a court of justice, and the like.

CANCER, the Crab, in zoology, the name of one of the divisions of Equinox, comprehending all those with short-tails. See the article SQUILLA.

Crabs are a well-known shell-fish, of which there are a great many species; as the common large crab, the spider-crab, the molucca-crab or king-crab, the little wooly-crab, the prickly long-armed-crab, &c. See plate XXXV. fig. 5, where no. 1 represents the common great crab, and no. 2 the spider-crab.

CANCER, in medicine, a roundish, unequal, hard, and livid tumour, generally seated in the glandulous parts of the body, supposing to be so called, because it appears at length, with turgid veins shooting out from it, so as to resemble, as it is thought, the figure of a crab-fish; or, as others say, because, like that fish, where it has once got, it is scarce possible to drive it away.

Cancerous, or scirrhus tumours, often appear spontaneously, without any evident cause, and seem peculiar to certain constitutions; at other times, they may be accidental, or proceed from sharp corrosive, or other coagulating juices in the body, errors in the non-naturals, a stoppage in the necessary evacuations, contusion, stagnation, or coagulation of milk in the breasts, &c.

The cancer is allowed to be the most terrible evil that befals the body; it is usually cured, while yet a small tumour of the bigness of a nut, or, at most, a small egg, by extirpation. When it seizes the breast, or is burst into an ulcer, amputation takes place. It begins without any pain, and appears, at first, like a cicatry-pec, but grows apace, and becomes very painful. The tumour arises generally on the lax, glandulous parts, as the breasts and emacinations: the reason of its appearing in the breasts, more than in other parts, is their being full of glands.
with lymphatics and blood-veins among them: the smallest contusion, compreflion, or punction extravatates those liquors, which grow, by degrees, acrimonious from the cancer.

The cancer is found in other soft spongy parts of the body; and there have been some found in the gums, belly, neck of the matrix, ureters, lips, nose, cheeks, abdomen, penis, thighs, &c.

A cancer, arising on the leg, is called a lupus; on the face and nose, a noli me tangere. Some a cancer happens spontaneously, is of long standing, or the patient in years: if the tumour is recent, it may be attempted to be disused; but if it increases, fo as to endanger the life of the patient, it must either be consumed with caustics, or, if possible, totally extirpated. When the whole ball of the eye is grown cancerous, it has been entirely taken out of its cavity, without preventing the disorder from being mortal.

CANCER, in astronomy, one of the twelve signs of the zodiac, represented on the globe in the form of a crab, and thus marked (κ) in books. Ptolemy makes it contain only thirteen stars, Tycho Brahe fifteen, Bayer and Hevelius twenty-nine, and Flamsteed no less than seventy-one.

It is the fourth sign, reckoning from aries, and gives name to one of the quadrants of the ecliptic.

Tropic of CANCER, in astronomy, a letter circle of the sphere parallel to the equator, and passing through the beginning of the sign cancer.

CANCEROUS, something belonging to, or partaking of the nature of a cancer. See the article CANCER.

CANCHERIZANTE, or CANCHERI- ZATO, in the Italian music, a term signifying a piece of music that begins at the end, being the retrograde motion from the end of a song, &c. to the beginning.

CANCRIFORM, an appellation given to things resembling a crab. See CANCER.

CANDAHOR, the capital of a territory of the same name, subject to Persia: east long. 69°, and north lat. 35°.

CANDELARIA, in botany, a name sometimes given to the great white mullein.

CANDENOS, an island of the Russian empire, at the entrance into the white sea.

CANDIA, the modern name of Crete, an island situated in the Mediterranean sea, between
between 25° and 27° east longitude, and between 35° and 36° north latitude.

There is no river of any consequence in the whole island, which is watered by a multitude of rivulets; whereof Lethe is one. Here too is mount Ida, so much celebrated in the writings of the antients.

CANDIA, or MUTIUM, is the capital of the above island, situated on its northern coast, in 25° east long. and 35° 30' north lat.

CANDIDATE, a person who aspires to some public office.

In the roman commonwealth, they were obliged to wear a white gown, during the two years of their soliciting for a place. This garment, according to Plutarch, they wore without any other cloaths, that the people might not suspect they concealed money for purchasing votes; and also, that they might the more easily show to the people, the scars of those wounds they had received in fighting for the defence of the commonwealth.

CANDIDATI MILITES, an order of soldiers, among the Romans, who served as the emperor's body-guards, to defend him in battle. They were the tallest and strongest of the whole troops, and most proper to inspire terror. They were called candidati, because cloathed in white, either that they might be more conspicuous, or because they were considered in the way of preferment.

CANDISH, a province of the hither India, bounded by Chitor and Malva, on the north; by Oriza, on the east; by Decan, on the south; and by Gruzurat, on the west: it is subject to the mogul.

CANDISI, or CANDES. See the article STRUTHIUM.

CANDLE, a small taper of tallow, wax, or sperma ceti; the wick of which is commonly of several threads of cotton, spun and twisted together.

A tallow-candle, to be good, must be half sheep, and half bullocks tallow, for hogs tallow makes the candle gutter, and always gives an offensive smell, with a thick black smoke. The wick ought to be pure, sufficiently dry, and properly twisted, otherwise the candle will emit an unconstant vibratory flame, which is both prejudicial to the eyes, and insufficient for the distinct illumination of objects.

There are two sorts of tallow-candles; the one dipped, the other moulded: the former are the common candles; the others are the invention of the sieur le Brege at Paris.

As to the method of making candles, in general; after the tallow has been weighed, and mixed in the due proportions, it is cut into very small pieces, that it may melt the sooner; for the tallow in lumps, as it comes from the butchers would be in danger of burning or turning black, if it were left too long over the fire. Being perfectly melted and skimmed, they pour a certain quantity of water into it, proportionable to the quantity of tallow. This serves to precipitate, to the bottom of the vessel, the impurities of the tallow, which may have escaped the skimmer. No water, however, must be thrown into the tallow, designed for the three first dips, because the wick, being still quite dry, would imbibe the water, which makes the candles crackle in burning, and renders them of bad use. The tallow, thus melted, is poured into a tub, through a coarse sieve of horse-hair, to purify it still more, and may be used after having stood three hours. It will continue fit for use twenty-four hours in summer, and fifteen in winter.

The wicks are made of spun cotton, which the tallow-chandlers buy in skains, and which they wind up into bottoms or clues. Whence they are cut out, with an instrument contrived on purpose, into pieces of the length of the candle requir’d; then put on the sticks or broches, or else placed in the moulds, as the candles are intended to be either dipped or moulded.

Wax-candles are made of a cotton or flaxen wick, slightly twisted, and covered with white or yellow wax. Of these, there are several kinds; some of a conical figure, used to illumine churches, and in processions, funeral ceremonies, &c. See the article TAPER.

Others of a cylindrical form, used on ordinary occasions.

The first are either made with a ladle or the hand.

To make wax-candles with the ladle. The wicks being prepared, a dozen of them are tied by the neck, at equal distances, round an iron circle, suspended directly over a large bason of copper tinned, and full of melted wax: a large ladle full of this wax is poured gently on the tops of the wicks one after another, and this operation continued till the candle arrive at its defined height, with
this precaution, that the three first ladles be poured on at the top of the wick; the fourth at the height of \( \frac{1}{3} \); the fifth at \( \frac{1}{3} \); and the sixth at \( \frac{1}{3} \); in order to give the candle its pyramidal form. Then the candles are taken down, kept warm, and rolled and smoothed upon a walnut-tree table, with a long square instrument of box, smooth at the bottom.

As to the manner of making wax candles by the hand, they begin to soften the wax, by working it several times in hot water, contained in a narrow, but deep caldron. A piece of the wax is then taken out, and disposed by little and little, around the wick, which is hung on a hook in the wall, by the extremity opposite to the neck; so that they begin with the big end, diminishing still as they defend towards the neck. In other respects, the method is nearly the same as in the former cafe. However, it must be observed, that in the former cafe, water is always used to moisten the several instruments, to prevent the wax from sticking; and in the latter, oil of olives, or lard, for the hands, &c.

The cylindrical wax-candles are either made, as the former, with a ladle, or drawn. Wax-candles drawn, are so called, because actually drawn in the manner of wire, by means of two large rollers of wood, turned by a handle, which turning backwards and forwards several times, pafs the wick through melted wax contained in a brass bason, and at the same time through the holes of an instrument like that used for drawing wire fastened at one side of the bason.

Makers of candles are not to use melting houes, without due entry thereof at the excise-office, on pain of \( \$ 100 \). And to give notice of making candles to the excise-officer for the duties, and of the number, &c. or shall forfeit \( \$ 10 \). Removing the candles before weighed by the officer, or mixing them with others, is likewise liable to penalties.

Candle is also a term in medicine, and is reckoned among the instruments of surgery. Thus the candela fulnalis, or the candela pro sopitu odorata, is a mass of an oblong form, consisting of odorous powders, mixed up with a third, or more, of the charcoal of willow, or lime-tree, and reduced to a proper consistence with a mucilage of gum-traganth, ladanum, or turpentine. It is intended to excite a grateful smell without any flame, to correct the air, to fortify the brain, and to excite the spirites.

Medicated Candle, or Bougie, in surgery, a small bit of wax in form of a candle, which surgeons introduce into the urethra, either to dilate it and keep it open, or to confume carnovities. There are two sorts of these candles, the one simple, and the other compound. The simple are made of wax, of cat-gut, or even of lead; and the intention of them is to keep the canal of the urethra properly distended. Their thickness, therefore, should be proportioned to the diameter of that canal. The compound bougies are loaded with some medicine capable of producing a suppuration, or of destroying carnovities and excrences in the urethra.

Candle. Sale or auction by inch of candle, is when a small piece of candle being lighted, the bystanders are allowed to bid for the merchandise that is selling; but after the moment the candle is out, the commodity is adjudged to the last bidder.

There is also an excommunication by inch of candle, when the finner is allowed to come to repentance while a lighted candle continues burning; but after it is consumed, he remains excommunicated to all intents and purposes.

Candleberry-tree, in botany, the English name of a species of myricas, called also the virginian myrtle, as being common in that country.

From the berries of this tree, a green kind of wax is drawn by boiling, whereby they make candles; and hence is derived the name candle-berry-tree.

Candlemas, a feast of the church held on the second day of February, in honour of the purification of the virgin Mary. It is borrowed from the practice of the ancient children, who on that day used abundance of lights both in their churches and processions, in memory, as it is supposed, of our Saviour's being on that day, declared by Simeon, "to be a light to lighten the Gentiles."

In imitation of this custom, the roman catholics, on this day, consecrate all the tapers and candles which they use in their churches during the whole year. At Rome, the pope performs that ceremony himself, and distributes wax-candles to the cardinals and others, who carry them in procession thro' the great hall of the pope's palace. This ceremony was prohibited.
The golden candlestick was one of the sacred utensils made by Moses to be placed in the jewelled tabernacle. It was made of hammered gold, a talent in weight. It consisted of seven branches, supported by a base or foot. These branches were adorned at equal distances, with six flowers like lilies, and with as many bowls and knobs placed alternately. Upon the stock and six branches of the candlestick, were the golden lamps, which were immovable, wherein were put oil, gold, silver, and cotton. Out knots, and very smooth and even; in burning, and extinguished every morning. The lamps had their tongues or snuffers to draw the cotton in or out, and dishes underneath them to receive the sparks and droppings of the oil. This candlestick was placed in the antichamber of the sanctuary, on the south side, and served to illuminate the altar of perfume, being varnished over in the inside with gold, silver, and gold, and silver, and knobs placed alternately.

When Solomon had built the temple of the Lord, he placed in it ten golden candlesticks, of the same form as that described by Moses, five on the north, and five on the south side of the holy. But after the babylonish captivity, the golden candlestick was again placed in the temple, as it had been before in the tabernacle by Moses. This sacred utensil, upon the destruction of the temple by the Romans, was lodged in the temple of peace, built by Vespasian; and the representation of it is still to be seen on the triumphal arch at the foot of mount Palatine, on which Vespasian's triumph is delineated.

Water-Candlestick, a kind of fountain, the spout of which is raised upon a pedestal in form of a large balcony, which carries a small basin like a table or stand, from which the water falls into a larger basin, level with the alleys in a garden.

Candy, in geography, the capital of the island of Ceylon, situated in the middle of the island: east long. 79°, north lat. 8°.

Candy, or sugar-Candy, a preparation of sugar, made by melting and crystallizing it six or seven times over, to render it hard and transparent. It is of three kinds, white, yellow, and red. The white comes from the loaf sugar, the yellow from the cassonado, and the red from the muscovado. See Sugar.

Sugar-candy is most proper in colds, because it melts slowly, and thereby gives time to the saliva to mix with it, and thus to blunt the acrimony of the phlegm.

Candying, in pharmacy, the act of preserving simples in substance, by boiling them in sugar. The performance of this originally belonged to the apothecaries, but is now become a part of the business of a confectioner.

Cane, arundo, in botany. See the article Reed.

Cane denotes also a walking-stick. It is customary to adorn it with a head of gold, silver, agate, &c. Some are without knots, and very smooth and even; others are full of knots, about two inches distant from each other. These last have very little elasticity, and will not bend so well as the others.

Canes of Bengal, are the most beautiful which the Europeans bring into Europe. Some of them are so fine, that people work them into veils or bowls, which being varnished over in the inside with black or yellow lacca, will hold liquors as well as glafs or china-ware does, and the Indians use them for that purpose.

Cane, curaua, is also the name of a long measure, which differs according to the several countries where it is used.

At Naples, the cane is equal to 7 feet 3 1/2 inches English measure: the cane of Tholouse, and the upper Languedoc, is equal to the varre of Aragon, and contains 5 feet 8 1/2 inches: at Montpelier, Provence, Dauphine, and the lower Languedoc, to 6 English feet 5 1/2 inches.

Canea, a sea-port town on the north side of Candia, esteemed the second in the island. It is a pretty good harbour, but the fortifications are out of repair: east long. 24°, north lat. 35° 36°.

Canella Alba, a name by which some call the cortex winteranus. See the article Winteranus Cortex.

Canephora, in grecian antiquity, virgins who when they became marriageable, presented certain baskets full of little curiosities to Diana, in order to get leave to depart out of her train, and change their state of life.

Canephoria, in grecian antiquity, a ceremony which made part of a feast celebrated by the Athenian virgins, on the eve of their marriage day.

At Athens, the canephoria consisted in this: that the maid, conducted by her father
father and mother, went to the temple of Minerva, carrying with her a basket full of presents, to engage the goddess to make the marriage-fate happy; or, as the scholiast of Theocritus has it, the basket was intended as a kind of honourable amends made to that goddess, the protectrix of virginity, for abandoning her party; or a ceremony to appease her wrath. Suidas calls it a festival in honour of Diana. See canephoria.

Canephoria is also the name of a festival of Bacchus, celebrated particularly by the Athenians, on which the young maids carried golden baskets full of fruit; which baskets were covered, to conceal the mystery from the initiated.

Caneto, in ichthyology, the name Canicula, signifies a trial by hot irons. crooked tail, bending backwards.

Canfara, signifies a trial by hot irons. See canicula.

Cang, or Canicula, or Caniculus, in astronomy, the name of several species of squalus. See the article squalus.

Canicula, or Caniculus, in anatomy, the fame as the canis minor. See the article canis minor.

It is also a name given to one of the stars of the constellation canis major, called the dog-star, and by the Greeks, Sirius.

Canicular days, commonly called dog-days, a certain number of days preceding and ensuing the heliacal rising of canicula, or the dog-star, in the morning. The Ethiopians and Egyptians began their year at the rising of the dog-star, reckoning to its rise again the next year, which is called the annus canarius. The Romans suppressed it to be the cause of the sultry weather usually felt in the dog-days; and therefore sacrificed a brown dog every year at its rising, to appease its wrath.

The dog-days begin towards the end of July, and extend the beginning of September.

Canina, in geography, the name with Epirus. See the article Epirus.

Caninana, a kind of brasilian serpent, green on the back, and yellow on the belly.

Canine, whatever partakes of, or has any relation with the nature of a dog. Thus, Canine teeth, in anatomy, are two sharp-edged teeth in each jaw; one on each side, placed between the incisors and molars. See the article tooth.

Canine muscles, a pair of muscles common to both lips. They arise from the hollow on each side under the os jugalis, in the os maxillare, and are inserted into the angle of the lips.

Canine appetite. See bulimy.

Canis, dog, in zoology, the name of a comprehensive genus of quadrupeds, of the order of the fera.

They are distinguished from the other genera of this order, by the number of their teats, or paps, which in the dog-kind are ten, four on the breast, and five on the belly: to add to this, that their feet are adapted to running; they have five toes on the fore ones, and four on the hinder.

Under this genus are comprehended, 1. The common dog, or canis with a crooked tail, bending backwards. 2. The wolf, or canis with a straight tail, shorter than his body. 3. The fox, or canis with a straight tail, equal in length to his body. 4. The hyaena, or lupus marinus, with the hair of its neck erect, and considerably long. See dog, &c.

Canis, the dog-fish, a name given to several species of squalus. See the article squalus.

Canis volans, in zoology, the name by which some call the tail-less bat. See the article vespertilio.

Canis major, in astronomy, a constellation of the southern hemisphere, consisting of 28 stars, according to Ptolemy; of 13, according to Tycho; and 32 in the Britannic catalogue.

Canis minor, Caniculus, or Canicula, in astronomy, a constellation of the northern hemisphere. In Ptolemy's catalogue, the canis minor comprehends two stars; in that of Tycho, five; and in the Britannic catalogue, fifteen.

Canise, a small town of lower Hungary, which was ceded to the emperor by the peace of Carlowitz.

Canister, a large tin-box, in which tea is brought from China. They are of several sizes, holding from one pound to ten of that vegetable.

Canker, a speck made by a sharp humour, which gnaws the flesh almost like a caustic; very common in the thouts of children. See cancer.

Canker, a disease incident to trees, proceeding chiefly from the nature of the soil. It makes the bark rot and fall. If the tanket be in a bough, cut it off;
in a large bough, at some distance from the tree; and in a small one, close to it: but for over-hot strong ground, the mold is to be cooled about the roots with pond-mud, and cow-dung.

**Canna**, in botany, a genus of plants of the *Cannabina* class, the name with *Anabasis*, *Bafiard*, *Cannacorus*, *Cannel*, *Coal*, in the materia medica, a substance which has the three exterior ones are erect; the three interior ones are longer than these, and two of them are erect, and one reflex. The fruit is a roundish, lobed, crowned, triplicate capsule, with three cells and three valves, containing some globule seeds. See *Canacorus*.

**Cannabina**, in botany, the name with the galepsis of Linnaeus.

**Cannabis**, hemp, in botany, a genus of the *dioecia-pentandria* class of plants. There is no corolla, but the calyx of the male flower is divided into five parts; and that of the female, is composed of a single leaf, acuminate and opening side-ways. The pericarpium is very small, and the seed is a globule, depeffed, bivalvular nut.

**Bajard-Cannabis**, in botany, a name given by Rivinus to the galepsis of Linnaeus.

**Cannacorus**, in botany, the name used by Tournefort for the canna of Linnaeus. See plate XXXVI. fig. 2.

**Cannequin**, white cotton-linnen brought from the East-Indies, a very proper commodity for trading on the coast of Guinea.

**Cannel-Coal**, in the materia medica, a sub stance which has a long time, tho' with very little reason, been confounded, both by authors and druggists, with jet. It is dug up in many parts of England in great abundance, particularly in Lancashire, where it is burnt as common fuel. It is worked into toys and utensils of various kinds, under the name of jet. In medicine, it has the credit of being good in the colic, and of being, in general, an emollient and diffusent; but the present practice takes no notice of it.

**Cannon**, in the military art, an engine or fire-arm for throwing iron, lead, or stone bullets by force of gunpowder. Cannons at first were called bombardae, from the noife they made. They had likewise the name of culverin, ballistik, &c. from the beasts that were represented upon them; and the Spaniards, from devotion, gave them the name of saints; witness the twelve apostles which Charles V. ordered to be cast at Malaga, for his expedition to Tunis.

The most remarkable parts about a cannon, are the cañabel, mouldings, bafflering, touch-hole, vent-ring, reinforced-ring, trunions, dolphins, trunion-ring, cornish-ring, neck, muzzle, face, and chace or cylinder. See each of these in its proper place.

The metal of which cannons are composed, is either iron, or which is more usual, a mixture of copper, tin, and brass; the tin being added to the copper, to make the metal more dense and compact; so that the better and heavier the copper is, the less tin is required. Some to an hundred pounds of copper, add ten of tin, and eight of brass; others ten of tin, five of brass, and ten of lead. The sieur Berau pretends, that when old pieces of metal are used, the founder ought to add to one hundred weight of that metal, twenty-five pounds of good copper, and five pounds of tin. Braudius describes a method of making cannon of leather, and it is certain the Swedes made use of such in the long war of the last century; but these burst too easily to have much effect. With regard to iron cannon, they are not capable of so much resistance as those of brass; but as they are less expensive, they are often used on board of ships, and also in several fortified places. For the method of casting cannon, see the article *foundry*.

Cannons are distinguished by the diameters of the balls they carry. The rule for their length is, that it be such as that the whole charge of powder be on fire, before the ball quit the piece. If it be too long, the quantity of air to be drawn out before the ball, will give too much resistance to the impulse; and that impulse ceasing, the friction of the ball against the surface of the piece, will take off from the motion.

In former days, cannon were made much longer than they are now; but experience has taught us, that a ball moves with a greater impetus thro' a less space than a greater; and accordingly it is found, that an iron ball of 42 pound weight, goes farther from a short cannon, than another ball of 96 pound out of a longer piece; whereas, in other respects, it is certain, the larger the bore and ball, the greater the range. But for the range of a cannon, see *projectile*.
It is found too, by experience, that of two cannons of equal bore, but different lengths, the longer requires a greater charge of powder than the shorter. The ordinary charge of a cannon is, for the weight of its gunpowder to be half that of its ball.

We shall here subjoin a table exhibiting the names of the several cannon, their length, their weight, and that of their ball, as they obtain among us.

<table>
<thead>
<tr>
<th>Names of cannon</th>
<th>wt. of an iron ball.</th>
<th>weight of the cannon.</th>
<th>length of the cannon.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannon royal</td>
<td>48 0 8000</td>
<td>12 o</td>
<td></td>
</tr>
<tr>
<td>Demi cannon large</td>
<td>36 0 6000</td>
<td>12 o</td>
<td></td>
</tr>
<tr>
<td>Demi cannon ordinary</td>
<td>32 0 5000</td>
<td>12 o</td>
<td></td>
</tr>
<tr>
<td>Demi cannon leaf</td>
<td>30 0 4000</td>
<td>11 o</td>
<td></td>
</tr>
<tr>
<td>Culverin large</td>
<td>20 0 3800</td>
<td>12 o</td>
<td></td>
</tr>
<tr>
<td>Culverin ordinary</td>
<td>17 5 4500</td>
<td>12 o</td>
<td></td>
</tr>
<tr>
<td>Culverin leaf</td>
<td>15 0 4000</td>
<td>11 o</td>
<td></td>
</tr>
<tr>
<td>Demi culverin ordinary</td>
<td>10 11 2700</td>
<td>11 o</td>
<td></td>
</tr>
<tr>
<td>Demi culverin leaf</td>
<td>9 0 2000</td>
<td>10 o</td>
<td></td>
</tr>
<tr>
<td>Saker ordinary</td>
<td>6 0 1500</td>
<td>10 o</td>
<td></td>
</tr>
<tr>
<td>Saker leaf</td>
<td>4 12 1400</td>
<td>8 o</td>
<td></td>
</tr>
<tr>
<td>Minion large</td>
<td>3 12 1000</td>
<td>8 o</td>
<td></td>
</tr>
<tr>
<td>Minion ordinary</td>
<td>3 4 800</td>
<td>7 o</td>
<td></td>
</tr>
<tr>
<td>Falcon</td>
<td>2 8 750</td>
<td>6 o</td>
<td></td>
</tr>
<tr>
<td>Falconet</td>
<td>1 5 400</td>
<td>5 6</td>
<td></td>
</tr>
<tr>
<td>Rabinet</td>
<td>0 8 300</td>
<td>5 6</td>
<td></td>
</tr>
<tr>
<td>Bafe</td>
<td>0 5 200</td>
<td>4 6</td>
<td></td>
</tr>
</tbody>
</table>

Cannon are likewise distinguished according to the diameter of their mouth, or calibre. This calibre is divided, in consequence of an order from the king of France, into thirty-six parts, in order to determine by these parts the dimensions of the different moulds for cannon. We hope the reader, then, will not be dissatisfied to find an account of the dimensions of the several parts of cannon of five different calibres, as they are regulated by that order of the king of France, on Oct. 7, 1732, in the following table:

<table>
<thead>
<tr>
<th>Pieces of cannon</th>
<th>of 24</th>
<th>of 16</th>
<th>of 12</th>
<th>of 8</th>
<th>of 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of the bore</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth of the chamber</td>
<td>2 6</td>
<td>1 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness of metal at breech</td>
<td>5 5</td>
<td>4 9</td>
<td>4 4</td>
<td>3 9</td>
<td>3</td>
</tr>
<tr>
<td>Length of the cañcabel</td>
<td>10 11</td>
<td>9 6</td>
<td>8 8</td>
<td>7 7</td>
<td>6</td>
</tr>
<tr>
<td>Diameter of the trunions</td>
<td>5 5</td>
<td>4 9</td>
<td>4 4</td>
<td>3 10</td>
<td>3</td>
</tr>
<tr>
<td>Projection of the trunions</td>
<td>5 5</td>
<td>4 9</td>
<td>4 4</td>
<td>3 10</td>
<td>3</td>
</tr>
<tr>
<td>Calibre of the piece</td>
<td>5 8</td>
<td>4 11</td>
<td>4 6</td>
<td>3 11</td>
<td>3 2</td>
</tr>
<tr>
<td>Diameter of the ball</td>
<td>5 6</td>
<td>4 9</td>
<td>4 4</td>
<td>3 9</td>
<td>3</td>
</tr>
<tr>
<td>Length of the whole piece</td>
<td>11</td>
<td>10 6</td>
<td>10</td>
<td>8 10</td>
<td>7 3</td>
</tr>
<tr>
<td>Weight of the piece</td>
<td>5400</td>
<td>4200</td>
<td>3200</td>
<td>2100</td>
<td>1150 lb.</td>
</tr>
</tbody>
</table>

Cannon, with letter-founders and printers, the largest size of the letters they use. See the article Letter.

Cannoneer, or Cannoneer, the same with gunner. See the articles Gunner and Gunnery.

Cannon, Canow, or Canoe. See the article Canoe.

Cannula, in surgery, a tube made of different metals, principally of silver and lead, but sometimes of iron. They
They are introduced into hollow ulcers, in order to facilitate a discharge of pus or any other sub stance: or into wounds, either accidental or artificial, of the large cavities, as the thorax or abdomen: they are used in the operation of branchotomy, and by some after cutting for the stone, as a drain for the urine. Other cænus are used for introducing cauteries, either accidental cavitie3, as the thorax or any other hollow parts, in order to some being injury. They are of adjacent situated crossed. manner to Giore, about thirty miles of alfo go. the rivers and other expedition, either by It is Guinea, and even many they carry the cient to manage a Caroe; and dies, use or down the rivers or lakes; broad, composed of small fricks, of a very their canoe, either made of the firaits, are more extraordinary: they in the canonries to pliant wood, in the form of a hurdle, are made below the fall, according as they go canoe, either made of the infraes, who lived in com- to the cathedral church either general, national, or provincial. Originally, canons were only inferiorecclefiastics, who lived in com- munity, residing near on his will, supported by the revenues his bishopr, depending inti rely ied his altar thrice, after which he goes and takes his place in the choir; he afterwards makes his confession of faith aloud, and swears to observe the ordinances of the church, and his holines the pope: being thus solemnly installe, he is empowered to assist at the chapter, to chant the office of the choir, &c. Canons are of various kinds, as, 

Cardinal-CANONS, those attached, or, as the latins call it, inccardinati, to a church, as a prief is to a parifh.

Domicellory-CANONS, young canons, who, not being in orders, had no right in any particular chapters.

Expeclati've-CANONS were such as, without having any revenue or prebend, had the titles and dignities of canons, a voice in the chapter, and a place in the choir, till such time as a prebend should fall.

Foreign-CANONS, such as did not officiate in the canories to which they belonged. To thes were opposed monitory canons.

Regular-CANONS, those who still live in community, and who, like religious, have, to the practive of their rules, added the solemn profession of vowels.

Tertiary-CANON, a perfon who had only the third part of the revenues of the canonicate.

CANON, in an ecclesiastical fence, a law, rule, or regulation of the policy and discipline of a church, made by councils either general, national, or provincial.

Canons of the apostles, a collection of ecclesiastical laws, which tho' very antient, were not left us by the apostles. Tis true, they were sometimes called apostolic canons; but this means no more than that they were made by bishops, who lived soon after the apostles, and were called apostolical men. They con- fift of regulations, which agree with the
Canon of mafs, in the roman church, the name of a prayer which the priest reads bow to himself, the people kneeling. In this part of the mass, the priest particularly mentions some persons for whom he is going to offer the sacrifices, and prays to God for the redemption of their souls, the hopes of their salvation, &c.

Pechal-Canon, a table of the moveable feasts, shewing the day of Eater, and the other feasts depending on it, for a cycle of nineteen years.

Canon of Scripture, a catalogue or lift of the inspired writings, or such books of the bible as are called canonical; because they are in the number of those books which are looked upon as sacred, in opposition to those which are either not acknowledged as divine books, or are rejected as heretical and spurious, and are called apocryphal. This canon may be considered as jewifh and christian, with respect to the sacred writings acknowledged as such by the Jews, and those admitted by the christians. See the article Bible.

Canon, in monastic orders, a book where-in the religious of every convent have a fair transcript of the rules of their order, frequently read among them, as their local statutes.

Canon is also used for the catalogue of saints acknowledged and canonized in the roman church.

Canon, a japanese idol, who presides over the waters and the fishes. This idol, according to the representation of him, has four arms, is swallowed up by a fish as far as the middled, and is crowned with flowers. He has a sceptre in one hand, a flower in another, and a ring in the third; the fourth is closed, and the arm extended.

Canon, in music, a short composition of two or more parts, in which one leads, and the other follows: or it is a line of any length, shewing, by its divisions, how musical intervals are distinguished, according to the ratios, or proportions, that the sounds terminating the intervals, bear one to another, when considered according to their degree of being acute or grave.

Canone chiro, or Canone in cerpo, in music, a perpetual figure writ upon one line with some marks, to shew when the parts that imitate are to begin and end.

Canon partito, or resoluto, when all the parts of a perpetual figure are writ either in partitions or in separate parts, with the proper pauses that each is to observe.

Canon, in arithmetic, algebra, &c. is a rule to solve all things of the same nature with the present inquiry; thus, every last step of an equation in algebra, is such a canon; and if turned into words, is a rule to solve all questions of the same nature with that proposed.

The tables of logarithms, artificial lines and tangents, are called likewise by the name of canon.

Canon-law, a collection of ecclesiastical laws, serving as the rule and measure of church-government.

The power of making laws, was exercised by the church before the roman empire became christian. The canon-law that obtained throughout the west, till the twelfth century, was the collection of canons made by Dionyfius Euxiguus in 520, the capitularies of Charlemaign, and the decrees of the popes, from Sircius to Anafaifius.

The canon-law, even when papal authority was at its height in England, was of no force when it was found to contradict the prerogative of the king, the laws, statutes, and customs of the realm, or the doctrine of the established church. The ecclesiastical jurisdiction of the see of Rome in England, was founded on the canon-law; and this created quarrels between kings and several archbishops and prelates, who adhered to the papal usurpation.

Besides the foreign canons, there were several laws and constitutions made here for the government of the church; but all these received their force from the royal assent: and if, at any time, the ecclesiastical courts did, by their sentence, endeavour to enforce obedience to such canons, the courts at common law, upon complaints made, would grant prohibitions. The authority vested in the church of England of making canons, was ascertained by a statute of Henry VIII, commonly called the act of the clergy's submission; by which they acknowledged, that the convocation had been always assembled by the king's writ; so that the power of making canons resided in the clergy, met in convocation, their force was derived from the autho-
rity of the king's assenting to, and con-
firming them.
The old canons continued in force till the reign of James I., when the clergy being assembled in convocation, the king gave them leave to treat and consult upon canons, which they did, and presented them to the king, who gave them the royal assent: there were a collection out of the several preceding canons and injunctions. Some of these canons are now obsolete. In the reign of Charles I. several canons were passed by the clergy in convocation.

CANONESS, in the Roman church, a woman who enjoys a prebend, affixed, by the foundation, to maids, without their being obliged to renounce the world, or make any vows.

CANONESSES of St. Augustine, or royal CANONESSES, a kind of religious, who follow the order of St. Augustine, of which there are various congregations.

CANONICAL, something belonging to, or partaking of the nature of a canon; thus we read of canonical obedience, which is that paid by the inferior clergy to their superiors, agreeably to the canon-law. See the article CANON-LAW.

We also meet with canonical life, canonical hours, &c. used much in the same sense. See CANON.

CANONICUM, in the Greek church, the name given to certain fees paid by the clergy to their prelates, for degrees of promotion.

CANONIST, a person skilled in, or who makes profession of the canon-law. See the article CANON-LAW.

CANONIZATION, a ceremony in the Roman church, by which persons deceased are ranked in the catalogue of the saints. It succeeds beatification. See the article BEATIFICATION.

Before a beatified person is canonized, the qualifications of the candidate are strictly examined into, in some consistories held for that purpose; after which one of the consistorial advocates, in the presence of the pope and cardinals, makes the panegyric of the person who is to be proclaimed a saint, and gives a particular detail of his life and miracles: which done, the holy father decrees his canonization, and appoints the day.

On the day of canonization, the pope officiates in white, and their eminences are dressed in the same colour. St. Peter's church is hung with rich tapestry, upon which the arms of the pope, and of the prince or state requiring the canonization, are embroidered in gold and silver. An infinite number of lights blaze all round the church, which is crowded with pious souls, who wait, with a devout impatience, till the new saint has made his public entry, as it were, into Paradise, that they may offer up their petitions to him, without danger of being rejected.

The following maxim, with regard to canonization, is now observed, viz. it has not been followed above a century, after the death of the person to be canonized. By the ceremony of canonization, it appears that this rite of the modern Romans, has something in it very like the apotheosis or deification of the ancient Romans, and in all probability owes its rise to it; at least, several ceremonies of the same nature are conspicuous in both.

CANONOR, a town on the Malabar-coast, in the bither India: east long. 75°, north lat. 10°.

Here the Dutch have a fort and factory, which they took from the Portuguese in 1663.

CANONRY, the benefice filled by a canon. It differs from a prebend, in that the prebend may subsist without the canonicate; whereas the canonicate is inseparable from the prebend: again, the rights of suffrages, and other privileges, are annexed to the canonicate, and not to the prebend.

CANORIN, in geography, an isle otherwise called Salest. See SALEST.

CANOO, or CANOE. See CANOE.

CANOPUS, in astronomy, a star of the first magnitude in the rudder of Argo, a constellation of the southern hemisphere. See the article ARGO.

CANOPY, a magnificent covering, raised above an altar, throne, chair of state, pulpit, and the like. The word canopy comes from the Greek καπνοδώρω, a net spread over beds to keep off the gnats, from καπνο-καν, a gnat.

CANOSA, the name of a species of squa- lus, or shark, called, in English, the smooth or unprickly hound-fish. See the article SQUALUS.

CANOW, or CANOE. See CANOE.

CANQUE, a fort of cotton-cloth made in China, which they wear next their skin, and is properly their shirt.

CANSO, a port-town of Nova-Scotia, or New Scotland, in north America, situated M M M 2 on
on a narrow strait, which separates Nova-Scotia from the island of Cape-Breton: west longitude 62°, north latitude 46°.

CANT, or CANTING-LANGUAGE, that made up of words and phrases not authorized by the established idiom, but peculiar to certain persons and professions. The introduction of cant-terms into the English language, is attributed by some to the natural taciturnity of the people, which makes them curtail long words; as physx for physiognomy, mobb for mobility, &c.

Cant is also a term sometimes used for a file by auction, being probably derived from the Latin quantum.

Cant, among carpenters. When a piece of timber comes the wrong way in their work, they say cant it, that is, turn it over.

CANTABRICA, in botany, a name given to different plants, viz. the rapunculus, a species of caryophyllus, called in English clove-july-flower, and the narrow-leaved convolvulus, or bindweed.

CANTALIVERS, in architecture, pieces of wood framed into the front or other sides of a house, to suspend the mouldings and eaves over it. These seem, in effect, to be the same with modillions, except that the former are plain, and the latter carved; they are both a kind of cartouches, let at equal distances, under the corona of the cornice of a building.

CANTAR, or CANTARO, in commerce, a weight used in Italy, particularly at Leghorn, to weigh some sorts of merchandizes. There are three sorts of cantari, or quintals, one weighs 150 pounds, the other 142, and the third 120; the first serves to weigh alum and cheeze, the second is for sugar, and the third for wool and cod-fish.

Cantar is also a measure of capacity used at Cochin, and containing four rubis.

CANTATA, in music, a song or composition, intermixed with recitatives, airs, and different movements, chiefly intended for a single voice, with a thorough bass, though sometimes for other instruments. When it is intended for the church, it is called cantata pastoral or spiritual; but when the subject is on love, cantata amorosa, &c.

The cantata, when performed with judgment, has something in it very agreeable; the variety of the movements not closing the ear, like other compositions. It was first used in Italy, then in France, whence it passed to us.

CANTEL, cantellum, the small moiety usually given over and above the precise measure.

CANTERBURY, the capital city of Kent, fifty-five miles east of London, and sixteen north-west of Dover: east long. 1° 13', north lat. 51° 16'. It is a county of itself, and the see of an archbishop, who is primate and metropolitan of all England. It is a large, populous, and trading city; has a good silk manufactory, and sends two members to parliament.

CANTERBURY-BELL, in botany, the name by which some call the campanula, or bell-flower.

CANTHARIS, in zoology, a genus of four-winged flies, with antennae unguiculate, the exterior wings of which are flexible, the thorax somewhat flattened, and the sides of the abdomen plicated. The cantharis, tho' usually called Spanish flies with us, are properly of the scarabaei, or beetle-kind: the creature is usually about half an inch in length, and a third of an inch, or somewhat less, in breadth: it is of a fine shining and beautiful colour, on the upper side a bright green, with a mixture or shade of gold-yellow. See plate XXXVI. fig. 5, where one of them is represented. From the eggs of the parent cantharis, are hatched a small kind of worms, of a dusky colour, with six legs; and from these worms are afterwards produced the cantharides, as the butterflies are from the caterpillars: they are frequent in France, Spain, and Italy, where being taken, and suspended over the fumes of vinegar, they are exposed to the sun to dry, and then sold to the druggist.

The principal use of the cantharides, at this time, is external, in making of blisters. We have a tincture of cantharides in the flops, that is reputed an excellent medicine. It is diuretic, and emmenagogue, and has been given in the gout with success.

To prepare the tincture of cantharides, take two drams of bruted cantharides, half a dram of cochineal, a pint and a half of proof spirit; digest them together in a sand-heat, then filter the tincture for use.

CANTHARUS, in ichthyology, a species of sparus, with yellow parallel lines running longitudinally down each side, and with silvery white iris.
CANTHIC, in anatomy, cavities at the extremities of the eye-lids, commonly called the corners of the eye: the greater of them, or the greater canthus, is next the nose; the lesser, or the little canthus, lies towards the temple.

CANTHUS, in chemistry, the lip of a vessel, or that part of it which is a little hollowed or depressed, for the easy pouring off of liquors.

CANTIC-QUOINS. See Quoin.

CANTIGLES, a canonical book of the old testament. The talmudists ascribe it to Hezekiah, but the learned are agreed that king Solomon was the author of it; and his name is prefixed to it in the title of the hebrew text, and of the antient greek version.

It is a kind of epithalamium, in the form of an idyl, or bucolic, in which are introduced, as speakers, a bridegroom, a bride, the friends of the bridegroom, and the companions of the bride. The bridegroom and bride express their love for each other in very tender and affectionate terms; for which reason the Jews never allowed this book to be read by any, till they were at least thirty years of age. Some authors are of opinion, that Solomon's design in this piece was, to describe his amour with Abishag, the Shunamite, or with the daughter of Pharaoh: on the contrary, others take it to be wholly allegorical, and understand it of the spiritual love of God towards his church. Some have pretended to discover in it five scenes; but others, with more judgment, distingushi it into seven days, during which the antients celebrated their nuptials.

CANTIMARONS, or Catimarons, a kind of raft made of three or four hollowed trunks of trees, tied together with ropes of cocoa, with a triangular sail in the middle made of mats. They are used by the inhabitants of the coast of Coromandel, to go a fishing, and to trade along the coast.

CANTIN, or Cape-Cantin, a promontory in the atlantic ocean, on the coast of Morocco in Africa: west long. 10°, north lat. 33°.

CANTING LANGUAGE. See Cant.

CANTING-QUOINS, or Cantic-Quoins. See the article Quoin.

CANTING-STAIRS. See Stairs.

CANTIRE, or Cantire, a peninsula of Scotland, in Argyleshire, stretching into the irish sea, westward of the isle of Arran.

CANTO, in music, the treble, or at least the higher part of a piece. This word more properly signifies the first treble, unless the word secondo, for the second, or ripieno, for the treble of the grand chorus, be added.

CANTO-CONCERTANTE, is the treble of any principal part in a concerto, and generally plays or sings throughout.

CANTO-VERSO, or Simplice, is what they call the plain song.

CANTO-FIGURATO, signifies a composition wherein the parts differ from one another in their figures and motions, and is the reverse of cantoermo.

CANTON, in geography, denotes a small country, or district, constituting a distinct government: such are the cantons of Switzerland. See Switzerland.

CANTON is also the name of a large, populous, and wealthy city and port-town of China, situated on the river Ta, about fifty miles from the indian ocean: east long. 112° 30', north lat. 23° 25'. It is a fortified place, within the walls of which no christians are permitted to enter, notwithstanding their great trade thither; it being from thence that they import all manner of chinese goods, as china-ware, tea, cabinets, raw and wrought silks, gold-dust, &c.

CANTONED, in architecture, is when the corner of a building is adorned with a pilaster, an angular column, rustic quoins, or any thing that projects beyond the naked of a wall.

CANTONED, or Cantonized, cantonef, in heraldry, the poision of such things as are borne with a croix, &c. between. He bears gules, a crois argent cantoned with four callop-shells.

CANTONING, in the military art, is the allotting distinct and separate quarters to each regiment of an army; the town, where they are quartered, being divided into so many cantons, or divisions, as there are regiments.

CANTRED, or Cantref, signifies an hundred villages, being a britith word, compounded of the adjective cant, i. e. hundred, and ref, a town or village. In Wales, some of the counties are divided into cantreds, as in England into hundreds.

CANTZA, or Canth, a town of Silefia, about six miles west of Breflaw; east long. 16° 40', north lat. 51° 6'.

CANVAS, in commerce, a very clear unbleached cloth of hemp, or flax, wove very regularly in little squares. It is used for
for working tapestry with the needle, by passing the threads of gold, silver, silk, or wool, through the intervals or fquares. CANVAS is also a coarse cloth of hemp, unbleached, somewhat clear, which serves to cover women's stays, also to stiffen men's cloaths, and to make some other of their wearing apparel, &c.

CANVAS is also a very coarse cloth made of hemp, unbleached, serving to make towels, and answering other domestic purpofes. It is also used to make sails for shipping, &c.

CANVAS is used among the French, for the model and fift words, where an air or piece of music is compos'd, and given to a poet to regulate and finish.

CANVAS-BAGS, in the military, the fame with earth or land-bags. See BAG.

CANUTI-AVIS, in ornithology, a species of tringa. See the article TRINGA.

CANZONE, in music, signifies, in general, a song where some little figures are introduced: but it is sometimes used for a fort of Italian poem, usually pretty long, to which music may be compos'd in the style of a cantata. If this term be added to a piece of instrumental music, it signifies much the fame as cantata: if placed in any part of a sonata, it implies the fame meaning as allegro, and only denotes that the part to which it is prefixed, is to be played or sung in a brisk and lively manner.

CANZONETTA, a diminutive of canzone, denoting a little short song: the canzonette neapolitane have two strains, each whereof is sung twice over, as the vaudevilles of the French: the canzonette siciliane are a fpecies of jigg, the measure whereof is usually twelve eights, and fix eights, and sometimes both, are rondaeus.

CAORLO, an Italian island at the bottom of the gulph of Venice, situated about twenty miles south-west of Aquilcia: east long. 13°, north lat. 46°. It is subjedt to Venice.

CAP, a part of drefs made to cover the head, and much in the figure thereof. The use of caps and hats is referred to the year 1449, the first fent in these parts of the world, being at the entry of Charles VII. into Rouen: from that time they began to take place of the hoods, or chaperoons, that had been used till then. When the cap was of velvet, they called it mortier; when of wool, simply bonnet. None but kings, princes, and knights, were allowed the ufe of the mortar. The cap was the head-dress of the clergy and graduates: church-men and members of universities, students in law, phyfic, &c. as well as graduates, wear square caps in most universities. Doctors are distinguished by peculiar caps, given them in assuming the doctorate. Pasquier fays, that the giving the cap to students in the universities, was to denote that they had acquired full liberty, and were no longer subject to the rod of their superiors, in imitation of the antient Romans, who gave a pilus or cap to their slaves, in the ceremony of making them free. The cap is also used as a mark of infamy in Italy. The Jews are distinguished by a yellow cap at Lucca, and by an orange one in France. Formerly thofe who had been bankrupts, were obliged, ever after, to wear a green cap, to prevent people from being imposed on in any future commerce.

CAP of maintenance, one of the regalia, or ornaments of state belonging to the kings of England, before whom it was carried at the coronation, and other great solemnities. Caps of maintenance are also carried before the mayors of the several cities in England.

CAP, in a ship, a square piece of timber put over the head, or upper end of any mast, having a round hole to receive the fhaft. By means of these caps, the top-masts and top-gallant-masts are kept steady and firm in the trefsel-trees where their feet stand.

CAP of a gun, a piece of lead which is put over the touch-hole of a gun, to keep the priming from being wafted or fpiled.

To CAP, is said of a ship in the trials of the running or feitt'ng of currents.

CAP of a muffroom, denotes its head, or flefhy expanded part.

CAP of a nut, the green succulent part which connects the nut to the parent tree. Neptunes CAP. See the article NEPTUNE.

Priet's CAP, bonnet a pretre. See the article BONNET.

Black-CAP, in ornithology, a name used in some parts of the Kingdom for the species of larus, more usually called pewit. See the articles LARUS AND PEWIT.

CAPACIA, a town of Italy, in the kingdom of Naples, situated in the hither Principate, about sixteen miles south of Salerno: east long. 15° 16', north lat. 40° 40'.

CAPACITY, in a general fene, an aptitude, or disposition to retain, or hold any thing.
CAPACITY, in geometry, is the solid contents of any body; also our hollow measures for wine, beer, corn, salt, &c. are called measures of capacity.

CAPACITY, in law, the ability of a man, or body politic, to give or take lands, or other things, or sue actions.

Our law allows the king two capacities; a natural and a political; in the first, he may purchase lands to him and his heirs; in the latter, to him and his successors. The clergy have the like.

CAPARASON, or horse-cloth, a sort of cover for a horse. For led horses, 'tis commonly made of linnen-cloth, bordered round with woolen, and enriched with the arms of the master upon the middle, which covers the croupe, and with two cyphers on the two sides. The caparasons for the army, are sometimes a great bear's skin; and thofe for stables, are of fingle buckram in summer, and of cloth in the winter.

CAPAX, in the order of Malta, a name given to the knights that have reified five years at Malta, have made four caravans, or sea-campaigns, and are in a condition of coming to a command.

CAPE, in geography, an high land running out, with a point, into the sea, as Cape-Norde, Cape-Horn, the cape of Good-hope, &c.

CAPE of GOOD-HOPE. See the article GOOD-HOPE.

CAPE-COAST-Castle, the principal british fort and settlement on the gold-coast of Guinea, situated under the meridian of London, in 5° north latitude.

CAPE, in law, a judicial writ concerning plea of lands or tenements, and is divided into cape magnum and cape parvum, both of which affect things immovable; and besides these, there is a cape ad valenciam.

Cape magnum, or the grand cape, lies before appearance, to summon the tenant to answer the default, and also aver to the demandant.

The cape parvum, is after appearance and view granted, and it summons the tenant to answer the default only.

Cape magnum is designed to lie, where a perfon has brought a præcipue quod reddat of a thing, that touches a plea of land, and the tenant makes default at the day given to him in the original writ; then this writ shall go for the king, to take the land into his hands: and if he comes not at the day given him, he lothes his land, &c.

CAPE parvum, called petit-cape, is defined thus. When the tenant is summoned in plea of land, and cometh at the summons, and his appearance is recorded; and after he maketh default at the day that is given to him, then this writ shall go for the king.

CAPE ad valenciam, is a species of cape magnum, where one being implead, and on a summons to warrant lands, a vouchee does not come at the day; whereupon if the demandant recovers of the tenant, he shall have this writ against the vouchee, and recover so much in value of his lands, in case he hath so much; and if not, there shall be an execution of such lands and tenements as shall after defend to him in fee; or if he purchases afterwards, there may be a re-summons, &c. against him.

CAPELET, a disease in horses, when the tip of the hock is moveable and more swelled than ordinary.

CAPELLA, in zoology, a name given by some to the vanellus, or lapwing. See the article VANELLUS.

CAPELLA, in astronomy, a bright fixt star in the left shoulder of the constellation auriga. It is, in the britannic catalogue, the fourteenth in order of that constellation. Its longitude is 17° 31' 41", its latitude 22° 51' 47".

CAPER, capparis, in botany. See the article CAPPARIS.

The buds of this plant make a considerable article in commerce, they are imported from Italy in pickle, and used in sauces, &c.

The caper-bark of the shops, is not the bark of the branches, but that of the roots of the shrub which produces it. It is an aperient and attenuant, and is recommended in nephritic cafes, and in dropsies, jaundices, and many other chronic diseases: but the present practice does not pay any regard to it.

Bean-CAPER, a name sometimes given to the fabago of botanists. See the article FABAGO.

North-CAPER, in ichthyology, the same with the capidolius. See the article CAPIDOLIUS.

Caper, or CARPIScus, in ichthyology. See the article CAPRIScus.

CAPERQUIN, a town of Ireland, in the county of Waterford, and province of Munster,
CAPHAR, situated on the river Blackwater; west longitude 7° 50', and north lat. 53° 5'.

CAPHAR, a duty which the Turks raise on the Christians, who carry or send merchandises from Aleppo to Jerusalem, and other places in Syria.

This duty of caphar was first imposed by the Christians themselves, when they were in possession of the Holy-Land, for the maintenance of the troops, which were planted in difficult passés, to oblige the Arabs, and prevent their incursions. It is still continued, and much increased by the Turks, under pretence of defending the Christians against the Arabs, with whom, nevertheless, they keep secret intelligence, favouring their excursions and plunder.

CAPIL-AGA, or CAPOU-AGASSI, a Turkish officer, who is, as it were, grand-master of the seraglio.

He is the first in dignity and repute of all the white eunuchs, and is always near the grand signior's person. It is he who introduces embassadors to audience; and all great affairs pass through his hands before they come to that of the prince.

CAPIAS, in law, a writ of two sorts, one before judgment in an action, and the other after: that before judgment is called capias ad respondendum, where an original is sued out, &c. to take the defendant, and make him answer the plaintiff; and that after judgment is the capias ad satisfaciendum, &c.

CAPIAS AD SATISFACIENDUM is a writ of execution that issues on a judgment obtained, and lies where any person recovers in a personal action, as for debt, damages, &c. in which case this writ issues to the sheriff, commanding him to take the body of him, against whom the debt is recovered, who is to be kept in prison till he make satisfaction.

CAPIAS CONDUCTOS AD PROFICIENDUM, an original writ, which lies, by the common law, against any soldier, who has conveanted to serve the king in war, and appears not at the time and place appointed. It is directed to two of the king's serjeants at arms, to arrest and take him wherever he can be found, and to bring him coram confilio uffiro, with a clause of affittance.

CAPIAS PRO FINE is a writ lying where a person is fined to the king, for some offence committed against a statute; and he does not discharge the fine according to the judgment; therefore his body shall be taken by this writ, and committed to gaol till the fine is paid.

CAPIAS UTELEGATUM, a writ which lies against any one outlawed, upon any action personal or criminal, by which the sheriff is ordered to apprehend the party outlawed, for not appearing on the exi-gent, and keep him in safe custody till the day of return, when he is to present him to the court, to be there farther ordered for his contempt.

CAPIAS IN WITHERAM, a writ that lies for cattle in withernam; that is, where a difficulty is taken, is driven out of the county, so that the sheriff cannot make deliverance upon a replevin; then this writ issues, commanding the sheriff to take as many beasts as the distrainer.

CAPIDOLIUS, in ichthyology, a name sometimes given to the grampus-fish, a species of dolphin, with the snout bending upwards, and with broad serrated teeth.

CAPIGI, in the Turkish affairs, the name of certain inferior officers belonging to the seraglio, to the number of five hundred, whose business is to assist the janizaries in guarding the first and second gate of that palace; whence also the name capigith, which signifies a gate.

CAPILLAMENT, in a general sense, signifies a hair, whence the word is applied to several things, which, on account of their length or their fineness, resemble hairs: as,

CAPILLMENTS OF THE NERVES, in anatomy, the fine fibres, or filaments, whereof the nerves are composed.

CAPILLMENTS, in botany, those small threads, or hairs, which grow up in the middle of a flower, and are adorned with little knobs at the top: those knobs are called the apices, or antherae, of a flower; and the capillaments are called the stamina. See the article STAMINA.

CAPILLARY, in a general sense, an appellation given to things on account of their extreme fineness, or resembling hair.

CAPILLARY FRACTURE, the name with capillation. See CAPILLATION.

CAPILLARY ORES, in mineralogy, the name with those otherwise denominated arborescent, or frirated.

CAPILLARY PLANTS are such plants as have no main stem, but their leaves arise from the root, upon petalics, and produce their seeds on the back of their leaves, as the fern, maiden-hair, &c. These
These plants are either with an undivided leaf, as the hemionitis and the phyllitis; or with a finely divided leaf, which leaf have the leaf either cut or jagged in, but not divided into pinnae, clear home to the main rib, as polypodium, lonchitis, scolopendra, &c. or else the leaf divided quite home to the rib, and hanging like pinnae, as the chamefelix marine and the trichomanes: others have the leaf doubly divided, or at least once subdivided, the first division being into branches, and the second into pinnae, as the hemionitis multifida, and the hemionitis triloba; or with the leaf either cut or jagged in, and the thickness of the tube remains the same; or which is in inverse proportion to the diameter of the tube: the quantity of the fluid raised, will therefore be as the surface of the tube, which it fills, that is, as the diameter; as the effect would not be otherwise proportional to the cause, since the quantities follow the ratio of the diameters, the heights to which the fluids will rise, in different tubes, will be inversely as the diameters.

**Capillary vesseis**, in anatomy, the smallest and extreme parts of the veins and arteries.

These are the leaf, minute, and insensible ramifications of the veins, so fine, that when cut or broken they yield little or no blood: they are conceived as vastly finer than hairs, and are best compared to the threads of cobwebs: they are sometimes called evanescent vessels.

**Capillary worms**, in medicine, a kind of worms found in children, and otherwise called crinones. See Crinones.

**Capillation**, in Greek τρικέφαλος, a capillary fracture in the cranium, so small that it can scarce be perceived, but yet it often proves mortal. See the article Fracture.

**Capillatum veneris**, in physiology, denotes the fine threads seen floating in the air, in autumn; which, according to some, are only the fulphureous and earthy particles of a cloud, after the water has been exhaled; but it seems more probable that they are the work of spiders. See the article Air-threads.

**Capillus veneris**, in botany, the name with adiantum, or maiden-hair.

**Capiplenium**, a barbarous word used by some for a catarrh. Bagivi uses it for a continual heaviness and disorder of the head.

**Capistrum**, in surgery, a term applied to a bandage used in case of fractures of the jaws. The capistrum simplex is applied in fractures of the lower jaw, and the capistrum duplex, when both sides of the jaw are fractured.

**Capistrum**, among ancient musicians, a bandage made of skins, with which the mouth and lips of the performer were bound up, leaving only a small chink to admit the flute. Some believe that the capistrum was used in order to conceal from the spectator the distortion of the features which attracts and raises the surface, and the lower part, which is in contact with it, supports and holds it up, so that neither the thickness nor length of the tube avails any thing, only the said periphery of particles, which is always proportional to the diameter of the tube: the quantity of the fluid raised, will therefore be as the surface of the bore which it fills, that is, as the diameter; as the effect would not be otherwise proportional to the cause, since the quantities follow the ratio of the diameters, the heights to which the fluids will rise, in different tubes, will be inversely as the diameters.

**Capillary tubes**, in physics, little pipes, whose canals are extremely narrow, their diameter being only a half, third, or fourth of a line. See the article Tube.

The ascent of water, &c. in capillary tubes, is a phenomenon that has long embarrassed the philosophers; for let one end of a glass-tube, open at both ends, be immersed in water, and the liquor within the tube will rise to some sensible height above the external surface: or if two or more tubes are immersed in the same fluid, one of them a capillary one, the other of a larger bore, the fluid will ascend higher in the capillary tube than in the other, in the air, in autumn; which, according to experience, which proves the attractive power in the surface of glass to be very strong; whence it is easy to conceive howensibly such a power must act on the surface of a fluid, not viscid, as water, contained within the small cavity or bore of a glass-tube; as also that it will be in proportion stronger as the diameter of the bore is smaller; for that the efficacy of the power follows the inverse proportion of the diameter, is evident from hence, that only such particles as are in contact with the fluid, and these immediately above the surface, can affect it.

Now these particles form a periphery contiguous to the surface, the upper part of...
features by inflating the cheeks. Others imagine that it was intended to moderate the breath, and give a soft sound to the flute.

**CAPITAL**. the head, chief, or principal of a thing. Thus,

**CAPITAL**, in geography, denotes the principal city of a kingdom, province, or state; as London is the capital of England, Paris of France, Madrid of Spain, York of the county of that name, &c. See the article **METROPOLIS**.

**CAPITAL**, among merchants, traders, and bankers, signifies the sum of money which individuals bring to make up the common stock of a partnership, when it is first formed. It is also laid of the stock which a merchant at first puts into trade, for his account. It signifies likewise the fund of a trading company, or corporation, in which fence the stock is generally added to: thus we say, the capital stock of the bank, &c. The word capital is opposed to that of profit or gain, though the profit often increases the capital, and becomes itself a part of it.

**CAPITAL CRIME**, such a one as subjects the criminal to capital punishment, that is, the loss of life.

**CAPITAL MEDICINES**, in pharmacy, the principal preparations of the shops, remarkable for the number of their ingredients, and their extraordinary virtues: such are mithridate, venice treacle, &c.

**CAPITAL LEES**, the strong lees made by the soap-boilers, from pot-ashes.

**CAPITAL LETTERS**. See **CAPITALS**.

**CAPITAL**, in architecture, the uppermost part of a column or pilaster, serving as the head, or crowning, and placed immediately over the shaft, and under the entablature.

**CAPITAL of a COLUMN** is properly that whole plan is round.

**CAPITAL of a PILASTER** is that whole plan is square, or, at least, rectilinear.

The capital is the principal part of an order of columns or pilasters. It is of a different form in the different orders, and is that which chiefly distinguishes and characterizes the orders. Such of these as have no ornaments, as the tuscan and doric, are called capitals of mouldings; and the reft, which have leaves and other ornaments, capitals of sculptures.

**Tuscan CAPITAL** consists of three members, viz. an abacus, under this an ovolo or quarter round, and under that a neck or corolarino, terminating in an astragal, or filet, belonging to the shaft. See the article **ABACUS**, &c.

It is the most simple and unadorned of all capitals; and the character which distinguishes it from the doric, is that the abacus is square, and quite plain without moulding. It is true, authors vary a little as to the character of this capital: Vignola gives the abacus a filet; Vitruvius and Scamozzi add an astragal and a filet, between the ovolo and neck; Serlio, only a filet; and Philander rounds the corners of the abacus. In the trajan column there is no neck, but the astragal of the shaft is confounded with that of the capital. The height of this capital is the same with that of the base, viz. one module, or semidiameter. The projection is equal to that of the cinclature at the bottom of the column, viz. \( \frac{2}{3} \) of the module. See the article **TUSCAN**.

**Doric CAPITAL** has its abacus crowned with a talon, and three annulets under the ovolo. Authors also vary as to the characters of this capital: Palladio, Vignola, &c. put rofes under the corners of the abacus, and in the neck of the capital: Vitruvius makes the height of this capital equal to half the diameter of the body of the column below. See the article **DORIC**.

**Ionic CAPITAL**, that which is distinguished by volutes and ovolo. The ovolo is adorned with eggs, as they are sometimes called from their oval form. The height of this capital Mr. Perrault makes eighteen minutes, its projection one module seven tenths. The differences in the character of this capital, flow mostly from the different management of the volutes, and conflict in this: 1. That in the antique, and some of the modern, the eye of the volute does not anfwer the astragal of the top of the shaft, as Vitruvius and some of the moderns make it. 2. That the face of the volutes, which usually makes a flat, is sometimes curved and convexed, so that the circumvolutions go advancing outwards, as is frequent in the antique. 3. That the border or rim of the scroll in the volute, is sometimes not only a plane sweep, but the sweep is accompanied with a fillet. 4. That the leaves which invel the balluster are sometimes long and narrow, sometimes larger and broader. 5. That the two faces of the volutes are sometimes joined at the outward corner, the ballusters meeting in the middle, to make a regularity between the faces on the front and back of the building, with
C A P  [ 459 ]  C A P

tall of the sides. 6. That among the moderns, since Scamozzi, the ionic capital has been altered, and the four faces made alike, by taking away the balluster and hollowing all the faces of the volute inwards, as in the composite. 7. That Scamozzi and some others, make the volutes to spring out of the ovolo, as from a base; whereas in the antique the bark passes between the ovolo and abacus, quite straight, only twisting at its extremities, to form the volute. And lastly, that of late years the sculptors have added a little kind of solidity, both by the antients and moderns; since Scamozzi, the ionic volute.

The differences of its character are, 1. That, in Vitruvius, &c. the leaves are in the form of the acanthus; whereas in the antique they are more usually olive-leaves. 2. That their leaves are usually unequal, the undermoft being commonly made talled, but sometimes the shorteft; though they are sometimes all equal. 3. The leaves are sometimes ruffled, sometimes quite plane; the first row generally bends out towards the bottom, but at other times they are straight. 4. Sometimes the horns of the abacus are sharp at the corner, but most commonly they are cut. 5. There is some difference in the form and size of the role. 6. The volutes are sometimes joined to each other, and at other times wholly separated. 7. Sometimes the spires of the volutes continue twisting even to the end, in the same course; and sometimes they are turned back again near to the center, in the form of the letter S.

Composite Capital, that which has the double row of leaves of the corinthian, and the volutes of the ionic capital. See the article Composite.

The height of this capital is two modules one third, and the projection one and two thirds. The differences of its character consist in this, 1. That the volutes which ordinarily descend and touch the leaves, are in some works of the antique separated from them. 2. That the leaves are sometimes unequal in height, the lowest being the tallest; and sometimes equal. 3. That the volutes of the moderns generally spring out of the base; whereas in the antique they run straight the length of the abacus, over the ovolo, without striking into the vafe. 4. That the volutes, whose thickness is contracted in the middle, and enlarged above, and below in the antique, in the works of the moderns have their sides parallel. 5. That the volutes which have been hitherto made as if solid, both by the antients and moderns, are now made much lighter and more airy; the folds standing hollow, and at a distance the one from the other.

Attic Capital, that which has leaves of partition in the gorge.

For the proportion of the several members of the capitals of columns, see each member under its proper head, as Abacus, Volute, &c. and the article Column.

Angular Capital, that which bears the return of an entablature, at the corner of the projection of a frontispiece.

Capital of a balluster, that part which crowns a balluster, resembling sometimes the capitals of some other, especially the ionic.

Capital of a triglyph, the plat-band over the triglyph, called by Vitruvius tænia. It is sometimes a triglyph which does the office of a capital to the doric pillar.

Capital of a niche, a kind of little canopy made over a shallow nich, to cover a statue.

Capital of a lanthorn, a covering sometimes of one shape, and sometimes of another, which finishes the lanthorn of a dome.

Capital of a bastion, in fortification, a line drawn from the angle of a polygon to the point of the bastion; or from the point of the bastion to the middle of the gorge. These capitals are from thirty-five to forty fathoms in length, from the point of the bastion to the place where the two demi-gorges meet.

Capital Line. See the article Line.

Capitals, among printers, large or initial letters, in which titles are composed, and with which all periods, verbs, &c. commence.

The English printers some time ago made it a rule to begin almost every substantive with a capital; a custom not more absurd than that of using no capitals at all, according to a French book lately published.
CAPITANEAT, a province of the kingdom of Naples, situated on the gulf of Venice, and having the province of Molise on the north, and the Principate on the south.

CAPITANIA, in geography, an appellation given to the twelve governments established by the Portuguese in the Brails.

CAPITATED PLANTS, capitate planta, in botany, a name given by Mr. Ray to those plants, whose seeds, with their down, being included in a scaly calyx, are conglobated into a roundish figure like a head; such are the cardus, century, cinara, &c.

CAPITATION, a tax or imposition raised on each person in consideration of his labour, industry, office, rank, &c. It is a very ancient kind of tribute, and answers to what the Greeks called *epexedon*. The Latins call it *tributum*, by which taxes on persons are distinguished from taxes on merchandise, which were called *meagallia*.

Capitations are never prattled among us but in exigencies of state. In France, the capitation was introduced by Lewis XIV, in 1695, and is a tax very different from the taille, being levied from all persons, whether they be subject to the taille or not. The clergy pay no capitation, but the princes of the blood are exempted from it.

CAPITATUS, in ichthyology, the smooth *cotton* without any scales, called in English the bull-head, or miller's thumb.

CAPITE, in law, an antient tenure of land, which was held immediately of the king, as of his crown, either by knight's service, or Oscage. The tenure in capite was of two kinds; the one principal and general, the other special or subaltern. The former was of the king, the fountain from whence all tenures have their main original. The latter was of a particular subject, so called because he was the first that granted the land in such manner, and hence he was styled *capitau dominus*, and *caput terre illius*. This tenure is now abolished, and, with others, turned into common Oscage.

CAPITE CENS, in Roman antiquity, the poorer sort of people, who in the census, or assessements, were valued at little or nothing, but only named or reckoned as citizens. See the article CENSUS.

CAPITIS NONUS, in anatomy, the same with the rectus capitidis anterior longus,
of their meeting in a place called the capitol: they are eight in number, are chosen annually, and have each the government of a capitoulate, or precint, like the wards of London.

CAPITULA RURALIA, assemblies or chapters held by rural deans and parochial clergy, within the precinct of each deanship; held at first every three weeks, afterwards once a month; and more solemnly once a quarter.

CAPITULAR, in general, a book divided into several chapters, or capitula; but by particular application, is taken for a collection of civil and canonical law; and more especially for those laws and regulations which the kings of France made at the public meetings of the bishops and temporal lords, for the government of the church. The execution of what related to church-affairs was intrusted with the archbishops and bishops; and those capitulars which concerned the temporal government, were put into the hands of the earls and other lords. In the eighth and following centuries, bishops called their synodical regulations for discipline, capitula, or capitulars: they were commonly drawn from canons of councils, or the determinations of the fathers. These decisions carried the force of law no farther than the diocese where they were published, unless approved by a council, or the metropolitan, in which latter case they were observed throughout the whole province.

The celebrated author of the Spirit of Laws, observes, that as France was divided into several small principalities, in a manner independent of one another, it was a difficult matter to cause the capitulars to be every where observed; and that therefore they were, in course of time, entirely forgot.

CAPITULATION, in military affairs, a treaty made between the garrison or inhabitants of a place besieged, and the besiegers, for the delivering up the place on certain conditions.

The most honourable and ordinary terms of capitulation are, to march out at the breach, with arms and baggage, drums beating, colours flying, a match lighted at both ends, and some pieces of cannon, waggons, and convoys, for their baggage, and for the sick and wounded.

CAPITULATION, in the german polity, a contract which the emperor makes with the electors, in the name of all the princes and states of the empire, before he is declared emperor, and which he ratifies before he is raised to that sovereign dignity. The principal points which the emperor undertakes to observe, are, 1. To defend the church and the empire. 2. To observe the fundamental laws of the empire. And, 3. To maintain and preserve the rights, privileges, and immunities of the electors, princes, and other states of the empire, specified in the capitulation. These articles and capitulations are presented to the emperor by the electors only, without the concurrence of the other states, who have complained from time to time of such proceedings; and in the time of the welphalian treaty, in 1648, it was proposed to deliberate in the following diet, upon a way of making a perpetual capitulation; but the electors have always found means of eluding the execution of this article. In order however to give some satisfaction to their adversaries, they have inserted in the capitulations of the emperors, and in that of Francis I. in particular, a promise to use all their influence to bring the affair of a perpetual capitulation to a conclusion. Some German authors own that this capitulation limits the emperor's power; but maintain that it does not weaken his sovereignty: though the most part maintain that he is not absolute, because he receives the empire under conditions which sets bounds to an absolute authority.

CAPITULUM, among botanists, the name with what is otherwise called umella.

CAPIVI, or COPIVI. See COPIVI.

CAPNIAS, or CAPNITIS, in natural history, names by which the antients called the pale bluish jasper, with black veins and clouds. See JASPER.

CAPNOIDES, in botany, a distinct genus of plants, according to Tournefort, but comprehended by Linnaeus under fumaria, or fumitory.

CAPNOMANCY, in antiquity, a kind of divination drawn from the smoke of sacrifices: when this was thin, light, and ascended in a straight line, it was deemed a good omen; and, if the contrary, an ill one.

CAPNORCHIS, in botany, a name given to the indian bulbous-rooted fumitory.

CAPO, in ornithology, the name of several italian species of duck, as the tufted duck; the reddish brown duck, called the capo-roso; and the larger red-headed duck, called the capo-roso maggiore.

CAPO, in ichthyology, a name given to a species of triglæ, called in english the red gurnard,
CAP, in music. See Da capo.

CAPOC, a sort of cotton as soft as silk, so fine and so short that it cannot be spun. It is used in the East-Indies, as well as in Europe, to line palamquins, to make beds, matraffes, cushiona, pillows, &c.

CAPON, a cock chicken, gelded as soon as left by the dam, or as soon as he begins to crow. They are of use either to lead chickens, ducklings, pheafants, &c. and defend them from the kites and buzzards; or to feed for the table, they being reckoned more delicate than either a cock or a hen.

CAPON-SCARF, or CAPONIERE, a work frank on the glacis of a place, about four or five feet deep: the earth that comes out of it serves to form a parapet of two or three feet high, made with loop-holes or small embrasures; it is covered overhead with strong planks, on which are laid clays, or hurdles, which support the earth which covers all. It holds fifteen or twenty men, who fight through these embrasures. They are also sometimes made in the bottom of a dry moat.

CAPACIA, a town of the bishop Principal, in the kingdom of Naples. It is a bishop's see, and situated about eighteen miles south-east of the city of Naples: east lon. 15° 20', and north lat. 40° 45'.

CAPADINE, a sort of silk flock, taken from the upper part of the silk-worm cod, after the true silk has been wound off.

CAPANUS, in zoology, the name by which fome call that species of folen, which bores into and destroys the bottoms of ships.

CAPARIS, caper, in botany, a genus of the polyandria-monogynia class of plants, the corolla of which consists of four roundish, emarginated, open petals: the fruit is a carnofe, turbinate capsule, with only one cell, containing numerous kidney-shaped seeds. See plate XXXVI. fig. 2. and the article Caper.

CAPRA, the goat-kind, in zoology, constitutes a genus of quadrupeds, of the order of the perora, distinguished from the other genera of this order, by their hollow, rough, and erect horns, which bend a little backwards.

Of this genus authors enumerate a great many species, as the common goat; the rupicapra, or chamois-goat; the ibex; the gazella; and several others: for a description of which, see the articles Goat, Rupicapra, &c.

CAPRA, in astronomy, an appellation given to the star capella, and sometimes also to the constellation capricorn. See the articles Capella and Capricorn.

CAPRA, in ornithology, a name sometimes given to the vanellus, or lap-wing.

CAPRA SALTANS, in meteorology, a fiery meteor, or exhalation, which sometimes appears in the atmosphere: the exhalation is not a straight line, but inclined, confluting of windings in and out, resembling the capering of a goat.

CAPRAIA, an island on the coast of Tuscany, about thirty miles south-west of Leghorn: east lon. 11° 30', and north lat. 43° 15'.

CAPRARIA, in botany, a genus of the didynamia-angiofermia class of plants, the flower of which consists of a single, concave petal, divided into four segments: the fruit is an oblong conic capsule, formed of two valves, and containing only one cell, where there are a great number of seeds of an oblong form.

CAPRAROLA, a town of St. Peter's patrimony, in Italy, about twenty miles north of the city of Rome, and eight south of Viterbo: east longit. 15°, and north latitude 42° 30'. It is a bishop's see.

CAPREA, or CAPREOLUS, in zoology, an animal of the deer-kind, with rounded, erect, and ramole horns, which serve to make handles for knives. It is called in English, the roe-deer.

CAPREA, in geography. See Capri.

CAPREOLUS, in botany, denotes the name with cirrus. See Cirrus.

CAPREOLUS, in anatomy, a name antiently given to the helix of the ear.

CAPREOLUS, in the agriculture of the antients, a kind of hoe with two fangs, for thriving the ground.

CAPRI, or CAPREA, a city and island at the entrance of the gulph of Naples, about twenty miles south of that city: east longit. 14° 50', and north lat. 40° 45'. The island is only four miles long, and one broad; the city is a bishop's see, situated on a high rock, at the west end of the island.

CAPRICE, in music, a term applied to certain pieces, in which the composer gives a looke to his fancy, and not being confined either to particular measures, or keys, runs divisions according to his mind, without any premeditation.

CAPRICE, in architecture, an appellation given to buildings of a peculiar taste, and deviating from the received rules of that art.
CAPRICORN, 

CAPRICORN-BEETLE, the English name of a species of *cerambyx*, with antennae somewhat resembling goat's horns. See plate XXXVI. fig. 4.

CAPRICORN, in astronomy, one of the twelve signs of the zodiac, represented in globes in the form of a goat, and characterized in books by this mark ☩.

It is the tenth sign in order, and contains twenty-eight stars, according to Ptolemy and Tycho Brahe; twenty-nine, according to Hevelius; and fifty-one, according to Flamstead.

It is said that these signs will never come to maturity, unless wounded by the insects depositing their eggs. Possibly the reason of this effect, may be their lacerating the vessels of the fruit, and thereby deriving thither a greater quantity of nutritious juice.

Plums and pears, wounded in the same manner, are found to ripen sooner, and the pulp about the wound has a more exquisite taste than the rest.

CAPRIFICUS, in botany, a genus given by the ancients to two distinct plants, the wild fig, and the *ejula* or *euphorbia* of authors.

CAPRIFOLIUM, HONEY-SUCKLE, in botany, a distinct genus of plants, according to Tournefort, but comprehended under the *lonicera* by Linnaeus. See the article LONICERA.

CAPRIMULGUS, the GOAT-SUCKER, in ornithology, a species of *hirundo*, or sparrow, erroneously called the churn-owl, or fern-owl. See HIRUNDO.

CAPRIOLES, in the manege, leaps that a horse makes in the same place, without advancing, in such a manner, that when he is at the height of the leap, he jerks out with his hinder legs, even and near. It is the most difficult of all the high manege. It differs from a croupade in this, that in a croupade the horse does not fllew his shoes; and from a ballotade, because in this he does not jerk out. To make a horse work well at caprioles, he must be put between two pillars, and taught to raise first his fore-quarters, and then his hind-quarters, while his fore are yet in the air, for which end you must give the whip, and the poinson.

CAPRISCUS, the GOAT-FISH, in ichthyology, a broad and flat fish, with scales disposed in a cancelled manner, or in longitudinal and transverse lines, intersecting one another.

CAPSICUM, GUINEA-PEPPER, in botany, a genus of the *pantandra-monogynia* class of plants, the flower of which is a rotated petal, with a short tube, a patent plicated limb, divided into five broad and sharp-pointed segments: the fruit is a berry without pulp, approaching to an oval figure, with two hollow and coloured cells, containing numerous and compressed seeds, of a kidney shape. Guinea-pepper is more used as a sauce and pickle, than in physic.

CAPSQUARES, in gunnery, strong plates of iron which come over the trunnions of a gun, and keep it in the carriage. They are fastened by a hinge to the prize-plate, that they may lift up and down, and form a part of an arch, in the middle to receive a third part of the thickness of the trunnions: for two thirds are let into the carriage, and the other end is faftened by two iron wedges, called the forelocks and keys.

CAPSTAN, or MAIN-CAPSTAN, in a ship, a great piece of timber in the nature of a windlass, placed next behind the main-mast, its foot standing in a step on the lower deck, and its head between the upper decks; formed into several squares with holes in them. Its use is to weigh the anchors, to hoist up or strike down top-masts, to heave any weighty matter, or to strain any rope that requireth a main force.

Fearn CAPSTAN is placed between the main-mast and the mizen, and serves to strain any rope, heave upon the near-rope or upon the viol, or hold off by at the weighing of an anchor.

CAPSTAN-BARS, the pieces of wood that are put into the capitan holes, to heave up any thing of weight into the ship.

Fowel of a CAPSTAN, a short piece of iron made fast to the deck, and resting upon the wheel, to keep the capstan from recoiling, which is of dangerous consequence.

Fhelps of a CAPSTAN are short pieces of wood, made fast to it, to keep the cable from coming too nigh, in turning it about.

Pawltig
-Pawling the CAPSTAN, is flapping it from turning by means of the pawl.

Come up CAPSTAN, or launch out the CAPSTAN, that is, slacken the cable which you heave by.

CAPSULATE, or CAPSULATED PLANTS, those furnished with capsules for the reception of their seeds.

CAPSULE, in a general sense, denotes a receptacle, or cover, in form of a bag.

CAPSULE, among botanists, a species of pericarpium, or seed-veil, composed of several dry, elastic valves, which usually burst open at the points, when the seeds are ripe: it differs from a pod, in being of captain, but the pay of lieutenant, this kind of pericarpium contains one cell or cavity, sometimes more: in the first case it is called unilocular, as it is bilocular, trilocular, &c. when it contains two, three, &c. cells or cavities.

CAPSULA, in chemistry, an earthen pan for holding things that are to undergo violent operations of the fire.

CAPSULA-COMMUNIS, in anatomy, called also CAPSULA GLISSONII, from its discoverer, is a tunic continuous with the perito-neum, and includes the branches of the vena porta and biliary ducts as they approach the liver, as well as within it.

CAPSULA-CORDIS. See PERICARDIUM.

CAPSULE ATRABILIARUM, called also GLANDULA RENAE, and RENAE INGUINALIS, are two yellowish glands of a compressed figure, lying on each side of the upper part of the kidneys. They have a very narrow cavity, imbued with a brownish liquor of a sweetish taste. Their figure is irregular, between square, triangular, and oval. Their size also is various; but in adults, they are in general about the bigness of a large nux vomica. In the focus, they are larger, and often exceed the kidneys themselves in size. The membrane that surrounds them is very thin: it closely involves their whole substance, and connects them with the kidneys. Their blood-veils are sometimes sent from the aorta and the vena cava, but more frequently from the emulgents: their nerves are from the plexus vesicalis, and their lymphatic vessels are numerous. There is no excretory duct discovered in them, and their use is therefore not certainly known. By their great size in the focus, they seem defined rather to the service of that state, than of any other.

CAPSULE-SEMINALES, the same with vesicles-seminales. See VESICULAE, &c.

CAPTAIN, a military officer, whereof there are various kinds, according to their commands.

CAPTAIN of a troop or company, an inferior officer, who commands a troop of horse, or company of foot, under a colonel. In the same sense we say, captain of dragoons, of grenadiers, of marines, of invalids, &c.

In the horse and foot guards, the captains have the rank of colonels.

CAPTAIN general, he who commands in chief.

CAPTAIN lieutenant, he who with the rank of captain, but the pay of lieutenant, commands a troop or company in the name and place of some other person who is dispensed with on account of his quality from performing the functions of his post.

Thus the colonel, being usually captain of the first company of his regiment; that company is commanded by his deputy, under the title of captain-lieutenant.

So in England, as well as in France, the king, queen, dauphin, princes, &c. have usually the title of captains of the guards, gens d' armes, &c. the real duty of which offices is performed by captain-lieutenants.

CAPTAIN reformed, one who, upon the reduction of the forces, has his commission and company suppressed; yet is continued captain, either as second to another, or without any post or command at all.

CAPTAIN of militia, he who commands a company of the militia, or trained bands. See the article MILITIA.

CAPTAIN of a ship of war, the commanding officer of a ship, galley, fire-ship, or the like. This officer ranks with a colonel in the land service.

CAPTAIN of a merchant-ship, he who has the direction of the ship, her crew, and lading, &c. In small ships and short voyages, he is more ordinarily called the master. In the mediteranean, he is called the patroon.

The proprietor of the vessel appoints the captain or master, and he is to form the crew, and choose and hire the pilots, mates, and seamen, though, when the proprietor and master reside on the same spot, they generally act in concert together.

CAPTAIN BASHAW, or CAPONDAN BASHAW, in the polity of the Turks, signifies the turkish high admiral. He politi
The captivities of Judah are generally redeemed their captives; and, in England, a statute was made for the relief of captives, taken by turkish and other pirates, in 16 and 17 of Car. II.

CAPTIVITY, a punishment which God inflicted upon his people, for their vices and infidelities. The first of these captivities is that of Egypt, from which Moses delivered them; after which, are reckoned six during the government of the judges: but the greatest and most remarkable, were those of Judah and Israel, which happened under the kings of each of those kingdoms. It is generally believed, that the ten tribes of Israel never came back again after their dispersion; and Josephus and St. Jerom are of this opinion: nevertheless, when we examine the writings of the prophets, we find the return of Israel from captivity pointed out in a manner, almost as clear as that of the tribes of Benjamin and Judah. See Hosea i. 10, xi. 12. Amos ix. 14. Isaiah xi. 13 and 14. Ezekiel xxxvii. 16, &c.

The captivities of Judah are generally reckoned four; the fourth and last of which fell in the year of the world 3416 under Zedekiah; and from this period begin the seventy years captivity, foretold by Jeremiah.

Since the destruction of the temple by the Romans, the Hebrews boast, that they have always had their heads, or particular princes, whom they call princes of the captivity, in the east and west. The princes of the captivity in the east governed the Jews, who dwelt at Babylon, in Chaldæa, Assyria and Persia; and the prince of the captivity in the west governed those, who dwelt in Judea, Egypt, Italy, and in other parts of the roman empire. He, who resided in Judea, took up his abode commonly at Tiberias, and assumed the title of Rachabobo, head of the fathers or patriarchs. He presided in assemblies, decided in cases of controversy, levied taxes for the expenses of his visits, and had officers under him, who were dispatched through the provinces, for the execution of his orders.

CAPTIVE, a slave, or person taken by the enemy in war, or by a pirate or corsair. See the articles SLAVE and PIRATE.

The Romans led their captives in triumph, and, by the cornelian law, the latter wills of those Romans, who died in the hands of an enemy, were confirmed in the same manner, as if they had been free, although that will had been made, before the person marched out of the city to war. See PRISONER of war.

CAPTAIN, in modern history, more particularly denotes a christian slave, taken by the piratical states of Barbary.

The fathers of la Merci and the Mathurins in France are employed in redeeming these captives; and, in England, a statute was made for the relief of captives, taken by turkish and other pirates, in 16 and 17 of Car. II.
As to the princes of the captivity of Babylon, or the caft, we know neither the original nor succession of them; it appears only, that they were not in being before the end of the second century.

CAPTURE signifies, particularly, prizes taken by privateers, in time of war, which are to be divided between the captors. See the article PRIZE.

CAPUA, a city of the province of Lavo-ro, in the kingdom of Naples, situated on the river Volturno, about fifteen miles north-west of the city of Naples: east long. 14°, and north lat. 41° 20'. It is the see of an archbishop.

CAPUCHINS, in the church of Rome, the same with franciscans. See the article FRANCISCANS.

CAPUT; the head, in anatomy. See HEAD.

CAPUT CORTIJENIIS, a muscle of the neck, otherwise called transversarius. See TRANSVERSARIUS.

CAPUT DRACONIS, the DRAGON'S HEAD, in astronomy, the ascending node of the moon. See the article NODE.

Caput draconis is also a star of the first magnitude, in the head of the constellation Draco. See the article DRACO.

CAPUT GALLINAGINIS, in anatomy, a kind of septum, or spongeous border at the extremities of the apertures of each of the velicula feminales, serving to hinder the seed, coming from one side, from rushing upon, and stopping the discharge of the other.

Some will have its use to be, to prevent the impulse of the seed from dilating the orifices of the velicula, and so ouzing out, except when assisted by the compression of the surrounding parts, as in copulation; but this, according to others, is rather the office of a distinct caruncle, placed at each orifice, and acting as a valve.

CAPUT MORTUUM, in chemistry, that thick, dry matter, which remains after distillation of any thing, but of minerals especially.

It very frequently denotes only that which remains of vitriol in its distillation, which they call colcothar vitrioli. The caput mortuum, though in some cases there be but little, if any active principle left in it, yet it is never pure; and the colcothar vitrioli, if exposed to the air, will turn to vitriol again. The caput mortuum, called allo terra damnata, is found in form of a friable, porous matter, without taint or finell: it is ranked among the chemical elements, and supposed to constitute the dry, fixed, earthly, and solid part of all bodies whatever. It is what the chemists call a passive element or principle, serving as the basis or support of the active ones.

CAPY-BARA, in zoology, the thick-headed hippopotamus, with no tail: it is a native of Brazil, and called porcus fluvialis, the river-hog, from the resemblance it bears to the hog-kind. See the article HIPPOPOTAMUS.

CAR, or CARR. See the article CARR.

CARABE, or KARABE, in natural history, a name given to amber. See AMBER.

CARABINE, a fire-arm, shorter than a musket, carrying a ball of twenty-four in the pound, borne by the light-horse, hanging at a belt over the left shoulder. The barrel is two feet and a half long, and is sometimes furrowed spirally within, which is said to add to the range of the piece.

CARABINEERS, or CARABINIERS, regiments of light horse, carrying longer carabines than the rest, and used sometimes on foot.

CARABUS, in zoology, a genus of four-winged flies, the antennæ of which are oblong, flender, and cutaceous; and the thorax is somewhat convex, margined, of a cordate figure, and truncated in the hinder part.

Authors enumerate a great many species of this insect, distinguished by their different colours, and other peculiarities.

CARACAOS, or CARASSOW, a town on the coast of Terra Firma, in south America: west long. 65°, north lat. 10° 10'.

CARACARA, in zoology, a brazilian species of falcon, the back of which is of a pale-brown colour, variegated in an elegant manner with spots of white and yellow. See the article FALCON.

CARACATY, a large country in the north of Asia, extending from the wall of China, to the antient Mogolitan.

CARACOL, in the manage, the half turn which a horseman makes, either to the right or left.

In the army, the horse always make a caracol after each discharge, in order to pass to the rear of the squadron.

CARACOL, in architecture, denotes a flat-cafe in a helix or spiral form.

CARACOLI, a kind of metal, of which the Caribbes, or natives of the leffer Antilles, make a sort of ornament in the form of a crescent, which they also call caracoli.

This metal comes from the main land; and the common opinion is, that it is a compound
CARAC, CAF, AGROUTH, CARAGUA, CARAITES, fea. From everything like compound of them, it is said, has a colour that never alters, how long soever it remains in the sea, or under ground. It is something brittle, and they who work at it, are obliged to mix a large proportion of gold with it, to make the compound more tough and malleable.

CARACT, CARAT, or CARRAT, the name of that weight which expresses the degree of fineness that gold is of. The mint-master, or coifum, have fixed the purity of gold at 24 carats; though it is not possible to purify and refine that metal, but it will want still about one fourth part of a carat in absolute purity and perfection. The carat is divided into 24, 15, 12, and 10. These degrees serve to distinguish the greater or lighter quantity of alloy therein contained: for instance, gold of 22 carats, is that which has two parts of silver, or of any other metal, and 22 of fine gold.

CARACT is also a certain weight which goldsmiths and jewelers use wherewith to weigh precious stones and pearls. This carat weighs four grains, but something lighter than the grains of other weights. Each of these grains is subdivided into 1/2, 1/4, 1/8, 1/16, &c.

CARAGROUTH, in commerce, a silver-coin of the empire, weighing nine drachms. It goes at Constantinople for 120 apers. There are four sorts of them, which are all equally current, and of the same value.

CARAGUATA, in botany, the name by which Plinius calls the islandia of Linnaeus. See the article TILLANDSIA.

CARAITES, in the ecclesiastical history of the Jews, a religious sect among that people, who adhere closely to the text and letter of the scriptures, rejecting the rabbinical interpretations, and the cabbala. The caraites pass for the most learned of the Jewish doctors; they are chiefly to be met with in Poland, Muscovy, and the east. They are but few in comparison of the bulk of the Jews, who are of the party of the rabbins: the latter have so great an aversion for the caraites, that they will have no alliance, nor even conversation, with them: they treat them as barbarous; and if a carait would turn rabbinit, the other Jews would not receive him.

CARAMANIA, a province of Natoia, in Asia, situated on the Mediterranean sea, opposite to the island of Cyprus.

CARAMANICO, a large well-peopled town of the kingdom of Naples, in the hither Abruzzo.

CARAMANTA, the name of a province of South America, bordered on the north by the district of Carthagena; on the east, by new Grenada; and on the south and west, by Popayan.

CARAMANTA is also the name of the capital of that province, situated in 5° 18' north lat.

CARAMANNA, a vegetable production, whole inflammability and solubility in oil, prove it to be truly a refining, thou' some call it a gum.

It is brought to us principally from New Spain, and is to be chosen clean, of a dark colour, and bitterish taste. This refining affords, by distillation, a fine odoriferous oil, which is esteemed, as well as the refined itself, a very powerful external remedy, in cases of pain, tumours, and wounds of the nerves. It is even used by some in the gout and sciatica. It is made into a plaster, with the addition of Chio-turpentine, and oil of mace, which is applied to the face in cases of indigestions, and to the head for the cure of inveterate pains there.

CARENTA, in botany, the same with the ceratonia, or lilqua of other writers.

CARAPO, in ichthyology, a Brazilian fish, called by Aratci gymnotus. See the article GYMNOTUS.

CARAPOPEBA, in zoology, a Brazilian species of serpent, of a liver colour, the body of which is variegated with white spots, and its tail with white lines.

CARARA, a small town of Tuscania, in Italy, situated about ten miles eastward of Sarzana, and four from the Mediterranean.

CARASSIUS, or CARASUS, in ichthyology, names used by several authors for the cyprinus with twenty bones in the backfin, and the side line straight.

CARAT, or CARRAT. See the article CARRAT.

CARATAS, or KARATAS. See the article KARATAS.

CARATH, a name sometimes given to acacia. See the article ACACIA.

CARAVAN, or CARAVANNE, in the east, signifies a company or assemblie of travellers and pilgrims, and more particularly of merchants, who for their greater security, and in order to asest each other, march in a body through the deserts, and

O O O

and
and other dangerous places, which are
infested with Arabs, or robbers.
There is a chief, or age, who commands
the caravan, and is attended by a certain
number of janizaries, or other militia,
according to the countries from whence
the caravans set out; which number of sol-
diers must be sufficient to defend them,
and conduct them, with safety, to the
places for which they are designed, and
on a day appointed. The caravan en-
camps every evening near such wells or
brooks, as their guides are acquainted
with; and there is a strict discipline ob-
erved upon this occasion, as in armies
in time of war. Their beasts of burden
are partly horses, but most commonly
camels, who are capable of undergoing
a very great fatigue.

Caravan is also used for the voyages or
campaigns which the knights of Malta
are obliged to make at sea against the
Turks and Corsairs, that they may arrive
at the commandaries or dignities of the
order.
The reason of their being thus called, is
because the knights have often seized
the caravans going from Alexandria to
Constantinople.

Caravanier, a person who leads the
camels, and other beasts of burden, who
are commonly used in the caravans in the
East.

Caravansera, or Karavanbara, a
place appointed for receiving and load-
ing the caravans.
It is commonly a large square building,
in the middle of which there is a very spa-
cious court; and under the arches or pi-
azzas that surround it, there runs a bank,
raised some feet above the ground, where
the merchants, and those who travel with
them in any capacity, take up their lodg-
ings, as well as they can: the beasts of
burden being tied to the foot of the bank.
Over the gates, that lead into the court,
there are sometimes little rooms, which
the keepers of the caravans let out,
at a very high price, to such as have a
mind to be private.
The caravans in the east, are some-
thing in the nature of the inns in Europe,
only that you meet with little accommo-
dation either for man or beast, but are
obliged to carry almost every thing with
you: there is never a caravanseria with-
out a well, or spring of water: These
buildings are chiefly owing to the chari-
ty of the mahometans: they are esteem-
ed sacred dwellings, where it is not per-
mitted to insult any person, or to pillage
any of the effects that are deposited there.
They even carry their precautions so far,
as not to suffer any man who is not mar-
rried to lodge there; because they are of
opinion, that a man who has no wife, is
more dangerous than another.

Caravanerasker, the Reward,
or keeper of a caravanserai.
He keeps an account of all the merchan-
dizes that are sold upon trust, and de-
mands the payments of the sums due to
the merchants, for what has been sold in
the caravanserai, on the seller's paying
two per cent.

Caruna, a brazilian sapphire of the turquoise-
kind, with a semi-circular mouth:

Caraway, or Carraway, the eng-
lish name of the caruit of botanists. See
the article Carui.

Caraxeron, in botany, the name by
which Vaillant calls the gomphrena or
amaranthoides of other botanists. See
the article Gomphrena.

Carbuncle, in natural history, a very
elegant gem, whose colour is deep red,
with an admixture of scarlet.
This gem was known among the ar-
tients by the name of anthrax. It is
usually found pure and faultless, and is
of the same degree of hardness with the
sapphire: it is naturally of an angular
figure, and is found adhering, by its
bale, to a heavy and ferruginous stone of
the emery-kind: its usual size is near
a quarter of an inch in length, and two
thirds of an inch in diameter; when held up against the sun, it
loses its deep tinge, and becomes exactly
of the colour of a burning charcoal,
whence the propriety of the name which
the antients gave it. It bears the fire
unaltered, not parting with its colour,
Nor becoming at all the paler by it. It is
only found in the East Indies, so far as is
yet known, and there but very rarely.

Carbuncle, or Anthrax, in sur-
gery, an inflammation which arises, in
time of the plague, with a vehicile or blis-
ter, almost like those produced by burn-
ing. This inflammation, for the most
part, terminates in a phæochus, and pu-
trifies the subjacent parts down to the
bone, they becoming as black as a coal.
A carbuncle always breaks out very
speedily, even in the space of an hour
or two, attended with heat and pain: as
soon as it is opened, it discharges a livid
flatus, or sometimes a limpid water: it
is black within, which is a sign that the
ipha-
sphæclus has seized the subjacent parts, and is making its progress; but the putrid flesh in those who recover, suppurates, and parts from the wound. The size of these pestilential blisters is various, more or less; as is also their number in the patient; for there is no part of the body which they do not infect, and they generally appear in company with buboes. See Buboe.

These carbuncles which arise in the face, neck, breast, or armpits, are observed to be of the worst kind, for they generally kill the patient. As to the internal treatment of carbuncles, the very fame is to be observed in this case, as has been recommended under the article pestilential Buboes.

In the external treatment, some of the modern physicians use only scarification in this case, with very good success; others only open the eruptions with a pair of scissors, and having discharged the matter, they frequently wash the carbuncle with fs. win. camph. or fs. vin. wherein has been digested a little theriac; they afterwards apply a maturating cataplasm, which is to be continued till the carbuncle separates from the sound parts; then they cut it out all at once.

CARBUNCLE, in heraldry, a charge or bearing, consisting of eight radii, four where of make a common cross, and the other four a fætter.

Some call these radii buttons, or flaves, because round, and enriched with buttons, or pearled like pilgrims flaves, and frequently tipped or terminated with flower-de-luces: others blazon them, royal scepters, placed in fætter, pale and fæte.

CARBUNCULATION, a disease of plants otherwise called blight. See Blight.

CHARCARIAS CANIS, in ichthyology, the common shark, or squaIus with a flat back, and numerous teeth ferrated at the edges. See Squalus.

CARCASE, cadaver, the body of a dead animal, especially a brute; that of the human species being called corps. It is well known, that flesh, as well as blood, is specifically heavier than water; and yet dead bodies, after lying some time at the bottom, are always found to float: a circumstance undoubtedly owing to air generated by putrefaction, whereby the body is buoyed up. See the articles Fermentation and Putrefaction.

CARCASE, in architecture, the shell or ribs of a house, containing the partitions, floors, and rafters, made by carpenters; or it is the timber-work (or as it were the skeleton) of a house, before it is lathed and plastered: it is otherwise called the framing.

CARCASS, or CARCASS, in the art of war, an iron-case or hollow capacity, about the bignes of a bomb, of an oval figure, made of ribs of iron, filled with combustible matters, as meat-powder, salt-petre, sulphur, broken glass, shavings of horns, turpentine, tallow, &c. the design of it is to be thrown out of a mortar to set houses on fire, and do other execution. It has two or three apertures through which the fire is to blaze.

CARCASSONE, a town of Languedoc, in France, situated on the river Ande, about twenty-five miles west of Narbonne: east long. 2°, north lat. 43° 20'. It is a bishop's see.

CARCERES, in the antient circenfian games, were inclosures, in the circus, wherein the horses were refrained till the signal was given for starting, when, by an admirable contrivance, they all at once flew open.

CARCINOMA, καρκινόμα, among physicians, the same with cancer. See the article Cancer.

CARCUS, or CARCasse. See the article Carcasse.

CARD, among artificers, an instrument consisting of a block of wood, befit with sharp teeth, serving to arrange the hairs of wool, flax, hemp, and the like: there are different kinds of them, as handcards, flock-cards, &c.

CARDS, among gamelters, little pieces of thin paste-board of an oblong figure, of several sizes, but most commonly in England three inches and an half long, and two and a half broad, on which are painted several points and figures. The moulds and blocks for making cards, are exactly like those that were used for the first books: they lay a sheet of wet or moist paper on the block, which is first slightly done over with a sort of ink made with lamp-black diluted in water, and mixed with some starch to give it a body. They afterwards rub it off with a round lift. The court-cards are coloured by means of several patterns, filed flance-files. These confit of papers cut through with a pen-knife, and in these apertures, they apply severally the various colours, as red, black, &c. These patterns are painted with oil-colours, that the bruises may not wear them out; and when
CARDIA, in natural-history, a genus of shell-fish, the shell of which is formed of two ovals, and resembles the figure of a heart at cards: the valves are equal and gibbous.

Of this genus there are several species, some nearly globose, others of a triangular figure, and others irregularly oblong. Under this genus are comprehended the cockles, ark-thells, &c. together with the pedestes inequitis, or scallops without ears, as they are called. See the articles COCKLE, SCALLOP, &c.

CARDIAC, an appellation given to such medicines as preserve or increase the strength of the heart, and by that means the vital forces, tho' they do not immediately work upon the heart, nor are particularly appropriated to the corroboration of that part. This effect they perform either by replenishing the exhausted vessels with good humours, or exciting motion where it is required. Therefore nutritives duly chosen with respect to particular constitutions, belong to this class, as well as astringent corroboratives and stimulants. All the modern dispensatories are full of cardiacs or cordials, both of the dry and liquid kind; but the best are those which remove the disorder, of which lowness of spirits is the consequence; and next to these is wine, which administered in proper quantities, and more or less diluted as circumstances require, will generally answer better purposes than more pompous cordials, whilst it is less capable of doing mischief.

CARDIACA, MOTHER-WORT, a distinct genus of plants according to Tournefort, but comprehended under that of leonurus by Linnaeus. See the article LEONURUS. Mother-wort is said to facilitate delivery, promote the discharge of urine and the menstes, &c. and may be taken either in powder, or by way of decoction.

CARDIACUS PLEXUS, in anatomy, a plexus or piece of net-work, formed of a ramification of the par vagum, or eighth pair of nerves. See PAR.

CARDIALGIA, the HEART-BURN, in medicine, a disorder of the stomack attended with anxiety, a nauea, and often a reaching or actual vomiting. The causes of this disorder, are either vitiated humours in the stomach, which occasion a nauea and vomiting, or in the common heart-burns, wind, indigestion, and now and then worms. But more frequently a cardialgia proceeds from congections.
gestions of blood about the stomach, which happen to those who are full of blood, but more especially to hypochondriac and hysterical persons.

The cure of a common heart-burn from indigestion, and the acrimony of the contents of the stomach, may be performed by drinking tea, or a decoction of commomile-flowers; as also by taking bitters, or the fefaceous and absorbent powders. When it arises from a crapula, gentle emetics will be useful; and if it proceeds from a congestion of blood, bleeding will be convenient, after which antipathodics are to be given.

If it is occasioned by acute stomachic fevers, rhubarb or ipecacuanha, in a moderate dose, may be prescribed; and if by worms, it must be treated with medicines proper for killing worms.

CARDIFF, a borough-town of Glamorganshire, in south Wales, situated on the river Towy, about two miles south-east of Landaff: west long. 3° 20', north lat. 51° 30'.

It sends only one member to parliament.

CARDIGAN, the capital of Cardiganshire, near the mouth of the river Tivy and the irish channel, about thirty miles north of Pembroke: west long. 4° 40', north lat. 52° 15'.

It gives the title of earl to the noble family of Brudenel, and sends only one member to parliament.

CARDINAL, in a general sense, an appellation given to things on account of their preheminence; thus we say, cardinal winds, cardinal virtues, &c.

CARDINAL VIRTUES are these four, justice, prudence, temperance, and fortitude, upon which all the rei hinge.

CARDINAL POINTS of a nativity, are the rising and setting of the sun, the zenith and nadir.

CARDINAL POINTS, in cosmography. See the article Point.

CARDINAL WINDS, those that blow from the cardinal points.

CARDINAL SIGNS in the zodiac, are Aries, Libra, Cancer, and Capricorn.

CARDINAL NUMBERS in grammar. See the article Number.

CARDINAL, more particularly, signifies an ecclesiastical prince in the roman church, being one who has a voice in the conclave at the election of a pope. The cardinals were originally nothing more than deacons, to whom was intrusted the care of distributing the alms to the poor of the several quarters of Rome; and as they held assemblies of the poor in certain churches of their several districts, they took the title of these churches. They began to be called cardinals in the year 300, during the pontificate of St. Sylvester, by which appellation was meant the chief priests of a parish, and next in dignity to a bishop. This office grew more considerable afterwards, and by small degrees arrived at its present height, in which it is the reward of such as have served his holiness well, even princes thinking it no diminution of their honour, to become members of the college of cardinals.

The cardinals compose the pope's council, and till the time of Urban VIII. were styled most illustrious; but by a decree of that pope in 1630, they had the title of eminence conferred upon them. At the creation of a new cardinal, the pope performs the ceremony of anointing and opening his mouth, which is done in a private confraternity. The opening his mouth, implies the depriving him of the liberty of giving his opinion in congregations; and the opening his mouth, which is performed fifteen days after, signifies the taking off this restraint. However, if the pope happens to die during the time a cardinal's mouth is shut, he can neither give his voice in the election of a new pope, nor be himself advanced to that dignity.

The cardinals are divided into fix classes, or orders, consisting of fix bishops, fifty priests, and fourteen deacons, making in all seventy; which constitute the sacred college. The number of cardinal-bishops has very seldom been changed, but that of priests and deacons, have varied at different times.

The privileges of the cardinals are very great: they have an absolute power in the church during the vacancy of the holy see; they have a right to elect the new pope, and are the only persons on whom the choice can fall: most of the grand offices in the court of Rome, are filled by cardinals. The dyes of a cardinal is a red soutane, a rochet, a short purple mantle, and the red hat. When they are sent to the courts of princes, it is in quality of legates a late r e ; and when they are appointed governors of towns, their government is called by the name of legation.

CARDINAL is also a title given to some bishops, as those of Mentz and Milan, to the archbishop of Bourges; and the abbot
abbot of Vendome calls himself cardinalis natus.

CARDINAL is likewise a title applied to secular officers. Thus the prime ministers in the court of the emperor Theodorus, were called cardinals.

CARDINAL'S FLOWER, a name given to the rapuntium of botanists. See the article RAPUNTUM.

CARDING, the combing and preparing of wool, cotton, flax, &c. with the instruments called cards. See CARD.

Before wool be carded, it must be greased with oil, of which one fourth part of the weight of the wool is required for that which is designed for making the wool of stuffs, and the eight part for that of the warp.

CARDIOMUS, a term sometimes used for the cardialgia. See CARDIALGIA.

CARDIOID, in the higher geometry, an algebraical curve, so called from its resemblance to a heart; for the description and properties of which, see the Philosophical Transactions, No. 461.

CARDISPERMUM, in botany, a genus of the oelandra-trigynia class of plants, the flower of which consists of four petals, and is cruciform; the fruit is a roundish trilocular capsule, containing a single cordated seed.

CARDISPERMUM, a name given to the calendula, or common marigold.

CARDITIS, the heart-shell, in natural history. See the article CARDIA.

CARDIO, in anatomy, a name given to the second vertebra of the neck. See the articles EPITROPHÆUS and AXIS.

CARDONNA, a city of Catalonia, in Spain, situated on a river of the same name, about forty miles north-west of Barcelon:a; east long. 1° 20', north lat. 41° 35'.

CARDOPATIUM, in botany, the same with the carline, or carline thistle. See the article CARLINE.

CARDUEL, in ornithology, a name given to the dipacis, or teazel, is sometimes called. See the article DIPSACUS.

CARREERING, in the sea-language, the bringing a ship to lie down on one side, in order to trim and caulk the other side. A ship is said to be brought to the careen, when the moft of her lading being taken out, she is hauled down on one side by a small vessel as low as necessary; and there kept by the weight of the ballast, ordnance, &c. as well as by ropes, lest her masts should be strained too much; in order that her sides and bottom may be trimmed, seams caulked, or any thing that is faulty under water, mended. Hence when a ship lies on one side when the sails, she is laid to fail on the careen.

CAREER, in falconry, the flight of a bird; signifies the ground that is proper for the manège, and the course or race of a horse that does not go beyond two hundred paces. In the antique circus, the careen was the space the chariots were to run at full speed to carry the prize. See CIRCUS.

CAREER, in falconry, the flight of a bird about one hundred and twenty yards.

CAREK, an island in the gulf of Persia, about twelve leagues from Bender Rech, and fifty from Baffora.

CARELÌA, in botany, the name used by Pontedera for the ageratum of other botanists. See the article AGERATUM.

CARELÌA, in geography, a province of Finland, bounded by the province of Savolaxia on the north, and by the gulf of Finland on the south. It is subject to Russia.

CARELSCOON, a port-town of the province of Gothland, in Sweden, situated
CARIATIDES, or CARYATIDES. See the article CARYATIDES.

CARIBBE-ISLANDS, a cluster of islands, situated in the Atlantic ocean, between 50° and 65° west lon. and between 11° and 18° north lat. They belong partly to the British, and partly to the French, Dutch, &c.

CARIBIANA, or CARIBIANA, the north-east coast of Terra firma, in South America, otherwise called New Andalusia. See the article ANDALUSIA.

CARICA, in botany, a genus of the dioecia-decandria class of plants, the male flower of which is monopetalous, of a funnel-form, with a limb divided into five lanceolate-linear, oblong, obliquely spiral segments: the female flower is pentapetalous, the petals being lanceolate-linear, obtuse on both sides, very long, erect below the middle, but above the middle bending outwards and downwards: the fruit is a very large berry, angulated with five furrows, having one cell, and containing numerous, ovated, fulcated, and tumidated seeds.

CARICATURA, in painting, denotes the concealment of real beauties, and the exaggeration of blemishes, but full fo as to preserve a resemblance of the object.

CARICOUS, an epithet given to such tumours as resemble the figure of a fig. They are frequently found in the plies.

CARIES, in surgery, the corruption of a bone, when it is deprived of its periosteum, and having lost its natural heat and colour, becomes fatty, yellow, brown, and at last black. A caries may be distinguished into two sorts, the first, where the disorder begins in the internal part of the bone. See the article SPINA VENTOSA.

Ppp

The vessel reaches her intended port, is called breaking bulk. See BREAKING BULK.
The other, when it begins on the outside, or from an external cause.

We find two causes of the caries of a bone, one arising from a wound, or any other accident, when the bone is exposed to the injuries of the external air, or is corrupted by unskillfulness in dressing; the other, when the fluids are interrupted in their circulation, by any external violence, or internal caulis whatever, from whence inflammation and suppuration succeed; by which the periosteum and bone leoff their nourishment, on account of the vessels being inflamed and corrupted, quickly becomes carious; or from venereal causes. Hence it appears that there are several degrees of a caries of the bone, but the worst kind is that which falls upon the joints, or any parts of the bone that lie deep, because as there is no access to clean it, the cæse admits of no remedy but amputation of the limb. With regard to the cure of a caries, the mildest method is applied to the slightest degree, and is performed by the application of spirituous remedies, or by balsamics. In a caries that penetrates somewhat deeper, stronger remedies take place, such as the pulvis euphorbi cum spiritu vini optimo parato, aqua phagedenica, or a solution of mercury in aqua fortis, or spirit of nitre; and when by these you have procured an exfoliation of the diseased part, the cure is to be completed with balsamics.

A second method consists in perforating the bone, after it is laid bare with an instrument; after which it is to be dressed with dry lint, or balsamic medicines. A third method is performed by scraping away the vitiated part of the bone with a rasper, or chisel, till all the corrupted parts being destroyed, the bone appears white or ruddy, and sound. The fourth, which is the most antient and most certain method of cure, especially in the greater degrees of this disorder, is performed by burning down the vitiated part of the bone with the actual cautery; and in this operation great care must be taken not to injure the health, or other soft parts that lie near it. In fine, the principal business in curing a caries of the bone consists in a speedy extirpation of the carious parts of the bone, and the rest of the cure is performed in the same manner as other ulcers are treated.

CARIGNAN, a fortified town of Piedmont, situated on the river Po, about seven miles south of Turin: cafit longit. 7° 25', and north lat. 44° 30'.

CARIGOI, and CARIGUEIA, in zoology, a species of opussum. See plate XXXVII. fig. 2, and the article OPUSSUM.

CARIMPANA, in botany, the name by which some call the borassus of Linnaeus.

CARINA properly denotes the keel of a ship. See the article KEEL.

CARINA, in architecture, a name given by the Romans to all buildings in the form of a ship (from carina; the keel of a ship), as we still use the word nave for navis, a ship, the middle or principal vault of our churches, because it has that figure.

CARINA, in anatomy, a term used for the fibrous rudiments, or embryo of a chick, appearing in an incubated egg.

The carina consists of the intire vertebrae, as they appear after ten or twelve days incubation.

CARINA, in botany, the lowest petal of a papilionaceous flower. See the article PAPILIONACEOUS.

CARINTHIA, a dutchy in the circle of Austria, in Germany, bounded by the archbishopric of Saltzburg on the north, and by Carniola and the dominions of Venice on the south. It is subject to the house of Austria.

CARIONOLA, a city of the province of Lavoro, in the kingdom of Naples, about twenty miles north of the city of Naples: east long. 15°, and north lat. 41° 20'. It is a bishop's see.

CARIOUS, something partaking of the nature of a caries. See CARIES.

CARIPI, a kind of cavalry in the turkish army.

The caripi, to the number of about one thousand, are not slaves, nor bred up in the seraglio, like the reft, but are generally moors, or renegado-christians, who, having followed adventures, and being poor, and having their fortune to seek by their dexterity and courage, have arrived to the rank of horie-guards to the grand signior.

CARISBROOK-CASTLE, a castle situatcd in the middle of the isle of Wight, where king Charles I. was imprifoned: west lon. 1° 30', and north lat. 50° 40'.

CARISTIA, or CHARISTIA. See the article CHARISTIA.

CARKE denotes the thirtieth part of a farth of wool. See SAPLAR.

CARLENTINI, a city of Sicily, in the province of Noto.

CARLIN, or CARLINE. See CARLINE.

CARINA, the carline-thistle, in botany, a genus of the fingenea-polygami-equalis class of plants; the compound flower.
flower is uniform and tubulose; the particular flower consists of a single funnel-shaped petal, with a small tube; the limb being campanulate, and divided into five segments: it has no pericarpium; the seeds are solitary, roundish, and villose. See plate XXXVII. fig. 3.

CARLINE, or CAROLINE, a silver coin current in the neapolitan dominions, and worth about four pence of our money.

CARLINES, or CARLING, in commerce, a port-town in the county of Leinster, about twenty-two miles north of Drogheda: west longitude 6° 23', and north lat. 54° 5'.

CARLINGS, or CARLINGS, in a ship, two pieces of timber, lying fore and aft, along from beam to beam, wherein the planks of the ship are fastened. All the carlings have their ends let into the beams culvertail-wise: they are directly over the keel, and serve as a foundation for the whole body of the ship.

CARLISLE, the capital city of Cumberland, situated near the mouth of the river Eden, and the Solway frith: west longitude 2° 30', and north lat. 54° 45'. It is a bishop's see.

CARLOCK, in botany, the same with the raphanistrum. See RAPHANISTRUM.

CARLOCK, in commerce, a sort of unguis made with the surgeon's bladder, imported from Archangel. The chief use of it is for clarifying wine; but it is also used by dyers. The best carlock comes from Afsicracn, where a great quantity of surgeon's carlock is caught.

CARLOSTADIANS, or CARLOSTADIANS, in church-history. See the article CARLOSTADIANS.

CARLOWITZ, a town of Sclavonia, situated on the west side of the Danube, about thirty-five miles north-west of Belgrade: east long. 26° 45', and north lat. 45° 25'.

CARLSTAD, the capital of Sweden, a frontier province of chifhendom against the Turks: east long. 16°, and north lat. 49° 54'. It is subject to the house of Austria.

CARLSTADT is also the name of a town in the bithorpic of Wurtzburg, in the circle of Franconia, in Germany, situated on the river Maine, about fourteen miles north of Wurtzburg: east longit. 9° 50', and north lat. 49°.

CARMAGNIOL, a fortified town of Piedmont, situated on the river Po, about ten miles south of Turin: east longit. 7° 30', and north latitude 44° 45'.

CARMARTHEN, or CAERMARTHEN. See the article CARMARTHEN.

CARMELITES, or WHITE-FRIERS, are an order of our Lady of Mount Carmel, making one of the four orders of mendicants. They pretend to derive their original from the prophets Elijah and Elifha. Their original rules contained sixteen articles, one of which confined them to their cells, and enjoined them to employ themselves day and night in prayer; another prohibited the brethren having any property; another enjoined fasting, from the feast of the exaltation of the holy cross till Easter, excepting on Sundays; abstinence at all times from flesh, was enjoined by another article; one obliged them to manual labour; another imposed a strict silence on them, from vespers till the tierce the next day: however, these constitutions have been in some respects altered. This order is so much increased, that it has at present thirty-eight provinces, besides the congregation of Mantua (in which there are fifty-four monasteries, under a vicar-general) and the congregation of bare-footed carmelites in Italy and Spain, which have their peculiar generals.

If a monk of this order lie with a woman, he is prohibited saying mass for three or four years, is declared infamous, and obliged to discipline himself publicly once a week; if he is again guilty of the same offence, his pence is doubled; and if a third time, he is expelled the order.

CARMEN, a latin term, used, in a general sense, to signify a varic; but in a more peculiar sense, to signify a spell, charm, form of expiation, execration, &c. couched in few words, placed in a mystic order, on which its efficacy was supposed to depend.

CARMENTIAL, feasts celebrated by the Romans, in honour of the prophetess Carmenta, the mother of Evander. They were solemnized twice in the month of January, viz. on the 11th and 15th.

CARMINACH, a city of grand Tartary, in Aia, in the country of Bochara: east longit. 71°, and north lat. 39° 30'.

CARMINATIVES, in pharmacy, medicines used in colics, or other flatulent disorders, to disfpel the wind. The four carminative flowers are those of camomile, melilot, motherwort, and dill; besides, angelica, fennel, lovage, anise, caraway, coriander, cummin, &c. all agree in their carminative qualities,
The Bow-dyers know that the solution of Jupiter, or delved tin, being put in a kettle to the alum and tartar (in another process) make the cloth, &c., attract the colour into it, so that none of the cochineal is left, but all drawn out of the water into the cloth.

CARNEL, among ship-carpenters. The building of ships, first with their timbers and beams, and after bringing on their planks, is called carnel-work, to distinguish it from clinch-work.

CARNELIAN, jarda, in natural history, a precious stone, of which there are three kinds, distinguished by three colours, a red, a yellow, and a white. Authors have attributed medicinal virtues to this stone, meaning the red carnelian; this, therefore, is to be understood the jarda, or carnelian of the fops. It is very well known among us, and is found in roundish or oval masses, much like our common pebbles; and is generally met with between an inch and two or three inches in diameter: it is of a fine, compact, and close texture, of a glossy surface; and, in the several specimens, is of all the degrees of red, from the palest flesh-colour to the deepest blood-red. It is generally free from spots, clouds, or variegations; but sometimes it is veined very beautifully with an extremely pale red, or with white; the veins forming concentric circles, or other less regular figures, about a nucleus, in the manner of those of agates. The pieces of carnelian which are all of one colour, and perfectly free from veins, are those which our jewelers generally make use of for seals, though the variegated ones are much more beautiful. The carnelian is tolerably hard, and capable of a very good polish: it is not at all affected by acid menstruums: the fire divests it of a part of its colour, and leaves it of a pale red: and a strong and long continued heat will reduce it to a pale dirty grey.

The finest carnelians are those of the East-Indies; but there are very beautiful ones found in the rivers of Silesia and Bohemia; and we have some not desppicable ones in England.

Though the antients have recommended the carnelian as an affrangent, and attributed a number of fanciful virtues to it, we know no other use of the stone, than the cutting seals on it, to which purpose it is excellently adapted, as being not too hard for cutting; and yet hard enough not to be liable to accidents, to take a good polish.
CAR, in geography, a name given to that part of the gulf of Venice, which extends from the western coast of Illyria to the island of Grosset and the coast of Morachia. 

CARnero, in geography, a name given to the people of the Carneros, a country bounded by the Carinthia and Morachia, and by the dominions of Venice on the south. 

Carnival or Carneval, a time of rejoicing, a season of mirth, observed with great solemnity in France, particularly at Venice, holding from twelfth-day till lent. 

Feasts, balls, operas, concerts of music, intrigues, marriages, &c. are chiefly held in carnival-time. The carnival begins at Venice the second holyday in Christmas; then it is when they begin to wear masks, and open their play-houses and gaming-houses; the Place of St. Mark is filled with mountebanks, jack-puddings, peddlars, whores, and such like mob, who flock thither from all parts; there have been no less than seven sovereign princes, and thirty thousand foreigners here, to partake of these diversions. 

Carniverous, an appellation given to animals which naturally feed on flesh, and thence called beasts or birds of prey. Some will have it, that no quadrupeds are naturally carnivorous but those furnished with canine or dog-teeth: on which principle mankind are excluded out of the number of naturally carnivorous animals; and, in fact, animal food must undergo various preparations before it is fit for the use of man. 

Carnius, in ancient chronology, a month called by the Athenians metaginion. See the article Metaginion. 

Carnose, or Carnous, in a general sense, something belonging to or abounding with flesh. Hence, Carnose leaf is one full of pulp, contained between the invettient membranes. Carnose Membrane. See Membrane. Carnose Muscle. See Pyramidalis. Carnose Pannicle. See the article Panniculus Carnosus. 

Carnosity, a term sometimes used for an excrecence, or tubercle, in the urethra. 

Carnubia, a name sometimes given to the carob-tree. See the article Carob. 

Caro, flesh, in anatomy. See the article Flesh. 

Caro Musculosa Quadrata, in anatomy, the name with the palmaris brevis. See the article Palmaris. 

Carob-tree, the English name of the filqua, or ceratoins, of botanists. See the article Ceratoins. 

Carob, or Carob-Bean, a fruit that tastes somewhat like chestnuts. 

Carolina, a province of north America, belonging to Great Britain: it is situated, comprehending Georgia, between 75° and 86° west longitude, and between 31° and 56° north latitude; and bounded by Virginia on the north, by the Atlantic ocean on the east, by Spanish Florida on the south, and by the Appalachian mountains on the west; or rather extends westward, without any limits. It is divided into three distinct governments, viz. north and south Carolina, and Georgia. 

Caroline-books, the name of four books, composed by order of Charles-magne, to refute the second council of Nice. These books are couched in very harsh and severe terms, containing one hundred and twenty heads of accusation against the council of Nice, and condemning the worship of images. 

Carolostadians, in church-history, an ancient branch of lutherans, who denied the real presence in the eucharist. See the article Eucharist. 

Carolstat, a town of Gothland, in Sweden, situated at the north end of the Wener-lake, about one hundred and forty miles west of Stockholm: east lon. 13° 30', and north latitude 59° 40'. 

Carolus, an ancient English broad piece of gold, struck under Charles I. its value has of late been at twenty-three shillings sterling, though at the time it was coined, it is said to have been rated at twenty shillings. 

Carolus, a small copper coin, with a little silver mixed with it, struck under Charles VIII. of France. The carolus was worth twelve deniers, when it ceased to be current. Those which are still current in trade, in Lorrain, or in some neighbouring provinces, go under the name of French fols. 

Caropi, in botany, the same with the tugus. See the article Tugus. 

Caroteel,
CAROTEEL, in commerce, an uncertain weight or quantity of goods: thus a caroteel of cloves is from four to five hundred weight; of curran, from five to nine; of mace, about three hundred; of nutmegs, from six to seven hundred and a half.

CAROTIDS, in anatomy, two arteries of the neck, which convey the blood from the aorta to the brain, one called the right carotid, and the other the left: they arise near each other, from the curvature of the aorta, and run upon the aorta to the brain, one called the internal jugular vein, the other the internal carotid artery having passed of these is then ramified into two branches, one named internal, the other external. The internal carotid-artery having passed the great canal of the apophysis petroea of the os temporis, fends off a branch thro' the sphenoidal fissure to the orbit of the eye; and soon afterwards another thro' the foramen opticum, by which it communicates with the external carotid. The external is the smaller; it runs between the external angle of the lower jaw and the parotid gland; afterwards it ascends on the fore-side of the ear, and ends in the temples. All the ramifications of the carotids are covered by the pia mater, in the duplicature of which they are distributed, and form capillary, reticular textures in great numbers: afterwards they are lost in the inner substance of the brain. See the article ARTERY.

CARUCAGE, or CARVAGE, a term in husbandry, for the plowing of ground, either ordinary, for grain, hemp, and flax; or extraordinary, for woad, dyers-weed, rape, &c.

CARP, in ichthyology, the English name of the cyprinus, with four cirri, or beards, and the third ray of the back-fins armed with small hooks. The carp is generally taken for the queen of fresh-water fish; it is subtle, and lives the longest of all fish, except the eel, out of its proper element. 'It is observed to breed several months in one year; for which reason you hardly ever take either male or female without melt or spawn; but they breed more naturally in ponds, than in running water, and in the latter very seldom or never. In the places they frequent, their flock is innumerable. To make a carp fat and very large, rake all the sides of your pond, when the water is fallen away, about April, then sow hay seeds, the growth of which, when the winter comes, and overflows it, will feed them, and make them very fat.

CARPA, and CARPANUS, the same with carp. See the preceding article.

CARPATHIAN MOUNTAINS, those dividing Hungary and Transylvania from Poland.

CARPENTER, an artificer in wood, designed for the purposes of building. Ship-Carpenter, one employed in building or repairing ships. See the article SHIP-BUILDING.

CARPENTRAS, a city of Provence, in France, about seventeen miles north-east of Avignon: lat. longit. 5°, and north lat. 44° 16'. It is subject to the pope.

CARPENTRY, the art of cutting, framing, and joining large pieces of wood, for the uses of building. It is one of the arts sublervient to architecture, and is divided into house-carpentry and ship-carpentry: the first is employed in raising flooring, flooring of houses, &c. and the second in the building of ships, barges, &c. The rules in carpentry are much the same with those of joinery; the only difference is, that carpentry is used in the larger coarser work, and joinery in the smaller and curious. See JOINERY.

CARPERA, in ichthyology, a name used by some for the carp. See CARP.

CARPET, a sort of covering of stuff, or other materials, wrought with the needle or on a loom, which is part of the furniture of a house, and commonly spread over tables, or laid upon the floor. Persian and Turkish carpets are those most esteemed; tho' at Paris there is a manufactury after the manner of Persia, where they make them little inferior, not to say finer, than the true Persian carpets. They are velvety, and perfectly imitate the carpets which come from the Levant. There are also carpets of Germany, some of which are made of woollen stuffs, as ferges, &c. and called square carpets: others are made of wool also, but wrought with the needle, and pretty often embellished with silk; and lastly there are carpets made of dog's hair. We have likewise carpets made in England, which are used either as floor-carpets, or to make chairs and other household-furniture: it is true we are not arrived at the like perfection in this manufacture with our neighbours the French; but may not this be owing to the want of the like public encouragement?
CARPI, a town of the Veronese, in Italy, situated on the river Adige, twenty-four miles south-east of Verona; east longitude 11° 40', and north latitude 45° 10'.

CARPI is also the name of a town of the duchy of Modena; east longitude 11° 16', and north latitude 40° 40'.

CARPINUS, the horn-beam, in botany, a genus of plants belonging to the monoecia-polyandra class; in the male flower there is no corolla, nor in the female; but the male flowers are arranged into a cylindrical amentum, and the female into an oblong one; there is no pericarpium, but the amentum, growing very large, contains at the base of each squamula, an oval, angulated nut.

CARPIO, in ichthyology, a name given by several writers to the gilt-charre, a small species of salmon, with three series of teeth in the palate.

CARPO, the same with carp. See CARP.

CARPOBALSAM, in the materia medica, the fruit of the tree which yields the true oriental balsam. The carposbalsam is used in Egypt, according to Prosper Alpinus, in all the intentions for which the balsam itself is applied; but the only use the Europeans make of it is in venice-treacle and medicine, and in these not a great deal; for cubeb and juniper-berries are generally substituted in its place.

CARPOBOLUS, in botany, the same with the lycoperdon of Linnaeus. See the article Lycoperdon.

CARPOCRATIANS, heretics, who sprung up towards the middle of the 1st century, being a branch of the antient gnostics. They held a community of wives; and maintained, that a man cannot arrive at perfection, without having passed through all criminal actions; laying down as a maxim, that there is no action bad in itself, but only from the opinion of men. Accordingly they are charged with committing the most infamous actions at their love feasts. They attributed the creation of the world to angels; they said, that Jesus was born in a manner like other men; they rejected the resurrection of the body; and they marked their disciples at the bottom of the right ear with a hot iron, or with a razor.

CARPUS, in anatomy. See the article Wrist.

CARPUS, in ichthyology, the same with caprifus. See the article Caprisus.

CARR, among the antients, a kind of throne mounted on wheels, and used in triumphs and other solemn occasions. The carr on medals, drawn by horses, lions, or elephants, signifies a triumph, or an apotheosis; sometimes a procession of the images of the gods at a solemn supplication; and sometimes of those of some illustrious families at a funeral. The carr, covered and drawn by mules, only signifies a consecration, and the honour done any one of having his image carried at the games of the circus.

CARRAC, the name of the vessels employed by the Portuguese in the east-india and brazilian trade: they are very large, and fitted for fighting as well as for burden.

CARRAT, or CARACT. See CARACT.

CARRIAGE, a vehicle serving to convey persons, goods, merchandizes, and other things from one place to another.

There are public and private carriages, as also water and land-carriages. Water-carriages, in general, are those vessels which serve to carry persons or merchandize by sea, rivers, lakes, &c. as ships, banks, wherries, boats, &c. Land-carriages are machines invented to carry more conveniently, and in greater number, persons or goods. Those mostly used in Europe, are coaches, chariots, calashes, berliners, waggons with four wheels, chariots, carts, and drays with two wheels, all drawn by horses, mules, buffaloes, oxen, &c. and in Lapland and Siberia by rain-deer. See the articles Coach, Chariot, &c.

All these animals are also proper to carry burdens on their backs, in which manner the camels and dromedaries are employed in the caravans of Asia and the caffias of Africa. See Caravan and Caffila.

In some parts of America, the vigonas, lamas, and alpagas are used as carriage-beasts. Lastly, the sedan-chair, carried by two men, and the palanquin, carried on the shoulders of two, four, or six men, are also carriages, but serve for persons only. The former is used in many cities of Europe, and the latter in the East-Indies.

Letter or bill of Carriage, a writing given to a carrier or the master of any carriage, containing the number and quality of the pieces, bales, &c. of merchandizes, which he is intrusted with, that he may demand the payment of the carriage, and
that the person to whom they are addressed, may see whether they are delivered in the same number, and in as good condition as they were given to the carrier.

Carriage of a cannon, the frame or timber-work on which it is mounted, serving to point it for shooting, or to carry it from one place to another. It is made of two planks of wood, commonly one half the length of the gun, called the cheeks, and joined by three wooden trunnions, strengthened with three bolts of iron. It is mounted on two wheels; but on a march has two fore-wheels, with limbers added. The principal parts of a carriage are the cheeks, trunnions, bolts, plates, train, bands, bridge, bed, hooks, trun- nion-holes, and capiquare. See the articles Cheek, Trunnum, &c.

Black-Carriage, a cart made on purpose for carrying mortars and their beds from place to place.

Truck-Carriage, two short planks of wood supported on two axel-trees, having four trucks of solid wood for carrying mortars or guns upon battery, where their own carriages cannot go. They are drawn by men.

Carriage, in agriculture, a furrow for the conveyance of water to overflow and improve the ground. It is distinguished into two forts; the main carriage, which should be made with a convenient defcent; and the leffer carriages, which should be shallow, and as many in number as possible.

Carrick, the most southerly division of the shire of Aire, in Scotland.

Carrick on the Shire, a town of Ireland, in the county of Tipperary, and province of Munster, about fourteen miles north-west of Waterford: west longitude 7° 24', and north latitude 53° 16'.

Carrickfergus, a town in the county of Antrim, and province of Ulster, in Ireland, about eighty-five miles north of Dublin: west longitude 6° 15', and north latitude 54° 45'.

Carrier, a person that carries goods for others, for his hire.

If a carrier receives goods to carry to such a place, and he carries them not thither, but to some other place, he may be guilty of felony.

Cariere, or Career. See Career.

Carrot, daucus, in botany. See the article Daucus.

Carrots are the most necessary and universal roots this country affords; there are two sorts of carrots, the yellow and the orange; the last of which is by much the better: they thrive best in a warm, light, or sandy soil. It is usual to sow them with beans; some of the fairest of them, being laid up in dry land, will keep throughout the winter: these may be reserved till the spring, and planted for feed.

Candy-Carrot, the same with the myrrhis of botanists. See Myrrhis.

Deadly-Carrot, the English name of the thaplia of authors. See Thapsia.

Mountain-Carrot, the name of a species of fennel. See Foeniculum.

Carrousal, a course of chariots and horses, or a magnificent entertainment exhibited by princes on some public rejoicing. It consists in a cavalcade of several gentlemen richly dressed and equipped, after the manner of ancient cavaliers divided into squadrons, meeting in some public place, and practising jousts, tournaments, &c.

The last carousals were in the reign of Lewis XIV.

CARRYING, a term used in the manage. Thus a horse is said to carry low, that has naturally a soft ill-shaped neck, and lowers his head too much. And a horse carries well, when his neck is raised or arched, and when he holds his head high without constraint, firm and well-placed.

Cars, or Kars, a city of Turcomania, or the greater Armenia, situated on a river of the same name: east longitude 44°, and north latitude 41° 36'. It is subject to the Turks.

Cars, or Cars of Gowry, is also the name of a district of Perthshire, in Scotland, lying eastward of Perth, on the northern bank of the Tay.

Cart, a land carriage with two wheels, drawn commonly with horses, to carry heavy goods, &c. from one place to another.

The use of carts being very common, and convenient for the carriage of all sorts of commodities, the officers of the police in France, and even the king's council, have not judged it unworthy their care and attention to regulate the functions, and often settle the price thereof.

Carts, in London and Westminster, are not to carry more than twelve sacks of meal, or one chaldron of coals, on pain of forfeiting one of the horses. The wheels are to be of a certain thickness, and

5
The consequences of this hypothesis, according to the cartesians, will be, that the parts of matter in each vortex could not revolve among each other, without having their angles gradually broken, and that this continual friction of parts and angles produced three elements; the first, an infinitely fine dust, formed of the angles broken off; the second, the spheres remaining, after all the angular irregularities are thus removed; these two make the matter of Des Cartes's first and second element; and those particles not yet rendered smooth and spherical, and which still retain some of their angles, make the third element.

Now, according to the laws of motion, the subtlest element must take up the center of each system, being that which constitutes the fun, the fixed stars above, and the fire below; the second element, composed of spheres, makes the atmosphere, and all the matter between the earth and the fixed stars, in such a manner as that the largest spheres are always next the circumference of the vortex or sytem, and the smallest next its center; the third element, or the hooked particles, is the matter that composes the earth, all terrestrial bodies, comets, spots in the sun, &c.

Though both philosophers and divines have a just plea against this romantic sytem, yet it must be owned, that Des Cartes, by introducing geometry into physics, and accounting for the natural phenomena by the laws of mechanics, did infinite service to philosophy, in purging it from that venerable rust, which, in a long succession of ages, it had contracted.

CARTHAGE, or NEW CARTHAGE, the capital of Coftarica, a province of Mexico, in north America; west longitude 86°, and north latitude 9° 44'.

CARTHAGENA, a large city, with one of the best harbours in Spain, situated in the province of Murcia, about twenty miles south of that city; west longitude 1° 3', and north latitude 37° 40'.

It is a bishop's see.

NEW CARTHAGENA, the capital of a province of the same name, in south America, situated on a kind of peninsula: west long. 77°, and north lat. 11°. It is one of the largest and best fortified towns in south America.

CARTHAMOIDES, in botany, the same with cardannus. See the next article.

CARTHAMUS, BASTARD-SAFFRON, in botany, a genus of plants belonging Q. & A. to
POWDER, CARTILAGINOUS, the term refers to forms that resemble a funnel with a limb, but no pericarpium, and contains solitary feeds. See plate XXXVII.

The seeds of this plant are used to purge watery and viscous humours, and to deter the mucus, which frequently adheres to the inner coats of the stomach; but they are very little used in composition, and hardly ever occasionally prescribed.

CARTHUSIANS, a religious order, founded in the year 1080, by one Bruno. Their rules are very severe. They are not to go out of their cells, except to church, without leave of their superior; nor speak to any person without leave. They must not keep any portion of their meat or drink till next day: their beds are of straw, covered with a felt; their clothing two hair-cloths, two cowls, two pair of hose, and a cloak, all coarse. In the refectory, they are to keep their eyes on the dishes, their hands on the table, their attention on the reader, and their hearts fixed on God. Women are not allowed to come into their churches.

CARTHUSIAN-POWDER, the same with kermes mineral. See KERMES.

CARTILAGE, in anatomy, a body approaching much to the nature of bones; but lubricous, flexible, and elastic. It contains either none at all, or, at the utmost, but very little of the medullary matter, and serves for various uses; as to prevent the bones from being damaged by a continual friction; to join them together by a fychondrois; and to contribute, in a great measure, to the formation of several parts; for instance, the larynx, the nose, the ears, &c. See the articles LARYNX, NOSE, &c.

Cartilages are of various figures, obtaining various names from the things they resemble. There is a thyroid or scutiform cartilage, a cricoide or annular one, two arytenoide cartilages, a xiphoide or eniform one, and so of the rest. See THyroide, Cricoide, &c.

Of the cartilages that unite the bones together, some join them so firmly, as to allow no sensible motion, as in the symphys of the osse pubis; and others, in such a manner, as to allow of different motions, as in those by which the bodies of the vertebrae are connected. The first grow easily hard, the other appear, in some measure, viscous, and retain their flexibility.

CARTILAGINOUS, something belonging to, or partaking of the nature of a cartilage.

CARTILAGINOUS FISHES, or those with cartilaginous fins, constitute a class or order of fishes, otherwise called chondroterygious. See the article CHONDROTERGYIOUS.

CARTILAGINOUS LEAF, that surrounded with a margin, thicker indeed than the rest, but of the same substance.

CARTMEL, a market-town of Lancaster, about ten miles north-west of Lancaster: west longitude 2° 40', and north latitude 15° 15'.

CARTON, or CARTOON, in painting, a design drawn on strong paper to be afterwards called through, and transferred on the fresh plaster of a wall to be painted in fresco.

Carton is also used for a design coloured, for working in mosaic, tapestry, &c. The cartons at Hampton-court are designs of Raphael Urbin, intended for tapestry.

CARTOUCHE, in architecture and sculpture, an ornament representing a scroll of paper. It is usually a flat member, with wavinings, to represent some inscription, device, cypher, or ornament of armoury. They are, in architecture, much the same as modillions; only these are set under the cornice in wainscotting, and those under the cornice at the eaves of a house.

CARTOUCHE, in the military art, a case of wood, about three inches thick at the bottom, gilt with marlin, holding about four hundred musket-balls, besides six or eight balls of iron, of a pound weight, to be fired out of a habit, for the defence of a pass, &c.

A cartouche is sometimes made of a globular form, and filled with a ball of a pound weight; and sometimes it is made for the guns, being of ball of half or quarter pound weight, according to the nature of the gun, tied in form of a bunch of grapes, on a tompion of wood, and coated over. These were made in the room of partridge-shot.

CARTOUCHE is also used to denote the same as a cartridge. See CARTRIDGE.

CARTRIDGE, in the military art, a case of pasteboard or parchment, holding the exact charge of a fire-arm. Those for musquets, carbines, and pistols hold both the powder and ball for the charge; and
and those of cannon and mortars are usually in cases of pasteboard or tin, sometimes of wood, half a foot long, adapted to the caliber of the piece.

Cartridge, in architecture, the name as cartouche. See Cartouche.

Cartridge-box, a case of wood or turned iron, covered with leather, holding a dozen musquet cartridges. It is worn upon a belt, and hangs a little lower than the right pocket-hole.

Carva, in botany, a species of cinnamon-tree. See Cinnamon.

Caruncula, or Carvi, in botany, the same with caraway of Linnaeus. See Carum.

Carving, that branch of sculpture which regards cutting in wood. See the article Sculpture.

Carvist, in falconry, a term for a hawk in the beginning of the year, from its being carried on the fift.

Carum, Caraway, in botany, a genus of the _Pimpinella-Digynia_ class of plants; the universal flower of which is uniform; the single flower almost equal, conflating of five obtuse, cordated petals, with inflected tops. There is no pericarpium, but the fruit is ovato-oblong, striated, and separable into two parts, with two seeds; convex, ovato-oblong, and striated on one side, and plain on the other.

The feed of this plant is one of the greater hot feeds, stomachic, carminative, and good in the colic. The official preparations of it are the feeds candied with sugar, and an oil diffilved from the feed.

Caruncula, in anatomy, a term denoting a little piece of flesh, and applied to several parts of the body, thus:

Caruncula lacrymalis, a little eminence, situated in the larger angle, or canthus of the eye, where there are also sometimes hairs and certain little glands. According to some anatomists, they help to keep the two puncta open when the eyes are shut.

Caruncula myrtiformes, fleshly knobs about the size of a myrtle-berry, which owe their origin to the breaking of the hymen; and therefore not to be found in Subjects, in which that membrane exists entire. They are two, three, or four in number, and are placed where the hymen was.

Carunculae papillares, or mamillares, little protuberances on the inside of the pelvis of the kidneys. See the articles Pelvis and Kidney.

Carunculae cuticulares albae, the same with nymphæa. See Nymphæa.

Carunculae, in the urethra, proceeding from a gonorrhœa, or an ulceration of the urethra, may be removed by introducing the bougie or wax-candle. See the article medicated Candle.

Carus, in medicine, a sudden deprivation of sense and motion, affecting the whole body.

Hippocrates says, that though a carus is a privation of sense and motion, yet the faculty of respiration is not at all injured; and that it is caused by an affection of the fore-part of the brain only, the middle ventricle of the brain also suffering, by content of parts, so as to disturb the actions of the rational faculty: but if this carus or sopor oppresseth respiration, to so violent a degree, as the patient cannot breathe without great efforts, as those who store under a deep sleep, it is called apoplexy; the solution of which is generally succeeded by a paralysy; but a carus is generally followed by a good state of health. It is sometimes taken for a heavy and profound sleep; from which it is difficult to be raised. This carus differs little from a lethargy. See the article Lethargy.

Carvar, a town on the coast of Malabar; in the hither India, sixty miles south of Goa: east longitude 73°, and north latitude 15°.

Here our east-india company have a factory, from whence they import pepper.

Caryatides, or Caryates, in architecture, a kind of order of columns or pilasters, under the figure of women, dressed in long robes, after the manner of the carian people, and serving instead of columns, to support the entablement.

The Caryatides should always have their legs pretty close to each other, and even across, or one athwart the other; their arms laid flat to their bodies, or to the head; and as little spread as possible; when they are inflatated, they should never have any great weight to support; and they ought always to appear in characters proper to the place they are used in.

Caryocatactes, in ornithology, a bird of the crow-kind, of a grey colour, variegated with white spots, and with the tail and wings black.

Caryocostinum, in pharmacy, an elecutary, chiefly prepared of cloves, white coxes, ginger, cummin-seeds, &c. much recommended for purging choler, and

Q 49 2
and breaking away obstructions of cathectic constitution; also an excellent purge for strong people.

CARYOPHYLLATA, in botany, the name by which Tournefort calls the caryophyllaceous, or purging plant for wrong people.

CARYOPHYLLACEOUS, an appellation given to such flowers as resemble the pink. According to Tournefort, the plants, with caryophyllaceous flowers, constitute a particular class by themselves. See the article Botany.

CARYOPHYLLLODENDRON, in botany, the name with the caryophyllus aromaticus.

CARYOPHYLLUS, the pink, in botany, the name with the dianthus Linnaeus. See the article DIANTHUS.

CARYOPHYLLUS AROMATICUS, the clove-tree, in botany, a genus of the Polyanthus mosaicum class; the flower of which consists of four roundish, crenated petals, less than the cup; the fruit is oval, containing one cell, and umbilicated; the seed is single, oval, and large. See plate XXXVII. fig. 5. This fruit is not so much used in medicine, per se, as in seasoning of food: their essential oil, of which they yield great plenty, is used in many things, particularly cathartical compositions. It is much used for the tooth-ache, dropped on a little cotton or lint, and fluffed into the hollow of the tooth, or held near as can be to the part afflicted. The clove gillyflowers are aromatic, and very grateful to the smell and taste.

CARYOTA, in botany, a genus of Polyanthus plants; the male and female flowers of which are produced in separate parts of the same spadix; the corolla is divided into three hollow, lanceolated segments; the stamens are numerous filaments, longer than the corolla; the anthers are linear; the corolla in the female flower is divided into two very small acuminate segments; the fruit is a round berry, containing a single cell; the seeds are two, large, oblong, rounded on one side, and fluted on the other.

CASAL, the capital of the duchy of Mantua, in Italy, situated on the river Po, forty-five miles east of Turin; east longitude 8° 35', and north latitude 45°.

CASARM, or Casar, a city of Ruffia, lying between the province of Moscow on the west, and Siberia on the east.

CASBIN, or Cásbin, a city of Persia, in the province of Eyric-Agen, about one hundred and eighty miles north of Isphah; east longitude 48° 5', and north lat. 46°.

CASCADE, a steep fall of water from a higher into a lower place.

They are either natural, as that at Tivoli, &c., or artificial, as those of Verailles, &c., and either falling with gentle descent, as those of Sceaux; or in form of a buffet, as at Trianon; or down steps, in form of a perron, as at St. Clou; or from bason to bason, &c.

CASCAIS, a town of Estremadura, in Portugal, situated at the mouth of the river Tages, seventeen miles east of Lisbon; west longitude 10° 15', and north latitude 38° 40'.

CASCAINS, in fortification, holes in form of wells, serving as entries to galleries to give vent to the enemies mines.

CASCARILLA, a name by some call the tree which produces the jenitis bark, called by Linnaeus cinchona. See the article CINCHONA.

CASCHAW, or Caschio, a city of upper Hungary, situated on the river Horat, seventy-eight miles north-east of Buda; east longitude 20° 35', and north lat. 40°.

CASE, caesus, among grammarians, implies the different inflexions or terminations of nouns, serving to express the different relations they bear to each other, and to the things they represent. There is great diversity among grammarians, with regard to the nature and number of cases: they generally find six, even in most of the modern languages, which they call the nominative, genitive, dative, accusative, vocative, and ablative; but this seems in compliance with their own ideas of the greek and latin, which they transfer to their own languages. The termination is not the sole criterion of a case, for though some authors reckon five cases of nouns in the greek, and six in the latin; yet several of these cases are frequently alike: as the genitive and dative singular of the first and fifth declensions of the latin; the dative and ablative plural of all the
CASE, CASE-HARDENING, CASE-HOT, CASEMATE, CASERN, by changes in the terminations, declenlions, languages exprefs
tides: and about three are no part of a father
of a father, they are only articles or modifications, which shew the
different relation of the word father.
CASE, among printers, denotes a sloping frame, divided into several compartments, containing a number of types or letters of the same kind.
From these compartments the compofter takes out each letter as he wants it, to compose a page or form. Thus they lay a case of pica, of greek, &c.
CASE OF CROWN GLASS contains usually twenty-four tables, each table being nearly circular, and about three feet six inches diameter.
CASE OF NEWCASTLE GLASS contains thirty-five tables; of Normandy glass twenty-five.
CASE-HARDENING, a method of preparing iron, so as to render its outer surface hard, and capable of resisting any edged tool.
This is a lesser degree of steel-making, and is practised by baking, calcination, or cementation in an oven or other close vessel, stratified with charcoal and powdered hoofs and horns of animals, so as to exclude the air. See STEEL.
CASE-SHOT, in the military art, muleet-ball, stones, old iron, &c. put into cases, and shot out of great guns.
CASEMENT, or CASEMATE, in architecture, a hollow moulding, which some architects make one sixth of a circle, and others one fourth.
CASEMATE, or CASEMATE, in fortification. See the article CASEMATE.
CASEK, in fortification, lodgings built in garnilion-towns, generally near the rampart, or in the waste places of the town, for lodging the soldiers of the garnilion.
There are usually two beds in each casem for six soldiers to lie, who mount the guard alternately; the third part being always on duty.
CASETA, a city of the province of LA
voro, in the kingdom of Naples; about sixteen miles north of the city of Naples: east long. 15° 5', and north lat. 41° 16'.
It is a bishop's see.
CASES RESERVED, in the polity of the roman church, atrocious crimes, the ab-
solution of which is reserved by the su-
periors to themselves or their vicars. There are cases reserved by the pope, who formerly gave the absolution in person, but now delegates that power to certain bishops and priests: cases reserved by the bishops in convents, some by the chapters; but at the point of death, all reserved cases are abolivable by the ordinary.
The cases reserved by the pope, ac-
cording to the ritual of Paris, are: 1.
The wilful burning of churches, and also of other places, if the incumbency is publicly proclaimed. 2. Actual simo-
ny. 3. The murder or mutilation of a person in holy orders. 4. The striking a bishop or other prelate. 5. Furnishing arms to the infidels. 6. Falsifying the bulls or letters of the pope. 7. Invading or pillaging the lands of the church. 8. Violating an interdict of the pope.
CASH, in the commercial style, signifies the flock of money, which a merchant, trader, or banker has at his disposal in order to trade. Thus we say, the cash of such a banker amounts to ten, twenty, or thirty-thousand pounds.
CASH BOOK. See the article BOOK.
CASHAN, or KASHAN, a city of the province of Eyrac-Agen, in Persia; about an hundred miles north of Isphahan: east longitude 50°, and north latitude 34°.
CASHILL, or CASHILL, a city of the county of Tipperary, in Ireland, about eighty miles south-west of Dublin: west long. 7° 40', and north lat. 52° 16'.
It is a bishop's see.
CASHEW-NUT, the fruit of the acajou-tree, reckoned by Linnaeus a species of anacardium. See the articles ACAJOU and ANACARDIUM.
CASHIER, a person who is entrusted with the cash of some public company. See the articles CASH and COMPANY.
CASIA, in botany, the name by which Tournefort calls the ofyris of Linnaeus. See the article OSYRIS.
CASING of timber-work, among builders, is the plastering a house over on the outside with mortar, and then striking it while wet by a ruler with the corner of a trowel, to make it resemble the joints of freestone. Some direct it to be done upon heart laths, because the mortar would, in a little time, decay the sap laths; and to lay on the mortar in the thick-
CASK, a vessel of capacity, for preserving liquors of divers kinds; and also sometimes dry goods, as sugar, almonds, &c.

A cask of sugar is a barrel of that commodity, containing from eight to eleven hundred weight. A cask of almonds is about three hundred weight.

A cask mounted is that which is ready bound with all its hoops, its bottom, and bars.

A cask in staves, that of which all the staves are ready prepared, and want only to be joined and hooped. They are often shipped thus on board the vessels designed for the American islands, because they take less room, and can be easily made up there.

CASKETS, on board a ship, small ropes made of sailnet, and fastened to gromets or little rings upon the yards. Their use is, to make fast the sail to the yard, when it is to be furled.

Break-CASKETS are the longest or biggest of these caskets, or those in the midst of the yard betwixt the ties.

CASPARGUS, in ichthyology, a name by which some call the sparagus, with an annular black spot near the tail.

CASPIAN-SEA, a large sea, or lake of Asia, bounded by the province of Africa on the north, and by part of Persia on the east, south, and west. It is upwards of four hundred miles long from south to north, and three hundred miles broad from east to west.

CASSADA, or CASSAVI. See CASSAVI.

CASSANDRA, the name with the lyra, or harp-keel, a species of dolium.

CASSANO, a fortress, in the Milanese, in Italy, situated on the river Adda, about twelve miles north-east of Milan: east longitude 16°, and north lat. 45° 20'.

CASSAGN, in ichthyology, a kind of brasilian shark, called also cucurj. See the article CUCURI.

CASSATION, among civilians, the act of annulling any act or procedure. The reasons of cassation are, 1. When a decree is directly contrary to another decree, and both against the same party. 2. When the decrees are contrary to the express decision of statutes and customs. 3. When the formalities, prescribed by the laws, have not been observed.

Cassation is properly a term in the courts of France, the laws of which country require the party, that sues for a cassation, to depose four hundred and fifty livres, which sum is forfeited if he fails in his suit.

CASSAVI, or CASSADA, the name with the jatropha of Linnaeus. See the article JATROPHA.

Cassel, the capital of the landgraviate of Hesse-cassel, in the circle of the upper Rhine, in Germany, situated on the river Fulde: east longitude 9° 20', and north latitude 51° 20'.

Cassel is also the name of a town in French Flanders, about fifteen miles south of Dunkirk: east longitude 2° 50', and north latitude 50° 5'.

CASSIA, in botany, a genus of the decandria-monogynia class of plants; the flower of which consists of five hollow, roundish petals, the lower ones larger and more distant than the others; the fruit is an oblong pod, divided by transverse septa: the seeds are numerous, roundish, and affixed to the upper edges of the valves.

Caffia is divided into three species; the caffia fisula, the caffia lignea, and the caffia caryophyllata. The first is the caffia of the shops, the soft fresh pulp of which is an excellent mild cathartic: it is given, with succeis, in inflammatory fevers, and in disorders of the breast, kidneys, and bladder. The caffia lignea, or caffia bark, much resembles the cinnamon: it is stomachic and cordial, but possesses these virtues in a less degree than cinnamon; it is also used in the venince-treacle, mithridate, &c. The third, being the caffia caryophyllata, or clove-bark, is a stomachic, carminitive, and alexipharmac. See the articles CARYOPHYLLUS and CARMINITIVE.

CASSIDA, in botany, the name with the scutellaria of Linnaeus. See the article SCUTELLARIA.

CASSIS, in zoology, a genus of insects, of the order of the coleoptera, with filiform or thread-like antennae, thickset towards the extremities: add to this, that the thorax is plain and marginalized. Of this genus there are a great many species, some green, some grey, but most black; all which have been confounded, by authors, with the beedes, and called in English tortoise-beetles.
CASSIDONY, in natural history, a name sometimes given to the yellow and red chaledony.

CASSIMERE, the capital city of a province of the same name in the lither India: east long. 75°, and north lat. 35°. It was once the capital of a kingdom, and is still sometimes the residence of the mogul.

CASSINE, the cassia-berry-tree, in botany, a genus of the pentandra-digynia class of plants: the flower of which is patent, divided into five suboval, oblong segments larger than the cup; the fruit is a roundish berry with three cells, containing solitary suboval seeds. This plant is used in South America in the tame manner as tea.

CASSIOPEIA, in botany, a genus of the pentandra-digynia class of plants: the flower of which is patent, divided into five suboval, obtuse segments larger than the cup; the fruit is a roundish berry with three cells, containing solitary suboval seeds. This plant is used in South America in the same manner as tea.

CASTANET, in botany, a species of the pentandra-digynia class of plants: the flower of which is patent, divided into five suboval, obtuse segments larger than the cup; the fruit is a roundish berry with three cells, containing solitary suboval seeds. This plant is used in South America in the same manner as tea.

CASTANOVITZ, a town of Croatia, situated on the river Unna, which divides Chriftendom from Turkey: east long. 17° 50', and north lat. 45° 40'. It is subject to the house of Austria.

CASTEL-ARAGONESE, a fortress of Sardinia, situated on the north-west coast of that island: east longitude 8° 45', and north latitude 41°.
CASTEL-BAR, a town of Ireland, in the county of Mayo, and province of Connacht; about thirty-eight miles north of Galway: weit long. 9° 24', north lat. 53° 25'.

CASTEL-BRANCO, a city of the province of Beira, in Portugal, about ninety-five miles north-east of Lisbon: west long. 8°, north lat. 39° 35'.

CASTEL DE VIDE, a town of Alentejo, in Portugal, about twelve miles east of Portalegre, and thirty-five west of Alcantara: west long. 7° 40', north lat. 39°.

CASTEL-RODRIGO, a town of Portugal, in the province of Trasmonzones, situated thirty miles north-west of the city Rodrigo: west long. 7°, north lat. 41°.

CASTELLA, a town of the Mantuan, in Italy, about five miles north-east of the city of Mantua: east long. 11° 15', north lat. 45° 30'.

CASTELLANY, the name of a dignity or charge in Poland: the castellans are senators of the kingdom, but senators only of the lower class, who, in diets, sit on low feats, behind the palatines, or great senators. They are a kind of lieutenants of provinces, and command a part of the patinate under the pataline.

CASTELLANA, the territory belonging to any city or town, chiefly used in France and Flanders: thus we say, the castellany of Lille, Ypres, &c.

CASTILIGLIONE, a fortified town in the duchy of Mantua, about twenty miles north-west of the city of Mantua: east long. 11°, north lat. 45° 15'.

CASTILE, the name of two inland provinces of Spain, situated almost in the middle of that kingdom: the most southerly one is called New Castile, and the other, towards the north, Old Castile; Madrid being the capital of the former, and Burgos of the latter.

CASTILE DE ORO, a name given by the Spanish to a province of Terra Firme, on their first planting it.

CASTILLAN, or CASTILLANE, a gold-coin, current in Spain, and worth fourteen reals and sixty deniers.

CASTILLAN is also a weight used in Spain for weighing gold. It is the hundredth part of a pound Spanish weight.

What they commonly call a weight of gold in Spain, is always understood of the castillan.

CASTILLARA, a town of the Mantuan, in Italy, situated six miles north-east of the city of Mantua: east long. 11° 25', north lat. 45° 20'.

CASTILLON, a town of Perigort, in the province of Guinte, in France, situated on the river Dordonne, sixteen miles east of Bourdwan: west long. 2° 40', north lat. 44° 50'.

CASTING, in foundry, the running of a metal into a mould, prepared for that purpose.

CASTING of candles, is the filling the mould with tallow.

CASTING of gold, silver, or copper in plates: See the article COINING.

CASTING of lead on cloth, is the using a frame, or mould, covered with woollen cloth, and linnen over it, to cast the lead into fine sheets.

CASTING of metals, of letters, bells, figures; &c. See the article FOUNDRY.

CASTING in sand or earth, is the running of metals between two frames, or moulds, filed with sand or earth, wherein the figure that the metal is to take, has been impressed in creux, by means of the pattern.

CASTING in stone or plaster, is the filling with fine liquid plaster a mould that has been taken in pieces off a statue, or other piece of sculpture, and run together again.

CASTING, in falconry, any thing that is given a hawk to cleanse and purge his gorge: of these there are two sorts, feathers and cotton; the latter whereof is given in pellets, about the bigness of a hazel-nut, conveyed into his gorge after he hath supped. If, in the morning, he has cast them out round, while not flaming, nor very waterish, he may be concluded to be found; if otherwise, he is unfound. The casting of plumage is observed after the same way as that of cotton.

CASTING, in joining, &c. Wood is said to be cast or warped, when either by its own drought, or moisure of the air, or other accidents, it flexes or shrinks, altering its flatness or straightness, and becoming crooked.

CASTLE, a fortres or place rendered defenceable, either by nature or art.

A cattle is a sort, or little citadel. See the article CITADEL.

It frequently signifies with us the principal mansion of noblemen.

In the time of Henry II. there were no less than 1115 cattle in England, each of which contained a manor.

CASTLE, in the sea-language, is a part of the ship, of which there are two, the fore-castle, being the elevation at the
the tempest is yet to come: both these balls are by some called Tyndarides.

CASTOR is also the name of a market-town of Lincolnshire, twenty miles north-east of Lincoln: west long. 12°, and north lat. 53° 30'.

CASTOREA, in botany, the same with the duranta of Linnaeus. See the article DURANTA.

CASTOREUM, CASTOR, in the materia medica, is by many mistaken for the teaticles of the animal, tho' in fact, a peculiar secreted matter, contained in bags destined to receive it, in the manner of the mulk and civet: yet situated differently in the animal.

It is a very valuable medicine, of great use in hysterical cases, and in all disorders of the nerves. It attenuates vicious humours, promotes the mens, and relieves putrefaction. It is good also in epilepsies, palfies, and all complaints of that kind. See CASTOR.

CASTOS, in commerce, a term for the presents which the Europeans were used to make in Japan, in order to be admitted to trade.

CASTRAMENTATION, among the ancients, the art of encamping. See the article CAMP.

CASTRATION, in surgery, the operation of gelding. It was prohibited by a decree of the Senate of Rome under Hadrian, and the Cornelian law subjected the person who performed the operation, to the same penalties as the person on whom it was performed, altho' it was done with his consent.

Castration is much in use in Asia and Turkey, where it is practiced upon the slaves, to prevent any commerce with their women. In Italy, castration is frequent from another motive, namely, to preserve the voice for singing. It is sometimes found necessary in chirurgical cases, as in a sarcocele and cancer of the teaticles. For the method, therefore, of performing this operation, see the article SARCOCELE.

CASTREL, or KESTREL, a sort of hawk which in shape resembles the lanner, but in size the hobby. Her game is the grous; but as she is a slow cowardly bird, she is not much used.

CASTRES, a city of Languedoc, in France, about thirty-five miles east of Toulouse: east long. 2°, and north lat. 43° 40'.
CASTRO, the capital of the island of Castro, in the province of Chili, in south America : west long. 82°, south lat. 44°.

CASTRO is also the capital of a duchy of the name in the pope's territories, in Italy, situated on the confines of Tuscany : east longitude 12° 35', north lat. 42° 30'.

CASTRO is likewise a town in the territory of Otranto, in the kingdom of Naples, about seven miles south of Otranto: east long. 19° 25', north lat. 40° 8'.

CASTRO MARINO, a town in the province of Algarve, in Portugal, situated near the mouth of the river Guadiana, on the confines of Andalusia: west long. 8° 15', north lat. 37°.

CASU CONSIMILI, in law, a writ of entry granted where a tenant, by courtesy or for life, aliens either in fee, in tail, or for the term of another's life. It is brought by him in reversion against the person, to whom such tenant does so alien to the prejudice of the reversioner, in the tenant's life time.

CASU PROVISO, in law, a writ of entry founded on the statute of Gloucelter, where a tenant in dower aliens the lands he so holds in fee, or for life; and lies for the party in reversion against the alienor.

CAT, felis, a well known quadraped, of the order of the ferae, or beasts of prey. See the article Felis.

The domestic cat is diversified with an almost infinite variety of colours and tawneys; but the natural colour, in a wild state, is a brown tawney, variegated with tawneys of a pale whitish colour. In France, the cats are all of a bluish lead-colour; and, in the north of Europe, they are all over white. See plate XXXVIII. fig. 1. which represents the common cat.

CAT'S EYE. See OCULUS CATI.

CAT-MINT, in botany, the English name of the cattaria of botanists.

CAT-HARPINGS, in a ship, small ropes running in little blocks from one side of the hawse to the other, near the deck. Their use is to force the hawse, and make them taught, for the more security and safety of the masts.

CAT, or CAT-HEAD, on shipboard, a short piece of timber in a ship, lying aloft right over the hawse, having at one end two shivers, wherein is reeved a rope, with a great iron hook fastened to it, called CAT-HOOK. Its use is to truce up the anchor, from the hawse to the top of the fore-castle.

CAT-HOLES, in a ship, are over the parts as right with the capitan as they can be; their use is to have the ship after, upon occasion, by a cable, or a hawse, called stern-fast. See the article Stern-fast.

CAT OF THE MOUNTAIN, catus pardus, an animal of the cat-kind, about the size of a maffiff, variegated with longitudinal black streaks on the upper part of the body, and black spots on the under part. See plate XXXVIII. fig. 2.

CAT-SILVER, in natural-history, the English name of the mice of authors. See the article MICE.

CATABIBAZON, in astronomy, the moon's defending node, called also dragon's tail. See NODE.

CATACUS, in botany, a name sometimes given to agrimony. See AGRIMONY.

CATACUS, in geometry, that species of catacaustic curves which are formed by reflection. See the article CAUSTIC CURVE.

These curves are generated after the following manner. If there be an infinite number of rays as AB, AC, AD, &c. (plate XXXVIII. fig. 1) proceeding from the radiating point A, and reflected at any given curve B D H, so that the angles of incidence be still equal to those of reflection; then the curve B E G, to which the reflected rays B L, C E, D F, &c. are tangents continually, as in the points I, E, F, is called the catacaustic curve.

If the reflected rays are produced to K, so that AB = B K, and the curve K L be the evolute of the catacaustic B E G, beginning at the point K; then the portion of the catacaustic B E = A C - A B + C E - B L continually. Or if any two incident rays are AB, AC be taken, that portion of the catacaustic that is evolved while the ray AB approaches to a coincidence with AC, is equal to the difference of those incident rays plus the difference of the reflected rays. When the given curve is a geometrical one, the catacaustic will be so too, and always rectifiable.

The catacaustic of a circle is a cycloid, formed by the revolution of a circle along a circle. The catacaustic of the vulgar ica- cycloid, when the rays are parallel to the axis, is also a vulgar cycloid, described by the revolution of a circle upon the same base. The catacaustic of the logarithmic spiral is the same curve, only set in a different position.

CATACHRESIS, in rhetoric, a trope which borrows the name of one thing to express another. Thus Milton describing
CATACOMB, a grotto or subterranean place for the burial of the dead. The term is particularly used in Italy, for a vault or assemblage of subterranean sepulchres, three leagues from Rome, in the via appia, supposed to be the sepulchres of the antients. Others imagine these catacombs to be the cells wherein the primitive christians hid themselves. Each catacomb is three foot broad, and eight or ten high, running in form of an alley or gallery, and communicating with one another. Some authors imagine them to have been the particular places of the Romans, where they thrown the bodies of their slaves, to whom they gave such an appellation as their bodies were laid.

CATACOUSTICS, an appellation given to the doctrine of reflected sounds, called also cataphonics.

CATADIOPTICAL TELESCOPE, that otherwise called a reflecting one. See the article TELESCOPE.

CATADROME, an engine like a crane, used by builders in raising weights.

CATADUPA, a water-fall, or cataract. See the article CATARACT.

CATACOMB, a grotto or subterranean place for the burial of the dead. The term is particularly used in Italy, for a vault or assemblage of subterranean sepulchres, three leagues from Rome, in the via appia, supposed to be the sepulchres of the antients. Others imagine these catacombs to be the cells wherein the primitive christians hid themselves. Each catacomb is three foot broad, and eight or ten high, running in form of an alley or gallery, and communicating with one another. Some authors imagine them to have been the particular places of the Romans, where they thrown the bodies of their slaves, to whom they gave such an appellation as their bodies were laid.

CATACOUSTICS, an appellation given to the doctrine of reflected sounds, called also cataphonics.

CATADIOPTICAL TELESCOPE, that otherwise called a reflecting one. See the article TELESCOPE.

CATADROME, an engine like a crane, used by builders in raising weights.

CATADUPA, a water-fall, or cataract. See the article CATARACT.

Hence the inhabitants about the cataracts of the Nile, were called catadupi by the antients.

CATAFALCO, in architecture, a decoration of sculpture, painting, &c. raised on a timber-scaffold, to shew a coffin or tomb in a funeral solemnity.

CATAGMATICS, in pharmacy, remedies proper for curing a catagma or fracture. See the article FRACTURE.

CATALEPSY, catalepsis, in medicine, the same with catoche. See the article CATOCHE.

CATAALLIS CAPTIS NOMINE DISTRICTIONIS, in law, a writ which lies where a house is within a borough, for rent insuing out of the same; and this writ warrants the taking of doors or windows by way of difres.

CATAALLIS REDENDIS, a writ that lies where goods being delivered to a person to keep until a certain day, are not on demand delivered on that day.

CATALOGUE, a list or enumeration of the names of several books; men, or other things, according to a certain order.

In compiling a catalogue of all the authors who have wrote on any particular branch of science, Morhof gives it as his opinion, that it should exhibit a synopisis of all the books in that science, whether published or in manuscript; that the names of the authors should be ranged in the order of the years when their works were published; and, thirdly, that a catalogue should be added of the works themselves, in the order of time also; and that each of these should comprehend a summary, not only of the chapters, but of the contents of these chapters. We have likewise, in the fame author, an account of the most remarkable catalogues, and writers of catalogues, of different nations, to which we refer those who desire to be more fully informed in this subject.

CATALOGUE OF THE STARS, is a list of the fixed stars disposed in their several constellations, with the longitudes and latitudes of each. The most renowned compositors of these catalogues are, 1. Ptolemy; who added his own observations to those of Hipparchus Rhodius, about the year of Christ 880. 2. Ulugh Beigh; made a catalogue of the fixed stars in 1457. 3. Tycho Brahe determined the places of 777 stars for the year 1600. 4. William Landgrave of Hesse, with his mathematicians, determined the places of 400 fixed stars. 5. In the year 1667, Dr. Halley, in the island of St. Helena, observed 350 not visible in our horizon. And, 5. J. Hevelius, adding his own observations to those of the antients, and of Dr. Halley, made a catalogue of 1888. But the last and greatest is the britannic catalogue, a performance the most perfect of its kind, compiled from the observations of the accurate Mr. Flamstead, who with all the talents and apparatus requisite for such an undertaking, devoted himself to that work for a long series of years. It contains 2734 stars.

CATALONIA, a province of Spain, bounded by the Pyrenean mountains.

[491]
which divide it from France, on the north; by the Mediterranean, on the east and south; and by the provinces of Aragon and Valencia, on the west.

CATAMENIA, in medicine, the same with the menstes. See MENSES.

CATAMITE, a boy kept for sodomitical practices. See the article SODOMY.

CATANADROMOUS FISHES, the same with those called anadromous. See the article ANADROMOUS.

CATANANCHE, or CATANANCE, in botany, a genus of plants belonging to the *fyngeza-polygaema* class, the compound flower of which is often imbricated and uniform: the proper flower is monopetalous, ligulated, linear, longer than the cup, truncated and quinquedental: there is no pericarpium. The seeds are solitary, compressed, and crowned with a little cup of four or five hairs. See plate XXXVII. fig. 4.

CATANIA, a city and port-town of Sicily, about thirty-five miles north of Syracuse, near the foot of mount Etna: east long. 15°, north lat. 38°.

CATAPACTYME, a festival kept by the Peruvians in the month of December, in honour of the sun the father, the sun the son, and the sun the brother.

CATAPAN, a name given by the greek emperors to the governor of Puglia and Calabria in Italy. They succeeded the exarchs of Ravenna; and Du 'Cange is of opinion, a chronological table of these governors might be very serviceable for understanding the byzantine historians.

CATAPASM, among antient physicians, signifies any dry medicine reduced to powder, in order to be used by way of inspiration in the whole body, or any part of it. Some catapisms are appropriated to ulcers, some to the skin: the former cicatrize, the latter are deteritive. We learn from Pliny, that catapisms of roes were used to refrain sweat, and to dry the body after bathing.

CATAPELT, or CATAPULTA, in antiquity. See the article CATAPULTA.

CATAPHONICS, the science which considers the properties of reflected sounds. See the article ECCHO.

CATAPHORA, in medicine, the same as coma. See the article COMA.

CATAPHRACCTA, in antiquity, a kind of coat of mail, which covered the soldier from head to foot. Hence cataphracti were horsemen armed with the *cataphracta*, whose horses, as Sallust says, were covered with linen full of iron plates disposed like feathers.

CATAPHRACTUS, in zoology, a fish of the cottaus-kind, with an octagonal body, and a great many cirri, or beards. See the article COTUS.

CATAPHRYGIANs, antient heretics, who took their name from the country of Phrygia. They suppos'd the holy spirit had abandoned the church, and therefore that Montanus, as a prophet, and Priscilla and Maximilla, as true proph. telles, were to be consulted in every thing relating to religion. See the article MONTANIST.

CATAPLASM, an external topical medicine, of a soft consistence, and prepared of ingredients of different virtues, according to the intention of the physician. Hence there are different sorts of cataplains with respect to the matter of which they consist, as emollient, reflowent, diftinctive, suppressive, corrosorative, anodyne and antiseptic cataplains. They are commonly applied hot, or lukewarm, rolled up in linen clothes, which by means of the oils which are added, preserve heat for a considerable time; for which end also some, upon these, apply a swine or ox's bladder, and sometimes on the top of all, apply an earthen tile. Some cataplains are prepared by boiling over a fire, others not; whence they are distinguished into crude and boiled. Of the former, are green plants bruised and reduced to a pulp, or dried and reduced to a powder, which is mixed with a convenient quantity of oil or other proper liquor. Those prepared by fire, are bruised or pounded plants boiled to a softness, and then boiled over again to the thickness of pap, with a sufficient quantity of mucilage, meal and fat, oil, butter, ointment, leaven, bread, honey, &c. In preparing cataplains of milk with an intention of mollifying, it is necessary not to boil them too much, because milk is inflamed by decoction, and the thin parts of it are dispiated. Observe also to choose the newest and richest milk that can be got.

CATAPULTA, in antiquity, a military engine contrived for the throwing of arrows, darts and stones upon the enemy. Some of these engines were of such force, that they would throw stones of an hundred weight. Josephus takes notice of the surprising effects of these engines, and says, that the stones thrown out of them
CATAPUTIA, in botany, a name given to the broad-leaved tithymalus, or speurge.

CATARACT, in hydrography, a precipice in the channel of a river, caused by rocks, or other obstacles, stopping the course of the stream, from whence the water falls with a greater noise and impetuosity: such are the catarae of the Nile, the Danube, the Rhine, and the famous one of Niagara in America.

CATARACT, in medicine and surgery, a disorder of the humours in the eye, by which the pupilla, that ought to appear transparent and black, looks opake, grey, blue, brown, &c. by which vision is variously impeded, or totally destroyed. The ordinary and most common cause of catarae, is from an opacity in the crystalline lens: it appears that it may sometimes be caused by a membrane in the aqueous humours, which caused the only one ascribed to catarae, till the present century.

Catarae have been distinguished by surgeons and occultists into various species, as into recent and inverterate, incipient and confirmed, mature and immature, simple and complicated, immovable and shaking, milky and purulent, true and spurious, and into curable and incurable. There is scarce any disorder, the event of which is more uncertain, than that of a cataract: medicines will generally have little or no effect, when the disorder is confirmed, or inverterate, notwithstanding what some may boast of their wonderful arcaea for this purpose: almost the sole relief is therefore had from the surgeon’s hand and instruments. For the process of this operation, see the article COUCHING OF CATARACTS.

The most people reject all methods of treating catarae by medicines, as useless and trifling, yet there are some cafes in this disorder, which ought to be recommended to the care of the physicians, who by directing a proper regimen and course of physic, adapted to the patient’s habit, age, and other circumstances, may, by the assistance of nature, remove catarae beyond expectation.

CATARIA, in botany, the same with the nepeta of Linneus, called in English cats-mint. See the article NEPETA.

CATARO, the capital of a territory of the same name, in the Venetian Dalmatia, about twenty-five miles south-east of Ragusa: east long. 19° 10', north lat. 42° 25'.

CATARRACTA, in ornithology, a bird of the gull-kind, resembling our gannet.

CATARRACTES, the name by which some call the gannet. See GANNET.

CATARRH, in medicine, a distillation or defluxion from the head upon the mouth and aspera arteria, and through them upon the lungs.

The cause of this disorder proceeds from the lymph or mafs of blood, most frequently in the winter time, as it commonly arises from a cold. If it is attended with a fever, as it almost always is, in some degree, it is called a catarrhous fever.

The catarrhus suffocatus, is a violent and suffocating cough, excited either by an excessive catarrh, or cold; by the rupture of a vomica in the lungs; by a polypus driven from the heart into the pulmonary artery; or, sometimes, by a spasmodic constitution of the nerves, as it happens in some hysterical cases.

Catarrhous disorders, as well as all other feverish indispositions, are to be treated in a mild and gentle manner; and the patient is to be kept moderately warm, either in bed, or by means of a fire: he is to abstain from medicines which are too hot, drastic, and productive of convulsions; as also from a hot regimen. The diet is to be spare, and the drinks tepid and wholesome: the most proper is excoriated barley, with shavings of harthorn, raisins, and liquorice root.

When the effervescence is violent, a few grains of nitre may be advantageously mixed with the bezoardic powders; and emulsions must be plentifully drunk when during this disorder the faces are indurated, and the patient colitive, besides water-gruel, decoctions of munn, &c. are to be drunk; and nothing is more proper than emollient clysters.

Some distinguishing catarrhs into three kinds, calling it bronchus, when the humours of the head fall upon the jaws; coryza when they fall upon the nostrils; and rheum, when they fall on the breast. See the articles BRONCHUS, CORYZA, and RHEUM.

CATARRH of the spinal marrow, in medicine, a falling out of the marrow from the back-bone, which happens when certain lymphatic vesels are broken.

CATARR-
CATARRHAL, something belonging to a catarrh: thus we say, a catarrhal fever, a catarrhal flux, &c.

CATASTASIS, καταστάσις, in poetry, the third part of the antient drama, being that wherein the intrigue, or action, is set forth in the epifasis, is supported and carried on, and heightened, till it be ripe for the unravelling in the catastrophe. Scapiger defines it, the full growth of the fable, while things are at a stand in that confusion to which the poet has brought them.

CATASTROPHE, in dramatic poetry, the fourth and laft part in the antient drama, or that immediately succeeding the catafasis: or, according to others, the third only; the whole drama being divided into protasis, epifasis, and catastrophe; or in the terms of Aristotle, prologue, epilogue, and exode. The catastrophe clears up every thing, and is nothing else but the discovery or winding up of the plot. It has its peculiar place, for it ought entirely to be contained, not only in the last act, but in the very conclusion of it; and when the plot is finished, the play should be so too. The catastrophe ought to turn upon a single point, or start up on a sudden. The great art in the catastrophe is, that the clearing up of all difficulties may appear wonderful, and yet easy, simple, and natural.

It is a very general, but very preposterous, artifice of some writers, to shew the catastrophe in the very title of the play. Mr. Dryden thinks that a catastrophe resulting from a mere change in sentiments and resolutions of a person, without any other machinery, may be so managed, as to be exceeding beautiful. It is a dispute among the critics, whether the catastrophe should always fail out favourably on the side of virtue, or not. The reasons on the negative side seem the strongest: Aristotle prefers a shocking catastrophe to a happy one. The catastrophe is either simple or complex; the first is that in which there is no change in the state of the principal persons, nor any discovery or unravelling, the plot being only a mere passage out of agitation into quiet and repose. In the second, the principal persons undergo a change of fortune, in the manner already defined.

CATCH, or CATCHES, in a clock, those parts which lay hold of others by hooking, or catching hold of them.

CATCH-FLY, in botany, a name given to the lycnins. See the article Lycnins.

CATCH-LAND, such land, particularly in Norfolk, which is not certainly known to what parish it belongs; so that the minister, who first seizes the tythes, does, by right of pre-occupation, enjoy them for that year.

CATCH-POLE, or CATCH-POLLE, a term used, by way of reproach, for the bailiff’s-follower, or assistant. See the article Bailiff.

Formerly it was a term of credit applied to those now called sergeants of the mace, bailiffs, &c.

CATCH-WORD, among printers, that placed at the bottom of each page; being always the first word of the following page.

CATE, in botany, the name by which some call the lycium indicum, or indian thorn.

CATECHETIC. Catechetical schools, were buildings appointed for the office of the catechiff, adjoining to the church, and called catechumenata: such was that in which Origen, and many other famous men, read catechetical lectures at Alexandria. See the article Catechumen.

CATECHISM is defined in the liturgy of the church of England, an institution to be learned of every person, before he be brought to be confirmed by the bishop. The catechisms of the primitive church, fially began with the doctrine of repentance and remission of sins, the necessity of good works, and the nature and use of baptism; then followed the explanation of the several articles of the creed, to which some added the doctrine of the immortality of the foul, and an account of the canonical books of scripture.

The catechism of the church of England, is drawn up after the primitive manner, by way of question and answer: originally it consisted of no more than a repetition of the baptismal vow, the creed, and the Lord’s prayer; but king James I. ordered the bishops to add to it a short and plain explication of the sacraments.

The time appointed for catechizing, are Sundays and holidays. Every parson, vicar, or curate, are enjoined, upon every Sunday and holiday, to teach and instruct the youth, and ignorant persons of his parish, in the catechism, set forth in the book of common-prayer; and that under the penalty of a sharp reproof for the
CATECHIST, an officer in the primitive Christian church, whose business it was to instruct the catechumens in the first principles of religion, and thereby prepare them for the reception of baptism. This office might be performed by an ecclesiastic of any order, and it was sometimes done by the bishop himself.

CATECHU, in the materia medica, improperly called *terra japonica* in the shops, is a concreted vegetable juice, partly of the gumy, partly of the renous kind.

The common catechu of the shops, is brought to us in large, flat cakes, from Malabar, Surat, Pegu, and other ports in the East-Indies.

It is prepared in the parts of several different trees of the same astringent virtue, and is affirmed by some to be the licium of the antients. The catechu is a very valuable astringent. It strengthens the stomach, afflicts digestion, and stops fluxes, diarrhœas, and even dysenteries; as also hemorrhages of all kinds, and particularly profumption of the menes. Its dose is from five or six grains to a scruple. It may be given in almost any form.

CATECHUMEN, a candidate for baptism, or one who prepares himself for the receiving thereof.

The catechumens, in church-history, were the lowest order of Christians in the primitive church. They had some title to the common name of Christian, being a degree above pagans and heretics, tho' not consecrated by baptism. They were admitted to the state of catechumens, by the imposition of hands, and the sign of the cross. The children of believing parents were admitted catechumens, as soon as ever they were capable of instruction: but at what age those of heathen parents might be admitted, is not so clear. As to the time of their continuance in this state, there were no general rules fixed about it; but the practice varied according to the difference of times and places, and the readiness and proficiency of the catechumens themselves.

There were four orders or degrees of catechumens; the first were those instructed privately without the church, and kept at a distance, for some time, from the privilege of entering the church, to make them the more eager and desirous of it. The next degree were the *audientes*, so called from their being admitted to hear sermons and the scriptures read in the church, but were not allowed to partake of the prayers. The third sort of catechumens were the *gener fiæicientes*, so called because they received imposition of hands kneeling. The fourth order was the *competentes & electi*, denoting the immediate candidates for baptism, or such as were appointed to be baptized the next approaching festival, before which strict examination was made into their proficiency under the several stages of catechetical exercises.

After examination, they were exercised for twenty days together, and were obliged to fasting and confession; some days before baptism they went veiled, and it was customary to touch their ears, laying *epbata*, i.e. to be opened; as also, to anoint their eyes with clay; both ceremonies being in imitation of our Saviour's practice, and intended to shadow out to the catechumens their condition both before and after their admission into the Christian church.

CATEGATE, or *Scagerac-sea*, the passage from the german ocean to the Sound, or the entrance into the Baltic sea, between Sweden and Denmark.

CATEGOREMA, among logicians, denotes much the same with predicament or category. See the article CATEGORY.

CATEGORICAL, whatever partakes of the nature of a category. Thus, a categorical order, requires the substance to go before the accident. And categorical answers, are pertinent and precise replies to the facts or objections proposed. See the article CATEGORY.

CATEGORY, *κατηγορία*, in logic, a series or order of all the predicates or attributes contained under any genus. The school philosophers distribute all the objects of our thoughts and ideas into certain genera or classes, not so much, say they, to learn what they do not know, as to communicate a distinct notion of what they do know; and these classes the Greeks called categories, and the Latins predicaments.

Aristotle made ten categories, *viz.* quantity, quality, relation, action, passion, time, place, situation, and habit, which are usually expressed by the following technical distich.

* Arbor,*
CATENA, in a general sense, denotes a chain. See the article Chain.

CATENA, in anatomy, a name used by some for the muscle, more commonly called tibialis anticus. See Tibialis.

CATENARIA, in matters of literature, a book exhibiting the sentiments of the ancient Christian fathers, with respect to all or most doctrines.

These catenae are very numerous, some being compiled with judgment, fidelity, and accuracy; and others, with just the reverie qualities.

CATENARIA, in the higher geometry, the name of a curve line formed by a rope hanging freely from two points of suspension, whether the points be horizontal or not. The nature of this curve was fought after in Galileo's time, but not discovered till the year 1690, when James Bernoulli published it as a problem. Dr. Gregory, in 1697, published a method of investigation of the properties formerly discovered by John Bernoulli and Mr. Leibnitz, together with some new properties of this curve. From him we take the following method of finding the general property of the catenaria.

1. Suppose a line heavy and flexible, the two extremities of which F and D (plate XXXVIII. fig. 5.) are firmly fixed in those points; by its weight it is bent into a certain curve FAD, which is called the catenaria.

2. Let BD and BC be parallel to the horizon, AB perpendicular to BD, and DC parallel to AB, and the points B and C infinitely near to each other. From the laws of mechanics, any three powers in equilibrium, are to one another as the lines parallel to the lines of their direction, (or inclined in any given angle) and terminated by their mutual concourse: hence if DD express the absolute gravity of the particle DA (as it will if we allow the chain to be every way uniform) then DC will express part of the gravity that acts perpendicularly upon DA; and by the means of which this particle endeavours to reduce itself to a vertical position: so that if this lincola DC be con-

CATERER, or Purveyor. See the article Purveyor.

CATERGRI, the name of the public carriers in the grand signior's dominions. In Europe, the merchant or traveller gives earnest to the carrier, but the catergi in Turkey give earnest to the merchant and others, as a security that they will certainly carry their goods, or not set out with them.

CATERLAGH, a town of Ireland, in the county of Caterlagh, and province of Leinster, situated on the river Barrow, about sixteen miles north-east of Killkenny: well long. 7°, north lat. 52° 45'.

CATERPILLAR, erca, in zoology, the name of the butterfly-clas of insects, in their reptile or worm-flate. It is well known, that all winged-insects pafs through a reptile state, before they arrive at perfection: this great change from a worm to a fly, or butter-fly, was formerly esteemed a real metamorphosis of one animal to another; but later discoveries have put it beyond all doubt, that the embryo butter-fly, with all the lineaments of its parent, is contained within the external cases, or coverings, of the caterpillar. When the included animal has acquired a sufficient degree of strength, these coverings are thrown off, and it appears in its genuine or most perfect form of a fly, or butter-fly. See Fly and Butter-fly.

It is necessary, however, before the animal can get rid of these coverings, that it
it pafs through a flate of reft, called by
naturalifts the nymph or chryfalids-flate.
See the article NYPH.
Whoever defires to have a more full ac-
count of thefe animals in their reptile and
chryfalids-flate, may confult the fecond
volume of Reaumur's History of insects.
CATERPILLAR-EATERS, small worms bred
from the eggs of certain flies, lodged in
bodies of larger caterpillars.
CATERPILLAR-PLANT, in botany, the
name by which fome call the scorpionidés, or
scorpiurum of botanifts. See SCORPIUS.
CATERPILLAR-SHELL, the English name of
the verrucose turbo, with a broad and
deprefied mouth. See TURBO.
CATESBAE, in botany, a genus of the
tetrandria-monogynia clafs of plants, the
flower of which is monopetalous, and of
a funnel-form; the fruit is an oval
crowned berry, with one cell, containing
feveral angulated feeds.
CATHÆRTICS, in pharmacy, the
fame with farcophagous medicines, or
thofe of a caufic nature, ferving to eat
off proud flefh. See SARCOPIAGOUS.
CATHAII, the name firft given to China
by the Europeans.
CATHARI, in church-hifiory, the fame
with the albigenes. See ALBIGENSES.
CATHARINE, or Knights of St. CATHA-
RINE, a military order, instituted for
the security of travellers who come to vizit
the tomb of this faint. The knights re-
ceived, as a badge of their dignity,
a broken wheel with a fword flained with
blood. They took vows to guard the bo-
dy of this faint, to feeure the roads for
pilgrims, to defend the rights of the church,
to obey their fuperiors in all things, and follow the rule of St. Basil.
CATHARISTÆ, in church-hifiory, a
branch of manichees, fo called from cer-
tain purifications which they were obliged to praftife; they are alfo faid to have held
it unlawful to eat flefh.
CATHARTICS, in medicine, remedies
which promote evacuation by ftool. They
are the fame with what are commonly
called purgatives.
Cathartics may be divided into two claffes,
1. the eccropic or milder; 2. the dra-
ftic, or rougher. See ECCROPIC and
DRASTIC.
They are likewife divided according as
they are supposed to purge bile, phlegm,
melancholy, and ferotities, into cho-
lagogues, pilgmagogues, melanagogues,
and hydragogues. See CHOLAGOGUES,
&c.

CATHEDRALS, among ecclefiafiical writers,
denotes a bishop's fee, or throne. Hence,
Ex CATHEDRA, a phrase much used among
the clergy of the romish church, in rela-
tion to the solemn decrees of the pope,
delivered with all po{fible formality, he
being deemed infallible then only when
he fpokes, in this manner, ex cathedra:
tho' others, particularly of the gallican
church, allow only of his infallibility when
he prefides, or iffues decrees at the head
of a general council; and others, when
he fpokes agreeably to the fcritures and
truth of things: but thefe laft
quite overthrow it, every other man be-
ing, in this fente, equally infallible with
the pope.

CATHEDRAL, a church wherein is a
bishop's fee or feat.
A cathedral was originally different from
what it is now, the chriftians, till the time
of Conftantine, having no liberty to build
any temple. By their churches they en-
ly meant their afsemblies; and by their
SSS cathedrals,
cathedrals, nothing more than confi­
tories.

By a canon of the fifth council of Car­
thage, it is ordered, that every bishop shall have his residence at his principal, or cathedral church, which he shall not leave, to betake himself to any other church in his diocese; nor continue up­
on his private concerns to the neglect of his cure, and hindrance of his frequent­ing the cathedral church. Yet Justinian, in Novels vi. cap. 2. says, “No bishop “shall be absent from his church above “a whole year, unless he has the em­“ peror’s command for it.” Which im­plies that a bishop might be absent from his cathedral a year in ordinary cases, and more in extraordinary.

CATHERINE, or CATHERINE. See the article CATHARINE.

CATHETER, or CATHETUS. See the article CATHETUS.

CATHETER, in surgery, a fistulous in­
strument, usually made of silver, to be introduced into the bladder, in order to search for the stone, or discharge the urine when suppressed.

The catheter may be introduced with much more ease in women than in men, as the urethra in the first is much shorter, wider, and in a straighter course.

In both sexes, however, this instrument cannot be easily passed, but by one that is previously acquainted with the anatomical structure of the parts.

To prevent repeating the operation of passing the catheter when the retention of urine will follow in a short time, modern surgeons have, instead of the common or rigid catheter, provided a flexible cathe­
ter, made of flatted silver, convoluted in a particular manner, as in plate XXXVIII., fig. 7. to give a continual passage to the urine.

M. Le Cat, surgeon at Rouen has like­wise invented a new steel grooved catheter, for performing lithotomy in a manner, akin to Celsus’s, or upon the gripe, two views of which are exhibited in the above mentioned plate and figure; both being one third of the size which the instrument ought to be made of.

CATHETOLIPES, or CATHETUS, in natural histry, an order of octahedral felenite, with perpendicular plates and obtuse angles. It is composed of two horizontal planes, or a top and bottom, and four trapezia, two on each side, divided by an obliquely­
placed and scarcely distinguishable ridge, it rising very little above the surface, and almost leaving the sides in single instead of double trapezia. It is short and thick in proportion to its breadth, and is found for the most part, of about an inch in length, an inch in breadth, and not much less in thickness; its ends are truncated, a little flanting, and leave two smooth glossy planes. It confists of a vast number of tolerably thin flakes, laid evenly and regularly in a tranverse order, and perpendicular to the length of the mafs, and these are each composed of a considerable number of moderately large filamenta: the whole is fiffle, according to the direction of the flakes, though not according to the direction of the fibres that compose them, without great force. The flakes are of an opake whitish hue when separated. The whole is moderately heavy, and will neither give fire with steel, nor ferment with aqua fortis. It is found in the Staffordshire clay-pits, in the loam-pits at Hedgerly, and near Oxford.

CATHETO-PLATEOUS, among na­
turalists, denotes something of a flatted or compred form, as if squeezed together.

CATHETUS, in geometry, a line or ra­
don, perpendicular to the surface of a right-angled triangle are the two sides that include the right angle.
from all sects, who, though they had party-names, sometimes sheltered themselves under the name of christians.

The romish church distinguishes itself now by the name of catholic, in opposition to all those who have separated from her communion, and whom she considers as only heretics and schismatics, and herself only as the true and christian church. In the strict sense of the word, there is no catholic church in being, that is, no universal christian communion.

CATOLIC KING, a title which hath been hereditary to the kings of Spain, ever since Alphonfus, who having gained several victories over the Sarracens, and refetablished the christian faith in Spain, was honoured with the title of catholic. Some fay it was in the time of Ferdinand and Isabella.

CATOLIC FURNACE is a little furnace so contriv'd as to be fit for all kinds of operations which do not require an intense fire.

CATHOLICON, in pharmacy, a kind of soft purgative electuary, fo called, as being suppos'd an universal purger of all humours.

CATHSUN, in botany, the fame with abrotanum, or southern-wood. See ABROTANUM.

CATI, in commerce, an east indian weight. See the article BAHAR.

CATKIN, or KATKIN, the name with an article BAHAR.

CATL Institute, in commerce, an

EATHSUM,

CATHOLIC KING, a title which hath been hereditary to the kings of Spain, ever since Alphonfus, who having gained several victories over the Sarracens, and re-established the christian faith in Spain, was honoured with the title of catholic. Some fay it was in the time of Ferdinand and Isabella.

CATHOLIC FURNACE is a little furnace so contrived as to be fit for all kinds of operations which do not require an intense fire.

CATHOLICON, in pharmacy, a kind of soft purgative electuary, so called, as being suppos'd an universal purger of all humours.

CATHSUN, in botany, the name with abrotanum, or southern-wood. See ABROTANUM.

CATI, in commerce, an east indian weight. See the article BAHAR.

CATKIN, or KATKIN, the name with an article BAHAR.

CATL Institute, in commerce, an

EATHSUM,
CATOPTRITES, in natural history, a name given to hard black marbles, on account of their serving for speculums or looking-glass.

CATOPTROMANCY, a kind of divination among the antients, consisting in the application of a mirror. Paulanius says, it was used by the Achaians, where those who were sick, let down a mirror, fastened by a thread into a fountain, before the temple of Ceres; then looking in the glass, if they saw a ghastly face they took it as a sure sign of death; on the contrary, if the face appeared fresh and healthy, it was a sign of recovery. Sometimes it was performed by a vessel of water, the middle of which was called 

CATUS-MONTA-CALVALRY, a pompous procession of horsemen, equipages, &c. by way of parade to grace a triumph, or lends the article CATUS-MONTA-CALVALRY, in natural history, 

CAVA, in geography, a town of Italy, in the kingdom of Naples, about four miles from Salerno.

CAVALCADE, a pompous procession of horsemen, equipages, &c. by way of parade to grace a triumph, public entry, or the like. See the article CARROUSAL.

CAVALIER, in fortification, an elevation of earth, of different shapes, situated ordinarily in the gorge of a baflion, bordered with a parapet, and cut into more or less embrasures, according to the capacity of the cavalier. Cavaliers are a double defence for the faces of the opposite batiaon: they defend the ditch, break the besiegers galleries, command the traverses in dry moats, lower the faillant angle of the counter-battery where the besiegers have their counter-batteries, and infringe the enemies trenches, or obligate them to multiply their parallels: they are likewise very serviceable in defending the breach, and the retrrenchments of the besieged, and can very much incumode the entrenchments which the enemy make, being lodged in the baflion.

CAVALIER, in the manege, one that understands horses, and is practised in the art of riding them.

CAVALRY, a body of soldiers that charge on horseback, and may properly be called the right arm of the army: they are of great service in disturbing the enemy by their frequent excursions, in intercepting convoys, and destroying the country. The cavalry is divided into squadrons, and encamp on the wings of the army. Too great a number of cavalry may prove prejudicial to an army; for as they consume a great deal of forage, they may oblige a general to decamp from an advantageous post.

CAVAN, the capital of a county of the same name, in the province of Ulster, in Ireland, situated about sixty miles north-west of Dublin; well long. 7° 35'; north lat. 54° 20'.
CAVATION, or CAVASION, in architecture, denotes the hollow trench made for laying the foundation of a building, which, according to Palladio, ought to be one sixth part of the height of the whole building.

CAUCALIS, in botany, a genus of the pentandria-digynia class of plants, the universal flower of which is disform and radiated; the proper flower of the disk is male, small, composed of five inflexo-cordated equal petals; the proper flower of the radius is hermaphroditic and composed of five inflexo-cordated unequal petals, the exterior one being larger than the rest and bifid: the fruit is of an oblate-oblung figure, striated longitudinally, with rigid scabrous bristles: the seeds are two, oblong, convex on one side and armed with prickles in order of the fruite, and plane on the other side. See plate XXXVIII. fig. 9.

CAUCASUS, a vaft ridge of mountains, running from the lefser Asia through the north of Perfia to the East Indies; these acquire different names in the several countries through which they pass.

CAUCON, in botany, a name used by the antients for the equisetum, or horse-tail.

CAUDA, in a general fenfe, denotes the tail of an animal. See the article TAIL.

CAUDA, among fome anatomists, denotes the citoris of the female pudendum. See the article CLITORIS.

CAUDA DRACONIS, the dragon's-tail, in astronomy, the name of the moon's descending node. See the article Node.

CAUDA EQUINA, a name sometimes given to the lower part of the spinal marrow.

CAUDA EQUINA, in botany, the same with the equisetum of botanifts.

CAUDA LEONIS, in astronomy, a star of the firft magnitude in the tail of the constellation leo. See the article Leo.

CAUDA MARINA, the fame with the myrurus of botanical writers.

CAUDEBEC, a city of Normandy, in France, fSituated on the north side of the river Seine, about sixteen miles weft of Rouen: east lon. 45°, and north lat. 49° 32'.

CAUDISONA VIFERA, in zoology, the fame with the rattle-snake.

CAUDIVERBERA, in zoology, a kind of lizard, otherwise called corviius.

CAVE, a subterraneous hollow place of a certain extent. Some authors diftinguifh between a cave and a cavern, making the firft the effect of art, and the latter of nature.

The caves in Wiltshire, between Luckington and Great-Badmington, nine in number, of a row, of several dimensions, the leaff four feet broad, and nine or ten feet long, are credibly fuppofed to be the tombs of fome heroic men among the antient Romans, Saxons, and Danes, becaufe fpars, and pieces of armour have been dug out of them.

CAVEA, in roman antiquity, the fame with cage. See the article CAGE.

CAVEAR, CAVEER, or CAVIARY, the spawn, or hard roes of furgeon, made into small cakes, an inch thick, and of an hand's breadth, falted, and dried in the fun. This fort of food is in great repute throughout Muscovy, becaufe of their three lents, which they keep with a fuperflitious ex- actness; wherefore the Italians fettled at Moscovy, drive a very great trade in this commodity throughout that empire, becaufe there is a prodigious quantity of furgeon taken at the mouth of the Volga, and of the other rivers which fall into the Caution fea. There is a pretty large quantity of this commodity conftin­ued in Italy, and they are very well acquainted with it in France and England, where it is reckoned no defpicable dish.

The French and Italians get the cavear from Archangel, but they seldom get it at the firft hand, for they commonly buy it of the English and Dutch.

CAVEAT, in law, a kind of process in the spiritual courts, to ftop the proving of a will, the granting letters of administration, &c. to the prejudice of another. See PROBATE.

It is also ufed to ftop the infitution of a clerk to a benefice.

CAVEATING, in fencing, is the fhifting the fword from one fide of that of your adverfary to the other.

CAVEDO, in commerce, a poitugue[c long measure, equal to 27½ english inches.

CAVERN denotes much the fame with grotto. See the article GROTTO.

CAVERNOSE, among anatomists, an appellation given to feveral parts of the body, on account of their spongy iftructure: thus the cavernosa corpora of the penis are two spongy bodies, made up of a number of small caverns or cells. These are the two bodies which confitute the penis; they arié diffimif and separate on each fide of the offa pubis, as it were from peculiar thalami; after this they join, and, in that original state, are car­ried into the glans. If any liquid matter be impelled into thefe, or if they be in­flated,
CAVIA, CAVIAC, or CAVAR. See the article CAVEAR.

CAVIDO. See the article CAVEAR.

CAVITY, the name of a cavity, the cavity, or cavities or cavities, or CAVEDO. See the article CAVEAR.

CAULKING-IRONs are iron chisels for that purpose.

CAULKING-TIME, in falconry, a hawk's treading time.

CAUL, among miners, a reddish pink-coloured stone, found in the tin-mines.

CAUL, in anatomy, a membranous part of the abdomen, covering the greatest part of the guts, usually furnished with a large quantity of fat, placed under the peritoneum, and immediately over the intestines, called by some authors reta, or reticulum, from the number of holes appearing in it, when raised, and giving it the resemblance of a net: but it is most frequently called omentum. See the article OMENTUM.

CAUL is also a little membrane, found on some children, encompassing the head, when born. Some take this to be only a fragment of the membranes of the foetus, which generally break at the birth of the child.

CAULICOLES, or CAULICOLES, are eight lesser branches or stalks, in the Corinthian capital, springing out from four greater or principal caulii, or stalks.

The eight volutes of this order are sustained by four caulii, or primary branches, of leaves, and from which these caulicoles or lesser foliages do arise.

CAULIFEROUS, or CAULIFEROUS, is driving oakum, or the like, into all the seams of the planks of a ship, to prevent leaking and keep out the water.

CAULKING-TIME, in falconry, a hawk's treading time.

CAUL, among miners, a reddish pink-coloured stone, found in the tin-mines.

CAUL, in anatomy, a membranous part of the abdomen, covering the greatest part of the guts, usually furnished with a large quantity of fat, placed under the peritoneum, and immediately over the intestines, called by some authors rete, or reticulum, from the number of holes appearing in it, when raised, and giving it the resemblance of a net: but it is most frequently called omentum. See the article OMENTUM.

CAUL is also a little membrane, found on some children, encompassing the head, when born. Some take this to be only a fragment of the membranes of the foetus, which generally break at the birth of the child.

CAULICOLES, or CAULICOLES, are eight lesser branches or stalks, in the Corinthian capital, springing out from four greater or principal caulii, or stalks.

The eight volutes of this order are sustained by four caulii, or primary branches, of leaves, and from which these caulicoles or lesser foliages do arise.

CAULIFEROUS, or CAULIFEROUS, is driving oakum, or the like, into all the seams of the planks of a ship, to prevent leaking and keep out the water.
Cauliflowers have of late years been so much improved in England, as to exceed in goodness and magnitude any produced in most parts of Europe, and, by the skill of the gardener, are continued for several months together; but the most common feason for them is in May, June, and July.

In order to have very early cauliflowers, we should make choice of a good rich spot of ground, that is well defended from winds, whether, and how, the casualty in ground, should then be levelled; and if it be naturally a wet foil, you should raise it up in beds, about two feet and a half or three feet broad, and four inches above the level of the ground. In planting your cauliflowers you should allow about two feet six inches distance from glass to glass in the rows, always putting two good plants under each glass, which may be at about four inches from each other; and if you design them for a full crop, they may be three feet and a half row from row: but if you intend to make ridges for cucumbers or melons between the rows of cauliflowers, as is generally practised by the gardeners near London, you must then make the rows eight feet asunder.

CAULINE, in a general sense, denotes any thing belonging to the caulis or stalk of plants. See the article CAULIS.

CAULINE LEAF, among botanists, that growing from the stalk of a plant.

CAULINE PEDUNCLE. See PEDUNCLE.

CAULIS, among botanists, denotes the stalk of herbaceous plants: this, in trees, is called caudex, or trunk; and, in grasses, culmus, or stem.

CAUNES, a town of upper Languedoc, in France, in the diocese of Carcassonne.

CAURIS, in natural-hitory, a name used by some for the porcellain-shell.

CAUSA MATRIMONII PRÆLOCUTI, in common law, a writ that lies where a woman gives land to a man in fee, to the intent he shall marry her, and he refuses to do it in a reasonable time, being thereunto required by the woman: and in such cases, for not performing the condition, the entry of the woman into the lands again, has been adjudged lawful. The husband and wife may sue this writ against another, who ought to have married her.

CAUSA NOBIS SIGNIFICES, in law, a writ directed to the mayor of a town, &c. who being by the king's writ commanded to make seizure of lands to the king's grantee, delays to doing. This writ requires him to shew cause why he makes delay.

CAUSALTY, among metaphysicians, the action or power of a cause in producing its effect.

It is a dispute among the school-philosophers, whether, and how, the causality is distinguished from the cause and the effect? Some hold it a mode or modal entity, superadded to the cause, &c. others contend for its being the cause itself. See the article CAUSE.

CAUSALTY, among miners, denotes the lighter, sulphureous, earthy parts of ores, carried off in the operation of washing. This, in the mines, they throw in heaps upon banks, which, in six or seven years, they find it worth their while to work over again. See ORE and WASHING.

CAUSE, causa, that from whence any thing proceeds, or by virtue of which any thing is done: it stands opposed to effect. We get the ideas of cause and effect, says Mr. Locke, from our observation of the vicissitude of things, while we perceive some qualities or substances begin to exist, and that they receive their eftistence from the due application and operation of other beings. That which produces, is the cause, and that which is produced, the effect: thus fluidity in wax is the effect of a certain degree of heat, which we observe to be constantly produced by the application of such heat.

First Cause, that which acts of itself, and of its own proper power or virtue: God is the only first cause in this sense.

Second Causes are those which derive the power and faculty of action from a first cause: these are improperly called causes, in regard they do not, strictly speaking, act at all, but are acted on: of this kind are all those that we term natural causes. Philosophers are divided as to the action whereby second causes produce their effects: some maintain, that the causality cannot be produced, since it is that which produces: others will have them to act truly by their action; but they are at a loss still about that action: some do not allow that corporeal substances can produce any thing but accidents: the System of Avicenna is, that God produces, immediately, a most perfect spiritual substance; this produces another, less perfect; that, a third; and thus to the last; which last produces.
produces all the corporeal substances; and those corporeal substances, accidents: as to the manner of their agency, some maintain, that the substantial form of second causes produces forms, and the accidental ones, accidents: others, that forms produce other forms and accidents; and others, that accidents alone are capable of producing accidents and forms. Causes are distinguished, by the schools, into efficient, material, final, and formal.

Efficient Causes are the agents employed in the production of any thing.

Material Causes, the subjects wherein the agents work; or the materials whereof the thing is produced.

Final Causes are the motives inducing an agent to act; or the design and purpose for which the thing was done.

Lord Bacon says, that the final cause is so far from being serviceable, that it corrupts the sciences, unless it be restrained to human actions: however, continues he, final causes are not false, nor unworthy of inquiry in metaphysics: but their excursions into the limits of physical causes hath made a great devastation in that province; otherwise, when contained within their own bounds, they are not repugnant to physical causes.

Formal Cause, the change resulting from the action; or that which determines a thing to be this, and distinguishes it from every thing else: thus, the soul is held the formal cause of man.

Causes are again distinguished into physical and moral.

Physical Cause, that which produces a sensible corporeal effect; as the sun is the physical cause of light: others define it, that which produces its effect by a physical virtue.

The cartesians resolve all physical causes into occasional ones.

Occasional Causes, therefore, are only the occasions, not the direct causes of their effects. See the article OCCASION.

The soul, say these philosophers, is not able to act on the body; nor the body, reciprocally, on the soul: to keep up an intercourse between them, God, on occasion of the motion of the body, impresses a sensation on the soul; and an occasion of a sentiment of the soul, impresses a motion on the body: the motions therefore of the soul and body, are only occasional causes of what passes in the one or in the other: thus, say they, the stroke or percussion is only the occasional cause of the motion produced in the body struck: it is God, who is the direct efficient cause, &c.

Moral Cause, that which produces a real effect, but in things immaterial; as repentance is the cause of forgivenes. A moral cause is also defined, that which determines us, though not necessarily, to do, or not to do, any thing; as advice, intreaties, commands, menace, &c.

It is to be observed, that, in this sense, a moral cause is only applicable to a free intelligent agent: it is also observable, that the latter notion of a physical as well as a moral cause is the most just, clear, and distinct.

Causes are again distinguished into universal, or particular; principal, or instrumental; total, or partial; univocal, equivocal, &c.

Equivocal Cause, that which is of a different kind and denomination from its effect: thus it is, the sun is said to be the cause of animal life.

Instrumental Cause, that made use of by the principal, to produces it effect; or that which is excited to produce an effect beyond the measure of its own perfection; some will have all secondary causes to be instrumental ones.

Partial Cause, that which concurs with some other in producing the effect.

Particular Cause, that which can only produce a single effect, or a certain kind of effect.

Principal Cause, that which gives motion to the instrument, or which does not operate beyond its own natural efficacy.

Total Cause, that which produces the whole effect.

Univocal Cause, that which is of the same kind and denomination with its effect: as, love is the cause of love.

Universal Cause, that which, by the extent of its power, may produce all effects.

Cause, among civilians, the same with action. See the article ACTION.

CAUSEWAY, or CAUSEY, a massive of stones, flakes, and falines; or an elevation of fat vituous earth, well beaten; serving either as a road in wet marshy places, or as a mole to retain the waters of a pond, or prevent a river from over-flowing the lower grounds.

CAUSTICS, in phyc, an appellation given to medicines of hot and fiery nature, that, being applied, consume, and, as it were, burn the texture of the parts, like hot iron.

Cautics
Cautics differ from cauteries in that they perform their effects slower, and with less force and pain: they are used to eat off proud fungous flesh; they also penetrate within hard callous bodies, and liquify the humours: and are particularly applied in abscesses and imposhumations, to eat through to the suppured issues, in parts where cutting is difficult, or inconvenient.

Cautics are generally divided into four sorts, the common stronger cautic, the common milder cautic, the antimonial cautic, and the lunar cautic.

The stronger cautic is prepared by boiling to a fourth part, any quantity of the lees of almond-soap, adding lime, that has been kept in a vessel pretty close flopt for several months; the lime is to be added till all the liquor is absorbed, and the whole reduced to a paste, which is to be kept in a vessel well flopt.

The common milder cautic is prepared by taking equal parts of soft soap, and fresh quick-lime, and mixing them at the time of using.

The antimonial cautic is prepared thus: take of antimony one pound, of corrosive sublimate, two pounds; and being reduced separately into powder, mix them well, and dilute them in a retort with a wide neck, in a gentle heat of sand; let what ascends into the neck of the retort be exposed to the air, that it may run into a liquor.

The method of preparing the lunar cautic is as follows: dissolve pure silver by a sand-heat, in about twice its weight of aqua fortis; then dry away the humidity, with a gentle fire, afterwards melt it in a crucible, that it may be poured into proper moulds, carefully avoiding overheating, heat, lest the matter should grow too thick.

Cautic curve, in the higher geometry, a curve formed by the concourse or coincidence of the rays of light, reflected from some other curve. See Catacaustic and Diacaustic.

Cautic-glasses, the same with burning-glases. See Burning-glasses.

Cauticum antimoniale, in the London Dispensatory, the same with the oil of antimony. See Antimony.

Causus, or burning-fever, a species of continual fever, accompanied with a remarkable inflammation of the blood. The principal symptoms are a heat almost burning to the touch, the breath extreme-ly hot, a dryness of the whole skin, the tongue parched and rough, and an unquenchable thirst. See Fever.

Causway, or Causeway. See the article Causeway.

Cauterization, the application of cauteries to any part of the body. See the next article.

Cauterization with moxa is wonderfully extolled by some as the most effectual means to extirpate the gout; but it is at present in disuse, and not without reason, for besides the acute pain which it creates, it is frequently found to have little or no effect. This cauterization, however, is said to be at present in use among the Arabians; and the Japanese and Chinese have it in so great esteem, that it makes one of their chief remedies.

Cauter, in surgery, a medicine for burning, eating, or corroding any solid part of the body.

Cauteries are distinguished into two classes, actual and potential: by actual cauteries are meant red hot instruments, usually of iron, which are applied to many parts and disorders; and by potential cauteries are understood certain kinds of corroding medicines. See the article Cautics.

Cauteries have manifold uses, for they not only destroy the dead parts of carious bones, remove cancers, shirri, excrecencies, carbuncles, and mortified parts, but they are also used to make slues and festons, to stop haemorrhages in wounds and amputations, and lastly to remove an amaurosis, epilepsy, sciatica, with pains in the teeth and other parts.

For the right application of cauteries, various observations are necessary: 1. The size and figure of the cautery should correspond to that of the disordered part. 2. It is necessary to secure the found parts from the cautery, to prevent giving more than necessary pain. 3. When the instrument is sufficiently hot, it is to be applied, and strongly impressed upon the disordered part, till the bottom of it appears found. To effect this, more speedily, it will be necessary to have several cauteries in readiness, a caution more especially to be observed in carious bones and large haemorrhages.

Several physicians have observed, that cauteries succeed in apoplexies when all other remedies have failed. But for the part to which the cautery is to be applied there are various opinions; some prefer the occiput; some take the nap of the neck, between the first and second vertebrae; some...
CAUTING-IRON, in farriery, an iron with which farriers cauterize or fear those parts of an horse that require burning.

CAUTION, cautio, in the civil and scotch law, denotes much the same with what, in the law of England, is called bail. See the article BAIL.

CAUTIONE ADMITTENDA, in law, a writ which lies against a bishop that holds an excommunicated person in prision for contempt, after he has offered sufficient caution or security to obey the orders of the church. On receipt of this writ, the sheriff warns the bishop to take caution.

CAUX, a country of Normandy, in France, situated between the ocean, the Seine, Picardy, and the country of Bray.

CAXA, a little coin made of lead, mixed with some scoria of copper, struck in China, but current chiefly at Bantam in the island of Java, and some of the neighbouring islands.

The caxas are of two kinds, great and small. Of the small 300,000 are equal to fifty-six livres five sols French money; and of the great, 600 are equal to four shillings and six-pence sterling.

CAXAMALCA, the name of a town and district of Peru, in south America, where there was a most magnificent palace belonging to the Yneas, and a magnificent temple dedicated to the sun. It was at Caxamalca that Pizarro put to death Atualpha, their last king.

CAXOU, among miners, denotes a chief of any ore ready prepared for refining.

CAY, in zoology, a small species of brasilian monkey, of a black colour.

CAYMAN, a name by which the crocodile is sometimes called.

CAZEMATE, or CASEMATE, in fortification, a certain retired platform in the flank of a baflion, for the defence of the most and face of the opposite baflion. Sometimes there are three such platforms one behind another, the uppermost of which is on the terre plein of the baflion, which makes the other two be called places baflers, or low places. They are covered from the enemies batteries by a work of earth added to the angle of the shoulder, of a circular and sometimes of a square form, called shoulder, orillon, or epaulement. See ORillon, &c.

It is very seldom that cazemates are used now a-days, because the enemies batteries are apt to bury the cannon they contain under the ruins of their vaults; besides, that the smoke with which they are continually filled, renders them unapparable to the engineers. It is for this reason the latter engineers make them open at top, contenting themselves with fortifying them with a parapet.

CAZEMATE is also used for a well with several subterraneous branches dug in the passage of the baflion, till the miner is heard at work, and air given to the mine.

CAZERN. See the article CASERN.

CAZEROM, or CAZERON, a city of Persia, the capital of the province of Kurch Schabour, situated in 70° east long. and 29° 3' north lat.

CAZIMIR, a town of Poland, in the pala­tinate of Lublin.

CAZMA, a sea-port town of Peru, in south America, in the audience of Lima, between Guanbacho and Mongon.

CE, a city of China, four degrees west from Pekin, in 30° 33' north lat.

CEDAR, cedrus, according to Tournefort, makes a different genus of plants, but is comprehended by Linnaus among the junipers. See the article JUNIPER.

Cedar-wood, which is of a fragrant smell and fine grain, is almost incorruptible by reason of its bitterness, which renders it diftaleful to worms. Historians tell us, that some of this timber was found in the temple of Apollo at Utica, two thousand years old. The cedars of Lebanon are famous, as having been used by Solomon in building the temple of Jerusalem.

Bafiard-CEDAR, in botany, the english name of the theobroma. See the article THEOBROMA.

White-CEDAR, a name given to a species of cupressus. See CUPRESSUS.

CEDRIA, among physicians, the gum or resin which issues from the cedar. In good qualities consist in its being fat, thick, transparent, and that, when poured out, it fall by equal drops.

CEDRUS, the Cedr, in botany. See the article CEDAR.

CEGOLITHUS, or TEGOLITHUS, names used for the lapis judaicus. See LAPIs.

CEILING, in architecture, the upper part or roof of a room, being a lay or covering of platter o'er laths, nailed on the bottom of the joists which bear the floor of the upper room, or on joists put up for that purpose, where there is no upper room, hence called ceiling joists.

These
CELANDINE, c<sub>el</sub>lidon<sub>i</sub>um, in botany. See the article CHELIDONIUM.

CELANDINE, or CELESTIAL, in logic, a mode of fyllogism, wherein the major and conclusion are universal negative propositions, and the minor an universal affirmative. As no man that is a hypocrite can be saved.

LA Every man who with his lips only cries Lord, Lord, is a hypocrite: RENT Therefore, no man, who with his lips only cries Lord, Lord, can be saved.

CELA<sub>str</sub>US, in botany, a genus of the pentandria-monogynia class of plants, whose corolla consists of five equal, oval, patent, sessile petals, with their ends turned back: the fruit is a coloured, oval capsule, obtusely trigonal, gibbous, formed of three valves, and containing three cells, in each of which are small, oval, coloured seeds, smooth, and half covered by a calyptra, which is also coloured, and has an unequal rim, divided into four segments.

CELEBES, or MACASSER, an island of the indian ocean, situated between 116° and 124° east long, and between 2° north and 6° south latitude.

CELERES, in roman antiquity, a regiment of body guards belonging to the roman kings, established by Romulus, and composed of 300 young men chosen out of the most illustrious roman families, and approved by the suffrages of the curiae of the people, each of which furnished ten.

CEleri<sub>r</sub>, in botany, the english name for several species of apium. See APIUM.

CELERINUS, in ichthyology, a name sometimes given to the pilchard. See the article PILCHARD.

CELERITY, in mechanics, the swiftness of any body in motion.

It is also defined to be an affection of motion, by which any moveable body runs through a given space in a given time. See VELOCITY and MOTION.

CELESTIAL, or COELESTIAL. See the article COELESTIAL.

CELESTINS, in church-history, a religious order of christians, reformed from the bernardins by pope Celestin V. Their rules are divided into three parts; the first, of the provincial chapters, and the elections of superiors; the second contains the regular observances; and the third, the veneration and correction of the monks. The celestins rise two hours after midnight to say matins: they eat no flesh at any time, except when they are sick: they fast every Wednesday and Friday to the feast of the exaltation of the holy croix; and from that feast to Easter, every day.

CELEUSMA, αναμορφωσις, in antiquity, a naval shout serving as a signal for the mariners, or rowers in ships, to ply their oars, to row brisker, or to cease from rowing: it is also made use of to signify the joyful acclamation of vintagers, and the shouts of the conquerors, insulting over the vanquished.

CELIAC, or COELIAC PASSION, a sort of diarrhea, or flux of the belly, wherein the aliment comes away either crude or chylified instead of excrements. See the article COELIAC.

CELIBACY, the state of unmarried persons, to which, according to the doctrine, or at least the discipline, of the church of Rome, the clergy are obliged. Dr. Bingham observes, that the prohibiting marriage after ordination, was an increase upon the primitive rule, and never received in the greek church; so that it is not to be reckoned among the standing rules of discipline, which concerned the whole church. In the churches of France and Germany, celibacy was not universally practised by the clergy in the eighth century, as appears by the sixth canon of pope Adrian's collection. As to the settling celibacy in the western church, it was brought about with extreme difficulty, a great many provincial councils were convened in Germany and elsewhere.

In the church of England, the marriage of the clergy was generally practised to the end of the tenth age, and in a great measure to the beginning of the twelfth. That celibacy has no pretence of divine or apostolical institution, seems no difficult point to prove: whence it is, at first, hard to conceive from what motive the court of Rome perfluifed so very obstinately to impose this institution on the clergy. But we are to observe, that this was a leading step to the execution of the project formed of making the clergy independent of princes, and rendering them a separate body, to be governed by their own laws. In effect, while priests had children, it was very difficult to prevent their dependance upon princes, whose...
whose favours have such an influence on private men: but having no family, they were more at liberty to adhere to the pope.

CELIDOGRAPHY, *calappia*, a description of the spots visible in the faces of the sun or planets: we have a treatise under this title by Branchini.

CELIMIA, a name given to the lapis calaminaris. See CALAMINARIS.

CELL, a little apartment or chamber, such as those wherein the antient monks, solitaries, and hermits, lived in retirement.

Cells are still retained in divers monasteries. Thus the dormitory is frequently divided into so many cells. The Carthusians have each a separate house, which serve them as a cell.

The hall wherein the Roman conclave is held, is divided by partitions into divers cells, for the several cardinals to lodge in.

Cells are also the little divisions in honeycombs, which are always regular hexagons.

Cells, in botany, the hollow places between the partitions in the pods, bulbs, and other seed-veils of plants: according as there is one, two, three, &c. of these cells, the veil is said to be unilocular, bilocular, trilocular, &c.

Cells, in anatomy, little bags or bladders where fluids or other matters are lodged, called loculi, cillum, &c.

Adipose Cells. See the article ADIPOSE.

Cell, in geography, a town of Shriens, in the circle of the lower Rhine, in Germany, situated on the median shore of the Moelle, twenty-six miles north-east of Shriens: east long. 6° 45', and north lat. 50° 10'.

Cellar, the lowest room in a house, the ceiling of which is level with the surface of the ground on which the house stands, or at most but very little higher.

As to the situation of cellars, Sir Henry Wotton says, there ought, unless the whole house becellared, to be situated on the north side of the house, as standing in need of a cool and fresh air.

Cellarer, an officer in a monastery, who takes care of the temporalities, and furnishes the convent with provision.

The word is borrowed from the Roman law, for cellarius in the dixit, signifies a controller of the accounts.

Cel mapping, a genus of the *cryptogama*: *lithophyterum*, excavated with oblong cellules.

CELSIA, in botany, a genus of the *pen-tandria monogyenia* class of plants, the flower of which consists of five lanceolate, acuminate, erect, rigid, and permanent petals; the fruit is a globose capsule, surrounded with a corolla, with one cell opening horizontally, and containing several roundish emarginated seeds.

CELSIA, in botany, a genus of the *didi-nyma-angiofermia* class of plants, the flower of which is monopetalous, with a plain limb and roundish segments: the fruit is a roundish capsule, compressed at the top, acuminate, adhering to the cup, with two cells, containing several small angulated seeds.

CELTIS, in botany, a genus of plants belonging to the *polygania-monoezia* class of plants. In the hermaphrodite flower there is no corolla; the fruit is a globose drupe with one cell, containing a roundish nut. In the male flower there is no corolla. The fruit of this plant, when not too ripe, is astringent and binds the belly; and the decoction of it is good for a dyentery, and for women labouring under an immoderate flux of the menses.

CEMENT, or CEMENT. See the article CEMENT.

CEMENTATION, or CEMENTATION. See the article CEMENTATION.

CEMETERY, *cemeterium*, a place consecrated, or set apart, for burying the dead. See the article CEMETERY.

CENADA, a town of the Venetian territories in Italy, situated about thirty-two miles north of Padua: east long. 12° 40', north lat. 46° 5'.

CENEGILD, an expiatory mullet which was formerly paid by one who killed another, to the kindred of the deceased.

CENCHRAMIDEA, in botany, the same with the clals of Linnaeus. See the article CLASIA.

CENCHRAMUS, in ornithology, the name by which Bellonius calls the *emeriza alba*, or bunting. See BUNTING.

CENCHRIS, in zoology, a genus of serpents, the abdomen of which is covered with 240 scuta, and the tail with 64: add to this, that its head is covered with small scales, and the tail has no appendices. It is otherwise called boiguacu. See the article BOIGUACU.

CENCHRIS is also used by some for the tinunculus, or keftrel.

CENCHRUS, in botany, a genus of the *polygania-monoezia* class of plants. There
are two flowers, the one male, the other hermaphrodite; the proper flower is single, with two lanceolated, acuminate, concave valves: there is no pericarpium, and but one roundish seed.

CENCOATEL, the name of a species of coluber, with 220 scuta on the abdomen. See the article Coluber.

CENCONTLATOLLI, in ornithology, the name of the polyglotta avis. See the article Polyglotta.

CENOBIITE, or CENOBITE. See the article Cenobite.

CENOTAPHR, a species of succulent, in antiquity, a monument erected in honour of the dead, but not containing any of their remains. Of these there were two sorts. One erected for such persons as had been honoured with funeral rites in another place; and the second sort, for those that had never obtained a full funeral. The sign whereby honorary sepulchres were distinguished from others, was commonly the wreck of a ship, to denote the decease of the person in some foreign country.

CENOTZQUI, an American bird, called avis evocatrix nivis, as being always clamorous before a fall of snow; its head is black, and the rest of the body variegated with white, grey, yellow, and black.

CENSAL, in commerce, a word used on the coast of Provence, and in the ports of the Levant, to denote a broker. See the article Broker.

Most of the cenfers of the Levant, and particularly those at Grand Cairo, are Arabs by nation. They commonly receive one half per cent. for their trouble.

CENSER, a sacred instrument made use of in the religious rites of the antients. It was a vail, containing incense to be used in sacrificing to the gods. There is the representation of one in Montfaucon's antiquities, under the figure of a shallow cup with a lid to it, and chains running thro' small handles. Centers were likewise in use among the Jews, as we find in the 1 Kings vii. 50. "Solo-"' mon, when he prepared furniture for "-the temple of the Lord, among other "things made centers of pure gold." The center is also used in Roman churches.

CENSOR, in Roman antiquity, a magistrate, whose business it was to reform the manners and to value the estates of the people.

There were two cenfers first created in the 311th year of Rome, upon the Senate's observing that the confuls were generally so much taken up in military actions, as to have no leisure to attend to private affairs. At first they were chosen out of the Senate, but after the plebeians had got the consulate open to them, they soon arrived at the cenforship.

The cenfors degraded senators upon occasion, made the princeps senatus, inspected the management of private families relating to education and expences, and, in short, had authority to reprimand and correct any irregularity, and to take care that persons both in public and private capacity, behaved themselves in a becoming manner. Cicero reduces their functions to the numbering of the people, the correction and reformation of manners; the estimating the effects of each citizen, the proportioning of taxes, the superintendence of tribute, the exclusion from the temples, and the care of the public places.

The office was so considerable, that none aspired to it till they had passed all the rest; so that it was looked on as surprising, that Cnaeus should be admitted censor, without having been either consul or praetor. It was held at first for five years, but Mamercus Aemilius shortened the term to eighteen months.

After the cenfors were elected in the comitia centurialia, they proceeded to the capitol, where they took an oath not to manage either by favour or disaffection, but to act equitably and impartially through the whole course of their administration: and notwithstanding their great authority, they were obliged to give an account of their management to the tribunes and seniles curules. In process of time, the dignity of this office dwindled very much; under the emperors it sunk to nothing, as their majesties engrossed all the branches of that jurisdiction. The republic of Venice has at this day a censor of manners of their people, whose office lasts six months.

CENSORS OF BOOKS, are a body of doctors or other learned men in divers countries to examine all books before they go to the press, and to see they contain nothing contrary to faith and good manners.

At Paris, the faculty of theology claim this privilege, as granted to them by the pope; but in 1624, new commission of four doctors were created by letters patent the sole cenfers of all books, and answerable for every thing contained therein.
CENSURE, a judgment which condemns some book, person, or action, or more particularly a reprimand from a superior. Ecclesiastical censures, are penalties by which, for some remarkable misbehaviour, christians are deprived of the communion of the church, or prohibited to execute the facerotal office.

There are different kinds of censures distinguished by canonists, 1. Into those called de jure, that is, such as are appointed by law, and into those de homine, which are pronounced by a superior for some particular fact. 2. Into censures latea sententia, which are incurred by committing the prohibited action, without any need of judgment pronounced; and censures sententiae serendis, which, tho' diversed by committing the fault against which the penalty is levell, yet the censure is not incurred till sentence is pronounced by an officer commissioned for that purpose. 3. Into just and unjust censures. 4. Into valid and invalid. And, 5. Into those referred for a superior judge, and those not referred.

The pains and penalties attending censures, are excommunication, suspension, interdict, irregularity, deposition, &c. See each of these under its proper head.

CENSURE in several manors of Cornwall and Devon, a custom by which all residents above the age of sixteen, are cited to swear fealty to the lord, and to pay 1 d. per poll, and 1 d. yearly after for ever. The perons thus sworn are called cenfors.

CENSUS, in roman antiquity, an authentic declaration made before the cenfors, by the several subjects of the empire, of their respective names and places of abode. This declaration was registered by the cenfors, and contained an enumeration, in writing, of all the estates, lands, and inheritances they possessed; their quantity, quality, place, wives, children, domestics, tenants, slaves.

The cenfus was instituted by Servius Tullius, and was held every five years. It was of great service to the republic, because by means of it, they discovered the number of citizens capable of bearing arms, and the money they could afford for the expence of a war. It went thro' all ranks of people, tho' under different names: that of the common people was called cenfus; that of the knights, cenfus, recensus, recognitio; that of the senators, lege, relegio.

The cenfus which intitled one to the dignity of a knight, was 400,000 sesterces: that of a senator, was double that sum.

In the vocation law, cenfus is used for a man, whose estate in the cenfor's books is valued at 100,000 sesterces.

CENT, in commerce, an abridgment of cenrnum, is used to express the profit or loss arising from the sale of any commodity. Thus we say, there is 10 per cent. profit, or 10 per cent. loss; which is a profit, or 10 loss, upon the sale of the whole. In the trade of money, it signifies the benefit or interest of any sum of money. Thus money is worth 4 or 5 per cent. upon exchange. But in brokerage, it must be observed, that cent is applied in a different manner. For example, if a broker or exchange agent takes ½ per cent. for the contracts made by his interposition, it is to be understood that there is paid to him ½ of a pound, viz. 2s. 6d. for every 100l. he negotiated.

When an agent or factor sets down at the bottom of an invoice, which he lends to his principal, 2 per cent. commission, it signifies that he takes so many times 21 as there are 100l. in the sum total of the invoice. And it must be observed, that this commission is taken both on the principal price of the commodities bought, and on the charges and expenses incurred, as duties paid, porterage, package, pottage of letters, &c.

CENTAUR, or HIPPOCENTAUR, in ancient poetry, denotes a fabulous kind of animal, half man, half horse. The Thessalians, who first taught the art of breaking horses, appearing on horse-back to make only one body with the animal on which they rode, gave rise to the fiction of the hippocentaur.

CENTAURUS, centaurus, in astronomy, a constellation of the southern hemisphere commonly joined with the wolf, and called centaurus cum lupu. In Ptolemy's catalogue it consists of 19 stars; in Tycho's of 4; and of 13 in the britannic catalogue.

CENTAURIA, SCENTIA, in botany, a genus of the syngeousa-polygama-frif-francae class of plants: the compound flower of which is tubulated and diliform: the proper one, of the hermaphrodite, is monopetalous, with a ventricose, oblong, erect limb, terminating in five linear
linear erect segments: the female flower is monopetalous, with an oblong, oblique, unequally-divided limb. There is no pericarpium except the calyx, which is changed into one, and convivert, containing solitary seeds in the hermaphrodite: the females prove abortive. See plate XXXVIII. fig. 8. The root of this plant is esteemed in fluxes, dyenteries, inpuirting of blood, and by some is much commended in all diseases arising from the obstructions of the mezeric veins.

This genus comprehends the centaurium majus et minus of Tournefort, the root and leaves of which are esteemed vulnerary, stomachic, and astringent.

Centauroides, in botany, a plant otherwise called gratiola. See Gratiola.

Centauria. See Centauria.

Center, or Centre, centrum, in geometry, a point equally distant from the extremities of a line, figure or body.

Center of a basin, a point in the middle of the gorge of a battalion, whence the capital line commences, and is generally at the angle of the inner polygon. See the article Bastion.

Center of a battalion, the middle of a battalion, where there is generally left a square space for holding the cloaths and baggage.

Center of a circle, a point in the middle of a circle, or circular figure, from which all lines drawn to the circumference are equal.

Center of a conic section, a point wherein the diameters intersect each other. In the ellipsis, this point is within the figure, and in the hyperbola, without.

Center of a curve of the higher kind, the point where two diameters concur. When all the diameters concur in the same point, Sir Isaac Newton calls it the general center.

Center of the equant in the old astronomy, a point in the line of the aplanchron, being so far distant from the center of the eccentric towards the aplanchron, as the sun is from the center of the eccentric towards the perihelion.

Center of a dial, that point where the axis of the world intersects the plane of the dial; and therefore in dial: that have centers, is that point wherein all the hour-lines meet. All dials have centers, except such as have their planes parallel to the axis of the world.

Center of an ellipse, the point where the transverse and conjugate diameters interact each other.

Center of gravitation and attraction, in physics, that point to which the revolving planet or comet is impelled or attracted by the impetus of gravity.

Center of gravity, in mechanics, that point about which all the parts of a body do, in any situation, exactly balance each other. Hence, 1. If a body be suspended by this point as the center of motion, it will remain at rest in any position indifferently. 2. If a body be suspended in any other point, it can rest only in two positions, viz. when the said center of gravity is exactly above or below the point of suspension. 3. When the center of gravity is supported, the whole body is kept from falling. 4. Because this point has a constant endeavour to descend to the center of the earth, therefore, 5. When the point is at liberty to descend, the whole body must also descend, either by sliding, rolling, or tumbling down. 6. The center of gravity in regular uniform and homogeneal bodies, as squares, circles, &c., is the middle point in a line connecting any two opposite points or angles. Wherefore, if such a line be bisected, the point of fection will be the center of gravity.

To find the center of gravity of a triangle, let BG (plate XXXIX. fig. 1. No. 1.) be the base AC of the triangle ABC, it will also bisect every other line DE drawn parallel to the base, consequently the center of gravity of the triangle will be found somewhere in the line BG. The area of the triangle may be considered as consisting of an infinite number of indefinitely small parallelograms, DE b a, each of which is to be considered as a weight, and also as the fluxion of the area of the triangle, and so may be expressed by \(2y \times \), (putting BF = x, and FE = y) if this fluxionary weight be multiplied by its velocity \(x\), we shall have \(2y xx\) for its momentum. Now put \(BG = a\) and \(AC = b\), then \(BG (a) = A C (b) : B F (x) : D E = b x / a = 2y\), therefore the fluxion of the weights \(2y \times \), and the fluxion of the momenta \(2y xx = b x x / a\), whence the fluent of the latter, viz. \(b x^2 / 3 a\) divided by the fluent of the former, viz. \(b x^2 / 2 a\) will give \(2 x^2 / 3 a\) for...
for the distance of the point from B in the line BF, which has a velocity equal to the mean velocity of all the particles in the triangle DBF, and is therefore its center of gravity. Consequently the center of gravity of any triangle ABC, is distant from the vertex B or the right line drawn from the angle B bisecting the base AC. And since the section of a superficial or hollow cone is a triangle, and circles have the same ratio as their diameters, it follows that the circle whole plane passes through the center of gravity of the cone, is the length of the side distant from the vertex of the said cone.

To find the center of gravity of a solid cone. As the cone consists of an infinite number of circular areas, which may be considered as to many weights, the center of gravity may be found as before, by putting $BE = x'$ (ibid. No. 2.) $BG = a$, the circular area $DEE = y$, and $AGC = b$; and from the nature of the cone, $a^2:\ x^2 : b : j = \frac{b^2}{a^2}$; but $\frac{b^2}{a^2}$ is the fluxion of the weights; and $y \cdot x = \frac{b^2}{a^2} \cdot x$ is the fluxion of the momenta, whence the fluent $\frac{b^2}{a^2} \cdot x$ will give $\frac{b^2}{a^2}$ for the center of gravity of the part DBFE, consequently the center of gravity of the cone ABCG is distant from the vertex B of the side BG, in a circle parallel to the base.

To find the center of gravity in a parallelogram and paralleloiped, draw the diagonal ACT and DEG (ibid. No. 3.) likewise CB and HF; since each diagonal AD and CB divide the parallelogram ACDB into two equal parts, each passes through the center of gravity, consequently the point of intersection I must be the center of gravity of the parallelogram. In like manner, since both the plane CBFH and ADGE divide the paralleloiped into two equal parts, each passes through its center of gravity, so that the common intersection IK is the diameter of gravity, the middle whereof is the center. After the same manner may the center of gravity be found in prisms and cylinders, it being the middle point of the right line that joins the center of gravity of their opposite bases.

The center of gravity of a parabola is found as in the triangle and cone. Thus, let $BF$ in the parabola $ABC$ (ibid. No. 4.) be equal to $x$, $DE = y$, then will $yx$ be the fluxionary weight, and $yx \times x$ the fluxion of the momenta; but from the nature of the curve, we have

$$y = \frac{x^2}{4} \quad \text{whence} \quad y \times x = \frac{x^4}{4}, \quad \text{and} \quad y \times x \times x = \frac{x^6}{16},$$

$$yx \times x = \frac{x^4}{4}, \quad \text{whose fluent} \quad \frac{x^4}{5} \quad \text{divided by} \quad \frac{2}{x} \frac{x^2}{2} \quad \text{the Fluent of} \quad \frac{x^4}{5} \quad \text{will give} \quad \frac{2}{3} \frac{x^6}{16} \quad \text{will give} \quad \frac{2}{3} 

= \frac{2}{3} \quad \text{BF for the distance of the center of gravity from the vertex B in the part DBE; and fo} \frac{2}{3} \text{of BG is that center in the axis of the whole parabola ABC from the vertex B.}$$

The center of gravity in the human body, is situated in that part which is called the pelvis, or in the middle between the hips. For the center of gravity of segments, parabolics, conoids, spheroids, &c. we refer to Wolfius.

Common Center of gravity of two or more bodies, a point so situated in a right line joining the centers of these bodies, that if this point be suspended, the bodies will equiponderate, and rest in any situation. In two equal bodies, it is at equal distances from both; when the bodies are unequal, it is nearer to the greater body, in proportion as it is greater than the other; or the distances from the centers are inversely as the bodies. Let A (ibid. No. 5.) be greater than B, and B join A B, upon which take the point C, so that C A : C B :: B : A, or that A X CA = B X CB, then is C the center of gravity of the bodies A and B. If the center of gravity of three bodies be required, first find C the center of gravity of A and B; and supposing a body to be placed there equal to the sum of A and B, find G the center of gravity of it and D; then shall G be the center of gravity of the three bodies A, B and D. In like manner the center of gravity of any number of bodies is determined.

The sum of the products that arise by multiplying the bodies by their respective distances, from a right line or plane given in position, is equal to the product of the sum of the bodies multiplied by the distance of the center of gravity from the same right line or plane, when all the bodies are on the same side of it; but when
when some of them are on the opposite side, their products, when multiplied by their respective distances from it, are to be considered as negative, or to be subtracted. Let IL (ibid. N° 7.) be the right line given in position, C the center of gravity of the bodies A and B; Aa, Bb, Cc, perpendiculars to IL in the points a, b, and c; then if the bodies A and B be on the same side of IL, we shall find

\[ Ax \cdot Aa + Bx \cdot Bb = A + B \cdot Cc. \]

For drawing thro' C, the right line MN parallel to IL meeting AA in M, and BB in N, we have A : B :: BC : AC by the property of the center of gravity, and consequently A : B :: BN : AM, or \( A \cdot AM = B \cdot BN \); but \( A \cdot Aa + B \cdot Bb = A \cdot Cc + A \cdot AM + B \cdot Bc \) when B is on the other side of IL. Thus, if C = A, B, D, &c. and the body A be multiplied by the square of the distance CA, and B be multiplied by the square of the distance CB, and so on for the rest; and then if the body A be multiplied by the distance CA, and B be multiplied by the distance CB, and so on for the rest; and if the sum of the products arising in the former case be divided by all the latter products added together, the quotient which shall arise from thence, will be the distance of the center of oscillation of these bodies from the said point.

Thus, if CF (ibid. N° 8.) be a rod on which are fixed the bodies A, B, D, &c. at the several points A, B, D, &c. and if the body A be multiplied by the square of the distance CA, and B be multiplied by the square of the distance CB, and so on for the rest; and if the sum of the products arising in the former case be divided by all the latter products added together, the quotient which shall arise from thence, will be the distance of the center of oscillation of these bodies from the said point.

For the demonstration of this rule, consult the appendix to part I. of Mr. Rowning's system of natural philosophy.

To determine the center of oscillation of the rectangle R I H S (ibid. N° 9.) suspended in the middle point A of the side RI, and oscillating about its axis RI. Let \( RI = SH = a \), \( AP = x \), then will \( PP = dx \) and the element of the area, consequently one weight \( \equiv adx \) and its momentum \( ax \cdot dx \). Therefore \( sa \cdot dx = \frac{1}{7} ax^3 + \frac{2}{3} ax^2 \equiv \frac{1}{2} ax^2 \), indefinitely expresses the distance of the center of oscillation from the axis of oscillation in the segment \( RCDI \). If then for \( x \) be substituted the altitude of the whole rectangle \( RS = b \), the distance of the center of oscillation from the axis will be found \( \equiv \frac{3}{8} b \).

The center of oscillation in an equiangular triangle SAH (ibid.) oscillating about its axis RI, parallel to the base SH, is found at a distance from the vertex A equal to \( \frac{3}{4} AE \) the altitude of the triangle.

The center of oscillation in an equiangular triangle SAH (ibid.) oscillating about its
base SH, is found at a distance from the
vertex \( A = \frac{1}{2} A \).

For the centers of oscillation of parabo-
las and curves of the like kind oscillating
about their axis parallel to their bases,
they are found as follows. In the apol-
lonian parabola, the distance of the cen-
ter of oscillation from the axis = \( \frac{1}{4} A \).

(\textit{ibid.})

In the cubical paraboloid, the distance
of the center from the axis = \( \frac{1}{8} A \).

In a biquadratic paraboloid, the distance
of the center from the axis = \( \frac{1}{2} A \).

See more concerning the centers of oscil-
lation of triangles, cylinders, cones, &c.
suspended in different manners, and agi-
tated laterally, in Wolfius's \textit{elementa}
\textit{mechanica}, \textit{cap. x. sect. 449, &c.}

**Center of percussion**, in a moving body,
that point wherein the percussion force
is greatest, or that point with which if
the body strikes against any obstacle, no
thock shall be felt at the point of suspen-
sion. See the article \textit{Percussion}.

The center of percussion, when the percu-
tion body revolves round a fixed point,
is the same with the center of oscillation,
and conseqently may be determined by
the same rule. See the article \textit{Center}
of \textit{oscillation}.

Hence a flitch of a cylindrical figure, sup-
poising the center of motion at the hand,
will strike the greatest blow at a distance
about two thirds of its length from the
hand.

The center of percussion is the same with
the center of gravity, if all the parts of
the percussion body be carried with a pa-
allel motion, or with the same celerity.

For the momenta are the forces of the
weights into the celerities; wherefore to
multiply equimpanetering bodies by the
\( \text{same velocity,} \) is the same thing as to
take equimpanetables of them; but the
equimpanetables of equimpanetering bodies,
themselves equimpaneterate. Therefore \( \text{equi-}
\text{valent momenta are dispofed} \) about the
center of gravity, and consequently, the
center of gravity in this case, will coin-
cide with the center of percussion; and
what is shown of the one, will hold of
the other.

**Center of conversion**, in mechanics, a
term first used by Mr. Parent. It may
be explained thus. If a flitch be laid on
frantic water, and drawn by a thread
fastened to it, so that the thread always
makes the same angle with the flitch,
\textit{viz.} a right angle, the flitch will be
found to turn on one of its points, which
will be unmoveable, and this point is
called the point of conversion.

This effect arises from the resistence of
the fluid; but the great question con-
fits in knowing in what point the center
of conversion is found. This Mr. Parent
has calculated with a great deal of exact-
ness, and finds if the flitch drawn by one
extremity be a straight line divided into
twenty parts, the center of conversion
will be nearly on the thirteenth, reck-
oning from the thread. If it be not a line,
but a surface or solid, there will be some
change in the situation of the center of
conversion, according to the nature of
the surface or the solid.

**Center of parallelogram, or polygon, the
point in which its diagonals intersect.**

**Center of a sphere, a point in the middle,
from which all lines drawn to the sur-
face are equal.**

**Hermes Triinhythaeus defines God an
intellectual sphere, whose center is the
place where, and circumference nowhere.**

**CENTESIMATION, a milder kind of
military punishment, in cases of dis-
grace, mutiny, and the like, when only
every hundredth man is executed.**

**CENTINODIUM, in botany, a name used
by those for polygonum, or knot-gras.**

**CENTIPES, in zoology, the same with
the scolopendra. See \textit{Scolopendra}.**

**CENTNER, among metallurgists and al-
sayers, denotes a weight divisible first into
an hundred, and afterwards into other
lesser parts. However, it is to be observed,
that the centner of metallurgists is the
same with the common hundred weight;
whereas that of assayers is no more than
one dram, to which the other parts, are
proportional, and nevertheless pass by the
names 100 lb. 64 lb. 32 lb. &c.**

**CENTO, in poetry, a work wholly com-
posed of verses or passages, promiscuously
taken from other authors, only disposed
in a new form and order.**

Proba Falconia has written the life of Je-
sus Christ in centos, taken from Virgil:
Alexr. Rosas has done the like in his
christiados, and Stephen de Pleure, the
same.

Autonius has laid down rules, to be ob-
erved in composing centos; the piece,
says he, may be taken from the same
poet, or from severall, and the verses may
be either taken entire, or divided into
two; one half to be connected with an-
other half taken elsewhere; but two verses
are never to be used running, nor much
less than half a verse taken.
CENTONARIIL, in antiquity, certain officers of the Roman army, who provided tents and other stuff, called centonies, made use of to quench the fire which the enemy's engines threw into the camp. These centonarii kept with the carpenters and other officers of the artillery.

CENTRAL, something relating to a center. See the article CENTER.

CENTRAL FORCES, the powers which cause a moving body to tend towards, or recede from, the center of motion.

If a body A (plate XXXIX. fig. 2. No 1.) be suspended at the end of a string AC, moveable about a point C, as a center, and in that position it receives an impulse in an horizontal direction, it will be thereby compelled to describe a circle about the central point. While the circular motion continues, the body will certainly endeavour to recede from the center, which is called its centripetal force, and arises from the horizontal impetus. With this force it acts upon the fixed center-pin, and that, by its immobility, re-acts with an equal force on the body, by means of the string, and solicits it towards the center of motion: whence it is called the centripetal force; and when we speak of either or both indefinitely, they are called the central forces of the revolving body.

The theory of this species of motion, is comprised in the following propositions.

1. When two or more bodies revolve at equal distances from the center of the circle they describe, but with unequal velocities, the central forces necessary to retain them, will be to each other as the squares of their velocities. That is, if one revolves twice as fast as the other, it will require four times the retaining force the other does; if with three times the velocity, it will require nine times the force to retain it in its orb, &c.

2. When two or more bodies move with equal velocities, but at unequal distances from the center they revolve about, their central forces must be inversely as their distances. That is, by how many times greater the distance a body revolves at, is from the center, so many times less force will retain it.

3. When two or more bodies perform their revolutions in equal times, but at different distances from the center they revolve about, the forces requisite to retain them in their orbs, will be to each other as the distance they revolve at from the center: for instance, if one revolves at twice the distance the other does, it will require a double force to retain it, &c.

4. When two or more bodies revolving at different distances from the center, are retained by equal centripetal forces, their velocities will be such, that their periodical times will be to each other, as the square roots of their distances. That is, if one revolves at four times the distance another does, it will perform a revolution in twice the time that the other does; if at nine times the distance, it will revolve in thrice the time.

5. And, in general, whatever be the distances, the velocities, or the periodical times of the revolving bodies, the retaining forces will be to each other in a ratio compounded of their distances directly, and the squares of their periodical times inversely. Thus, for instance, if one revolves at twice the distance another does, and is three times as long in moving round, it will require two ninths, that is, two ninths of the retaining power the other does.

6. If several bodies revolve at different distances from one common center, and the retaining power lodged in that center decrease as the squares of the distances increase, the squares of the periodical times of these bodies will be to each other as the cubes of their distances from the common center. That is, if there be two bodies whose distances, when squared, are double or treble, &c. of each other, then the periodical times will be such, as that when squared only, they shall also be double or treble, &c.

7. If a body be turned out of its rectilinear course, by virtue of a central force, which decreases as you go from the seat thereof, as the squares of the distances increase; that is, which is inversely as the square of the distance, the figure that body shall describe, if not a circle, will be a parabola, an ellipse, an hyperbola; and one of the foci of the figure, will be at the seat of the retaining power. That is, if there be not that exact adjustment between the projectile force of the body and the central power necessary to cause it to describe a circle, it will then describe one of those other figures, one of whose foci will be where the seat of the retaining power is.

8. If the force of the central power decrease as the square of the distance increases, and several bodies revolving about the same describe orbits that are elliptical,
elliptical, the squares of the periodical times of these bodies will be to each other, as the cubes of their middle distances from the seat of that power.

9. If the retaining power decrease somewhat faster as you go from the seat thereof (or which is the same thing, increase something faster as you come towards it) than in the proportion mentioned in the last proposition, and the orbit the revolving body describes be not a circle, the axis of that figure will turn the same way the body revolves: but if the said power decrease (or increase) somewhat slower then in that proportion, the axis of the figure will turn the contrary way. Thus, if a revolving body, as D (plate XXXIX, fig. 2. N° 2.) passing from A towards B describe the figure ADB, whose axis AB, at first points as in the figure, and the power whereby it is retained decrease faster than the square of the distance increases, after a number of revolutions, the axis of the figure will point towards P, and after that towards R, &c. revolving round the same way with the body; and if the retaining power decrease slower than in that proportion, the axis will turn the other way. Thus it is the heavenly bodies, viz. the planets, both primary and secondary, and also the comets, perform their respective revolutions. The figures in which the primary planets and the comets revolve, are ellipses, one of whose foci is at the sun: the areas they describe, by lines drawn to the center of the sun, are in each proportional to the times in which they are described. The squares of their periodical times, are as the cubes of their middle distances from the sun. The secondary planets describe also circles or ellipses, one of whose foci is in the center of their primary ones, &c.

CENTRAL RULE, a rule discovered by Mr. Thomas Baker, whereby to find the center of a circle designed to cut the parabola in as many points, as an equation to be constructed hath real roots. Its principal use is in the construction of equations, and he has applied it with good success as far as biquadratics.

The central rule is chiefly founded on this property of the parabola, that if a line be inscribed in that curve perpendicular to any diameter, a rectangle formed of the segments of the inscrip., is equal to the rectangle of the intercepted diameter and parameter of the axis.

The central rule has the advantage over Cartes and De Latere's methods of constructing equations, in that both these are subject to the trouble of preparing the equation, by taking away the second term.

CENTRATION, or CONCENTRATION.

See the article CONCENTRATION.

CENTRIFUGAL FORCE, that force by which all bodies that move round any other body in a curve, endeavour to fly off from the axis of their motion in a tangent to the periphery of the curve, and that in every point of it.

Mr. Huygens demonstrates, that this force is always proportional to the circumference of the curve in which the revolving body is carried round. The centrifugal force of any body is to the centripetal, as the square of the arch which a body describes in a given time, divided by the diameter, to the space thro' which a heavy body moves in falling from a place where it was at rest in the same time.

If any body swim in a medium heavier than itself, the centrifugal force is the difference between the specific weight of the medium, and the floating body.

All moving bodies endeavour after a rectilinear motion, because it is the easiest, shortest, and most simple: whenever therefore they move in any curve, there must be something that draws them from their rectilinear motion, and detains them in their orbits; and were that force to cease, the moving body would go straight off in a tangent to the curve in that very point, and so would get still further and further from the focus, or center of its curvilinear motion.

It may be, that in a curve where the force of gravity in the describing body is continually variable, the centrifugal force may also continually vary in the same manner, and so that one may also supply the defect, or abate for the excess of the other, and consequently the effect be every where equal to the absolute gravity of the revolving body.

CENTRINA, or CENTRINE, in ichthyology, the name by which authors call a species of Salminus, without any tail-fins, and its body of a trigonal shape.

CENTRIPETAL FORCE, that force by which a body is every where impelled, or any how tends towards some point as a center; such is gravity, or that force whereby bodies tend towards the center of the earth; magnetic attraction, whereby the lead-stone draws iron.
iron; and that force, whatever it be, whereby the planets are continually drawn back from right lined motions, and made to move in curves.

The greater the quantity of matter in any body is, the greater will be its centripetal force, all things else alike. If a body laid upon a plane, revolve at the same time, and about the same center with that plane, and so describe a circle; and if the centripetal force, wherewith the body is drawn every moment towards the center, should cease to act, and the plane should continue to move with the same velocity, the body will begin to recede from the center about which the plane moved. See Central Forces.

Centrosis, in ichthyology, a name used by some for the stickle-back, a species of gasterosteus. See the article Gasterosteus.

Centro-baryc Method, in mechanics, the method of determining the content of a superficies, or solid, by means of the center of gravity.

Centronia, in zoology, the name by which Dr. Hill calls the echinus marinus, or sea-hedge-hog, or sea-egg; which he defines to be an animal living under the defence of a shelly covering, formed of one piece, and furnished with a vast number of spines, moveable at the animal's pleasure.

These animals constitute a distinct genus by themselves, the species of which are very numerous, and some of them extremely elegant: 1. The centronia with variolated papillæ. 2. The common round centronia, with small papillæ. 3. The sea-apple. 4. The high-backed cordated centronia, called spatangus, or spatagonides, by authors. 5. The round flat centronia, called placenta: with a great many other species. See plate XXXIX. fig. 3. where n° 1. represents the variolated centronia, and n° 2. the common centronia.

Centrum, in geometry and mechanics, the same with center. See the article Center.

Centrum phonicum, in acoustics, the place where the speaker stands, in poly-syllabic and articulate echoes. See the article Echo.

Centrum phonocampticum, the object or place that returns the voice in an echo. See the article Echo.

Blanccus writes, that no syllable can be distinctly and clearly returned, under the distance of twenty-four geometrical paces.

Centrum tendinosum, in anatomy, a point wherein the tendons of the muscles of the diaphragm meet.

This center is perforated towards the right side, for the vena cava; and the depending trunk of the great artery, the thoracic duct, and azygos vena pals between its two inferior procelfes.

Century-box, the same with the gurritte, only the former is of wood, and the other of stone. It is a wooden cell, or lodge, to shelter the centinel, or centry, from the injuries of the weather.

In fortification, they are usually placed on the flanked angles of the bastions, on those of the shoulder, and sometimes in the middle of the curtain.

Centum-morbia, in botany, a name given to nammularia, or moneywort.

Centumviri, in roman antiquity, judges appointed to decide common causes among the people: they were chosen three out of each tribe; and though five more than an hundred, were nevertheless called centumvir, from the round number centum, an hundred.

Centunculus, in botany, a distinct genus of plants, called by some anagallis-dejlorum, and by others a species of anagallis, the characters of which are these: it belongs to the tetrandria-monogyna class of plants; the flower is monocotylous, the tube being globose, and the limb divided into four oval segments; the fruit is an unilocular capsule, containing a great number of roundish seeds.

Centurion, among the Romans, an officer in the infantry, who commanded a century, or an hundred men.

The centurions held the first rank in the first cohort of a legion, and two of them the place of the two first haftati, or pikemen; the first among the princes was also a centurion.

The centurion primipilus was the chief of the centurions: he was not under the command of any tribune, as all the rest were; he had four centuries under his direction, and guarded the standard and the eagle of the legion.

Century, in a general sense, any thing divided into or consisting of an hundred parts.

The roman people, when they were assembled for the electing of magistrates, enacting of laws, or deliberating upon any public affair, were always divided into centuries; and voted by centuries, in order that their suffrages might be the more easily collected; whence these assemblies
CEP

Emblems were called *comitia centuriae.* The Roman cohorts were also divided into centuries. See the articles *Centurion* and *Cohort.*

**Century,** in chronology, the space of one hundred years. This method of computing by centuries is generally observed in church-history, commencing from the time of our Saviour’s incarnation; in which sense we say the first century, the second century, &c.

**Centuries of Magdeburg,** a famous ecclesiastical history, ranged into thirteen centuries, carried down to the year 1298, compiled by several hundred protestants of Magdeburg, the chief of whom was Matthias Flacius Illyricus.

**Centussis,** in Roman antiquity, a coin containing an hundred ases.

**Cenu,** a town of *Terra firma,* in South America, about eighty miles south of Carthagena: west long. 76°, and north lat. 9°.

**Cean,** in ornithology, an American bird, a little bigger than a thrush, esteemed for imitating the human voice.

**Cep,** the *onion,* in botany, a genus of the *baxandria-monogynia* class of plants, the flower whereof consists of fix ovato-oblige, hollow, erect, open, and eburneous petals; the fruit is a broad, short, triangular capsule, containing three cells, and divided by three valves; the seeds are numerous, roundish, and angular. Onions are much eaten, and it would be well if they were more so: they attenuate tough and viscous humours, cleanse the stomach, and excite an appetite; they are a very powerful diuretic, but when eaten too largely, they have bad effects. A syrup of onions, made from a strong decoction of them, with honey, is an excellent medicin in affhamas of the moist kind, in disorders of the breast, &c. A cataplasm of roasted onions and butter is an excellent external application for the piles, &c.

**Cepæa,** in botany, the same with the *anaclis aquatica,* or water-brook-lime.

**Cephalæa,** the same with *cephalagia.*

**Cephalalgia,** a term used to denote the head-ache. See *Head-ache.*

**Cephalanthus,** in botany, a genus of the *tetradria-monogynia* class of plants; the corolla consists of a single petal; the tube is slender; the limb is divided into four parts, acute, reflex, and of the length of the tube; the fruit is an oblong capsule, containing only one cell; several of these grow together, and form a roundish head; the seeds are numerous and oblong.

**Cephalac,** in a general meaning, signifies any thing belonging to the head, or its parts.

**Cephalic medicines** are remedies for disorders of the head.

Under this denomination are comprehended all those medicines which have a particular relation to the brain; so that cephalic remedies, in general, are such as promote the secretion and distribution of the spirits, and are commonly of a volatile, spirituous, and aromatic nature.

**Cephalic vein,** in anatomy, creeps along the arm, between the skin and the muscles, and divides into two branches; the external goes down to the wrist, where it joins the basilica, and turns up to the back of the hand: the internal branch, together with a small one of the basilica, makes the mediania.

The antients used to open this vein for disorders of the head, for which reason it bears this name; but a better acquaintance with the circulation of the blood informs us, that there is no foundation for such a notion.

**Cephalonia,** the capital of an island of the same name, situated in the Mediterranean, near the coast of Epirus, and subject to the Venetians: east long. 21°, and north lat. 38° 10′.

**Cephalopharyngæi,** in anatomy, the first pair of muscles of the upper part of the gullet, which proceed from beside the head and neck, and are spread more largely upon the tunic of the gullet.

These muscles arise from that part where the head is joined to the first vertebra of the neck, from whence marching downwards, they spread about the pharynx, with a large plexus of fibres, and seem to make its membrane: this lightens the throat in swallowing.

**Cephalus,** in ichthyology, a name given to two very distinct fishes, the mullet and chub.

**Cepheus,** in astronomy, a constellation of the northern hemisphere, whose stars, in Ptolemy’s catalogue, are thirteen; in Tycho’s, eleven; in Hevelius’s, forty; and in Mr. Flamsteed’s, thirty-five.

**Cepi,** in zoology, a name given to the party-coloured monkeys.

**Cephal corpus,** in law, a return made by the sheriff, that, upon a capias, or other
like process, he has taken the defendant's body.

CEPIONTITES, a name used by the antients for a kind of jasper.

CEPITES, a slope of the moocas-kind, otherwise called dendrites.

CEPPHUS, in ornithology, a bird of the gull-kind, not unlike the common duck, excepting its feet and beak. See plate XL. fig. 1. and the article LARUS.

CEPURUS, in zoology. See the article CEP.

CERACHATES, in natural history, a name given by the antients to the yellow agat, from its resemblance to yellow wax. See the article AGAT.

CERAM, an island in the indian ocean, between the Molucca-islands on the north, and those of Amboyna and Banda on the south, lying between 126° and 229° east longitude, and in 3° south lat.

It is about one hundred and fifty miles long, and sixty broad; and here the Dutch have a fortress, which keeps the natives in subjection.

CERAMBYX, in zoology, a genus of beetles, the characters of which are these: the antennae are long and fetcous; and the thorax is oblong, rounded, and mucronated or pointed at each extremity.

Under this genus is comprehended the capricorn-beetle, and a number of other species.

CERAMPIUM, in antiquity, a measure, otherwise called amphora. See the article AMPHORA.

CERASTES, the horned-snake, in zoology, a kind of serpent with two protuberances on its forehead, harder than a shell, from the resemblance of which to horns, it has got the name cerastes.

CERASTIUM, in botany, a genus of the decandria-pentagonia class of plants, the flower of which consists of five bispit petals; and its fruit is a very long unilocular pod, containing numerous roundish seeds; it is said to have the name of the myojatis of authors.

CERASUS, the cherry-tree, in botany, a genus of the icosaedria-monogynia class of plants: the corolla consists of five hollow, roundish, large, emarginated, patent petals, inserted into the calyx; the fruit is a drupe, of a subglobulous figure, with a longitudinal furrow; the seed is a nut, of the same figure, with the inferior future rising into a little edge.

All the sorts of cherries which are usually cultivated in fruit-gardens, are propagated by budding, or grafting the several kinds into stocks of the black or wild red cherries, which are strong shooters, and of a longer duration than any of the garden-kinds.

CERATE, in pharmacy, a medicine used externally in several diseases, especially those of the skin. It is generally, of four sorts, the white cerate, the yellow cerate, the cicatizing cerate, and the mercurial cerate.

To prepare the white cerate: take of olive-oil four ounces in measure, of white wax four ounces in weight, of spermaceti half an ounce in weight: melt all together, and stir them well, till the cerate is quite cold.

For the yellow: take of yellow basilicon half a pound, of yellow wax an ounce: melt them together.

To prepare the cicatizing cerate: take of olive-oil a pound; yellow wax, prepared calamy, of each half a pound: melt the wax with the lord, then add them gradually to the quicksilver, first well divided by the ballot of sulphur.

CERATION, the name given by the antients to the small seeds of the ceratonia, or sicula, of botanists, used by the arabian physicians, as a weight to adjust the doses of medicines; as the grain weight with us took its rise from a grain of barley.

CERATION, or CERATIUM, was also a silver coin, equal to one third of an obolus.

CERATION, ceratio, in chemistry. See the article WAXING.

CERATITES, in natural history, the name of the foible unicorn's horn. See the article UNICORN.

CERATOCEPHALOIDES, in botany, the name by which Vaillant calls the verbeauna of Linnaeus. See VERBESINA.

CERATOCEPHALUS, in botany, the name with bident. See BIDENS.

CERATOGLOSSUM, in anatomy, the name of a pair of muscles, serving to
draw the tongue directly into the mouth; but if only one of them acts, it draws the tongue to one side of the mouth.

CERATOIDES, in anatomy, a name given to the cornea of the eye. See the article CORNEA.

CERATOIDES, in botany, a name used by some for the artica. See ARTICA.

CERATONIA, in botany, a genus of the 
edeca-pentandria class of plants: there is no corolla of either male or female; the calyx of the male flower is divided into five parts; the calyx of the female flower has five tubercles: the fruit is a legumen, or pod, divided by several septa: the seed is solitary, roundish, compressed, hard, and shining.

CERATOPHYLLUM, in botany, a genus of the monoezia-polymandria class of plants: there is no corolla of either male or female, the flower is divided into several segments, as if that of the female flower: there is no pericarpium; the seed is an ovato-acuminated nut, containing only one cell.

CERATUM, a CERATE, in pharmacy. See the article Cerate.

CEREALES, in botany, a name used by several authors to the cereals. See the article Cerealis.

CEREBRA, in botany, a genus of the pentandria-mongynia class of plants, the corolla of which consists of a single funnel-shaped petal; the tube is elevated, the limb large, and divided into five segments: the fruit is a large, round, fleshy drupe, marked with a longitudinal furrow on the side, and containing two cells, in each of which is a single seed, being a nut of an oval figure.

CEREBUS, among chemists, a term used by some to denote mercury. Helmont likewise uses the phrae cererus chemicus, to denote common nitre, or salt-mercury.

CERCARIA, in zoology, a class of animals, comprehending all those with tails, but having no visible limbs. To this class belong the genera of the brachiuri, and macroceri. See the articles BRACHIURI and MACROCERCI.

CERCUS, in heraldry. A croc cercele is a croc which opening at the ends, turns round both ways, like a ram's horn. See the article Cross.

CERCIS, in botany, a genus of the decandra-mongynia class of plants: the corolla consists of five petals, inserted into the calyx, and greatly resembles a papilionaceous flower: the fruit is an oblong, obliquely acuminate legumen, having only one cell: the seeds are few, roundish, and annexed to the upper future.

CERCOPITHECUS, in zoology, an appellation given to all the long-tailed monkeys; from 
eosimia, a tail, and 
monkeys. See SIMIA and MONKEY.

CERDONIANS, in church-history, antient heretics, who maintained most of the errors of Simon Magnus, Saturnel, and other gnostics. They affected two principles, the one good, and the other evil: this last, according to them, was creator of the world, and the God that appeared under the old law: the first, whom they called unknown, was the father of Jesus Christ, who, they taught, was only incarnate in appearance, and was not born of a virgin, nor suffered death, but in appearance.

CEREALES EDELES, in roman antiquity. See the article Edile.

CERALIA, in antiquity, feasts of Ceres, instituted by Triptolemus of Eleusis, in Attica. These feasts were celebrated with such religious purity, that any one's lying with his wife was accounted pollution. It was not Ceres alone that was honoured here, but also Bacchus: the victims offered were hogs, by reason of the waste they made in the product of the earth. The cerealia passed from the Greeks to the Romans, who held them for eight days successively, commencing on the 12th of April. It was the women alone who were concerned in the celebrations, all dressed in white; the men were only spectators: they eat nothing till fun-fet, in memory of Ceres, who, in her search after her daughter, took no repast but in the evening; there were exhibited combats on horseback, though these were afterwards changed into combats of gladiators.

CEREBELLUM, in anatomy, the hinder part of the brain. See the article Brain. The cerebellum is situated under the posterior lobes of the brain, and the hinder processes of the dura mater, in the lower part of the cavity of the skull: its figure approaches to a globular one; its superficies is less anfractuous or gyrated than that of the brain, but it is furrowed; the furrows...
furrows are deepest and largest in the middle; and from thence they gradually grow smaller every way, in form of so many segments of circles, till by degrees they terminate in what is called the vermiform process.

The substantia of the cerebellum, if cut into the right and left parts, appears much the same with that of the brain; but the cortical part is here much more in quantity than the medullary, which, in a very elegant manner, resembles a kind of shrubs, or little trees, the trunks of which form what are called the peduncles of the cerebellum. Though the brain has its several cavities, the cerebellum has none. The lobules of the cerebellum adhere in clusters to the arboraceous medullaries: they are surrounded by the pia mater, and compose the far greater part of the cerebellum.

The peduncles of the cerebellum consist of the medullary processes: the first ascends from the cerebellum towards the tectes, and forms what is called the valvula magna of the brain; the second forms the annular prominence of Willis; and the third descends to the spinal marrow.

CEREBRUM, in anatomy, denotes the brain. See the article BRAIN.

Cerebrovus, in ichthyology, a name given by the poet Ennius to a species of labrus, called by the generality of writers fcarus.

CERFOLIUM, in botany, the name by which Rivinus calls the scandix.

CERES, in botany, a name used by some for the Gilquafrum.

CEREMISSI, or CEREMS, a territory of little Novgorod, in Russia, lying on the river Wolga.

CEREMONIAL, in a general sense, something belonging to, or partaking of the nature of ceremonies: thus we say, the ceremonial law, the ceremonial of princes, &c.

The ceremonial law is peculiarly used for the law of Moses, in contradistinction to the moral law; and though wholly taken up about the externals of religion, as rites, ceremonies, sacred utensils, &c. yet so blindly have the superstitious Jews been devoted to it at all times, as to prefer the observance of it to that of the moral law itself: whereas the christian religion teaches us that the chief of these ceremonies, the sabbath, was made for man's use, not man for the sabbath.

CEREMONY, ceremony, an assemblage of several actions, forms, and circum-

stances, serving to render a thing more magnificent and solemn; particularly used to denote the external rites of religious worship, the formalities of introducing ambassadors to audiences, &c. Judaism has ever been a source of ceremonies: the Jews even now look upon them as a peculiar blessing from God to their nation, and a prerogative of their religion above all others: in the world: they admit, however, that it is not absolutely necessary to the attainment of eternal life to observe them all; it being impracticable for them, whilst without a temple, and without sacrifices, to keep a great many of them. Paganism has not been behind hand with Judaism in point of ceremony; for that ceremony may in some measure be styled the essence of both these religions. It is surprizing that christianity, whose principles are the most plain and simple, should load itself with so cumbersome a train, that those very people who are obliged to support it, cannot acquit themselves without infinite fatigue and trouble.

Master of the Ceremonies, an officer instituted by king James I, for the more honourable reception of ambassadors and strangers of quality: he wears about his neck a chain of gold, with a medal under the crown of Great Britain, having on one side an emblem of peace, with this motto, BEATI PACIFICI; and on the other, an emblem of war, with DIEU ET MON DROIT: his salary is three hundred pounds per annum.

Affidant master of the Ceremonies is to execute the employment in all points, whensoever the master of the ceremonies is absent. His salary is one hundred and forty-one pounds, thirteen shillings, and four pence per annum.

Marshal of the Ceremonies is their officer; being subordinate to them both. His salary is one hundred pounds per annum.

Masters of the Ceremonies to the pope. Of these there are six, whereas two are called assistants, and the other four supernumeraries: the two assistants receive of every new cardinal two hundred and twenty-four crowns of gold, and of the heirs of those who die, an hundred crowns: besides this, their employments bring them in seven hundred crowns. The four supernumeraries receive forty-eight crowns of gold a-piece from every new-created cardinal, and four hundred crowns from the apostolical college. They have an equal authority to regulate all pontifical functions, acquaint the cardinals with thir
duty, and issues orders to all persons belonging to the court.

**CERET**, or SERET, a town of France, in the province of Guienne, about thirty-two miles north-east of Cahors: east long. 1° 33', and north lat. 44° 49'.

**CEREAUS**, the *torch-thistle*, in botany, the same with the *calaxis* of Linnaeus. See the article *Cactus*.

**CERIGO**, or *Cytheraea*, in geography, an island of the Archipelago, on the eastern coast of the Morea, and fifty miles north of the island of Candia.

It is a mountainous country, between forty and fifty miles in circumference, and situated in east long. 23° 40', and north lat. 36°.

**CERIGO**, in zoology, one of the many names given to the *opollum*.

**CERINTHE**, *honey-wort*, in botany, a genus of the *pentandria-monogynia* class of plants, the flower of which consists of a single petal; the tube is short and thick; the limb is thicker than the tube, and somewhat bellied; it is divided into five segments, and the mouth is open and pervious: the fruit consists of two hard cellular bodies, of an oval figure, gibbous on the put-fide, plane within, acute, emarginated, and containing two cells: the seeds are sanguine, roundish, and acuminate.

**CERINTHIANS**, in church-history, Christian heretics, followers of Cerinthus, who lived and published his herefy in the time of the apostles themselves: they did not allow that God was the author of the creatures, but said, that the world was created by an inferior power: they attributed to this creator an only son, but born in time, and different from the world: they admitted several angels and inferior powers: they maintained that the law and the prophets came not from God, but from the angels; and that the God of the Jews was only an angel: they distinguished between Jesus and Christ, and said, that Jesus was a mere man, born, like other men, of Joseph and Mary; but that he excelled all other men in prudence and wisdom; that Jesus being baptized, the Christ of the supreme God, that is, the Holy Ghost, descended upon him; and that by the assistance of this Christ, Jesus performed his miracles. It was partly to refute this that St. John wrote his gospel.

**CERINTHOIDES**, in botany, the same with *cerinthe*. See the article *Cerinthe*.

**CERITES**, in natural history, the same with *ceratites*. See *Cerachates*.

---

**CERNUA**, in ichthyology, a species of perch, called in English the ruffe; distinguished by having only one back-fin, and a cavernous head.

**CERNUA** is also a name used by some for the *sparus* variegated with transverse lines, and a remarkable black spot near the tail.

**CEROMA**, *Kepuia*, an ointment made up of oil and wax, with which the ancient wrestlers rubbed themselves, not only to make their limbs more fleek, and less capable to be laid hold on, but also more pliable and fit for exercise.

**CEROPEGIA**, in botany, a genus of the *pentandria-monogynia* class of plants, whose flower consists of a single petal; the tube is cylindraceous, oblong, and terminating with a long globose base; the limb is small, and divided into five segments: the fruit is two cylindraceous acuminate floccules, containing one cell, and divided by two valves: the seeds are numerous, imbricated, and oblong.

**CERRUS**, in botany, the same with the *agilops*. See the article *Agilops*.

**CERRUS**, in ichthyology, a name used by Pliny, and other ancient writers, for the *sparus* with a black spot on the middle of each side, and with the tail and pectoral fins red.

**CERTHIA**, the creeper, in ornithology, is made, by Linnaeus, a species of the *isida*, or king-fisher. See the article *Isida*.

**CERTIFICANDO DE RECOGNITIONE STAPULÆ**, a writ issued to the mayor of the staple, commanding him to certify to the lord-chancellor a statute-staple taken before him, where the party refuses to bring it.

**CERTIFICATE**, in law, a writing made in any court, to give notice to another court of any thing done therein. The clerks of the crown, affize, and the peace, are to make certificates into the king's bench of the tenor of all indentments, convictions, outlawries, &c.

**CERTIFICATION of an assize of novel distress**, a writ granted for the re-examining passed-by assizes before justices. This writ is used where a person appears by his bailiff to an assize, brought by another, and has lost the day.

**CERTIORARI**, a writ which issues out of the chancery, directed to an inferior court, to call up the records of a cause there depending, in order that justice may be done. And this writ is obtained upon complaint, that the party who seeks it has received hard usage, or is not like to have
CERTITUDE, considered in the things or ideas which are the objects of our understanding, is a necessary agreement, or disagreement of one part of our knowledge with another: as applied to the mind, it is the perception of such agreement or disagreement; or such a firm well-grounded assent, as excludes not only all manner of doubt, but all conceivable possibility of a mistake. There are three sorts of certitude, or assurance, according to the different natures and circumstances of things.

1. A physical or natural certitude, which depends upon the evidence of sense; as that I see such, or such a colour, or hear such or such a sound: no body questions the truth of this, where the organs, the medium, and the object are rightly disposed. 2. Mathematical certitude is that arising from mathematical evidence; such is, that the three angles of a triangle are equal to two right ones. 3. Moral certitude is that founded on moral evidence, and is frequently equivalent to a mathematical one, as that there was formerly such an emperor as Julius Caesar, and that he wrote the Commentaries which pass under his name; because the historians of these times have recorded it, and no man has ever disproved it since: this affords a moral certitude, in common sense so great, that one would be thought a fool or a madman for denying it.

CERT-MONEY, a fine paid yearly by the residents of several manors, to the lord thereof, and sometimes to the hundred, pro certo lete, that is, for the certain keeping of the leet.

CERVARIA, in botany, a name used by Rinvus, for the *Helinium* of Linnaeus. See the article *Selium*.

CERVIA, in botany, a city and port-town of România, in Italy, situated on the gulf of Venice, about ten miles south-cast of Ravenna, and subject to the pope: call lon. 13°, and north lat. 44°. 0'.

CERVICAL NERVES, in anatomy, are eight pair of nerves, so called as having their origin in the neck. See NERVE.

From these eight pair there are innumerable branches distributed through the muscles of the head, the neck, the scapula, and the humerus: from the third pair, in particular, there is a branch which runs up to the ear: from the third, fourth, and fifth pair are formed the nerves of the diaphragm, which passing through the neck and break, descend into the diaphragm: the sixth, seventh, and eighth of these, after they have been joined by various anastomoses, form the fix robust nerves of the arm.

To this division is the spinal accedory nerve of Willis to be referred, as a sort of ninth pair of nerves of the neck; this arises from the spinal marrow, about the origin of the third or fourth pair, and passes through the great foramen in the os occipitis up into the cranium.

CERVICAL VESSELS, in anatomy, denote the arteries, veins, &c., which pass through the vertebræ and muscles of the neck, up to the skull.

CERVICALES DESCENDENTES, a pair of muscles, antagonists to the sacro-lumbares, coming from the third, fourth, fifth, and sixth vertebræ of the neck.

CERVICARIA, in botany, the name by which some call two distinct genuses of plants, the *Trachelium* and *Thapsia* of other writers. See the articles *Trachelium* and *Thapsia*.

CERVIS-SPINA, in botany, the name by which Dillenius calls the *Rhamnus* of other botanists. See the article *Rhamnus*.

CERVIX, in anatomy, denotes properly the hinder part of the neck, as contradistinguished from the fore-part, called *jugulum*, or the throat. See NECK.

CERVIX OF THE UTERUS, or the neck of the uterus, that oblong canal or passage between the internal and external orifices of the womb, which receives and inclines the penis, like a sheath, whence it is also called vagina. See the articles *Uterus* and *Vagina*.

In maid's it is very narrow, except in the time of the menes, being scarce wide enough to admit a goose-quill: its inner extremity is called the *oeclium internum*, or the internal mouth of the womb; it opens into the vagina in form of the glans penis.
CERUMEN, CERUSE, grgins, cerus: very bad in men; manner, expands them, it is generally adulterated the time of delivery, it, in a wonderful fashion to the child.
The painters use it in great quantities; children, or who are big with workers in white-lead.

nicious feen among those in inspiration, prove fatal: alm1: of the very pernicious effects of this metal are too often seen among those persons who work lead in any form, but particularly among the workers in white-lead.

The painters use it in great quantities; and, that it may be afforded cheap to them, it is generally adulterated with common whitening: the english and dutch cerus are very bad in this respect; the venetian ought always to be used by apothecaries.

CERUS of antimony, a medicine prepared by distilling powdered regulus of antimony with spirit of nitre, till no more fumes arise; what remains in the retort being pulverised and washed, makes the cerus of antimony, which is esteemed a powerful diuretic.

CERVUS, the stag or deer-kind, in zoology, a genus of quadrupeds of the order of the pecora, the characters of which are, that they have deciduous horns, at first hairy, and afterwards naked and smooth; add to this, that there is only one dog-tooth on each side of the upper jaw, and that placed at a distance from the other teeth.

Under this genus are comprehended the camelopardalis, the alce or elk, the rangifer or rein-deer, the capreolus, and the fag and fallow-deer. See the articles Camelopardalis, &c.

CERVUS volans, in zoology, the name of the flag-horned beetle, a remarkably large species of beetle, with its horns deeply jagged, or ramified, somewhat like those of a fag. See plate XL. fig. 2.

CERYX, a name antiently used for three genera of shell-fish, viz. the buccinum, purpura, and murex. See the articles Buccinum, &c.

CESAR and CESARIAN. See the articles Cesar and Cesarian.

CESARE, among logicians, one of the modes of the second figure of syllogisms; the minor proposition of which is an universal affirmative, and the other two universal negatives: thus, Ce No immoral books ought to be read: sa But every obscene book is immoral: re Therefore no obscene book ought to be read.

CESENA, a town of Romania, in Italy, about fifteen miles south of Ravenna: east lon. 12° 50', and north lat. 44° 20'. It is a bishop's see.

CESIS, in botany, a name used by some for the wild carrot. See Daucus.

CESSAMPELUS, the name by which many call the hoary-branchied species of convolvulus, or bind-weed. See the article Convolvulus.

CESSATION, cellatio a division, in the roman church, is when, for any notorious injury to the church, a stop is put to all divine offices and the administration of the sacraments, and chrifians are deprived of church-burial. A cellation differs
fers from an interdict in this, that, during the latter, divine service may be performed in such churches of any place interdicted, as are not expressly under the interdict, and even be celebrated solemnly on certain high festivals, the church-doors being shut: but in a cesfation, no religious service can be performed solemnly; the only liberty allowed, is, in order to renew the consecrated hofts, to repeat, every week; a private mass in the parish-churches, the doors being shut, observing also not to ring the bell. Moreover it is lawful, during the cession, to administer baptism, confirmation, and penance to such persons as desire it, provided they are not excommunicated, or under an interdict.

CESSAVIT, in law, a writ that lies upon this general ground, that the perfon against whom it is brought, has for two years neglected to perform the service, or to pay the rent he is obliged to by his tenure, and has not upon his lands sufficient goods or chattels to be distrained; an heir cannot maintain a writ in two years, then the donor, or his heirs, shall have this writ against the person that holds the lands.

CESSAVIT DE CANTARIA is where a person gives land to a religious house, to lay divine service, or provide alms for the poor. If the said services are not performed in two years, then the donor, or his heirs, shall have this writ against the person that holds the lands.

CESSION, in law, an act by which a person surrenders and transmits to another person, a right which belonged to himself. Cession is more particularly used in the civil law for a voluntary surrender of a person's effects to his creditors, to avoid imprisonment. A debtor cannot be admitted to the benefit of cession unless by virtue of letters patent, confirmed in court by the creditors; and in order to obtain that favour, he must make it appear that he has no resource left for payment, nor can he be reproached with villany or fraud. Cession implied a mark of intamy, and obliged the person to wear a green cap, which was intended to signify, that the cessionary was become poor through his own folly. The Italian lawyers describe the ceremony of cession to consist in striking the bare breech three times against a stone, called lapis vituperi, in the presence of a judge. Formerly it consisted in giving up the girdles and keys in court. There are several debts for which a person cannot be admitted to make a cession of his estate; such are those occasioned by a deposit of public or private money, and in general all those debts accompanied with fraud or perjury on the part of the debtor: persons condemned in a fine, or damages, for any crime, are also excluded from the benefit of cession; as are merchants who buy in gross to sell in detail, strangers, masters for the wages of their servants, persons who have embezzeled the public money, &c. The cession of goods does not liberate a debtor; so that whatever riches he may afterwards acquire, the creditors can seize for their own payment; they are obliged, however, to allow him a livelihood.

CESSION, in the ecclesiastical law, is, when an ecclesiastical person is created a bishop, or when a person of a parish takes another benefice without dispensation, or being otherwise qualified. In both these cases their first benefices become void by cession, without any resignation; and to those livings that the person had, who was created bishop, the king may pretend for that time, whoever is patron of them; and in the other case the patron may pretend: but by dispensation of retainer, a bishop may retain same or all the prerogatives he was intituted to, before he was made bishop.

C ESSIONARY, a term used by some for a bankrupt. See the article Bankrupt.

CESSIONARY, cessionarius, likewise denotes the person to whom the cession of goods is made, either voluntarily or judicially. See the article Assignee.

CESSOR, one that cedes or neglects to perform a duty, and for that reason is liable to have the writ cessevavit brought against him. See the article Cessavit.

CESTREUS, in ichthyology, a name used by Gessner for the mugil, or mullet.

CESTRUM, in botany, a genus of the pentandria-mongynia class of plants, the flower of which is monopetalous, of a funnel-form, with a cylindrical and very long and slender tube, and a plane plicated limb, divided into five equal ovated segments; the fruit is an oblong oval berry, with one cell, containing numerous roundish seeds.

CESTUI, a french word, signifying he or him, frequently used in our law-writings. Thus, cestui qui trust, a person who has lands, &c. committed to him for the benefit of another: and if such person does not perform his trust, he is compellable to it in chancery.
CEVENNES, a ridge of mountains in the province of Languedoc, in France.

CEVADILLA, in botany, the name by which some call the Indian caustic barley.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, or CASTUS, among antient poets, a fine embroidered girdle faid to be worn by Venus, to which Homer ascribes the faculty of charming and conciliating love.

CEVADILLA, in botany, the name by which some call the Indian caustic barley.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEU. 

CEU. 

CEUTA, a city of the kingdom of Fez, in Africa, situated on the south side of the fireworks of Gibraltar, almost opposite to it: west longitude. 6° 30', and north latitude. 35° 50'. It is a strong fortrefs, in poifeffion of the Spaniards.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.

CEVA, a person to whose use any one is infereed of lands or tenements. Formerly the foeeees to ufs were deemed owners of the land, but now the possession is adjudged in cevai qui ufe.
CHAFFERS, in our old records, signify wares or merchandize; and hence the word chaffering is used for buying and selling.

CHAFF-FINCH, in ornithology, the English name of the fringilla, with an iron-coloured breast, and black wings spotted with white. See Fringilla.

The chaff-finch is a hardy bird, living upon any kind of seeds.

CHAFFING of ropes. See Chafe.

CHAGRE, a fort at the mouth of a river of the same name, a little south of Porto Bello: west longitude 82°, and north latitude 9° 40'.

CHAGREEN, or Shagreen. See the article Shagreen.

CHAIN, catena, a long piece of metal composed of several links or rings, engaged the one in the other. They are made of divers metals, some round, some flat, others square; some single, some double; and serve to so many uses, that it would be tedious to give a particular account of them all. A gold chain is one of the badges of the dignity of the lord mayor of London, and remains to the person after his being divested of that office, as a mark that he has passed the chair.

Chain is also a kind of measure in France, in the trade of wood for fuel: there are chains for wood by tale, for wood by the rope, for faggots, for cleft wood; and for round ficks: there are also chains measuring the sheaves of all sorts of corn, particularly with regard to the payment of tythes; for measuring bottles of hay, and for measuring horses: all these are divided into feet, inches, hands, &c., according to the use they are designed for.

Chain is also a firing of gold, silver, or steel-wire, wrought like a tiffue, which frees to hang watches, tweezer-cases, and other valuable toys upon. The invention of these pieces of workmanship was derived originally from England, whence foreigners give them the name of chains of England.

In making these chains, a part of the wire is folded into little links, of an oval form, the longest diameter about three lines, the shortest one. These, after they have been exactly foldered, are again folded into two, and then bound together and interwoven by means of several other little threads of the same thickness, some of which passing from one end to the other, imitate the warp of a stuff, and the others, which pass transversely, the woof: there are at least four thousand little
Little links in a chain of four pendants, to equally and at the same time to firmly connected, that the eye takes the whole to consist of one piece.

Chains in a ship, those irons to which the throuds of the masts are made fast to the chain-walls.

Chain-shot, two bullets with a chain between them. They are used at sea to shoot down yards or masts, and to cut the throuds or rigging of a ship.

Chain-pump. See the article Pump.

Chain, in surveying, a measure of length, made of a certain number of links of iron-wire, serving to take the distance between two or more places.

Gunter's chain of 100 such links, each measuring 7 3/4 inches, and consequently equal to 66 feet, or four poles.

When you are to measure any line by this chain, you need have regard to no other denomination than chains and links, which are to be set down with a full point between them. Thus, for instance, if the side of a close is found to be 10 chains 14 links, it must be set down thus, 10 14. But if the links be under 10, a cypher must be prefixed; thus 10 chains 7 links, must be set down 70 07.

Then if the field be a square or parallelogram, if you multiply the length expressed in chains and links, by the breadth expressed in the same manner, and cut off five figures from the product, those towards the left hand will be acres; then multiply the separated figures by four, cutting off the fame number of figures, and you will have the roods or quarters of an acre; and lastly, multiply the remaining figures by 49, cutting off five as before, and you will have the square perches.

To take an angle as BAC by the chain (plate XL. fig. 3. N° 1.) measure along the side AB any small distance as AD, and measure the like distance along the side AC to E; then measure the distance DE, which will be the chord of the angle BAC or arch ED. To plot this angle, draw the line AB at pleasure, and from the centre set off the distance AD. Then from the center A with the radius AD, describe with your compasses the arch DE, and set off on it the distance DE from D to E; then from A draw AC through the point E, and you have the angle required. See Scale, Chord, &c.

The same method may be used in surveying a field, by resolving it into triangles, and measuring the sides and angles. But if the field has but four angles, as in the above figure, you need only measure the sides and one of the angles, as BAC; for when that is plotted, according to the foregoing directions, and the length of the sides set off from A to B and C, if you take the length of the side CD in the compasses, and setting one foot in C describe a small arch; also with the length of the side BD, one foot being placed in B, cross the former arch in D, then draw the lines CD and BD, you will have the true plot of the field required.

By the chain to find the distance between two objects inaccessible in respect to each other. From some place as C, (ibid. N° 2.) whence the distance between each object A and B and the said place is accessible in a right line, measure the distance CA, and continue the line to D, making CD equal to CA: measure also BC, and produce the line to E, till CE be equal to CB. Join DE; and the triangle CDE is equal and similar to the triangle ABC, the distance DE being measured, will give the inaccessible distance required.

Chair, cathedra, was antiently the suggulium, or pulpit, whence the priest or public orator spoke to the people. See the article Cathedra.

It is still applied to the place whence professors or regents in the universities, deliver their lectures: thus we say, the professor's chair. It is also applied to the chief magistrate of a city, or rather to the seat appropriated to his office: thus we say, next the chair.

Carule-Chair, an ivory seat placed on a car, wherein were seated the chief magistrates of Rome, and those to whom the honour of a triumph was granted.

Chair, among the roman-catholics, certain seats held antiently in commemoration of the translation of the see or seat of the vicarage of Christ, by St. Peter.

Chair-man, the president or speaker of an assembly. See President.

Chaise, a sort of light, open chariot, or calash. See President.

Chalastics, an appellation given to relaxing medicines, as oil, butter, &c.

Chalaza, among naturalists, a white knotty sort of string at each end of an egg, formed of a plexus of the fibres of the
the membranes, whereby the yolk and white are connected together. See Egg.

CHALCANTHA, in natural history, a kind of compound falt, of a coarse and irregular structure, considerably hard, and naturally impure and opaque.

Of these, authors enumerate a great many species, as the brownish-red chalcanthum, or chalcalis of the antients; the yellow chalcanthum, or mfy of the Greeks; the blackish chalcanthum, or fory of the antients, and rufma of the moderns; and the gold-coloured, friable chalcanthum, or melanteria of the antients. See the articles CHALCANTHUS, MISY, &c.

CHALCEDONY, chaledonius, in natural history, a genus of semipellucid gems, of an even and regular not tabulated texture, of a semi-opake, cryllalline bafis, and variegated with different colours, differed in form of mfts and clouds, and, if nicely examined, found to be owing to an admixture of various kinds of earths, but imperfectly blended in the mafs, and often visible in distinct molecule.

Of this genus there are a great many species, as the blufh-white chalcedony; the brownish-black chalcedony, or ftenoake jasper or capnis of the antients; and the yellow and red chalcedony. All the chaledonies give fire readily with fteel, and make no effervescence with aqua-fortis.

CHALCIDICA, or CHALCIDICUM, in ancient architecture, a magnificent hall belonging to a tribunal or court of justice. Some writers make it the court where affairs of coinage were regulated; others, the mint itefel. Vitruvius ues it for the auditory of a basilica; and sometimes it expresses the apartment where the gods were imagined to eat.

CHALCIDES, in zoology, a species of lacertus, or lizard, with a rounded tail, and three toes on each foot.

CHALCIS, in ichthyology, a name given by Pliny to the herring, or clupea, with the lower jaw longeft, and without any black spots. See the article CLUPEA.

CHALCITIS, the name given by the antients to the brownish-red chalcanthum, of a soft and friable substance, and flowing a very irregular surface when broken; being composed of five or six flaves of short, waved and undulated ftriae. It is found in many parts of the turkish dominions, and is given internally by some after calcination, in fluxes and hemorrhages.

CHALDEE, or CHALDAIC language, that spoken by the Chaldeans, or people of Chaldea: it is a dialect of the Hebrew.

CHALDEE paraphrased, in the rabbinical style, is termed targum. See TARGUM.

CHALDRON, a dry English measure, consisting of thirty-six buffels, heaped up according to the sealed buifel kept at Guild-hall, London: but on ship-board, twenty-one chaldron of coals are allowed to the score. The chaldron should weigh two thousand pounds.

Chalces CHALDRON denotes part of the en-trails of a calf. See the article CALF.

CHALICE, the cup or veffel used to administer the wine in the sacrament; and by the roman-catholics in the mass. The ufe of the chalice, or communicating in both kinds, is, by the church of Rome, denied to the laity, who communicate only in one kind; the clergy alone being allowed the privilege of communicating in both kinds.

CHALIZA, in hebrew antiquity, the ceremony whereby a woman left a widow, pulled off her brother-in-law's shoes, who should have espoused her; after which she was at liberty to marry whom she pleased. See the article WIDOW.

CHALK, in natural history, the English name of the white, dry marble, with a dufy furface, found in hard maffes, and called by authors creta, and terra creta.

Chalk thrown into water, raises a great number of bubbles, with a hissing noife, and fowly diffufs itself into an impalpable powder. It ferments more strongly with acids than any other earth, and burns to lime.

As a medicine, chalk deferves, perhaps, the highest place among the alkaline absorbents; nor is it lefs useful in many of the ordinary affairs of life. Its ufe in cleaning various utensils is well known, and it is in no small repute as a manufacture, especially for cold four lands; in which intention the soft unctuous chalk is most proper, as the dry, hard, and strong chalk is for lime. It is a great improver of lands, and will even change the very nature of them. However, it is most advifable to mix one load of chalk,
chalk, with two or three of dung, mud, or fresh mould, whereby it will become a lasting advantage to the ground: the common allowance is fourteen loads of chalk to every acre.

Black Chalk, among painters, denotes a kind of ochreous earth, of a close structure, and fine black colour, used in drawing upon blue paper.

Red Chalk, an indurated clayey ochre, common in the colour-shops, and much used by painters and artificers.

Chalky Land, that lying on a chalky bottom, whereby it is strongly impregnated with the virtues of the chalk. These lands naturally produce may-weed, poppies, &c. Saint-loin and trefoil likewise agree with them; and their best produce of corn is barley or wheat, tho' oats will likewise do well on them. The best manure for chalky lands is rags, dung, and folding of sheep. If rain happens to fall on them just after sowing, it binding the earth too hard, that the corn cannot pass through it. To prevent which misfortune, it is usual to manure these lands with half-rotten dung, with which some mix sand.

Challenge, a cartel, or invitation to a duel, or other combat. See the article Duel.

Challenge, in law, is an exception made to jurors, who are returned to a person on a trial.

This challenge is made either to the array, or to the polls: to the array, when exception is taken to the whole number of jurors impannelled; and to the polls, when an exception is made to one or more of the jury as not indifferent.

Challenge to the jurors is likewise divided into challenge principal or peremptory, and challenge for cause; that is, upon cause or reason alleged. Challenge principal, is what the law allows without any cause alleged, or further examination: as a prisoner arraigned at the bar for felony, may challenge peremptorily the number allowed him by law, being twenty, one after another, alleging no further cause than his own dislike, and the jurors, so challenged, shall be put off, and new ones taken in their places.

In cases of treason and petit-treason, the number of thirty-five jurors may be peremptorily challenged, without the hearing any cause; and more, both in treason and felony, may be challenged, hearing cause.

If those who prosecute for the king challenge a juror, they are to assign the cause; and if the cause alleged be not a good one, the inquest shall be taken. When the king is party, if the other side challenge any juror above the number allowed, he ought to shew cause of his challenge immediately, while the jury is full, and before they are sworn.

There may be a principal cause of challenge in civil actions, and a challenge for favour. The principal challenge is in respect of partiality, or default of the sheriff, &c. Challenge for favour, is when the plaintiff or defendant is tenant to the sheriff, or if the sheriff's son has married the daughter of the party, &c.

Challenge, among hunters. When hounds or beagles, at first finding the scent of their game, presently open and cry, they are said to challenge.

Challons on the Marne, the capital of the Challonais, in the province of Champagne, in France, situated eighty-two miles east of Paris, and thirty south-east of Rheims: east long. 4° 35', north lat. 48° 55'. It is a bishop's see.

Challons on the Soane, a city of Burgundy, in France, thirty-two miles south of Dijon: east long. 5°, north lat. 46° 40'. It is the see of a bishop.

Chalybeat, in medicine, an appellation given to any liquid, as wine or water, impregnated with particles of iron or steel.

Dr. Short, in his history of the mineral waters, has clasped them into the warm purging chalybeat, diuretic chalybeat, purging and plain sulphur-waters.

Of the warm purging chalybeat waters, that of Buxton seems to be the principal. See the article Buxton-wells.

The purging chalybeat contains a mineral spirit, sulphur, vitriol, nitre, and sea-salt, with a calcareous earth, of which some particles are attracted by the loadstone, which proves them to be iron: of these, the Scarborough-spaw is now in greatest reputation. See Scarbrough.

The diuretic chalybeat water consists of much the same principles with the former class, only the salts are in less proportion; of these there are great numbers in Yorkshire.

Dr. Monro, professor of anatomy at Edinburgh, by pouring a tincture of galls into common water, and dissolving therein in a small quantity of gal martis, adding some filings of iron and oil of vitrol, procured
procured a water exactly like the natural chalybeat water; and he is of opinion, 
that where these are not to be had, the artificial water may be made to answer 
all their intentions, according to its being 
more or less closely kept, or exposed in 

CHAM, or KHAN, a word of much the 
same import with king in English: it 
is the title of the sovereign princes of Tar-
tary, and is likewise applied to the prin-
cipal noblemen of Persia.

CHAM, in geography, a town of the Bav-
arian patinate, situated on a river of the 
same name, about twenty-five miles north-
east of Ratibon: east long. 13°, north 
lat. 49° 15'.

CHAMA, in the history of shell-fish, is 
reckoned by Linnaeus a species of con-
cha, distingiuished by its convex, equal, 
and patent valves. See Concha.

Others make the chama a distinct genus, 
the shell of which is formed of two valves, 
which are both convex, or gibbous, and 
equal; and tho' shut, always leave an 
opening in one part.

There is a great variety among the seve-
ral species of chama; some being per-
fecfly smooth, some striated, and some 
rugose, or even spinose; whilst others are 
oblung, others roundish; some equate-
lateral, and others not so, &c.

Among a great many elegant species of 
this genus, we may reckon, 1. The con-
cha venena, or Venus's shell, with a pin-
noide edge. 2. The agate-chama. And, 
3. The ziczac chama.

CHAMADE, in war, a signal made by 
beat of drum for a conference with the 
enemy, when any thing is to be propo-
ed; as a ceffation of arms, to bring off 
the dead, or a signal made by the be-
sieged, when they have a mind to deliver 
up a place upon articles of capitulation: 
in which case there is a suffusion of 
arms, and hostages delivered on both sides.

CHAMÆBATOS, in botany, &c. a name 
sometimes given to the rubus. See the 
article Rubus.

CHAMÆBUSUXIS, in botany, a name 
sometimes used for polygala, or milk-wort.

CHAMÆCERASUS, the Dwarf-Ho-
ney-Suckle, makes a distinct genus of 
plants, according to some; but Lin-
naeus comprehends it under lonicera. See 
the article Lonicera.

CHAMÆCERASUS is also used by the 
patients for the alkekengi, or winter cherry.

CHAMÆCLEMA, in botany, a name 
given to the hederæ terrestris, or ground-
ivy. See the article Hedera.

CHAMÆCRISTA, in botany, the name 
by which Rivinus calls the cassia. See the 
article Cassia.

CHAMÆDAPHNE, the Dwarf-Bay, 
a genus of plants otherwise called andro-
mèia, or chama-rhododendros.

CHAMÆDRYS, GERMANDER, accord-
ing to Tournefort, makes a distinct genus 
of plants; but is ranged by Linnaeus 
under teucrium. See Teucrium.

CHAMÆLEA, Spurge-Olive, in bot-
tany, a name used by Tournefort for the 
cencorum of Linnaeus. See Cenorum.

CHAMÆLEON, chamaeleos, in zoology, a 
species of lizard with a short rounded 
tail, five toes on each foot, two or three 
of which adhere together. See Lizard.

CHAMÆLEON-Thistle, ixia, in botany. 
See the article Ixia.

CHAMÆLINUM, in botany, a name 
used by Vaillant for the linum of other 
botanists. See the article Linum.

CHAMÆLUC, a plant more commonly 
called tuflilago. See Tussilago.

CHAMÆMILE, chamæmiuim, in botany, 
the name with the anthemis of Linnaeus. 
It belongs to the fynrogenia-polygamia-
superflua class of plants; its flower is of 
the compound, radiated kind; and its 
fruit is a single, oval, compressed, and 
ragged seed, contained in the calyx, or 
cup of the flower.

Chamæmile-flowers are given in infusion 
by way of emetic, are used in emollient 
decotions, and are always an ingredient 
in elytrers. The dried leaves are ac-
counted laxative and emollient, and said 
to promote urine and the menes.

CHAMÆNERION, or Chamænbruim, the 
podded willow-herb, in botany, the 
name with the epilobium of Linnaeus. 
See the article Epilobium.

CHAMÆPITYS, Ground-Pine, in bot-
tany, makes a distinct genus of plants, 
according to Tournefort, but is compre-
prehended under teucrium by Linnaeus. See 
the article Teucrium.

CHAMÆRHODODENDROS, in bot-
tany, a genus of the decandria-monogynia 
class of plants, the flower of which is mo-
opetalous, of an oval or campanulate 
form; and the fruit, a roundish capsule, 
containing five cells.

CHAMÆRPHES, the same with cha-
marops. See the next article.

CHAMÆROPS, in botany, a genus of 
plants, the class of which is not yet per-
fectly ascertained; the corolla of the ber-
V. y. y 2
maphroditte flower is divided into three parts; the petals are ovated, erect, acute, and inflected at the top; it contains fix flaminas: the fruit consists of three berries, globose, with one cell, containing solitary, globose seeds. The corolla of the male flower is the same as in the hermaphrodite.

CHAMÆXYLON, in botany, a name sometimes given to the gaphalium, or cud-weed.

CHAMANIM, in Jewish antiquity, idols exposed to the fun upon the tops of houses, according to Rabbi Solomon: others will have the chamanim to be the same with what the Greeks call pyræa, that is, portable chapels, or temples, made in the form of chariots, in honour of the sun. See the article PYÆA.

CHAMBER, in building, any room situated between the lowermost and the uppermost rooms: in most houses there are two, in others three or more stories of chambers. Sir Henry Wotton directs, that the principal chambers for delight, be situated towards the east. Palladio's rules for the height of chambers, anti-chambers, and halls, either flat or arched, are as follows. 1. If they be flat, he advises to divide the breadth into three parts, and to take two of them for the height of the story from the floor to the joint. If the chamber is desired higher, the breadth must be divided into seven, of which take five for the height. 2. The height of the second story, should be one fourth less than that of the chambers below. 3. For an attic or third story, the second must be divided into twelve equal parts; nine of which will give the height from the floor to the bottom of the joints.

Bed-Chamber, one with a bed in it. See the article Bed.

Privy-Chamber. Gentlemen of the privy-chamber, are servants of the king, who are to wait and attend on him and the queen at court; in their diversions, &c. Their number is forty-eight under the lord-chamberlain, twelve of whom are in quarterly waiting, and two of these lie in the privy-chamber.

In the absence of the lord-chamberlain, or vice-chamberlain, they execute the king's orders: at coronations, two of them perfonate the dukes of Aquitain and Normandy: and six of them, appointed by the lord-chamberlain, attend ambassadors from crowned heads to their audiences; and in public entries. The gentlemen of the privy-chamber, were instituted by Henry VII.

CHAMBER, in policy, the place where certain assemblies are held, also the assemblies themselves. Of these, some are established for the administration of justice, others for commercial affairs.

Of the first kind are, 1. Star-chamber, so called, because the roof was painted with stars; the authority, power, and jurisdiction of which are absolutely abolished by the statute 17 Car. 1. 2. Imperial chamber of Spire, the supreme court of judicatory in the empire, created by Maximilian I. This chamber has a right of judging by appeal, and is the last resort of all civil affairs of the states and subjects of the empire, in the same manner as the aulic council of Vienna. Nevertheless it is restrained in several cases; it takes no notice of matrimonial causes, these being left to the pope; nor of criminal causes, which either belong to particular princes or towns in their respective territories, or are cognizable by all the states of the empire in a diet. By the treaty of Osnaburg, in 1648, fifty affairs were appointed for this chamber, whereof twenty-four were to be pro- cedents, and twenty-six catholics, besides five presidents, two of them protestants, and the rest catholics.

3. Chamber of accounts, a sovereign court in France, where accounts are rendered of all the king's revenues, inventories, and avowels thereof registered; oaths of fidelity taken, and other things relating to the finances transacted. There are nine in France, that of Paris is the chief; it registers proclamations, treaties of peace, naturalizations, titles of nobility, &c. All the members wear long black gowns of velvet, of fætin or damask, according to their places. 4. Ecclesiastical chambers in France, which judge by appeal of differences about the tithes. 5. Chamber of audience, or grand chamber, a jurisdiction in each parliament of France, the counsellors of which are called jugurâts, or judges, as those of the chamber of inquests are called rapporteurs, reporters of process by writing. 6. Chamber of the edict, or majesty, a court established by virtue of the edict of pacification, in favour of those of the reformed religion. This chamber is now suppressed. 7. Apostolical chamber of Rome, that wherein affairs relating to the revenues of the church and the pope are transacted. This council consists of the cardinal-camerlingo, the governor of the rota, a treasurer,
CHAMBER, an auditor, a president, one advocate-general, a solicitor-general, a commissary, and twelve clerks. 8. Chamber of London, an apartment in Guildhall, where the city money is deposited.

Chamber of commerce. 2. The chambers of assurance. And, 3. The royal or synodal chamber of bookellers in France.

The chamber of commerce is an assembly of merchants and traders, where the affairs relating to trade are treated of. There are several established in most of the chief cities of France; and in our own country, we have lately seen chambers of this kind erected for carrying on the British herring fishery.

Chamber of assurance in France, denotes a society of merchants and others for carrying on the business of insuring; but in Holland, it signifies a court of justice, where causes relating to insurances are tried.

Chamber of bookellers in Paris, an assembly consisting of a syndic and assistants, elected by four delegates from the printers, and twelve from the bookellers, to visit the books imported from abroad, and to search the houses of sellers of marbled paper, printellers, and dealers in printed paper for hangings, who are prohibited from keeping any letters proper for printing books. In the visitation of books, which ought to be performed by three persons at least from among the syndic and assistants, all libels against the honour of God and the welfare of the state, and all books printed either within or without the kingdom, in breach of their regulations and privileges, are fo open, even with the merchantizes that may happen to be in the bales with such libels, or other prohibited books. The days appointed for this chamber to meet, are Tuesdays and Fridays, at two o'clock in the afternoon.

Chamber, in war, is said, 1. Of a powder-chamber, or bomb-chamber, a place sunk under ground for holding the powder or bombs, where they may be out of danger, and secured from the rain. 2. Of the chamber of a mine, the place, most commonly of a cubical form, where the powder is confined. A d. 3. Of the chamber of a mortar, that part of the chase, much narrower than the rest of the cylinder, where the powder lies. It is of different forms, sometimes like a reveried cone, sometimes globular, with a neck for its communication with the cylinder, whence it is called a bottled chamber, but most commonly cylindrical, that being the form which is found by experience to carry the ball to the greatest distance.

CHAMBERDEKINS, in old writers, were poor Irish scholars, clothed in mean habits, and living under no rule. They were banished England by statute Henry V. cap. 8.

CHAMBERLAIN, an officer charged with the management and direction of a chamber. See Chamber.

There are almost as many kinds of chamberlains as chambers, the principal whereof are as follow.

Lord Chamberlain of Great Britain, the sixth great officer of the crown, to whom belongs livery and lodging in the king's court; and there are certain fees due to him from each archbishop or bishop, when they perform their homage to the king; and from all peers at their creation, or doing their homage. At the coronation of every king, he is to have forty ells of crimson velvet for his own robes. This officer, on the coronation-day, is to bring the king his shirt, coif, and wearing cloaths; and after the king is dressed, he claims his bed, and all the furniture of his chamber for his fees: he also carries at the coronation, the coif, gloves, and hennin to be used by the king on that occasion; also the sword and scabbard, the gold to be offered by the king; and the robes-royal and crown, he dresses and undresses the king on that day, waits on him before and after dinner, &c.

To this officer belongs the care of providing all things in the house of lords, in the time of parliament; to him also belongs the government of the palace of Westminster: he disposes likewise of the sword of state, to be carried before the king; to what lord he pleases.

Lord Chamberlain of the household, an officer who has the oversight and direction of all officers belonging to the king's chambers, except the precinct of the king's bed-chamber.

He has the oversight of the officers of the wardrobe at all his majesty's houses, and of the removing wardrobes, or of beds, tents, revels, music, comedians, hunting, messengers, &c. retained in the king's service. He moreover has the oversight and direction of the serjeants at arms, of all physicians, apothecaries, surgeons, barbers, the king's chaplains, &c. and administers the oath to all officers above stairs.
Other chamberlains, are those of the king's court of exchequer, of north Wales, of Chester, of the city of London, &c. in which cases this officer is generally the receiver of all rents and revenues belonging to the place whereof he is chamberlain.

In the exchequer there are two chamberlains, who keep a control of the pells of receipts and exitus, and have certain keys of the treasury, records, &c.

CHAMBERLAIN of London keeps the city-money, which is laid up in the chamber of London: he also presides over the affairs of masters and apprentices, and makes free of the city, &c.

His office lasts only a year, but the curton usually obtains to re-choose the same person, unless charged with any misdemeanor in his office.

Vice-CHAMBERLAIN. See the article Vice-chamberlain.

CHAMBERRY, the capital of the duchy of Savoy, in Italy, situated ninety miles north-west of Turin, and forty-five south of Geneva: east long. 4° 45', north lat. 4° 46'.

CHAMBRANLE, among builders, an ornament of stone or wood bordering the three sides of doors, windows and chimneys. It is different according to the several orders, and consists of three parts, viz. the top, called the traverse, and the two sides, the ascendants. The chambranle of an ordinary door is frequently called the door-case, and that of a window, the window-frame: this is generally when it is plain, and without moldings.

CHAMELEON, or CHAMELEON. See the article CHAMELEON.

CHAMELOT, in commerce, the same with camblet. See CAMELET.

CHAMPEITY, or CHAMPEITYS. See the article CHAMPEITYS.

CHAMP, or CHAMPRET, in architecture, an ornament consisting of half a festa, being a kind of a small furrow or gutter on a column, called allo scapus, fria, &c.

CHAMPFERING, in architecture, a term used for the cutting the under edge of any thing aslope or level.

CHAMÓIS, or CHAMÓIS-GOAT, in zoology, the name of the rupicapra, a creature of the goat-kind, with erect and short but hooked horns. See plate XL. fig. 4.

It is from the skin of this animal that the chamois-leather is made.

CAMPADA, in botany, a genus of trees with polypetalous flowers, and a large fruit resembling a melon, much prized by the people of Malacca: it is, when ripe, twelve or fourteen inches long, and as much in circumference where broadest.

CHAMPIGNON, a province of France, bounded by Picardy, on the north; by Lorraine, on the east; by Burgundy, on the south; and by the isle of France, on the west.

Its capital is Troyes.

CHAMPIGNON, or CAMPAIGN. See the article CAMPAIGN.

CHAMPAIN, or CHAMPAIN, in heraldry, a mark of dishonour in the coat of arms of him who kills a prisoner of war, after he has cried quarter.

CHAMPIR, CHAMPARTUM, or CAMPIR, in our old law-books, signifies any part or portion of a large field or ground.

CHAMPARTORS, or CHAMPERTORS, among lawyers, such as jointly move pleas or suits, either by their own procurement, or by that of others, and sue them at their own proper costs, in order to have part of the lands, or other matters in dispute.

CHAMPARTY, or CHAMPERTY, in law, a contract made with either the plaintiff or defendant in any suit at law, for giving part of the land, debt, &c. sued for, to the party who undertakes the process at his own proper charges, provided he succeeds therein.

This seems to have been an antient grievance in this nation: for notwithstanding several statutes were made in the reign of Edward I. yet in that of Edward III. it was enabled, that whereas former statutes provided redrefs for this evil in the King's-bench only, from thenceforth it should be lawful for the justices of the Common-pleas likewise, and justices of assize, to take cognizance in these cases.

CHAMPION, a person who undertakes a combat in the place or quarrel of another; and sometimes the word is used for him who fights in his own cause.

It appears that champions, in the juft sense of the word, were persons who fought instead of those that, by custom, were obliged to accept the duel, but had a just excuse for dispensing with it, as being too old, infirm, or being ecclesiastics, and the like. Such causes as could not be decided by the court of common law, were often tried by single combat;
and he who had the good fortune to conquer, was always reputed to have justice on his side. Champions who fought for interest only, were held infamous: these hired themselves to the nobility, to fight for them in case of need, and did homage for their pension.

When two champions were chosen to maintain a cause, it was always required that there should be a decree of the judge to authorize the combat: when the judge had pronounced sentence, the accused threw a gage or pledge, originally a safe custody, till the day of battle appointed by the judge.

Before the champions took the field, their heads were shaved to a kind of crown or round, which was left at the top: then they made an oath that they believed the person who retained them, to be in the right, &c. They always engaged on foot, and with no other weapon than a club and a shield, which weapons were blessed in the field by the priest, with a world of ceremonies; and they always made an offering to the church, that God might assist them in the battle.

The action began with railing, and giving each other ill language; and at the sound of a trumpet, they went to blows. After the number of blows or encounters expressed in the cartel, the judges of the combat threw a rod into the air, to advertise the champions that the combat was ended. If it lasted till night, or ended with equal advantage on both sides, the accused was reputed the victor.

If the conquered champion fought in the cause of a woman, and it was a capital offence, the woman was burnt, and the champion hanged. If it was the champion of a man, and the crime capital, the vanquished was immediately disarmed, led out of the field, and hanged, together with the party whose cause he maintained. If the crime was not capital, he not only made satisfaction, but had his right hand cut off: the accused was to be close confined in prison, till the battle was over.

Champion of the king, a person whose office it is, at the coronation of our kings, to ride armed into Westminster-hall, while the king is at dinner there, and, by the proclamation of a herald, make challenge to this effect, viz. "That if any man shall deny the king's title to the crown, he is there ready to defend it in single combat, &c." Which done, the king drinks to him, and sends him a gilt cup, with a cover, full of wine, which the champion drinks, and has the cup for his fee.

Champion, or Champain lands, are lands not enclosed; or large fields, downs, or places without woods or hedges.

Champlain, the name of a lake, situated northwards of the province of New York, in north America: west long. 75°, north lat. 45°.

Chana, or Chanadella, in ichthyology, names by which several authors call the sparus with a forked tail, the under jaw longest, and marked croft the body with black transversal lines.

Chance, in a general sense, a term applied to events, not necessarily produced, as the natural effects of any proper foreknown cause.

We certainly mean no more in saying that a thing happened by chance, than that its cause is unknown to us: for chance itself is no natural agent or cause; it is incapable of producing any effect, and is no more than a creature of man's own making; for the things done in the corporeal world, are really done by the parts of the universal matter, acting and suffering, according to the laws of motion established by the author of nature. Chance is also confounded with fate and destiny.

Chance is more particularly used for the probability of an event, and is greater or less, according to the number of chances by which it may happen, compared with the number of chances by which it may either happen or fail. Thus, if an event has three chances to happen, and two to fail, the probability of its happening may be estimated 3, and the probability of its failing 2. Therefore if the probability of happening and failing be added together, the sum will always be equal to unity.

If the probabilities of happening and failing are unequal, there is what is commonly called odds for, or against, the happening or failing, which odds are proportional to the number of chances for happening or failing.

The expectation of obtaining any thing, is estimated by the value of that thing, multiplied by the probability of obtaining it. The risk of losing any thing, is estimated by the value of that thing, multiplied by the probability of losing it. If, from the expectations which the
gamesters have upon the whole sum deposited, the particular sums they deposit (that is, their own stakes) be subtracted, there will remain the gain, if the difference is positive; or the loss, if the difference is negative. Again, if from the respective expectations which either gamester has upon the sum deposited by his adversary, the risk of losing what he himself deposits be subtracted, there will likewise remain his gain or loss.

If there is a certain number of chances by which the possession of a sum can be secured, and also a certain number of chances by which it may be lost, that sum may be insured for that part of it, which shall be to the whole, as the number of chances there is to lose it, is to the number of all the chances.

If two events have no dependence on each other, so that $p$ be the number of chances by which the first may happen, and $q$ the number of chances by which it may fail; and likewise, that $r$ be the number of chances by which the second may happen, and $s$ the number of chances by which it may fail: multiply $p+q$ by $r+s$ and the product will contain all the chances by which the happening or failing of the events may be varied amongst one another.

From what has been said, it follows, that if a fraction expresses the probability of an event, and another fraction the probability of another event, and these two events are independent, the probability that these two events will happen, will be the product of the two fractions.

For the application of the doctrine of chances to gaming, see Gaming.

M. Placeotte observes, that the antient sors, a kind of lottery, or chance, was instituted by God himself, there being in the old testament several standing laws and express commands for its use, on certain occasions: hence arose the *fortes functorum*, or method of determining things among the antient christians, by opening some of the sacred books, and pitching on the first verse they call their eye on, as a sure prognostic of what was to happen. The *fortes homaticae, virgilianae, praenostans*, &c. used by the heathens, were with the same view, and much in the same manner.

Many among the modern divines, hold chance to be conducted in a particular manner by providence, and esteem it an extraordinary way which God uses to declare his will, and a kind of immediate revelation. On this foundation it is, that they condemn all manner of lotteries and gaming, which are also blameable in a political view.

*Chance-medley,* in law, is the accidental killing of a man, not altogether without the killer’s fault, tho’ without any evil intention; and is where one is doing a lawful act, and a person is killed thereby: for, if the act be unlawful, it is felony.

The difference betwixt chance-medley and manslaughter is this: if a person cast a stone, which happens to hit one, and he dies; or if a workman, in throwing down rubbish from a house, after warning to take care, kill a person, it is chance-medley and misadventure: but if a person throws stones on the highway, where people usually pass; or a workman throws down rubbish from a house in cities and towns where people are continually passing; or if a man whips his horse in the street, to make him gallop, and the horse runs over a child and kills it, it is manslaughter: but if another whips the horse, it is manslaughter in him, and chance-medley in the rider. In chance-medley the offender forfeits his goods, but has a pardon of course.

*Chancel,* a particular part of the fabric of a christian church; or that part of the choir between the altar and the balustrade that incloses it, where the minister is placed at the celebration of the communion.

*Chancel,* among us, is also the rector’s freehold and part of his glebe, and therefore he is obliged to repair it; but where the rectory is improper, the improper must do it.

*Chancellor,* an officer supposed originally to have been a notary or scribe under the emperors, and named cancellarius, because he sat behind a lattice, called in latin *cancellus*, to avoid being crowded by the people.

According to a late treatise, the chancellor originally presided over a political college of secretaries, for the writing of treaties, and other public business; and the court of equity, under the old constitution, was held before the king and his council, in the palace, where one supreme court for business of every kind was kept. At first the chancellor became a judge, to hear and determine petitions.
to the king, which were preferred to him; and in the end, as business increased, the people addressed their suit to the chancellor, and not to the king; and thus the chancellor's equitable power, by degrees, commenced by prescription.

Lord high CHANCELLOR of Great-Britain, or lord keeper of the great seal, is the highest honour of the long robe, being made fo per traditionem "magnum filii," per dominum regem, and by taking the oaths: he is the first person of the realm next after the king, and princes of the blood, in all civil affairs; and is the chief administrator of justice, next the sovereign, being the judge of the court of chancery.

All other justices are tied to the strict rules of the law in their judgment; but the chancellor is invested with the king's absolute power, to moderate the written law, governing his judgment purely by the law of nature and conscience, and ordering all things according to equity and justice. In this respect Staunton says, the chancellor has two powers, one absolute, the other ordinary: meaning, that although by his ordinary power, in some cases, he must observe the forms of proceedings, as other inferior judges; yet in his absolute power, he is not limited by the law, but by conscience and equity.

The lord chancellor not only keeps the king's great seal; but also all patents, commissions, warrants, &c. from the king, are, before they are signed, perused by him: he has the disposition of all ecclesiastical benefices in the gift of the crown under sol. a year, in the king's books; and he is speaker of the house of lords. See the article PARLIAMENT.

CHANCELLOR of a cathedral, an officer that hears lessons and lectures read in the church, either by himself or his vicar; to correct and set right the reader when he reads amiss; to inspect schools; to hear causes; apply the seal, write and dispatch the letters of the chapter; keep the books; take care that there be frequent preachings, both in the church and out of it; and assign the office of preaching to whom he pleases.

CHANCELLOR of a diocese, a lay officer under a bishop, who is judge of his court. See the article BISHOP's-court.

CHANCELLOR of the dutchy of Lancaster, an officer appointed chiefly to determine controverses between the king and his tenants of the dutchy-land, and otherwise to direct all the king's affairs belonging to that court. See DUTCHY-court.

CHANCELLOR of the exchequer, an officer who presides in that court, and takes care of the interest of the crown. He is always in commission with the lord treasurer, for the letting of crown-lands, &c. and has power, with others, to compound for forfeitures of lands, upon penal statutes: he has also great authority in managing the royal revenues, and in matters relating to the first fruits.

CHANCELLOR of the order of the garter, and other military orders, is an officer who seals the commissions and mandates of the chapter and assembly of the knights, keeps the register of their proceedings, and delivers acts thereof under the seal of their order.

CHANCELLOR of an university, is he who seals the diplomas, or letters of degrees, provision, &c. given in the university.

The chancellor of Oxford is usually one of the prime nobility, chosen by the students themselves in convocation. He is their chief magistrate; his office is durante vita, to govern the university, preserve and defend its rights and privileges, convok the assemblies, and do justice among the members under his jurisdiction.

Under the chancellor is the vice-chancellor, who is chosen annually, being nominated by the chancellor, and elected by the university in convocation: he is always the head of some college, and in holy orders. His proper office is to execute the chancellor's power, to govern the university according to her statutes, to see that officers and students do their duty, that courts be duly called, &c. When he enters upon his office, he chooses four pro-vice-chancellors out of the heads of the colleges, to execute his power in his absence.

The chancellor of Cambridge is also usually one of the prime nobility, and in most respects the same as that in Oxford, only he does not hold his office durante vita, but may be elected every three years.

Under the chancellor there is a com-military, who holds a court of record for all privileged persons and scholars under the degree of master of arts, where all causes are tried and determined by the civil and statute-law, and by the customs of the university.

The vice-chancellor of Cambridge is
CHANCE [538]  

chose annually, by the senate, out of two persons nominated by the heads of the several colleges and hall.

CHANCERY, the grand court of equity and conscience, instituted to moderate the rigour of the other courts that are bound to the strict letter of the law.

The jurisdiction of this court is of two kinds, ordinary or legal, and extraordinary or absolute. The ordinary jurisdiction is that wherein the lord chancellor, who is judge of this court, in his proceedings and judgment, is bound to observe the order and method of the common law; in such cases the proceedings, which were formerly in Latin, but now in English, are filled or enrolled in the petty-bag-office; and the extraordinary, or unlimited power, is that jurisdiction which the court exercises in cases of equity, wherein relief is to be had by bill and answer.

The ordinary court holds plea of recognizances acknowledged in the chancery, writs of scire facias for repeal of the king's letters patent, &c. also of all personal actions, by or against any officer of the court, and of several offences and causes by act of parliament; all original writs, commissions of bankrupts, of charitable uses, of idiots, lunacy, &c. are instituted hence.

The extraordinary court gives relief for and against infants, notwithstanding their minority; for and against married women, notwithstanding their coverture. All frauds and deceits, for which there is no redress at common law, all breaches of trust, confidences and accidents, as to relieve obligors, mortgagors, &c. against penalties and forfeitures, where the intention was to pay the debt, are here remedied. But in all cases where the plaintiff can have his remedy at law, he ought not to be relieved in chancery; and a thing which may be tried by a jury, is not triable in this court.

The court of chancery will not retain a suit for any thing under ten pounds value, except in cases of charity, nor for lands, &c. under forty shillings per annum. In this court all patents, most sorts of commissions, deeds between parties touching lands and estates, treaties with foreign princes, &c. are sealed and enrolled. Out of it are instituted writs to convene the parliament and convocation, proclamations and charters, &c. For the several officers belonging to the court of chancery, see the articles Master of the rolls, Masters in chancery, Clerk, &c.

Apostolic Chancery, a court in the church of Rome, belonging to the pope.

The pope's datory and chancery courts were formerly one and the same thing: but the multitude of affairs to be transacted therein, obliged him to divide it into two tribunals, which are so nearly related to one another, that the chancery does no more than dispatch all that has passed through the datory court. See the article Datory court.

The officers belonging to this court, are the regent, prelates, and regissiers. There are also six matters in chancery, whose business it is to collect the bulls: each of these employments is purchased for six thousand crowns. These are subordinate to the master of the rolls, who keeps the regissiers of the bulls.

CHANCER, in surgery. See the articles Shankaer and Ulcer.

CHANDLER, in fortification, a kind of moveable parapet, consisting of a wooden frame, made of two upright stakes, about six feet high, with cross planks between them; serving to support facies to cover the pioneers.

The chandeliers differ from blinds only in this, that the former cover the men only before, whereas the latter cover them also above.

They are used in approaches, galleries and mines, to hinder the workmen from being driven from their stations.

CHAN, χαν, in ichthyology, the same with channa. See the article CHANA.

CHANDEL, or CHANNEL. See CHANNEL.

CHANFRAIN-BLANC, in the mange.

See the articles STAR, or BLAZE.

CHANFRIN, in the mange, the fore-part of a horse's head, extending from under the ears along the interval between the eye-brows down to his nose.

CHANGE, in the mange. To change a horse, or change hand, is to turn or bear the horse's head from one hand to the other, from the right to the left, or from the left to the right.

You should never change your horse without pushing him forward upon the turn, and after the turn, push him on straight, in order to a stop.

CHANGE of feed, in husbandry, the sowing a field or spot of ground first with one kind of seed, then another, and then a third kind.

This
Changes of objects, among zoologists. See the article transformation.

Changes of quantities, numbers, &c. in arithmetic, the same with what is otherwise called permutation. See the article permutation.

Change, or exchange, in matters of commerce. See the article exchange.

Channel, in architecture, that part of the ionic capital which is under the abacus, and lies open upon the echinus or the border, and lies open upon the echinus or the bed of a river. See the article canal.

Channel of the mouth of a horse, that concavity in the middle of the lower jaw, appointed for a place to the tongue; which being bounded on each side by the bars, terminates in the grinders. It should be large enough not to be pressed with the bit mouth.

Channel, in anatomy. See canal.

Channelings, in architecture. See the article flutings.

Chant; cantus, a term particularly used for vocal church-music.

In ecclesiastical history we find mention made of divers kinds of chants, as, 1. The ambrosian, established by St. Ambrose. See the article ambrosian office.

2. The gregorian chant, called also the roman chant; which is still retained in churches under the name of plain song; for in this, the choir and people sing in union.

Chantilly, a village in France, about seven leagues from Paris, where there is a magnificent palace and fine forest belonging to the duke of Bourbon.

Chantlor, a finger in the choir of a cathedral. The word is almost grown obsolete, choirilot or fingering-man being commonly used instead of it.

All great chapters have chantors and chaplains to assist the canons, and officiate in their absence.

Chantor is used by way of excellence for the precentor or master of the choir, which is one of the first dignities of the chapter. At St. David's in Wales, where there is no dean, he is next in dignity to the bishop. The antients called the chantor primus cantorum. To him belonged the direction of the deacons, and other inferior officers.

Chantors in the temple of Jerusalem, were a number of levites employed in singing the praises of God, and playing upon instruments before his altar. They had no habits distinct from the rest of the people; yet in the ceremony of removing the ark to Solomon's temple, the chantors appeared dressed in tunics of byssus or fine linen. 2 Chron. v. 12.

Chantry, or chauntrey, a church or chapel, endowed with lands, &c. for the maintenance of one or more priests to say masses for the souls of the donors. Hence, chantry-rents, are rents still paid to the crown by the purchasers of those lands.

Chaology, denotes the history or description of the chaos.

It is most probable that Moses was the first chaologist, and that the greek and latin philosophers extracted their fabulous representation of the chaos, from the true history of the creation of the world in the first book of Genesis. Orpheus and Hefiod among the Greeks, and Ovid among the Latins, have given most beautiful descriptions of the chaos; the last mentioned coincides pretty nearly with the account given by Moses.

We have likewise a chaology by Dr. Burnet, in his theory of the earth. See the next article.

Chaos, that confusion in which matter lay when newly produced out of nothing at the beginning of the world, before God, by his almighty word, had put it into the order and condition wherein it was after the six days creation.
The antient poets, and Ovid in particular, represent the chaos thus: that there was neither sun to make any day, nor moon to enlighten the night; that the earth was not yet hung in the circumambient air, nor the sea bounded by any shore; but that earth, air, and water, were one undigested mass; consequently, that the earth was not hardened to its proper element, the water was un navigable, the air gross and not enlightened; and, in short, there was nothing in the universe that had put on its proper form.

All the antient sophists, sages, &c. hold that chaos was the first principle; the poets make him a god, who was the father of all the other gods. Among the moderns, Dr. Burnet represents the chaos, out of which the world was framed, to be at first intire, undivided, and universally rude and deformed; then shews how it came divided into its respective regions, and observes, that, excepting Aristotle, and a few others, who asserted that the world was always, from eternity, of the same form and structure as at present, it has been a prevailing opinion in all ages, that what we call the terrestrial globe, was originally an undigested mass of heterogeneous matter called chaos, and no more than the rudiments and materials of the present world. According to Mr. Whiston, the antient chaos, or origin of our earth, was the atmosphere of a comet; so that every planet with him is a comet, formed into a lasting condition; and a comet is a chaos or planet, uniformed in its primeval state.

Chaos, in the old italic version of Luke, cap. xvi. v. 26. is the space between heaven and hell, which the evangelist calls ἡφασπορα, a gulph or abyss.

Chapel, among zoologists, denotes either of the mandibles of a bird's beak, which are distinguished by the epithets upper and lower. See Beak.

Chapel, among scabbard-makers, denotes the metallic plate fixed on the end of a scabbard, to prevent the point of the sword from piercing through it.

Chape, among sartorium, signifies the tip of a fox's brush. See the article Brush.

Chapeau, in heraldry, an antient cap of dignity worn by dukes, being scarlet-coloured velvet on the outside, and lined with fur.

It is frequently borne above an helmet instead of a wreath, under gentlemen's crests.

Chapel, or Chapel, a place of divine worship, served by an incumbent under the denomination of a chaplain.

In England there are several sorts, 1. Parochial chapels, which, differing from parish churches only in the name, are, generally small, as the inhabitants within the district are few. If there be a presentation ad ecclesiam instead of ad capellam, and an admission and institution upon it, it is no longer a chapel, but a church. 2. Chapels which adjoin to and are part of the church: such were formerly built by honourable persons, as burying places for themselves and their families. 3. Chapels of ease, built in very large parishes for the convenience of such as cannot repair to the parish church. These are served by inferior curates provided at the charge of the rector, and consequently removable at his pleasure. Chapels of ease, however, may be parochial, and have a right to sacraments and burials, and to a distinct minister by custom, tho' subject in some respects to the mother-church. In some places they are endowed with lands or tythes, and in other places supported by voluntary contributions. 4. Free chapels, such as were founded by the kings of England, free from all episcopal jurisdiction, and to be visited only by the founder and his successors: the visitation is made by the lord chancellor. The king likewise may license any subject to build and endow a chapel, and by letters patent, exempt it from the visitation of the ordinary. 5. Chapels in universitites belonging to particular colleges, which, tho' consecrated, and tho' sacraments are administered there, are not liable to the visitation of the bishop. 6. Domestic chapels, built by gentlemen for the private service of God in their own families. These may be erected without the leave of the bishop, and need not be consecrated, tho' they were antiently: they are not subject to the visitation of the ordinary.

Chapel is also a name given to a printer's work-house, in which 'sene they lay, the laws of the chapel, the secrets of the chapel.

Knights of the Chapel, called also poor knights of Windsor, were instituted by Henry VIII., in his testament. Their number was at first thirteen, but has been since augmented to twenty-six. They assist in the funeral services of the kings of England: they are subject to the office of the canons of Windsor, and live on pensions assigned them by the order of
the garter. They bear a blue or red cloak, with the arms of St. George on the left shoulder.

CHAPELET; in the manage, a couple of stirrup-leathers, mounted each of them with a stirrup, and joined at top in a fort of leather buckle, called the head of the chapelet, by which they are made fast to the pummel of the saddle, after being adjusted to the rider’s length and bore. They are used both to avoid the trouble of taking up or letting down the stirrups, every time that the gentleman mounts on a different horse and saddle, and to supply the place of the academy saddles, which have no stirrups to them.

CHAPELRY, the precinct belonging to a chapel, in contradistinction from a parish, or that belonging to a church. See the article PARISH.

CHAPERON, a covering for the head, formerly worn both by men and women. Hence it became the name of those little shields containing death’s heads, and other funeral devices, placed upon the foreheads of horses that drew hearses at pompous funerals. The chaperon is now the badge of a doctor or licentiate in divinity, law, or physic, in France, and worn by them on the left arm, being of the same form with that which in antient days was worn on the head.

CHAPERON is likewise the name that distinguished two factions in France. The first arose in the reign of king John in 1358, and the second under Charles VI. in 1413.

CHAPERON of a bit mouth, signifies the end of the bit that joins to the branch just by the banquet. In latch mouths, the chaperon is round, in others it is oval.

CHAPETONS, chapetones, a name given by the Spaniards to the European inhabitants of America, in contradistinction from the creols, or thofe born there.

CHAPTERS, in architecture, the same with capitals. See the article CAPITAL.

CHAPTERS, in law, formerly signified a summary of such matters as were inquired of, or presented before justices in eye, justices of affize or of the peace, in their seffions. Chapilas, at this time, denote such articles as are delivered by the mouth of the justice in his charge to the inquest. Bradton and Breton say, that they were, after in exhortation from the justices, first read in open court, and then delivered in writing to the grand inquest, who were to answer upon oath to all the particular articles. In some courts-leet in several parts of England, it is usual for the stewards to deliver their charge in writing to the juries sworn to inquire of offenses.

CHAPLAIN, an ecclesiastic who officiates in a chapel. See the article CHAPEL.

The king of Great-Britain hath forty-eight chaplains in ordinary, usually eminent doctors in divinity, who wait four each month, preach in the chapel, read the service to the family, and to the king in his private oratory, and say grace in the absence of the clerk of the closet. Belide, there are twenty-four chaplains at White-hall, fellows of Oxford or Cambridge, who preach in their turns, and are allowed 30l. per annum each. According to a statute of Henry VIII. the persons vested with a power of retaining chaplains, together with the number each is allowed to qualify, is as follows: An archbishop, eight; a duke or bishop, fix; marquises or earl, five; viscounts, four; Baron, knight of the garter, or lord-chancellor, three; a dutchess, mar- chionefs, countefs, baronne, the treafurer and comptroller of the king’s house, clerk of the closet, the king’s secretary, dean of the chapel, almoner and master of the rolls, each of them two; chief justice of the king’s bench, and warden of the cinque ports, each one. All thefe chaplains may purchase a licence or dification, and take two benefices with cure of souls. A chaplain must be retained by letters testimonial under hand and seal; for it is not sufficient that he serve as chaplain in the family.

CHAPLAINS of the pope, are the auditors or judges of caufes in the sacred palace. They were originally as many as the pope pleased to munfer, but Sixtus IV. reduced their number to twelve. It is from their decrees that the body of decrets is formed.

CHAPLAIN of the order of Malta, otherwise called diaco, and clerk conventual, the second class of the order of Malta. The knights make the first rank.

CHAPLET, a string of beads used by the roman catholics to count the number of their prayers. The invention of it is ascribed to Peter the hermit, who probably learned it of the Turks, as they owe it to the East-Indians. Chaplets are sometimes called paternosters, and are made of coral, of diamonds, of wood, &c. The common chaplet contains fifty ave-marias, and five
five pater-noTers. There is also a chap-
let of our Saviour, consisting of thirty-
three beads, in honour of his thirty-three
years living on earth, instituted by fa-
ter Michael the Camaldulian. Dan-
dini observes, that the mahometan-chap-
lets differ from those of the roman catho-
lics, in that they are all of the same big-
ness, and have not. that distinction into
decades, tho' they consist of sixty beads.
The devotees of the sect of Fō in China,
always wear a chaplet about their necks,
and round their arms, consisting of 100
middle sized beads, and eight consider-
ably larger; and all the while they are
rumbling over these beads, they repeat
na-mo-0 mi-to-fo. See Rosary.

CHAPLET, in architecture, a small orna-
ment carved into round beads, pearls,
olives, and pater-noTers, as is frequent-
dly done in baguettes. See Baguette.

CHAPPAR, a courier of the king of Persia,
who carries dispatches between the court
and the provinces. When he fets out,
the master of the horse furnishes him with
a single horse, and when that is weary,
he dismounts the first horseman he meets,
and takes his horse. There is no pardon
for a traveller that should refuse to let a
chappar have his horse, nor for any other
that should deny him the belt horse of his
fable.

CHAPPE', in heraldry, the dividing an
escutcheon by lines drawn from the cen-
ter of the upper edge to the angles be-
low, into three parts, the sections on the
fides being of a different metal or colour
from the rest.

CHAPPEL, or CHAPEL. See Chapel.

CHAPPEL in FRITH, a market-town of
Derbyshire, about twenty-six miles north-
west of Derby: weft long. 1° 50', north
lat. 53° 22' .

CHAPTER, capitulum, in ecclesiastical
policy, a society or community of clergy-
men belonging to cathedrals and col-
legiate churches.

It was in the eighth century that the
body of canons began to be called a
chapter. The chapter of the canons of
a cathedral, were a standing council to
the bishop, and during the vacancy of
the fee, had the jurisdiction of the dio-
cese. In the earlier ages, the bishop was
head of the chapter; afterwards abbots
and other dignitaries, as deans, provosts,
treasurers, &c. were preferred to this
distinction. The deans and chapters
had the privilege of choosing the bishops
in England, but Henry VIII. got this
power vested in the crown: and as the
same prince expelled the monks from the
cathedrals, and placed secular canons in
their room, those he thus regulated were
called deans and chapters of the new
foundation: such are Canterbury, Win-
chester, Ely, Carlisle, &c.

CHAPTER, is also applied to assemblies held
by religious and military orders for regu-
lating their affairs, and also to the hall
where such assemblies are convened. In
monasteries, the chapter is usually in the
middle of the cloisters.

CHAPTER, in matters of literature, a di-
vision in a book, for keeping the subject
treated of more clear and distinct. St.
Augufile compares them to innis, inact-
much as they refresh the reader as the
traveller.

The three Chapters, a famous phrase in
ecclesiastical history, signifying a volume
by Theodoret, an adherent of Nestorius,
against St. Cyril. These chapters con-
stitute a letter of Ibas, priest of Edessa,
to Maris bishop of Peria; of extracts
from the works of Diodorus of Tarfus,
and Theodore of Mopfaelia, wherein the
same doctrines were taught that were
contended for by Nestorius; and of two
pieces of Theodoret, the one against the
council of Ephesus, the other against the
anathemas of St. Cyril. The three chap-
ters have been condemned by various
councils, and many popes.

CHAPTREL, in architecture, the same
with impolt. See the article Impost.

CHAR, or CHARRE, in ichthology. See
the article Charre.

CHARA, in botany, a genus of plants be-
 longing to the class of the cryptogamia-
algae, without either flower-petals, or
paricarpium, having a single ovato-ob-
long seed. Vaillant distinguishes nine
species of the chara, but there are no
medicinal virtues ascribed to either of
them.

CHARABE, or CARABE, names some-
times used for the juice of the poplar-
tree, as also for amber. See the articles
Poplar-tree and Amber.

CABON, a sea-port-town on the nor-
thern coast of the island of Java, in the
indian ocean, situated 300 miles east of
Batavia: east long. 108°, south lat. 6°.

CHARACTER, χαρακτης, in a general
sense, denotes any mark whatever, serving
to represent either things or ideas; thus
letters are characters, types, or marks of
certain sounds; words, of ideas, &c.
See the article Letter, &c.
Characters are of infinite advantage in almost all sciences, for conveying, in the most concise and expressive manner, an author's meaning: however, such a multiplicity of them, as we find used by different nations, must be allowed to be a very considerable obstacle to the improvement of knowledge; several authors have therefore attempted to establish characters that should be universal, and which each nation might read in their own language, and, consequently, which should be real, not nominal or arbitrary, but expressive of things themselves; thus, the universal character for a horse, would be read by an Englishman borne, by a Frenchman cheval, by the Latinas equus, by the Greeks ἅρ ν, &c.

The first who made any attempts for an universal character in Europe, were bishop Wilkins and Dalgarne: Mr. Leibnitz also turned his thoughts that way; and Mr. Lodwic, in the Philosophical Transactions, gives a plan of an universal character, which was to contain an enumeration of all such single sounds as are used in any language. The advantages he proposed to derive from this character were, that people would be enabled to pronounce truly and readily any language that should be pronounced in their hearing; and lastly, that this character would serve as a standard to perpetuate the bounds of every language whatsoever.

In the Journal Litteraire of 1750, there is a project for an universal character, by means of the common arabic or numeral figures: the combinations of these nine, says the author, is sufficient to express distinctly, an incredible quantity of numbers, much more than we shall need terms to signify our actions, goods, evils, duties, passions, &c. and the arabic figures having already all the universality required, the trouble is already saved of framing and learning any new character. But here the difficulty is not so great to invent the most simple, easy, and convenient characters, as to engage different nations to use these characters.

Literal characters may be divided, with respect to the nations among whom they have been invented, into greek characters, roman characters, hebrew characters, &c.

The Latin character, now used through all Europe, was formed from the greek, as the greek was from the phoenician, and the phoenician, as well as the chaldee, syriac, and arabic characters, were formed from the ancient hebrew, which subsisted till the babylonish captivity; for after that event, the character of the AlSyrians, which is the square hebrew now in use, prevailed, the antient being only found on some hebrew medals, commonly called sarranian medals. It was in 1091 that the gothic characters, invented by Ulfilas were abolished, and the latin ones established in their room.

Medallists observe, that the greek character, consisting only of majuscule letters, has preferred its uniformity on all medals, as low as the time of Gallicenus; from that time it appears somewhat weaker and rounder: from the time of Confantine to Michael we find only latin characters; and after Michael the greek characters recommence; but from that time they begin to alter with the language, which was a mixture of greek and latin. The latin medals preserve both their character and language as low as the translation of the feast of the empire to Constantinople: towards the time of Decius the character began to lose its roundness and beauty; some time after it retrieved, and subsisted tolerably till the time of Justin, when it degenerated gradually into the gothic. The rounder, then, and better formed a character is, upon a medal, the fairer pretence it has to antiquity.

Character is also used, in several of the arts, for a symbol, contrived for the more concise and immediate conveyance of the knowledge of things. We shall here subjoin the principal of them.

Characters used in algebra and arithmetic.

\[ a, b, c, d, \&c. \]

The first letters of the alphabet, are the characters of given quantities; and \( x, y, z, \&c. \) the last letters, are the characters of quantities sought. See the article Algebra.

\[ m, n, r, s, t, \&c. \]

are characters of indeterminate exponents both of ratios and of powers: thus, \( x^m, y^n, z^r, \&c. \) denote undetermined powers of different kinds; \( m, n, r, \&c. \) different multiples or submultiples of the quantities \( x, y, z, \) according as \( m, n, r, \&c. \) are either whole numbers or fractions.

\( \pm \) is the sign of the real existence of the quantity it stands before, and is called an affirmative or positive sign. It is also the mark of addition, and is read plus, or more; thus, \( a + b, \) or \( 3 + 5, \) implies \( a \) is added to \( b, \) or \( 3 \) added to \( 5. \)
is the sign of negation or negative existence, shewing the quantity to which it is prefixed to be less than nothing. But between quantities it is the sign of subtraction, and is read \( \text{minus} \), or \( \ell \); thus, \( a - b \) or \( 8 - 4 \) implies \( b \) subtracted from \( a \), or \( 8 \) after \( 4 \) has been subtracted.

\( \equiv \) is the sign of equality, though Des Cartes and some others use this mark \( \equiv \); thus, \( a \equiv b \) signifies that \( a \) is equal to \( b \).

\( \text{Wo} \)lfius, and some others, use the mark \( \equiv \) for the identity of ratios.

\( \times \) is the sign of multiplication, shewing that the quantities on each side the same are to be multiplied by one another, as \( a \times b \) is to be read \( a \) multiplied into \( b \); \( 4 \times 8 \), the product of 4 multiplied into 8. Wolfius and others make the sign of multiplication a dot between the two factors; thus \( s \cdot 4 \) signifies the product of \( s \) and 4. In algebra the sign is commonly omitted, and the two quantities put together; thus \( b \cdot d \) expresses the product of \( b \) and \( d \). When one or both of the factors are compounded of several letters, they are distinguished by a line drawn over them; thus, the factor \( 5 - a + b \) into \( c \), is written \( (5a + b) - c \). Leibnitz, Wolfius, and others distinguish the compound factors by including them in a parenthesis thus \( (a + b - c) \).

\( \div \) is the sign of division; thus, \( a \div b \) denotes the quantity \( a \) to be divided by \( b \). In algebra the quotient is often expressed like a fraction, thus \( \frac{a}{b} \) denotes the quotient of \( a \) divided by \( b \). Wolfius makes the sign of division two dots; thus \( 12:4 \) denotes the quotient of 12 divided by 4 \( = 3 \). If either the divisor or dividend, or both, are composed of several letters, for example, \( a + b \div c \), instead of writing the quotient like a fraction, \( \frac{a + b}{c} \), Wolfius includes the compound quantities in a parenthesis, thus \( (a + b) \div c \).

\( \odot \) is the character of involution; \( \omega \) is the character of evolution.

\( \triangleright \) or \( \triangleleft \) are signs of majority; thus, \( a \triangleright b \) expresses that \( a \) is greater than \( b \).

\( \triangleleft \) or \( \triangleright \) are signs of minority; and when we would denote that \( a \) is less than \( b \), we write \( a \triangleleft b \), or \( a \triangleright b \).

\( \omega \) is the character of similitude used by Wolfius, Leibnitz, and others; it is used in other authors for the difference between two quantities while it is unknown which is the greater of the two.

\( : \) is the mark of geometrical proportion disjunct, and is usually placed between two pair of equal ratios, as \( 3:6::4:8 \), shows that \( 3 \) is to \( 6 \) as \( 4 \) is to \( 8 \).

\( \div \) the mark of geometrical proportion continued, implies the ratio to be still carried on without interruption, as \( 2, 4, 8, 16, 32, 64 \div \) are in the same uninterrupted proportion.

\( \sqrt[\chi]{\text{char}} \) is the character of radicality, and shows, according to the index of the power that is set over it, or after it, that the square, cube, or other root is extracted, or to be extracted; thus, \( \sqrt[16]{16} \) or \( \sqrt[2]{16} \) or \( \sqrt[3]{16} \), is the square root of 16. \( \frac{3}{a} \), the cube root of \( 25 \), &c. This character sometimes affects several quantities, distinguished by a line drawn over them thus, \( \sqrt[\chi]{\text{char}} \) denotes the sum of the square roots of \( b \) and \( d \). When any term, or terms, of an equation are wanting, they are generally supplied by one or more afterfins: thus in the equation \( \frac{y^2 + y + \frac{1}{2} b^2 + q}{\gamma} = c \), the term \( \pm q \) vanishing, is marked with an afterfin, as \( y^2 \pm \frac{1}{2} b^2 + q \).

Characters used in astronomy.

Characters of the planets.

\( \text{Saturn} \) \( \odot \) Sun \( \odot \) Moon
\( \text{Jupiter} \) \( \frown \) Venus \( \odot \) Earth
\( \text{Mars} \) \( \odot \) Mercury.

Of the signs.

\( \text{Aries} \) \( \odot \) Leo \( \frown \) Sagittarius
\( \text{Taurus} \) \( \frown \) Virgo \( \odot \) Capricornus
\( \text{Gemini} \) \( \odot \) Libra \( \frown \) Aquarius
\( \text{Cancer} \) \( \odot \) Scorpio \( \frown \) Pisces

Of the aspects.

\( \odot \) or S Conjunction \( \Delta \) Trine
\( \odot \) Semitextile \( \text{Bq} \) Biquintile
\( \text{* Sextile} \) \( \text{Vc} \) Quincunx
\( \text{Q. Quintile} \) \( \text{S} \) Opposition
\( \text{Q. Quartile} \) \( \text{Q} \) Dragon's head
\( \text{Td Trecdecile} \) \( \text{Q} \) Dragon's tail

Of time.

A. M. ante meridiem, before the sun comes upon the meridian.
O. or N. noon.
P. M. post meridiem, when the sun is past the meridian.

Characters in commerce.

\( \text{D}^\circ \) ditto, the same \( \text{R}^\circ \) recto \( \frown \) verso \( \frown \) folio
\( \text{N}^\circ \) numero, or number \( \text{V}^\circ \) vero \( \frown \) her
\( \text{F}^\circ \) folio, or page

\( \text{C} \) or
CHARACTERS

in chemistry.

§ antimony

троа fortis

aqua regia

Malheunmaria

calx viva

caput mortuum

venus, copper

common salt

c. distillation

c. sober gold

CC hart's horn

CC hart's horn calcined

c. mars, iron

...-

There are many more characters in chemistry, but these are the most usual.

CHARACTERS in geometry and trigonometry.

The character V equiangular, or of parallelogram similar

square

rectangle

circle

* denotes a degree; thus 45° implies 45 degrees. °, ′, ″, ″″, denote seconds, thirds, and fourths: and the same characters are used where the progressions are by tens, as it is here by fixties.

CHARACTERS in grammar, rhetoric, poetry, &c.

() parenthesis

[ ] crochet

\( \text{V. D. M.} \) minister

\( \text{V. D. M.} \) minister

emphatic or accent

breve

dialexis

caret and circumflex

quotation

† and * references

§ section or division

|| character of a

large

a long

a breve

a ferm breve

\( \frac{1}{2} \) character of a sharp note; this character at the beginning of a line, or space, denotes that all the notes in that line are to be taken a semitone higher than in the natural series; and the same afflicts all the octaves above or below, though not marked: but when prefixed to any particular note, it shews that note alone is to be taken a semitone higher than it would be without such character.

b or \( \beta \) character of a flat note: this is the contrary to the other above, that is, a semitone lower.

\( \frac{1}{4} \) character of a natural note: when in a line or series of artificial notes, marked at
Numbers in Roman letters, are either letters or figures. The Arabic character, called also the common one, because it is used almost throughout Europe in all sorts of calculations, consists of these ten digits, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0.


The I repeated twice makes two, II; thrice, III; four is expressed thus IV, as I before V or X takes an unit from the number expressed by these letters. To express six an I is added to a V, VI; for seven, two, VII; and for eight, three, VIII: nine is expressed by an I before X, thus IX.

The same remark may be made of the X before L or C, except that the diminution is by tens; thus, XL denotes forty, XC ninety, and LX sixty. The C before D or M diminishes each by a hundred. The number five hundred is sometimes expressed by an I before a C inverted, thus, IO; and instead of M, which signifies a thousand, an I is sometimes used between two Cs, the one direct, and the other inverted, thus CI0. The addition of C and O before or after, raises CI0 by tens, thus, CCIOC expresses ten thousand, CCCIOCC, a hundred thousand. The Romans also expressed any number of thousands by a line drawn over any numeral less than a thousand; thus, V denotes five thousand, LX sixty thousand: so likewise M is one million, MM is two millions, &c.

Some modern writers have admitted variations in this method of notation; thus we find IXIX expressing eight, IICIX eighty-nine, A or V denoting IIOC, and ∞ or a flaming for CI0; whence X ten thousand, ΨΨ twenty thousand.

The Greeks had three ways of expressing numbers; first, every letter according to its place in the alphabet, denoted a number, from α, one, to ω, twenty-four. 2. The alphabet was divided into eight units, α one, β two, γ three, &c. into eight tens, τ ten, χ twenty, λ thirty, &c. and eight hundreds, ι one hundred, υ two hundred, ι three hundred, &c. 3. I flood for one, π (πιον) five, Δ (δς) ten, Η (ηικος) a hundred, Χ (χικας) a thousand, Μ (μιας) ten thousand, and when the letter Π included any of these, except I, it showed the inclosed letter to be five times its value; as Μ👦 fifty, Μlify five hundred, Μθ five thousand, Μγ fifty thousand.

The Hebrew numerals consisted of their alphabet divided into nine units; thus, א one, ב two, &c. nine tens; thus, ד ten, ט twenty, &c. nine hundreds; thus, פ one hundred, ג two hundred, &c. and ש five hundred, ס six hundred, פ seven hundred, ק eight hundred, ו nine hundred. They expressed thousands by the word ק, with the other numerals prefixed to signify the number of thousands; thus, וק two thousand, וקנ three thousand, &c.
CHARACTER, in epic and dramatic poetry, the quality in Achilles is wrath, in Ulysses, in Aeneas, whose mildness is employed in a submision to the will of the gods. In the making up of which union, it is to be observed, the poets have joined together such qualities as are by nature the most compatible, valour with anger, piety with mildness, and prudence with dissimulation. The fable required prudence in Ulysses, and piety in Aeneas; in this, therefore, the poets were not left to their choice: but Homer might have made Achilles a coward, without abating any thing from the jufhnefs of his fable; fo that it was the neceffity of adorning his character that obliged him to make him valiant: the character, then, of a hero in the epic poem is compounded of three forts of qualities: the first elfential to the fable; the fecond embellifhments of the firt; and value, which furtains the other two, makes the third.

Unity of character is as neceffary as the unity of the fable; for this purpofe a perfon fhould be the fame from the begining to the end; not that he is always to betray the fame sentiments or one paflion, but that he fhould never fpeak nor act inconfiftently with his fundamental character. For inftance, the weak may sometimes fallly into a warmth; and the breath of the paflionate be calm; a change, which often introduces in the drama a very affecting variety: but if the natural disposition of the former was to be repreffed as boifterous, and that of the latter mild and soft, they would both act out of character, and contradic their perfonfs.

True characters are fuch as we truly and really fee in men, or may exift without any contradicfion to nature: no man questions but there have been men as generous and as good as Aeneas, as paffionate and as violent as Achilles, as prudent and wise as Ulysses, as impious and atheitical as Mezentius, and as amorous and paflionate as Dido: all these characters, therefore, are true, and nothing but juft imitations of nature. On the contrary, a character is falfe, when an author fo feigns it, that one can fee nothing like it in the order of nature, wherein he defigns it fhall fand: these characters fhould be wholly excluded from a poem, because tranfgreffing the bounds of probability and reafon, they meet with no belief from the readers. They are fictions of the p. et's brain, not imitations of nature; and yet all poetry elfentially confifes in an imitation of nature.

Character is alfo used by divines, espefially thofe of the romifh church, for an indelible mark which the sacraments of baptism, confirnation, and ordination leave behind them, in thofe who receive them. Dr. Forbes, in Irenic. lib. ii. cap. 11. explains the fenfe of the antients touching the indelible character in a man that is deposed, by which he is distinguished from other laymen: but to make this differentiation, it is not neceffary, there fhould be any form impressed, but a tranfient act, that is long ago past, is sufficient. viz. that he was once a perfon ordained. The character that remains in a deposed perfon is not the character of any prifent 4 A x office
CHARACTERISTIC, in a general sense, a peculiar mark, or character, whereby a person or thing is distinguished from all others.

Grammarians use the term characteristic, in a more limited sense, for the principal letter of a verb, preferred through all its moods and tenses, derivatives and compounds: such as the letter w in the word brew.

CHARADRIUS, in ornithology, a genus of birds of the order of the leisolopaces, the characters of which are these: the beak is short, of a cylindrical or rounded shape, and obtuse at the extremity; and there are only three toes on each foot, which are connected together.

To this genus belong, 1. The plover variegated with black and yellow. 2. The green plover. 3. The morinellus of authors. 4. The hiaticula, or sea-lark. 5. The lahul, or lapland-plover, with a reddish-brown belly, the upper part of the head blackish, and the neck, back, wings, and tail grey, variegated with spots of red.

CHARAG, the tribute which the christians and Jews pay to the grand signior. It is generally a pittance a head, and sometimes four crowns. The christians who come to travel in Turky, pay it at the first town they arrive at: others begin to pay it at nine or sixteen years old; but women, priests, rabbins, and religious, are exempted.

CHARANTIA, in botany, the same with confmary, a species of tansey.

CHARAX, in ichthyology, the name by which several authors call the cyprinus, with twenty rays in the back-fin, and with the side-line straight.

CHARBON, in the manege, that little black spot or mark which remains after a large spot in the cavity of the corner teeth of a horse: about the seventh or eighth year, when the cavity fills up, the tooth being smooth and equal, it is said to be rafed.

CHARCAS, the southern division of Peru, in south America, remarkable for the silver-mines of Potosi.

CHARCOAL, a kind of fuel, consisting of half-burnt wood, much used by artificers of different professions; and that not only as fuel, but for polishing brass or copper plates, &c.

The best charcoal for common uses is that made of oak; but in the manufacture of gunpowder they commonly use charcoal made of alder. See GUNPOWDER.

CHARDS of artichokes, in gardening, the leaves of fair artichoke-plants, tied and wrapped up in straw all over, but the top, during the autumn and winter; this makes them grow white, and lose some of their bitterness.

CHARDS of beets, white beets covered over with dry dung, during the winter-season, when they produce large tops, with a downy cotton shoot, which is the true chard to be used in pottages, intermes, &c.

CHARENTON, the name of two towns in France, the one upon the Marmade, in the Bourbonois; the other in the Isle of France, near the confluence of the Marne with the Seine, about three miles south-east of Paris; east longitude 2° 30', and north latitude 48° 45'.

CHARGE, in gunnery, the quantity of gun-powder and ball, whereon a gun is loaded for execution. The rule for charging large pieces, in war, are, that the piece be first cleaned or scourd within hole; that the proper quantity of powder be next driven in, and rammed down; care however being taken, that the powder, in ramming, be not bruised, because that weakens its effect; that a little quantity of paper, hay, lint,
The chariots of the antients, chiefly used in war, were called by the several names bige, trige, &c. according to the number of horses applied to draw them. By this sort of martial machine may be understand either cart, coach, chariot, chariæ, or any other vehicle moving on wheels: these were not only contrived for service, but ornament, being richly embossed with gold and other metals, and likewise adorned with curious hangings. Every chariot carried two men, who were probably the warrior and the charioteer; and we read of several men of note and valour employed in driving the chariot. When the warriors came to encounter in close fight, they alighted out of the chariot, and fought on foot; but when they were weary, which often happened, by reason of their armour, they retired into their chariot, and thence annoyed their enemies with darts and missive weapons. These chariots were made so strong, that they lasted for several generations.

Besides this sort, we find frequent mention of the currus falcæt, or those chariots armed with hooks, or cycæthæ, with which whole ranks of soldiers were cut off together, if they had not the art of avoiding the danger; these were not only used by the Persians, Syrians, Egyptians, &c. but we find them among our British ancestors. The descriptions which the antients give us of these chariots, is much after the following manner: the beam to which the horses were fastened, was armed with pikes, having iron points to them, which projected forwards; the yokes of the horses had likewise two long points of three cubits; to the axle-tree were also fixed bow-sprits, armed at the extremities with cycæthæ, which tore every thing they met with to pieces: the driver's seat was a kind of little tower, made of very solid wood, raised high; the charioteer was armed all over, and covered with iron. These chariots were sometimes so large as to hold several men, well armed, who fought with darts and arrows.

Triumphal chariot was one of the principal ornaments of the roman celebration of a victorv. See Triumph. The roman triumphal chariot was generally made of ivory, round like a tower, or rather of a cylindrical figure; it was sometimes gilt at the top, and ornamented with crowns; and, to represent a victory more naturally, they used to stain it with blood. It was usually drawn by four
four white horses, but oftentimes by li-
on's, elephants, tygers, bears, leopards,
dogs, &c.

Sailing CHARIOT. Maurice of Nassau,
prince of Orange, who made a consider-
able figure in Holland against the Spa-
niards, had a chariot, which, instead of
horses, was driven by the wind.

CHARISIA, in heathen antiquity, a noctu-
arnal festival, kept in honour of the
graces, and consisting chiefly of dancing;
only that sweet-meats, called likewise
charitia, were distributed among those
present.

CHARISTIA, a festival of the antient
Romans, celebrated in the month of Fe-
bruary, wherein the relations by blood
and marriage met, in order to preferve
the like. The religious of
charity of
this hospital were by vow obliged to
of women,
dwindled, and at

ourfelves.

orderly
charity was the principal
which a council grants a bishop, upon
in the love of
the canon law, a moderate allowance
three grand
religious order in
supplying the neceffities of others,


CHARITYS-CHOICE.

charity of our lady, in church-history, a
religious order in France, which, though
charity was the principal motive of their
union, grew, in length of time, so dis-
orderly and irregular, that their order
dwindled, and at last became extinct.

There is still at Paris a religious order
of women, called nuns hospitalers of the
charity of our lady. The religious of
this hospital were by vow obliged to ad-
minister to the necessities of the poor and
the sick, but those only women,

CHAKITY of St. Hippolitus, a religious con-
gregation founded, about the end of the
XVIth century, by one Bernardin Alva-
rez, a Mexican, in honour of St. Hippo-
litus the martyr, patron of the city of
Mexico; and approved by pope Gre-
gory XIII.

CHARITYS-CHOICE, or CHAKING, the making
of charcoal. See CHARCOAL.

CHARLETAI, or CHARLETAN, an em-
piric, or quack, who retails his medicines
on a public stage, and draws the people
about him with his buffoonries, feats of
activity, &c. See the article EMPIRIC.

CHARLEMONT, a town of the province
of Namur, in the auffrian Netherlands,
about eighteen miles south of Namur:
east long. 4° 40'; and north lat. 50° 10'.

CHARLEMON'T is also the name of a town
of Ireland, situated on the river Black-
water, in the county of Armagh, and
province of Ulter, about six miles south-
east of Dungannon: west longitud. 6° 50',
and north lat. 50° 16'.

CHARLEROY, a strong town in the pro-
vince of Namur, in the auffrian Nether-
lands,
lands, situated on the river Sambre, about nineteen miles west of Namur: east longitude 4° 30', and north latitude 50° 30'.

CHARLE'S-CAPE, a promontory of Virginia, in north America, forming the northern head-land of the freights that enters the bay of Chesapeake.

CHARLES'S-CAPE is also the name of a head-land on the south west part of the freighting entering into Hudson's bay.

CHARLES'S FORT, a fortres in the county of Cork, and province of Munster, in Ireland, situated at the mouth of Kinsale-harbou: west longitude 8° 20', and north latitude 51° 21'.

CHARLES'S-TOWN, the capital of south Carolina, in north America, situated on a peninsula formed by Ashley and Cooper rivers, the former of which is navigable for ships twenty miles above the town: west lon. 79°, and north lat. 32° 30'.

CHARLES'S-WAIN, in astronomy, seven stars in the constellation called urfa major, or the great bear. See Ursa.

CHARLETON, an island at the bottom of Hudson's-bay, in north America, subject to Great Britain: west longitude 80°, and north latitude 52° 30'.

CHARLEVILLE, a town of Ireland, in the county of Cork, and province of Ulter, about thirty miles north of Cork; west lon. 8° 38', and north lat. 53° 13'.

CHARLEVILLE is also a town of Cham-paign, in France; about thirty-five miles north-west of Rheims: east long. 4° 35', and north lat. 45° 45'.

CHARLOCK, the English name of a plant called by botanists rapiftrum, or crambe. See the article CRAMBE.

Charlock is a very troublesome weed in corn-fields, where we find two species of it very common, viz. one with a yellow flower, and the other with a white one. To prevent its growth, the farmers mix horse-dung with their cow-dung used in manure, as the last is very apt to breed the charlock. When a field of barley is much infested with it, they mow it down in May, when in flower, taking care only to cut it so low as just to take off the tops of the leaves of the barley.

CHARM, a term derived from the Latin carmen, a verse, and used to denote a magic-power, or spell, by which, with the assistance of the devil, forcers and witches were supposed to do wonderful things, far surpassing the power of nature. These things are now sufficiently exploded. See the articles MAGIC; CARNE, AMULET, &c.

CHARNEL, or CHARNEL-HOUSE, a kind of porico, or gallery, usually in or near a church-yard, over which were antiently laid the bones of the dead, after the flesh was wholly consumed. Charnel-houses are now usually adjoining to the church.

CHARNUB, a name sometimes used for the filliqua dulcis, or carob-tree, called by Linneus ceratonia. See CERATONIA.

CHAROLLES, a town of Burgundy, in France, about thirty seven miles south-west of Chalrons on the Soon; east longitude 4° 6', and north lat. 46° 2'.

CHARRE, or GILT CHARRE, a trutta­ceous fish, called by many carpio, and reckoned by Araldi a species of salmon, less than a foot in length, with five rows of teeth in its palate.

Red CHARRE is likewise a species of sal­mon, called by authors umbila minor: it is much of the same size with the former, with the belly-fin red, and the under jaw a little longer than the upper one.

CHARRING. See CHARKING.

CHART, or SEA-CHART, an hydrographical map, or a projection of some parts of the earth's superficies in plane, for the use of navigators.

Charts differ very considerably from geographical or land maps, which are of no use in navigation. Nor are sea-charts all of the same kind, some being what we call plain-charts, others mercator-charts, and others globular charts.

Plain-CHART is a representation of some part of the superficies of the terraqueous globe, in which the meridians are supposed parallel to each other, the parallels of latitude at equal distances, and consequently the degrees of latitude and longitude every where equal to each other.

To construct a plain CHART, that shall contain from five degrees north, to five degrees south latitude; and from six degrees east, to six degrees west longitude. Draw the meridian A B (plate XL. fig. 5.) and divide it into as many equal parts as there are degrees of latitude, which in this case are ten: at right angles to the meridian A B, draw the lines A D and B C, which will represent the parallels of five degrees north and five south latitude; and let off in each the number of degrees it must contain, in this case twelve, of the same length with the degrees of latitude.

Through the several divisions of the right lines A D and B C draw right lines, which will represent so many meridians
Mercator's chart. Through the several divisions of the line AB, draw right lines parallel to AD, or AC, which will represent so many parallels of latitude. If you divide each of the right angles A, B, C, D, into eight equal parts, and draw lines from the angular points through the several divisions of the arches, they will represent the rumb-lines upon the chart, which are of use in finding the bearing of places from each other: but to avoid the confusion which attends a multiplicity of lines, the rumb-lines from but one angle are delineated. For the use of this chart, see the article Plain Sailing.

Mercator's Chart, is that where the meridians are straight lines parallel to each other, and equidistant; the parallels are also straight lines, and parallel to each other; but the distance between them increases from the equinoctial towards either pole, in the ratio of the tangent of the latitude to the radius.

If the superficies of the terrestrial globe be supposed to be taken off, and extended on a plane, so as to make the meridians parallel to each other, and the degrees of longitude every where equal, it is easy to conceive that it must be productive of most notorious errors; for an island in latitude 60°, where the radius of the parallel is only equal to one half of the radius of the equator, will have its length from east to west distorted in a double ratio to what it was on the globe; that is, its length from east to west, in comparison of its breadth from north to south, will be represented in a double proportion to what it really is: whence it follows, that in whatever proportion the degrees of any parallel are increased or diminished, by a projection in plano, the degrees of longitude ought to be increased or diminished in the same ratio; for otherwise the true bearings and distances of places will be lost, as in the case of the plain-chart, where the degrees of latitude and longitude are all equal.

The manner of constructing this projection. Let AB (plate XLI. fig. 1) be an arch of the equator, intercepted between any two meridians as AP, BP, meeting in P, the pole of the sphere, whose center is C. Upon the points A and B, erect the perpendiculars AH and BI, and let DE represent an arch of any parallel, contained between the same meridians. Draw CA and CB, KD and KE, perpendicular to PC; through D and E draw CF, CG, and join FG; lastly, let fall the perpendicular DL.

Now the arch of the equator AB is to the similar arch of the parallel DE, as AC is to DK, or as the radius to the co-fine of the latitude AD. Suppose now the meridians AP, BP, to be in part projected into the perpendiculars AH and BI, then will the arch DE be projected into the arch FG = AB; but in this case DE, the natural length of the arch, is to FG its projected length, as the radius CD to the fecant of the latitude CF, or as the co-fine LC to the radius CD; for as CF: AC = CD: DC: LC. Hence it follows that the degrees of latitude in Mercator's chart, increase in proportion of the secant of the latitude to the radius.

For the construction and uses of Mercator's chart, see Mercator's Sailing.

Globular Chart, a meridional projection, wherein the distance of the eye from the plane of the meridian, upon which the projection is made, is supposed to be equal to the sine of the angle of 45°. This projection comes the nearest of all to the nature of the globe, because the meridians therein are placed at equal distances; the parallels also are nearly equidistant, and consequently the several parts of the earth have their proper proportion of magnitude, distance and situation, nearly the same as on the globe itself.

Chorographic Charts, descriptions of particular countries. See CHOROGRAPHY.

Heliographic Charts, descriptions of the body of the sun, and of the maculae or spots observed in it. See HELIOGRAPHY.

Hydrographic Charts, sheets of large paper, wherein several parts of the land and sea are described, with their respective coasts, harbours, sounds, flats, rocks, shelves, sands, &c. together with the longitude and latitude of each place, and the points of the compass. See the article Sea Chart.

Selenographic Charts, particular descriptions of the spots, appearances, and ma-
A charter-party of affrightment, settles the agreement in relation to the freight of a ship and cargo, between the merchant and commander or master of the vessel. It binds the master to deliver the cargo in good condition at the place of discharge, &c.

In those charter-parties, if the dangers of the sea are excepted, it has been adjudged that such exception extends as well to any danger upon the sea from pirates or men of war, as to common dangers by shipwreck, tempests, &c.

The charter-party differs from a bill of loading, in that the first is for the entire freight or lading, and that for both going and returning; whereas the latter is only for a part of the freight, or at most only for the voyage one way.

The common law always confines charter-parties, as near as may be, according to the intention and design of them, and not according to the literal sense. And, if the master of a ship enters into a charter-party for himself and owners, the master in that case may release the freighters, without advising with the owners: though if the owners let out to freight such a ship, whereof A. B. is master, and he only covenants at the bottom, and subscribes his name, here his release will not bind or affect the owners of the ship; but their release, on the other hand, shall bind and include him. See freight.

CHARTIS REDDENDIS, in law, a writ that lies against a person, who having charters of yeomanry delivered to him to keep, afterwards refuses to deliver them.

CHARTOPHYLAX, a place where archives, records, &c. are preserved. See the next article.
CHARTREUSE, or CHARTREUSE GRAND, a celebrated monastery, the capital of all the convents of the Chartusian monks, situated on a steep rock in the middle of a large forest of fir-trees, about seven miles north-east of Grenoble, in the province of Dauphine, in France: east long. 5° 50', north lat. 45° 20'. See the article CARThUSIANS.

From this mother convent, all the others of the same order take their name; among which was the chartreuse of London, corruptly called the charter-house, now converted into an hospital, endowed with a revenue of 600l. per ann.

Here are maintained eighty decayed gentlemen, not under fifty years of age: also forty boys are educated and fitted either for the university or trade. Those sent to the university, have an exhibition of 20l. a year for eight years; and have an immediate title to nine church-livings in the gift of the governors of the hospital, who are sixteen in number, all persons of the first distinction, and take their turns in the nomination of penitents and scholars.

CHARTULARY, chartularius, an officer in the Latin church, answering to the chartophylax of the Greeks. See the article CHARTOPHYLAX.

CHARY, or CHIYIL. See the article CHERVIL.

CHARYBDIS, a rock in the strait of Messina, between Italy and Sicily, much celebrated in the writings of antient poets.

CHARYBDIS is also an appellation given by Dr. Plot to certain openings in the bottom of the sea, whereby the water is conveyed to the origin or sources of springs, rivers, &c. Such is Maelstrom, on the coast of Norway, supposed to be. See the article MAELSTROM.

CHASE, a great quantity of ground lying open and privileged for wild beasts and wild fowl. Such is Endfield-chase.

A chase differs from a forest, inasmuch as it may be in the hands of a subject, which a forest, in its proper nature cannot; and from a park, in that it is not inclosed, and hath more officers. A chase is not endowed like a forest with so many liberties, as the courts of attachment, lavainmore, and justice-leat; and cannot lawfully be made, without licence from the king under the broad seal.

CHASE in the sea-language, signifies the ship chased or pursued. See CHASING.

CHASE, to pursue a ship at sea.
priest puts over his alb, when he is about to say mass.

CHATE, a name sometimes given to the round-leaved Egyptian cucumber.

CHATELET, the name of certain courts of justice established in several cities in France. The grand chatelet at Paris, is the place where the prefidial or ordinary court of justice of the provost of Paris is kept; consisting of a prefidial, a civil chamber, a criminal chamber, and a chamber of policy. The little chatelet is an old fort, now serving as a prison.

CHATHAM, a port-town of Kent, adjoining to Rochester, situated on the river Medway, thirty miles south-east of London: east long. 40°, north lat. 51° 30'. It is the principal station of the royal navy, furnished with timber, rope-yards, and all manner of naval stores, sufficient for the building and fitting out the largest fleet.

CHATHAVER, in zoology. See the article CATUS-PARDUS.

CHATEAU-CAMBRESIS, a town of the Cambresis, in the French Netherlands, situated on the river Selle, thirteen miles south-east of Cambrai: east long. 5° 25', north lat. 50° 6'.

CHATEAU-DAUPHINE, a fortress situated on the frontiers of Piedmont, in the province of Dauphine, but yielded to the king of Sardinia: east long. 6° 40', north lat. 44° 30'.

CHATEAU-DUN, a town of France, twenty-five miles north-west of Orleans: east long. 1° 25', north lat. 48° 5'.

CHATEAU-ROUX, a town of Berri, in France, situated upon the Indre, about fifteen leagues from Bourges.

CHATEL-CHALONS, a town of France, in the province of Franche Comte, about twenty miles south of Dole: east long. 5° 35', north lat. 46° 5'.

CHATELERAUT, a town of France, in the province of Orléans, about sixteen miles north-east of Poitiers: east long. 35°, north lat. 46° 45'.

CHATELET, a town of the Low Countries, in the province of Namur, situated on the river Sambre, four miles east of Charleroi: east long. 4° 30', north lat. 50° 25'.

CHATELS, in law, all sorts of goods moveable and immoveable, except such as are in the nature of household.

Chatelets are reckoned either personal, or real. The former are such as do belong either immediately to the person of a man, as his horse, sword, &c. or such things as being injuriously held from him, a man hath no way to recover but by a personal action. See the article PERSONAL. The latter are such as do not immediately belong to the person of a man, but to some other thing, by way of dependance, as a box with charters of land, apples upon a tree, &c. or such things as necessarily issue out of some immovable thing to a person, as a lease or rent for years; also a hold at will.

CHATTIGAN, a port-town of India, in the province of Bengal, situated at the mouth of the Maffulah branch of the Ganges, subject to the mogul: east long. 91°, north lat. 23°.

CHATTILLON, a town of Burgundy, in France, about sixteen miles south-west of Geneva: east long. 5° 40', north lat. 46° 16'.

CHATTILLO is likewise the name of several other towns of France, situated upon the Indre, the Loing, the Loire, the Marne, the Saone, &c.

CHAVARIGHTS, a sect of Mahometans, opposite to that of the Schiites: they deny that God ever sent a prophet that was infallible, and who had a commiffion to give a law to mankind: they pretend likewise, that if such an office should ever become necessary, it would not be confined to a single family, but that every man of probity and virtue would be capable of that honour. See SCHIITES.

CHAUFE-WAX. See CHAFE-WAX.

CHAUH, or SHOUL, in geography. See the article SHOULE.

CHAUMONT, the name of two towns of France: the one situated in the ile of France, thirty miles north-west of Paris: east longitude 2°, north latitude 40° 18': the other situated on the river Marne, in the province of Champaign: east long. 5° 15', north lat. 48° 12'.

CHAUMPART, or CHAMPART. See the article CHAMPART.

CHAUNES, or CHAULNES, a town of Picardy, in France, in the diocese of Noyen.

CHAUNER, CHAUNTOR, or CHANTOR. See the article CHANTOR.

CHAUNTRY, or CHANTRY. See the article CHANTY.

CHAUSE-TRAPE, or CHAUSSZ-TRAPE, the same with caltrop. See CALTROP.

CHAZINZARIANS, in church-history, a sect of heretics who adored the cross. "Chaus" signifies the cross, in the Armenian.
nian language: they arose in Armenia, in the seventh century.

CHEADLE, a market-town of Staffordshire, ten miles north-east of Stafford: well long. 2°, north lat. 53°.

CHEASPEAKE-BAY, a large frith or arm of the sea, which runs up about three hundred miles into the country between Virginia and Maryland, in North America: it is navigable almost all the way for large ships; being about twenty miles broad at the entrance between Charles-tape and cape Henry, and between twenty and thirty miles broad afterwards. See the article CHARLES-CAPE.

CHECAYA, in Turkish affairs, the second officer of the janizaries, who commands them under the aga, and is otherwise called protogero. There is also a checaya of the treasurer, stables, kitchen, &c. the word signifying as much as lieutenant, or the second in any office.

CHECK, or CHECK-ROLL, a roll or book, wherein is contained the names of such persons as are attendants and in pay to the king, or other great personages, as their household servants.

 Clerk of the Check, in the king's household, has the check and controlment of the yeomen of the guard, and all the uffers belonging to the royal family, allowing their absence or defects in attendance, or diminishing their wages for the same, &c. He also, by himself or deputy, takes the view of those that are to watch in the court, and has the setting of the watch, &c.

 Clerk of the Check, in the king's navy at Plymouth, is also the name of an officer invested with the like power.

CHECK, in falconry, a term used of a hawk when he forfakes her proper game, to fly at pyes; crows, rooks, or the like, that crois her in her flight.

CHECKY, in heraldry, is when the shield, or a part thereof, as a bordure, &c. is chequer'd, or divided into chequers or squares, in the manner of a chess-board. See plate XLI. fig. 2.

This is one of the most noble and most ancient figures used in armory; and a certain author saith, that it ought to be given to none but great warriors, in token of their bravery: for the chess-board represents a field of battle, and the pawns of men, placed on both sides, represent the soldiers of the two armies, which move, attack, advance, or retire, according to the will of the two gamesters, who are the generals.

This figure is always composed of metal and colour: but some authors would have it reckoned among the several sorts of furs.

CHEEK, in anatomy, that part of the face situated below the eyes, on each side. Wounds of the cheeks, if small, may be cured by the dry future; but if large, the bloody one must be used. See the article SUTURE.

CHEEKS, among mechanics, are almost all those pieces of their machines and instruments, that are double, and perfectly alike; as the cheeks of a mortar, which are made of strong wooden planks, of a semicircular form, bound with thick plates of iron, and fixed to the bed with four bolts: these cheeks rise on each side the mortar, and serve to keep it at what elevation is given it: the cheeks of a printing-press are its two principal pieces, placed perpendicular and parallel to each other, and serving to sustain the three formers, &c.

CHEEKS, in ship-building, two pieces of timber, fitted on each side of the mast, at the top, serving to strengthen the mast there, and having holes in them, called hounds, through which the ties run to hoist the yards.

Also the uppermost rail, or piece of timber in the beak of a ship, and those on each side of the trail-board, are called the upper and lower cheek.

The knees also which affiten the beak-head to the bows of a ship, are called checks.

CHEESE, a sort of food, prepared of curdled milk, purged from the serum or whey, and afterwards dried for use. Physicians condemn the too free use of cheeze, by reason it loads the stomach when new, and heats and inflames when old.

Every country has its places noted for this commodity; thus Chester and Gloucester-cheese are famous in England; and the Parmesan cheese is in no less repute abroad, especially in France. This sort of cheese is entirely made of sweet cow's milk; but at Rochfort, in Languedoc, they make cheeze of ewe's milk; and in other places, it is usual to add goat or ewe's milk, in a certain proportion, to that of cow's.

There is likewise a kind of medicated cheeze, made by intimately mixing the expressed
expresse juice of certain herbs, as fage, baum, mint, &c. With the curd, before it is fashioned into a chees.e. The 100 weight of chees.e pays on importation 1s. 3½d. and draws back, on exportation, 1s. 1½d. at the rate of 6s. 8d. The chees.e of Ireland is prohibited to be imported.

CHEESERUNNET, in botany, the same with the gallium of authors. See the article GALLIUM.

CHEESLIP, in zoology, the English name of the sow or hog-louie.

CHEESLIP-FOG, that in which houfe-wives prepare and keep their runnet for making cheee. See RUNNET.

CHEEVEANCE, or CHEVISANCE. See the article CHEVISANCE.

CHEF, or CHIEF. See the article CHIEF.

CHEGFORD, a market-town of Devonshire, about thirteen miles west of Exeter: west longitude 4°, north latitude 50° 40'.

CHEIRANTHUS, in botany, and singing a song called varnish in the comisnon way, See the article CHEVISANCE.

The Chinese use the chekaao in drawing the elegant figures we see in the wholly white china-ware, which they afterwards varnish in the common way. See the article CHINA-WARE.

CHEKIAM, a province of China, bound-ed by that of Nankin on the north, and by the ocean on the east.

CHELE CANCRORUM, CRAB'S CLAWS, in the materia medica. See the article CRAB'S CLAWS.

CHELATION, a name used by some for a distemper of the eye, commonly called a fitte or flye.

CHELEZZI, the principal purveyor in the household of the great signor.

CHELIDONIA, in grecian antiquity, a festival celebrated at Rhodes, in the month of Boedromion, in which the boys went from door to door begging and singing a song called chelidovemnon, because it began with an invocation of the xepet, or swallow.

CHELIDONIUM, CELANDINE, or the yellow horned poppy, in botany, a genus of the polydrona-monogynus class of plants: the corolla consists of four roundish, plane, patent petals, large and narrow at the base: the fruit is a cylindric pod, formed of two valves, and containing only one cell: the seeds are numerous, oval and smooth: the receptacle is linear, between the valves, in form of a future, and not opening. This plant abounds with a sharp, acrid salt, which makes it detefive, and is therefore recommended in the jaundice particularly, and in all other obstructions and disorders of the vitseus. The juice is also esteemed for taking films, clouds and specks off the eyes.

CHELIDONIUS, in botany, a name given by some to the amomone, or wind-flower.

CHELIDONIUS LAPIS, in natural-history, a stone found by the ancients to be found in the stomachs of young swallows, and greatly cried up for its virtues in the falling sickness: but from their description, it appears to be only a species of lyconotes, or buponites. See the articles LYCODONTES and BUFONITAE.

CHELM, a town of Poland, capital of a palatinate of the same name: it is situated in the province of red Ruffia, 110 miles south-east of Warsaw: east long. 23° 56', north lat. 51° 25'.

CHELMSFORD, the county-town of Essex, situated on the river Chelmer, twenty-five miles north-east of London: east long. 50°, north lat. 51° 40'. It sends two members to parliament.

CHELON, in ichthyology, a fish of the mullet-kind, extremely like the common mullet. See the article MUGIL.

CHELONE, in botany, a genus of the didynamis-angiosperma clafs of plants: the corolla consists of only one petal: the tube is cylindric and very short; the mouth is inflated, oblong, convex above, and plane below; the upper lip is ob'tuse and emarginated; the lower is almost equal with the higher, and is divided into three small segments. The fruit is a roundish capsule, containing only one cell, and longer than the cup: the seeds are numerous, roundish, and covered with a membranaceous margin.

CHELSEA, a fine village situated on the northern bank of the river Thames, a mile westward of Westminster, remarkable for a magnificent hospital of invalids and old decrepit soldiers; and a pleasure-house, called Ranelagh, to which
The whole of the art may be comprehended under the skill of resolving bodies into their principles, and of constituting new compounds from those principles, by means of fire, air, water, earth, and particular menstrua; so that the one may properly enough be distinguished by analytical, the other by synthetical chemistry; the former reduces bodies to their component matters, the latter puts these component matters together in various manners, and thereby forms a large set of new productions, that would be absolutely indiscernable in nature, without the interposition of this art; for instance, brandy, soap, glass, vitriol, &c. Chemistry is not only of the greatest service in medicine, but also in physics; for Sir Isaac Newton demonstrates the laws of forces of bodies, as known by their effects, all from chemistry; and when he applies those forces to the explication of phenomena, he does it all by the help of chemistry; which is a clear proof that without this art, the nature and property of single bodies, could scarce ever have been known by the most sagacious mortal.

The application of chemistry to a great number of important arts and trades, will appear throughout this work, as indeed it has done already, and that in such a light, as will not only lay a foundation for their improvement, but may tend to the investigation of new ones: for chemistry, skilfully applied, may be said to be the parent of numberless branches of art.

With respect to the well known enthusiasm of the chemists, there are some causes to be assigned why those who first cultivated this art, were so extremely addicted to fiction. Chemistry was formerly in the hands of miners and smelters of metals; men unacquainted with the liberal sciences, condemned to lead their lives in darkness, under ground, and to support their wretched beings with coarse and hard fare: besides, these men were daily obnoxious to a thousand dangers, dreadfully what might happen, disturbed in mind, and leading a very uneasy life. Under these circumstances they gave their attention to superstitions tales, and fabulous stories. These and many other circumstances that might be named, gave occasion to the revival of these absurd notions of the Magi, Chaldeans, and Pyrians, that the fire was God, &c. Some among the chemists tried the magic arts of Zoroaster; some, with Plato, imagined demons
CHEMOSIS, a disease of the eyes, proceeding from an inflammation, when the white of the eye swells above the black, and overtops it to such a degree, that there appears a sort of gap between them.

Others define it to be an elevation of the membrane which surrounds the eye, and is called the white; being an affection of the eye, like white flesh.

CHENOPODIUM, in botany, a genus of the *pentandra-digynia* class of plants, comprehending goose-foot, English mercury, and flinking orach.

It has no flower petals, nor pericarpium; except the cup, which contains a single, orbicular, and depressed seed.

CHEPELIO, an island in the bay of Panama, and province of Darien, in South America, situated about three leagues from the city of Panama, which it supplies with provisions; east long. 81°, north lat. 9°.

CHEPSTOW, a market-town in Monmouthshire, situated on the river Wye, near its mouth, about ten miles south of Monmouth; west long. 2° 40', north lat. 51° 46'.

CHEQ., or CHERIF, the prince of Mecca, who is, as it were, high priest of the law, and sovereign pontiff of all the Mahometans, of whatever sect or country they be. See CALIPH.

The grand signior, sultanes, mullahs, kians of Tartary, &c. lend him yearly presents, especially tapestry to cover mahomet's tomb withal, together with a sumptuous tent for himself, and vast sums of money to provide for all the pilgrims, during the seventeen days of their devotion.

CHERASCO or CHIARASCO. See the article CHIARASCO.

CHERBURG, a port-town of France, in the province of Normandy, situated on a bay of the English Channel, opposite to Hampshire, in England; west long. 1° 40', north lat. 50° 45'.

CHERIF, or CHERIF, is a title assumed by the emperors of Morocco. See the articles CHEQ., and CALIPHATE.

CHEREM, in Jewish antiquity, the second and greater sort of excommunication among the Jews.

The charem deprived the excommunicated person of almost all the advantages of civil society: he could have no commerce with any one, could neither buy nor sell, except such things as were absolutely necessary for life; nor refort to the schools, nor enter the synagogues; and no one was permitted to eat or drink with him.

The sentence of charem was to be pronounced by ten persons, or at least in the presence of ten: but the excommunicated persons might be abjured by three judges, or even by one, provided he were a doctor of the law. The form of this excommunication was loaded with a multitude of curses and imprecations, taken from different parts of the scripture.

CHERESOL, the capital of Curdufan, an afanian Turky, and the seat of the beg-lærbeq, or viceroj, of the province: east long. 56°, north lat. 36°.

CHERLERIA, in botany, a genus of the *decantridia-trigynia* class of plants: the flower has properly no petals; the nectarary are five in number, roundish and emarginated, very small, and placed in a circular direction; the fruit is a capsule of an ovated figure, formed of three valves, and containing three cells; the seeds are numerous, convex on one side, and angulated on the other.

CHERLEQUIN, or CHERLEQUIER, in the turkish affairs, denotes a lieutenant-general of the grand signior's armies.

CHERMIS, in zoology, a genus of four-winged insects, the characters of which are these: its rostrum, or trunk, is situated under the broad; the abdomen is mucronated or pointed at the hinder extremity; and the legs are formed for leaping.

These insects, which are called in English bugs, take particular denominations from the trees or plants on which they feed;
feed; as the cherries ulmi, or elm-bug, the fir-bug, the birch-bug, the maple-bug, the willow-bug, the nettle-bug, &c.

CHERRY-TREE, *cerasus,* in botany. See the article *Cerasus.*

If these trees are planted against walls, it is advisable to let dwarfs between the standards, to cover the lower part of the wall, while these last spread over the upper part; and when the dwarfs grow up to fill the whole wall, the standards should be taken away.

The best cherries for eating are those of a hard substance, when fully ripe; the soft and watry ones being of a cold and putrefacient nature: the four kinds are also preferable to the sweet. Eaten in moderation, they quench thirst, and create an appetite, especially if boiled with a good quantity of sugar to them.

CHERRY likewise makes part of the English name of several other trees: thus the malpighia of authors is called Barbees or cow-hedge cherry; the *padus,* bay-cherry, bird-cherry, or laurel-cherry; the *cornus,* cornel-cherry; the *alkekengi,* winter-cherry, &c. See *Malpighia,* &c.

CHERRY-BRANDY, a drink made of brandy, with the addition of black cherries. A bottle being half filled with these, is filled up with brandy, and shaken several times: in a month's time it will be ready to drink. To sweeten it, as well as to improve the flavour, some add sugar and a few raspberries.

CHERRY-WINE is made of the expressed juice of cherries, to every two gallons of which two pounds of sugar are added: this done, it is put into a vessel to ferment, and after standing two months in the cask, is bottled off with a little sugar for use.

CHERRY-ISON, in geography, an island situated in the north or frozen ocean, between Norway and Greenland; east long. 20°, north lat. 75°.

CHERSKO, the capital of an island of the same name, in the gulf of Venice, and subject to the Venetians; east long. 15°, north lat. 45° 25'.

CHERSONESUS, *ropo math,* among geographers, the name with a peninsula. See the article *Peninsula.*

CHERT, among miners, denotes a kind of flinty stone, found in thin strata in quarries of limestone.

CHERTSEY, a market-town of Surrey, about seven miles west of Kingston: east long. 30°, north lat. 51° 25'.

CHERUB, or *Cherubin,* a celestial spirit, which in the hierarchy is placed next to the seraphim. See *Hierarchy.*

The several descriptions which the scripture gives us of cherubins, differ from one another: but all agree in representing a figure composed of various creatures, as a man, an ox, an eagle, and a lion.

CHERUBIN was also the name of an ancient military order in Sweden, otherwise called the order of Seraphim. It was instituted by Magnus IV., and abolished by Charles IX. It took its denomination from the golden figures of cherubins, whereof the collar of the order was composed.

CHERUBICAL HYMN, a hymn of great note in the ancient Christian church. It was likewise called trilagium, or thrice holy, because the form of it was in these words, *Holy, holy,* &c.

The same form of words, with some alterations, is used to this day in our church, making part of the hymn, *Te deum laudamus.*

CHERVIL, *cherophyllum,* in botany, &c. See the article *Cherophyllum.*

CHERVINSKO, a town of Poland, upon the Wistula, three leagues below Zakrocy.

CHERWEL, a river, which, arising in Northamptonshire, runs southwards by Banbury, and unites its waters with those of the Isis, near Oxford.

CHESHAM, a market-town of Buckinghamshire, about nine miles south-east of Aylesbury; east long. 35°, north lat. 51° 56'.

CHESHIRE, a maritime county of England, bounded by Staffordshire on the east, and by the Irish sea on the west: its chief commodities are salt and cheese, the salt of which is much esteemed all over Britain.

CHESLIP, a kind of small vermin, found on stones and tiles.

CHESNUT-TREE, the English name of the cauliflora of botanists. See the article *Castanea.*

Next to oak, the chestnut-timber is most coveted by carpenters and joiners. It likewise makes the best flakes, palliadas, vine-props, hop-poles, &c. and is also proper for mill-timber, and water-works. It is likewise fit for cheits, tables, bedsteads, columns, &c.

As to the fruit of this tree, the biggest chestnuts are accounted best; which should
and as to the king’s motion, it is one house at a time, and that either forward, backward, sloping, or sideways.

As to the value of the different pieces, next to the king is the queen, after her the rooks, then the bishops, and last of the dignified pieces comes the knight. The difference of the worth of pawns, is not so great as that of noblemen; only, it must be observed, that the king’s bishop’s pawn is the belt in the field, and therefore the skilful gamer will be careful of him. It ought also to be observed, that whereas any man may be taken, when he falls within the reach of any of his adversary’s pieces, it is otherwise with the king, who, in such a case, is only to be faluted with the word check, warning him of his danger, out of which it is absolutely necessary that he move; and, if it so happen that he cannot move without exposing himself to the like inconvenience, it is check-mate, and the game is lost.

CHESS-ROOMS, two small pieces of timber with a hole in them, on each side of a ship, a little before her loof, for the main tackle to run through, and to which it is haled down.

CHEST, in commerce, a kind of measure, containing an uncertain quantity of several commodities.

A chest of sugar, \( \text{w.} \ g. \), contains from ten to fifteen hundred weight; a chest of glass, from two hundred to three hundred feet; of cattle soap, from two and an half to three hundred weight; of indigo, from one and an half to two hundred weight, five score to the hundred.

CHEST, in anatomy, the breast, or that part of the body which contains the heart and lungs. See the article BREAST.

CHEST-TRAPS, a kind of boxes or traps with single or double entries, for catching pole-cats, fitches, martens, &c.

CHESTER, the capital city of Cheshire, situated sixteen miles south of Liverpool: west long. 3°, north lat. 53° 15'.

It is a bishop’s see, and gives the title of earl to the prince of Wales.

New Chester, the capital of a county of the same name in Pennsylvania, in north America, situated on the river Delaware, south of Philadelphia: west long. 74°, north lat. 4° 15'.

Its harbour is fine and capacious, admitting vessels of any burden.

CHESTERFIELD, a market-town of Derbyshire, fifteen miles north of Derby: west long. 1° 25', north lat. 53° 20'.
CHE

It gives the title of earl to a branch of the noble family of Stanhope.

CHEVAGE, or CHEIFAGE, a tribute of a certain sum of money, formerly paid by such as held lands in villainage to their lords, by way of acknowledgment, being a kind of poll, or head-money. The word seems to have been used for a sum of money paid yearly to a man of power for his patronage and protection. The Jews allowed to live in England, long paid chevage, or poll-money, viz. three-pence per head; it was paid at Easter.

CHEVAL DE FRISE. See the article CHEVAUX DE FRISE.

CHEVALER, in the manage, is said of a horse when in passaging upon a walk or a trot, his off fore-leg crosses or overlaps the near fore-leg every second motion.

CHEVALIER, in a general sense, signifies a knight, or horsemann; but, CHEVALIER, in heraldry, signifies any cavalier, or horsemann, armed at all points, by the Romans called cataphractus equus, now out of use, and only to be seen in coat-armour.

CHEVAUX DE FRISE, in fortification, a large joint, or piece of timber, about a foot in diameter, and ten or twelve in length, into the sides whereof are driven a great number of wooden pins, about six foot long, armed with iron points, and croffing one another. See plate XLI. fig. 3. The chief use of the chavaux de frise, is to stop up breaches, or to secure the avenues of a camp, from the inroads both of horse and foot. It is sometimes also mounted on wheels, with artificial laces, to roll down in an assault.

CHEVERON, or CHEVRON, in heraldry, See the article CHEVRON.

CHEVIL, or KEVIL. See KEVIL.

CHEVIN, a name used in some parts of the kingdom for the chub. See the article CHUB.

CHEVIOT, or TIVIOH-HILLS, run from north to south through Cumberland, and were formerly the borders or boundaries between England and Scotland, where many a bloody battle has been fought between the two nations, one of which is recorded in the ballad of chevy-chase.

CHEVISANCE, in law, denotes an agreement or composition, as an end or order for down between a creditor and his debtor, &c.

In our statutes, this word is most com-

monly used for an unlawful bargain, or contract.

CHEVRONTE, in the art of war, an engine for raking of guns or mortars into their carriages. It is made of two pieces of wood, about four foot long, standing upright upon a third square piece; the upright pieces are about a foot amunder, and pierced with holes exactly opposite to each other, having an iron bolt, which being put through these holes higher or lower, at pleasure, serves with a hand-spike, which takes its point over this bolt, to raise anything by force. See plate XLI. fig. 4.

CHEVRON, or CHEVRON, in heraldry, one of the honourable ordinarics of a shield, representing two rafters of an house, joined together as they ought to stand; it was antiently the form of the priecefiles head attire: some say, it is a symbol of protection; others, of constancy; others, that it represents knights spears, &c. It contains the fifth part of the field, and is figured as in plate XLI. fig. 5.

A chevron is said to be abased, when its point does not approach the head of the chief, nor reach farther than the middle of the coat; mutilated, when it does not touch the extremes of the coat; cloven, when the upper pieces are taken off, so that the pieces only touch at one of the angles; broken, when one branch is separated into two pieces; couched, when the point is turned towards one side of the escutcheon; divided, when the branches are of several metals, or when metal is opposed to colour; inverted, when the point is turned towards the point of the coat, and its branches towards the chief. Per CHEVRON, in heraldry, is when the field is divided only by two sable lines, rising from the two bail points, and meeting in the point above, as the chevron does.

CHEVRONED, is when the coat is filled with an equal number of chevrons, of colour and metal.

CHEVRONEL, diminutive of chevron, and as such, only containing half a chevron.

CHEVRONNE, or CHEVRONNY, signifies the dividing of the shield several times chevron-wife.

CHEWING-BALLS, a kind of balls made of afaecetida, liver of antimony, bay-wood, juniper-wood, and pelitory of Spain; which being dried in the sun, and wrapped in a linen-cloth, are tied to the bit of the bridle for the horse to
CHIAMP A, the south division of Cochinchina, a country of the East-Indies.

CHIAN EARTH, in pharmacy, one of the CHIAOUS, CHIAPE, CHIARENZA, CHIARASCO, CHIARI, a town of Italy, in the province of CHAVENNA, situated on the river Tanaro, twenty miles south-east of Turin, and subject to the king of Sardinia: east long. 7° 45', north lat. 44° 40'.

CHIARAMADES, or CHICHESTER, a port-town on the coast of the Morea, opposite to the island Zant, in the Mediterranean, and subject to the Turks: east long. 21° 15', north lat. 37° 35'.

CHIARI, a town of Italy, in the province of Brachia, in the territories of Venice, about twenty-seven miles east of Milan: east long. 10° 18', north lat. 45° 30'.

CHIARO-CURO, among painters. See the article CLARO-OBSCURO.

CHIAT, in the turkish affairs, officers otherwise called mutes, employed in executing persons of distinction; the orders for doing which, are sent them by the grand vizier, wrapped up in a black cloth.

CHICANE, or CHICANEY, in law, an abuse of judiciary proceeding, tending to delay the cause, to puzzle the judge, or impose upon the parties.

CHICANE, in the schools, is applied to vain sophisms, distinctions and subtleties, which protract disputes and obscure the truth.

CHICHES, or CHICHE-PEASE, the name with the cicer of botanists. See CICER.

CHICHESTER, a port-town of Pennsylvania, situated on the river Delaware, below Chester. See the article Chester.

CHICK, or CHICKEN, in zoology, denotes the young of the gallinaceous order of birds, especially the common hen. See GALLINACEOUS and HATCHING.

Chickens, for two days after hatching, require no meat; but then it is proper to give them, for the first time, small oat-meal, some dry, and some steeped in milk, or else fine white-bread crumbs; and after they have got strength, curds, cheese-pairings, &c. It is also very wholesome to chop green chives among their meat, which will preserve them from the rye, and other diseases in the head; neither must they at any time be suffered to want clean water, since puddle-water is apt to breed the pip. To have fat crammed chickens, let them be cooped up when the damp forfares them, and fed with wheat-meal in milk made into a dough, and steeped in milk; by using this diet, they will be fat in two weeks.

CHICKEN-POX. See the article Small Pox.

CHICK-ROOT, in botany, a name sometimes given to purflian. See the article PORTULACA.

CHICK-WEED, a name in botany. See the article ALSINE.

Berry-bearing CHICK-WEED, the same with the cucubalus of botanists. See the article CUCUBALUS.

CHICKLING PEA, in botany, a name given to the lathyrus. See LATHYRUS.

CHICUATLI, an ornithology, an American species of owl, called by authors...
CHI

CHILD-BED, See DELIVERY.

CHILD-BIRTH, See DELIVERY.

CHILDREN, a term of relation to parent. We say, natural child, legitimate child, posthumous child, &c. See the articles NATURAL, LEGITIMATE, &c.

Child, infant, in the civil law, denotes one under seven years of age. The custom has prevailed almost in all countries, and in all ages, of wrapping a young child in swaddling bands, left its limbs, being then tender and flexible, should happen to be distorted. The Spartan nurseries, however, were so careful and experienced, that without using swaddling bands, their children were straight and well proportioned. Moreover, the Lacedemonians, in the management of their children, were at great pains to use them to any sort of meat, and sometimes, to bear the want of it; not to be afraid in the dark, or to be alone; nor to be froward, peevish, and crying, as children generally are, often through the impertinent care and fondness of those who look after them.

Dr. Harris, in a treatise of the acute diseases of children, takes them all to arise from the humours of the primeval growing four and degenerating into acidities, which is confirmed from their four belchings and dejections. Hence all that is required to cure them, is to combat this acidity, which is to effect two ways; by disposing it to be evacuated, and by actual evacuation by rhubarb, and other gentle purgatives. In the first case, no sudorifics or cordials are to be used, but in lieu of them, crab's-eyes and claws, oyster-shells, egg-shells, chalk, coral, &c. but above all these, he prefers old shells that have lain long on the sea-shore exposed to the heat of the sun. Children are very obnoxious to the aphtae or truth, scabby eruptions, difficult dentition, epilepsy, worms, and rickets; for the cure of which, see each of their under its proper head. See also the articles INFANT, NURSING, WEANING, &c.

Lord Bacon assigns for the reason of children's not being hairy, that they are more perspirable than adult persons.

CHILD, in ichthyology, the same with the head, or mother of herring.
CHILD-wit, a fine imposed upon a bond-woman, got with child without the consent of her lord. Within the manor of Writtle, in the county of Essex, every reputed father of a base child pays to the lord 3s. 4d. for a fine; and this penalty extends to free as well as bond women. Charity schools. See Charity schools and Hospital.

CHILDERMAS-DAY, or INNOCENTS-DAY, an anniversary held by the church, on the 28th of December, in commemoration of the children at Bethlehem, massacred by order of Herod.

CHILI, a province of South America, bounded by Peru on the north, by the province of La Plata on the east, by Patagonia on the south, and by the Pacific ocean on the west; lying between 24° and 45° south lat. and between 75° and 85° west longit. But some comprehend Patagonia in Chili, extending it to Cape Horn, in 57° 30' south latitude.

CHILIASTs, in church-history, the name with the millenarians. See the article MILLENAIANS.

CHILIMOAR, CHILMINAR, or TCHELMINAR, the most beautiful piece of architecture remaining of all antiquity, being the ruins of the famous palace of Persepolis, to which Alexander the great, in a drunken fit, set fire, at the instigation of Thais the courtezan: the word comes from the Persian Tcheble minar, that is to say, forty towers.

Don Garcia de Silva Figueroa, Pietro della Valle, Sir John Chardin, and Le Brun have been very particular in describing these ruins.

There appear (fay they) the remains of near fourcore columns, the fragments of which are at least six feet high; but there are only nineteen can be called entire, with another detached from the rest, about an hundred and fifty paces: a rock of hard black marble serves as a foundation to the edifice: the first plan of the house is attended to by ninety-five steps, all cut in the rock; the gate of the palace is about twenty feet wide, with the figure of an elephant on one side, and that of a rhinoceros on the other, thirty feet high, and both of polished marble; near these animals there are two columns, and not far from these, the figure of a pegasus. After passing through this gate, are found fragments of magnificent columns in white marble, the smallest of which are fifteen cubits high, the largest eighteen, having forty fullings three full inches wide each; from whence we may judge of their thicknees and other proportions.

Near the gate is seen an inscription on a square piece of black marble, containing about twelve lines; the characters are of an extraordinary figure, resembling triangles, or pyramids: besides this there are other inscriptions, the characters of which resemble the Hebrew, Chaldaic, or Syriac, others the Arabic, or Persian; and others, in fine, the Greek characters. Dr. Hyde, who hath explained the greek inscription, by suppling some words that are effaced, observes that the inscriptions are engraved very negligently, and perhaps by some soldiery; or, if they are the work of an engraver, he thinks that he was from Palmyra, and consequently that they are in the phoenician tongue: he adds, that as they are in praise of Alexander, they were probably done in the time of that conqueror.

CHILTERN, or CHELTENHAM. See the article CHILTERN.

CHILTERN, a chain of chalky hills, running from east to west through Buckinghamshire.

CHIMERA, in geography, a port-town of Turkey in Europe, situated at the entrance of the gulf of Venice, in the province of Epirus, about thirty-two miles north of the city Corfu, near which are the mountains of Chimæra, which divide Epirus from Thessaly: east long. 20° 40', and north lat. 40° 20'.

CHIMÆRA, or CHIMERA. See the article CHIMÆRA.

CHIMAY, the name of a great lake, lying in the province of Acham, between the East-Indies and China.

CHIMAY is also the name of a town of Hainault, in the French Netherlands, about twenty miles south of Charleroy: east long. 4° 20'; and north latitude 56° 6'.

CHIMERA, or CHIMÆRA, a fabulous monster which the poets feign to have the head of a lion, the body of a goat, and the tail of a dragon; and add, that this odd beast was killed by Bellerophon. The foundation of the fable was, that in Lycia there was a burning mountain, or vulcano,
vulcano, of this name; that the top of
this mountain was seldom without lions,
or the middle, which had very good
grafs, without goats; that serpents bred
at the bottom, which was marshy; and
that Bellephorion rendered the mountain
habitable.

By a chimera, among the philosophers is
understood a mere creature of the imagina-
tion, composed of such contradictions and
absurdities as cannot possibly any where
exist but in thought.

CHIMES of a clock, a kind of periodical
music, produced at equal intervals of
tune, by means of a particular apparatus
added to a clock.

In order to calculate numbers for the
chimes, and adapt the chime-barrel, it
must be observed that the barrel must turn
round in the same time that the tune it is
to play requires in singing. As for the
chime-barrel, it may be made up of cer-
tain bars that run after it, with a con-
vient number of holes punched in them
to put in the pins that are to draw each
hammer; and these pins, in order to play
the time of the tune rightly, must stand
upright, or hang down from the bar,
some more, some less. To place the pins
rightly, you may proceed by the way of
changes on bells, viz. 1, 2, 3, 4; or
rather make use of the musical notes. Ob-
serve what is the compass of your tune,
and divide the barrel accordingly from
end to end; thus in the following ex-
amples each of these tunes are eight notes
in compass, and therefore the barrel is
divided into eight parts; these divisions
are struck round the barrel, opposite to
which are the hammer-tails; but when
two notes of the same sound come toge-
er in a tune, there must be two hammers
to that bell to strike it. Then you
are to divide it round about, into as ma-
ny divisions as there are musical bars,
semibriefs, minims, &c. in your tune;
thus the hundredth Psalm tune hath twen-
ty semibriefs, the first note of it is also a
semibrief, and therefore on the chime-
barrel must be a whole division from 5 to
5; as may be understood by conceiving
the surface of a chime-barrel to be repre-
sented by the following tables, as if the
cylindrical superficies of the barrel were
stretched out at length, or extended on a
plane; and then such a table so dotted or
divided, if it were to be wrapped round
the barrel, would shew the places where
all the pins are to stand in the barrel;
for the dots running about the table,
are the places of the pins that play the
 tunes:

The notes of the hundredth Psalm.

A table for dividing the chime-barrel of the
hundredth Psalm.

If you would have your chimes complete,
you ought to have a set of bells to the
gamut notes, so as that each bell having
the true sound of sol, la, mi, fa, you
may play any tune, with its flats and
sharps, may even the bass and treble, with
one barrel. And by setting the names of
your bells at the head of any tune, you
may transfer that tune to your chime-
barrel, without any skill in music; but ob-
serve, that each line in the music is three
notes distant, that is, there is a note be-
tween each line, as well as upon it.

CHIMIN, or CHIMIN, in law, denotes a
road, or way. Hence,

CHIMINAGE is a toll for wayfaring, or
passage, through a forest.

CHIMNEY, in architecture, a particular
part of a house, where the fire is made,
having a tube or funnel to carry away
the smoke.

The parts of a chimney are the jambs, or
sides, coming out perpendicularly, some-
times circularly, &c. from the back; the
mamtree, which rests on the jambs;
the tube, or funnel, which conveys away
the smoke; the chimney-piece, or inoul-
ding, which is on the fore side of the
jambs, over the man-tree; and the
hearth, or fire-place.

The rules for building chimneys are,
1. That no timber be laid within twelve
inches of the fore side of the chimen-
jambs. 2. That all the joists on the
back of any chimney be laid with a trim-
mer. 3. That no timber be laid within
the funnel of any chimney.

The proportion for CHIMNIES. Palladia
lays down the following proportions for
the breadth and depth on the inside, and
for their height to the man-tree.
Nevertheless in these points a workman should be rather governed by the modern fashions, than by the dictates of an ancient architect.

Wolfius directs that the breadth of the aperture at the bottom be to the height as 5 to 2, and to the depth as 4 to 1. In small apartments the breadth is 3 feet, in bed-chambers 4, in larger apartments 5; in small banqueting rooms 5½, in larger 6; but the height should not exceed 2½, left there be too much room for air and wind, and the smoke be driven into the room: nor must the height be too little, left the smoke mis its way and be choked at first setting out. The same author advises to have an aperture thro' which the external air may, on occasion, be let into the funnel, to drive up the smoke, which the internal air would otherwise be unable to do.

Some make the funnel twisted, to prevent the smoke's descending too easily; but a better expedient is, to make the funnel narrower at bottom than at top; the fire compelling it up more easily, when contracted at the bottom; and in mounting it finds more space to difengage itself, and therefore will have less occasion to return into the room.

Mr. Felibien directs, that the mouth of the tube, or that part joined to the chimney back, be made a little narrower than the rest, that if the smoke be repelled downwards, it may be prevented from getting into the room by this obstacle.

To prevent smoking chimneys, Mr. Lucas advises to leave two holes, or make two pipes in the chimneys, one over the other on each side, one sloping upwards, the other downwards; through these holes or pipes, says he, the smoke will easily pass out of any funnel which way so ever the wind blows.

Philip d'Orme advices to provide a hollow brass-ball, of a reasonable capacity, with a small hole on one side, for the putting in water; that this ball be hung up in the chimney, at a little height above the greatest flame (with the hole upwards) by an iron-wire that shall traverse the chimney, a little above the mantle-tree, where, as the water grows hot, it will rarely, and drive through the hole or aperture in a vapoury steam, that will throw up the smoke, which would otherwise linger in the funnel.

Others place a kind of moveable vane or weather-cock on the top of the chimney, so that what way forever the wind comes, the aperture of the chimney will be screened, and the smoke have free egress.

But the best prevention of a smoking chimney seems to be in the proper placing of the doors of a room, the apt inclination of the back, and the due gathering of the wings and breast of a chimney.

Chimney-hooks are hooks of steel or brass, put into the jams of chimneys, one into each jamb, for the handle of the fire-tongs and fire-pan to rest in.

Chimney-jams, the sides of a chimney, sometimes standing out perpendicularly, sometimes circularly, from the back, on the extremities whereof the mantle-tree rests.

Chimney-money, or Hearth-money, a tax imposed by statute 24 Car. II. expressing that every fire-hearth and stove of every dwelling or other house within England and Wales, except such as pay not to church and poor, shall be chargeable with two shillings per annum, payable at Michaelmas and Ladyday, to the king and his heirs. This tax being much complained of, as burdensome to the people, has been abolished, and instead of it the window-tax was granted.

Chimney-piece, a composition of certain mouldings of wood or stone, standing on the fore side of the jams, and coming over the mantle-tree.

Chimpanzee, in zoology, the name of a species of angola-monkey, very much resembling the human shape; the males of which are fo bold and fierce as to fight an armed man: they naturally walk erect, and are said to eat upon and ravish the negro women, when they meet them in the woods.

China, including Chinese Tartary, a large empire, situated between 95° and 135° east longitude, and between 21° and 55° north latitude, being accounted two thousand miles in length, and one thousand five hundred in breadth; it is bounded
bouched by Russian Tartary on the north, by the Pacific ocean on the east and south, and by Tonquin, Tibet, and the territories of Russia on the west. It is usually divided into sixteen provinces, which will be described in their alphabetical order. In these provinces there are computed to be one hundred and fifty-five capital cities, one thousand three hundred and twelve of the second rank, two thousand three hundred and fifty-seven fortified towns, and upwards of ten millions of families, which may amount to about fifty millions of people.

The principal commodities of this country are silk, tea, china-ware, japan-ware, and gold dust; of all which the maritime states of Europe import great quantities, sending them silver in return.

**CHINA-CHINA**, in pharmacy, the same with quinquina. See **QUINQUINA**.

**CHINA-ROOT**, in pharmacy, a medicinal root, brought both from the East and West-Indies, thence distinguished into oriental and occidental; it is the root of the plant fumilax. See **SUMILAX**.

The oriental root is brought to us in large pieces, from several parts in the East-Indies. The occidental is brought from Peru and the Brazils. This root is to be distinguished from the other roots of families, which may amount to about three hundred and thirty words, which are all monosyllables, at least they are pronounced so short that there is no distinguishing above one syllable or sound found in them; but the same word, as pronounced with stronger or weaker tone, has different significations; accordingly when the language is accurately spoke, it makes a sort of music, which has a real melody, that constitutes the essence and distinguishing character of the Chinese tongue.

As to the Chinese characters, they are as singular as the language; the Chinese have not, like us, any alphabet, containing the elements, or, as it were, the principles of their words: instead of an alphabet they use a kind of hieroglyphics, whereof they have above eighty thousand.

**CHINESE**, in general, denotes any thing belonging to China. See **CHINA**.

It is observed by some, that the Chinese language has no analogy with any other language in the world: it only consists of three hundred and thirty words, which are all monosyllables, at least they are pronounced so short that there is no distinguishing above one syllable or sound found in them; but the same word, as pronounced with stronger or weaker tone, has different significations; accordingly when the language is accurately spoke, it makes a sort of music, which has a real melody, that constitutes the essence and distinguishing character of the Chinese tongue.

The root is to be chofen hard and firm, of a faint colour, free from worms and rottenness, and such as on chewing fills the mouth with a soft unctuous moisture. This root is a sudorific and attenuant, and is therefore calculated to do great service in many chronic cases: it is best given in decoction, and is usually combined with farfiparilla and guaiacum; an ounce of it, sliced thin, is the usual proportion to a quart.

**CHINA-WARE**, a fine kind of earthen-ware, otherwise called porcelain. See the article **PORCELAIN**.

**CHINCA**, a port-town of Peru, in South America, situated in an extensive valley, on a river of the same name, about sixty miles south of Lima; west longitude 76°, and south latitude 13°.

**CHIN-COUGH**, a convulsive kind of cough, which children are chiefly subject to, proceeding from a tough, virulent, and acid matter, lodged in the coats of the stomach, which when they vomit, they are clam for a time.

Sometimes this diaphragm proceeds from a more dangerous caufe, which is a certain fall communicated to tender bodies by means of the air, which regulates the lymph, and, which growing sharp and stagnating, affects the larynx.

In the cure of this cough, particular care must be had to the stomach, and without a vomit the cure can hardly be effected. Sperma ceti in broth is of excellent use; but by bleedings and repeated purges this cough may be cured, without other means: yet the milder cathartics ought here to take place. Drinks and liquid aliments should also be taken in less quantity than usual.

**CHINEY**, in the manage, the same with a horfe's back-bone.

**CHINESE**, in general, denotes any thing belonging to China. See **CHINA**.

It is observed by some, that the Chinese language has no analogy with any other language in the world: it only consists of three hundred and thirty words, which are all monosyllables, at least they are pronounced so short that there is no distinguishing above one syllable or sound found in them; but the same word, as pronounced with stronger or weaker tone, has different significations; accordingly when the language is accurately spoke, it makes a sort of music, which has a real melody, that constitutes the essence and distinguishing character of the Chinese tongue.

As to the Chinese characters, they are as singular as the language; the Chinese have not, like us, any alphabet, containing the elements, or, as it were, the principles of their words: instead of an alphabet they use a kind of hieroglyphics, whereof they have above eighty thousand.

**CHINESE**, in general, denotes any thing belonging to China. See **CHINA**.

It is observed by some, that the Chinese language has no analogy with any other language in the world: it only consists of three hundred and thirty words, which are all monosyllables, at least they are pronounced so short that there is no distinguishing above one syllable or sound found in them; but the same word, as pronounced with stronger or weaker tone, has different significations; accordingly when the language is accurately spoke, it makes a sort of music, which has a real melody, that constitutes the essence and distinguishing character of the Chinese tongue.
CHIROGRAPHY, or CHIROGRAPHER, a writing under one's own hand.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHY, chirographeia, a writing under one's own hand.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHY, chirographeia, a writing under one's own hand.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHY, chirographeia, a writing under one's own hand.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.

CHIROGRAPHER, a species of divination, drawn from the different lines and lineaments of a person's hand; by which means, it is pretended, the inclinations may be discovered.
CHISLEY-LAND, in agriculture, a soil of a middle nature between sandy and clayey land, with a large admixture of pebbles.

CHISSEL, an instrument much used in carpentry, masonry, joinery, sculpture, &c. and distinguished according to the breadth of the blade into half-inch chisels, quarter-inch chisels, &c. They have also different names according to the different uses to which they are applied; as, 1. The former, used by carpenters, &c. just after the work is sifted: it is struck with a mallet. 2. The paring-chisel, which is used in paring off the irregularities made by the former: this is prefixed with the workman's shoulder. 3. The skew-former, cleanses acute angles with the point of its narrow edge. 4. The mortice-chisel, used in cutting deep square holes in wood, for mortises: it is narrow, but thick and strong, to endure hard blows. 5. Socket-chisels, having their flanks made with a hollow socket at top, to receive a strong wooden spring fitted into it with a shoulder. 6. Ripping-chisel, having a blunt edge, with no back, used in tearing two pieces of wood asunder. And, 7. the gouge. See the article Gouge.

CHITOR, a city of Piedmont, in Italy, situated on the river Po, about ten miles north of Turin: east long. 7° 35', and north latitude 45° 12'.

CHITON is also the name of a province and city in the bitter India, subject to the mogul: east lon. 76° and north lat. 23° 30'.

CHITSE, or SETSE, in botany. See the article SETSE.

CHITTING, among gardeners, is said of a seed when it first puts forth its slender roots.

CHITUA, in the materia medica, a kind of lignum-aloes, of a reddish colour. See the article LIGNUM-ALOES.

CHIVAGE, or CHEVAGE. See CHEVAGE.

CHIVALRY, in law, is a tenure of service, whereby the tenant is bound to perform some noble or military office to his lord; and is either regal, when held only of the king; or common, such as may be held of a common person as well as the king: the former is properly called serjeancy, and the latter escuage. See the articles SERJEANTY and ESCUAGE. A statute of Charles II. abolishes all tenures by chivalry, in capite; &c. and ordains that all tenures shall be continued to be free and common socage.

CHIUDENDO, in music, is the ending or finishing; thus we say, chiudendo col ritornello, col aria, to end with a ritornello, or with an air. See the article RITORNELLO.

CHIVES, among gardeners, denote the fame with the antherae or apices of botanicals. See the article ANTHERA. Some also call the whole flamina of plants chives. See the article STAMINA.

CHIUREA, a name used by some for the opopium. See the article OPOSIUM.

CHIUSI, a city of Italy, in the duchy of Tuscany, situated on the confines of the pope's territories, about thirty-five miles south-east of Sienna: east long. 15°, and north lat. 43°.

CHLORENA, in antiquity, a winter-garment, worn over the tunica. It was likewise used as a covering for a bed.

CHLAMYS, in antiquity, a military habit worn by the ancients over the tunica. It belonged to the patricians, and was the same in the time of war, that the toga was in the time of peace. This sort of gown was called pila, from the rich embroidery with figures in phrygian-work; and purpurea, because the ground-work was purple. The chlamydes of the emperors were all purple, adorned with a golden or embroidered border.

CHLOREUS, or CHLORIS, in ornithology, the fame with the green-finch, a species of emberiza. See EMERIZA.

CHLOREUS is also used by ancient writers for the albugula. See ALBULA.

CHLORITES, in natural history, a kind of green Jasper, but almost as pellucid as the coriander emeralds. See JASPER.

CHLORORCHYUS, in zoology, the name by which Linnaeus calls the yellow-green beetles. See the article SCARABÆUS.

CHLOROSIS, in medicine, a diseased commonly called the greenishness, incident to girls, maids, widows, and even wives whose husbands are deficient. Various are the symptoms of this disorder, as a feverish habit of body, vomiting, difficulty of breathing, and longing for unnatural foods.

As to the cure, Aëurus recommends borax, mineral waters, electuaries made of preparations of stell, the martial flowers, &c. afoetida, aloes and myrrh, emollient baths, frequent evacuations, and exercise; but above all, matrimony.

CHOCOLATE,
CHOCOLATE, in commerce, a kind of paste, or cake, prepared of certain drugs, the basis of which is the cacao-nut. The Indians, in their first making of chocolate, used to roast the cacao in earthen pots, and having afterwards cleared it of the husks, and bruised it between two stones, they made it into cakes with their hands. The Spaniards improved this method: when the cacao is properly roasted, and well cleaned, they pound it in a mortar, to reduce it into a coarse mass which they afterwards grind on a stone, till it be of the utmost fineness: the paste being sufficiently ground, is put quite hot into tin moulds, in which it congeals in a very little time. The form in Great Britain, drugs without number, as England, the chocolate is made may make chocolate for their own use, provided no less than half an hundred pounds, are the CHOLESTERS, the ancient name of a fifth, called in English the ruffe, a species of pearch. CHOIR, that part of the church or cathedral where choiristers sing divine service: it is separated from the chancel, where the communion is celebrated; and also from the nave of the church, where the people are placed: the patron is said to be obliged to repair the choir of the church. It was in the time of Constantinople that the choir was separated from the nave. In the Xlth century, they began to inclose it with walls; but the antique balustrades have been since restored, out of a view to the beauty of architecture. Choir in nunneries, is a large hall adjoining to the body of the church, separated by a grate, where the nuns sing the office.

CHOLAGOGUES, medicines which purge the bile. Of this kind are mann, caffia, roes, senna, rhubarb, aloes, jalap, scarammony, &c. There is some reason to think that antimonial medicines act more powerfully on the bile than any other remedies. CHOLEDOCHUS, in anatomy, is a common epithet for the gall-bladder, the hepatic vessels, and the common gall-duct which communicates with the duodenum.

CHOLER, or BILE. See Bile.

CHOLERA MORBUS, in medicine, the same with bilious fever. See Bilious.

CHOLIC, or rather Colic. See Colic.

CHOMELIA, in botany, a genus of the pentandria-monozygus class of plants, the flower of which consists of one infundibuliform or funnel-fashioned petal, the limb of which is divided into five oval and reflex segments: the fruit is a roundish bilocular berry, containing four seeds, gibbose on one side, and angulated on the other.

CHOMER, HOMER, or OMER, the same with corus. See the article Corus.
CHONAT, a town of Hungary, situated on the river Merilh, about thirteen miles east of Sgeddon, and subject to the houle of Autfria; east longit. 21° 20', and north lat. 46° 22'.

CHONDRILLA, in botany, a genus of chord of the arch AEB, plate XLI.

CHONDROGLOSSUM, in anatomy, the name of a pair of muscles arising from the cartilaginous process of the os hyoides, and meeting in the base of the tongue, where they are inserted: this pair is not found in all subjects.

CHONDROPTERYGH, in ichthyology, one of the five orders or subdivisions of fishes, the characters of which are these: the rays of the fins are cartilaginous, differing in little from the membrane that constitutes the fin; they have likewise cartilages instead of bones; and the mouth is for the most part situated in the lower part of the body.

Of this order there are only four genera, viz. the petromyzon, accipener, squallus, and raja. See Petromyzon, Accipenser, &c.

CHOP-CHURCH, a nick-name given to parsons who make a practice of exchanging benefices.

It is used by an old statute in the senfe of a trade; but Broke, in his Abridgment, says it was only permissible by law.

CHOPIN, or Chopine, a liquid measure, used both in Scotland and France, and equal to half their pint. See the articles Pint and Measure.

CHORAGIUM, in antiquity, denotes all the theatrical habits, and other implements belonging to the chorus, and likewise the place where they were kept.

CHORAGIUM likewise signified the exequies of a young woman, who died before she was marriageable.

CHORAGUS, in antiquity, the principal person or leader in the chorus.

The choragus hired the players, singers, dancers, &c. at the celebration of public festivals; in which senfe he answers to our manager. See Chorus.

CHORASSAN, a province of Persia, on the north-eaft, adjoining to Ubsec Tartary; this was the antient Baetria; and the native country of the late Kouli Kan.

CHORD, in geometry, a right line drawn from one part of an arch of a circle to the other. Hence,

Chord of an arch is a right line joining the extremes of that arch; thus AB is the chord of the arch AEB, plate XLI. fig. 7.

Chord of the compliment of an arch, the chord that subtends the rest of the arch, or so much as makes up the arch a semi-circle.

It is demonstrated in geometry, that the radius CE (ibid.) bisecting the chord BA in D, does also bisect the arch in E, and is perpendicular to the chord AB. From hence may be deduced these problems: 1. To make a circle pass through any three given points, not lying in a right line. 2. To find the center of any circle. 3. To complete a circle from an arch given. 4. To describe a circle about any triangle given.

Line of Chords, one of the lines of the sector and plane scale. See its description and use under Sector and Plane Scale.

Chords, or Cords, in music, are strings; by the vibration of which the sensation of sound is excited, and by the divisions of which the several degrees of tune are determined. See Tune and Sound.

The chords of musical instruments are ordinarily made of cat-gut; though some are made of brass or iron-wire, as those of harpichords, spinets, &c. Chords of gold-wire in harpichords, would yield a sound almost twice as strong as those of brass; and those of steel a feebler sound than those of brass, as being both less heavy and less ductile.

Mr. Perrault observes, that of late they have invented a way of changing the chords, to render their sounds more strong without altering the tone.

The sixth chord of bas-viol, and the tenth of large theorbo-lutes, consists of fifty threads, or guts, some of which are an hundred feet long, twisted and polished with equisitum, or horse-tail.

The rules for dividing chords so as to constitute any given interval, are as follow: 1. To assign such part of a chord AB as shall constitute any concord; for example, a fifth, or any other interval, with the whole chord: divide the line AB into as many parts as the greatest number of the interval has units; thus the fifth being $2:3$, the line is divided into
three parts of these take as many as the lesser number $2 = AC$, then is $AC$ the part sought; that is, two lines whose lengths are to each other as $AB$ to $AC$, make a fifth. Hence if it be required to find several different sections of the line $AB$, for instance, such as shall be octave, fifth, or third greater; reduce the given ratios $1 : 2, 2 : 3$, and $4 : 5$ to one fundamental, the series becomes $30 : 24, 20 : 15$, the fundamental is $30$, and the sections sought are $24$, the third greater, $20$ the fifth, and $15$ the octave.

2. To find several sections of a line $A$, that from the least part gradually to the whole, shall contain a given series of intervals in any given order, viz.: so as the least to the next greatest contain a third greater; that to the next greater, one fifth; and that to the whole, an octave. Reduce the three ratios $4 : 5, 2 : 3$, and $1 : 2$ to one series; hence we have $30 : 24$, $20 : 15$, $15 : 30$. Divide the line into the number of parts of the greatest extreme of the series, viz. $30$, and you have the several sections of the points of division, answering the several numbers of the series, viz.

$$\frac{8}{15} \quad \frac{10}{30} \quad \frac{12}{60} \quad \frac{15}{90} \quad \frac{18}{120} \quad \frac{20}{150} \quad \frac{24}{180} \quad \frac{30}{210}$$

at the points $C$, $D$, and $E$; so as $AC$ to $AD$ is a third, $AD$ to $AE$ a fifth, $AD$ to $AB$ an octave.

3. To divide a line $AB$ into two parts, to contain between them any interval, e.g. a fourth. Add together the numbers containing the ratio of the interval, for example $3 : 4$, and divide the line into as many parts as the sum, $7$; the point of division answering to any of the given numbers $4$ or $7$, gives the thing sought.

$$\frac{1}{1} \quad \frac{2}{2} \quad \frac{3}{3} \quad \frac{4}{4} \quad \frac{5}{5} \quad \frac{6}{6} \quad \frac{7}{7}$$

4. To find two sections of a line, which with the whole shall be in harmonical proportion with regard to their quantity. Take any three numbers in harmonical proportions, as $3 - 4 - 6$, and divide the whole line into as many parts as the greatest of these three numbers, $6$; and at the points of division answering the two other numbers, $3$ and $4$, you have the section sought.

5. To divide a chord $AB$ in the most simple manner, so as to exhibit all the original concords. Divide the line into two equal parts at $C$, and subdivide the part $CB$ into equal parts at $D$, and again the part $CD$ into equal parts at $E$.

Here $AC : AB$ is an octave, $AC : AD$ a fifth, $AD : AB$ a fourth, $AC : AE$ a third greater; $AE : AD$ a third less; $AE : EB$, a sixth greater; $AE : AB$ a sixth less.

Chord is also used in music for the note or tone to be touched or founded: in this sense the fifth is said to consist of five chords or founds.

Chord, chorda, in anatomy, a little nerve composed by a combination of ramuli of the fifth and seventh pairs, and extended in the manner of a chord, under the membrane of the drum of the ear. See the article tympanum.

Chordapus, in medicine, a disease of the intestines, when to the touch they feel like stretched cords; it is the same with the iliac passion. See the article iliac passion.

Chordee, in medicine and surgery, a symptom attending a gonorrhoea, consisting in a violent pain under the frenum, and along the duct of the urethra, during the erection of the penis, which is incurvated downwards. These erections are frequent and involuntary.

The chordree being a squeezing of the corroded urethra between the cavernous bodies, and the erection being excited by the stimulating matter of a gonorrhoea, the cure is to be performed by preferring the urethra from being corroded, or by suppreffing the erection, by which means the preflure of the urethra will be prevented. The first may be effected by mild diuretix, softening emulsions, and cooling infusions; but the last can only be performed by those means that give the most sudden check to the swelling of the penis, such as immersion in cold water.

It has been found by experience, that rubbing a mercurial ointment into the
the part affected, and along the duct of the urethra, has done considerable service in this complaint.

CHOREA SancTi VitI, St. Vitus's Dance, in medicine. See the article Vitus's Dance.

CHOREEPISCOPUS, or Country-Bishop, an affiHnt to a bishop, first introduced into the church when the dioceses became enlarged by the conversion of the pagans in the country and villages at a distance from the mother-church. There are different opinions concerning the nature of this order: some think, that they were presbyters, and never had episcopal ordination; others say, there were two classes of them, some that had episcopal ordination, and others that were simple-presbyters; and a third party imagine they were properly what we now call bishops in partibus.

CHOREPISCOPUS is also the name of a dignity in some cathedrals in Germany, signifying the same with chori-episcopus, or bishop of the choir. The first chanter in the church of Cologne is called chori-episcopus.

CHOREUS, in antient poetry, the same with trochæus, or trochee. See the article Trochee.

CHORGES, or Gorges, a town of Dauphiny, in France, about six miles east of Gap; east longitude 6°, and north lat. 44° 36'.

CHORIAMBUS, in antient poetry, a foot consisting of four syllables, whereof the first and last are long, and the two middle ones are short; or, which is the same thing, it is made up of a trochæus and iambeus: such is the word nobilitas.

CHORION, in anatomy, the exterior membrane which invests the fetus in the uterus: it is thick, spongy, villous, and furnished with a vast apparatus of blood-vessels. It is contiguous to the uterus, and is separable into two membranes or parts.

CHORIST, or Chorister, one who sings in the choir. See the article Choir.

CHOROBATA, or Chorobates, a kind of water-level among the antients, of the figure of the letter T, according to Vitruvius's description.

CHOROGRAPHY, the art of making a map of some country or province. Chorography differs from geography, as the description of a particular country does from that of the whole earth; and from topography, as the description of a country differs from that of a town or district. See the articles Geography and Topography.

CHOROIDES, in anatomy, an epithet of several membranes, which on account of the multitude of their blood-vessels resemble the chorion. See Chorion.

CHOROIDES denotes the coat of the eye placed immediately under the sclerotica, the inferior lamella of which is called tunica ruyfchiana; it is very full of vessels, and coloured black.

Mr. Le Cat, in his description of the parts of the eye, maintains Mariot's opinion of the choroid coat, and not the retina, being the immediate organ of vision. The retina, according to him, is to the choroid, what the epidermis is to the skin.

CHOROIDES is used for a portion of the pia mater. See the article Pia Mater.

Plexus Choroides is a convolution of the membranes of the brain, consisting of an assemblage of veins and arteries.

CHORO-FAVORITO, in the Italian music, a chorus in which are employed the best voices and instruments, to sing the recitatives, play the ritornelles, &c. It is otherwise called the little chorus, or choro recitante.

Choro-spezzato, in the Italian music, a composition of two, three, or four chorusses. See the next article.

CHORUS, in dramatic poetry, one or more persons present on the stage during the representation, and supposed to be bystanders without any share in the action. Tragedy in its origin was no more than a single chorus, who trod the stage alone, and without any actors, singing dithyrambs or hymns in honour of Bacchus. Theopis, to relieve the chorus, added an actor, who rehearsed the adventures of some of their heroes; and Aeschylus, finding a single person too dry an entertainment, added a second, at the same time reducing the singing of the chorus, to make more room for the recitation. But when once tragedy began to be formed, the recitative, which at first was intended only as an accessory part to give the chorus a breathing time, became a principal part of the tragedy. At length, however, the chorus became inferted and incorporated into the action: sometimes it was to speak, and then their chief, whom they called coryphæus, spoke in behalf of the rest: the singing was performed by the whole company; so that when the coryphæus struck into a song, the chorus immediately joined him.
The chorus sometimes also joined the actors in the course of the represenation, with their plaints and lamentations on account of any unhappy accidents that befell them: but the proper function, and that for which it seemed chiefly retained, was to shew the intervals of the acts: while the actors were behind the scenes, the chorus engaged the spectators; their songs usually turned on what was exhibited, and were not to contain any thing but what was suited to the subject, and had a natural connection with it; so that the chorus concurred with the actors for advancing the action. In the modern tragedies the chorus is laid aside, and butted, but what was suited to the subject, and looks on this retrenchment as of ill consequence, and great part of its luxury; he therefore considers it necessary to re-establish it, not only on account of the regularity of the piece, but also to correct, by prudent and virtuous reflections, any extravagances that might fall from the mouths of the actors, when under any violent passion.

Mr. Dacier observed also, that there was a chorus, or grex, in the ancient comedy; but this is suppressed in the new comedy, because it was used to reprove vices by attacking particular persons; as the chorus of the tragedy was laid aside to give the greater probability to those kind of intrigues which require secrecy.

To give the Chorus, among the Greeks, was to purchase a dramatic piece of the poet, and defray the expenses of representation. See the article Choragus.

Chorus, in music, is when, at certain periods of a song, the whole company are to join the finger in repeating certain couplets, or verses.

The word chorus is often placed in Italian music, instead of tutti, or da capella, which mean the grand chorus. When after chorus we meet with primo, we must understand that it is to be played in the first chorus; if seco, or primo, or primus, in the second; and, consequently, that the composition is for eight voices or different parts.

Chosair, a town of Egypt, situated on the coast of the Red-sea.

Chose, in the common law, is used with various epithets: as, Chose in action, is an incorporeal thing, and only a right, as an annuity, bond, covenant, &c. and generally, all causes of suit, for any duty or wrong, are accounted choses in action.

Choses in action may be also called choses in futuro, as having no real existence, and not being properly in our possession.

Chose local is anything that is annexed to a place, such as a mill, &c.

Chose transitory, something moveable, and which may be taken away, or carried from place to place.

Chotzim, a frontier-town of Moldavia, on the confines of Poland, situated on the river Neiter, and subject to the Turks: east longit. 27°, and north lat. 48°.

Chouan, in commerce, the levant name for the feed of a species of fantasies, known among us by that of carmine-feed, from its being used in the preparation of that drug. See Carmine.

Choug, a town of Syria, upon the road from Aleppo to Sayde, called by some travellers Shoggle.

Chough, or Cornish Chough, in ornithology, a species of corvus, otherwise called coracias. See the articles Corvus and Coracias.

Chremnit, or Chremnites, the principal of the mine-towns in upper Hungary, situated about sixty-eight miles north-east of Prezburg, and subject to the house of Austria: east longit. 19°, and north latitude 43° 45'.

Chremps, in ichthyology, a species of sparus, with the second ray of the belly-fins terminating in a kind of bristle.

Chrism, χρισματος, oil consecrated by the bishop, and used in the romish and greek churches in the administration of baptism, confirmation, ordination, and extreme unction.

It is observed, that there are two kinds of chrism, the one prepared of oil and balm, used in baptism, confirmation, and ordination: the other of oil alone, consecrated by the bishop, used antiently for the catechumens, and still in extreme unction.

The chrism is prepared on Holy-thursday with a world of ceremony. In Spain it was antiently the custom for the bishop to take one third of a fol for the chrism distributed to each church, on account of the balm that entered its composition.

The action of imposing the chrism is called chrismation: this the generality of the romish divines hold to be the next matter to the sacrament of confirmation. The chrismation in baptism is performed by the priest, that in confirmation by the bishop.
CHRISM-THORN, in botany, a name given to the paliurus, a species of rhamnus. See the article Rhamnus.

CHRISTENING, denotes the name with baptism. See the article Baptism.

CHRISTIAN, in a general sense, something belonging to Christ. See Christ.

CHRISTIAN CHURCH. See Church.

CHRISTIAN COURT, christianitatis curia, the ecclesiastical or bishop's court, in contradistinction to the civil courts, which are called the king's courts, curiae domini regis. See Bishop's-court.

Most Christian king, rex christianissimus, one of the titles of the king of France.

The French antiquaries trace the origin of this appellation up to Gregory the great, who writing a letter to Charles Martel, occasionally gave him that title, which his successors have since retained.

CHRISTIAN NAME, that given at baptism. See the article Name.

CHRISTIAN RELIGION, that instituted by Jesus Christ.

As the christian religion hath the purest and most abstracted, the highest and most rational spiritual notions, so has it been most subject to differences of opinions, and distractions of conscience; the several sects whereof are taken notice of under their proper heads.

If we consider the christian religion with regard to its principles, it cannot be denied but they are very obscure, and difficult to be understood, and its mysteries are above the reach of human comprehension. The obscurity of them is no doubt owing, in a great measure, to the subtleties introduced by several philosophers, who became profelytes to christianity in the first ages of the church, and who afterwards becoming doctors, endeavoured to explain the mysteries of the christian religion by arguments borrowed from the Platonic and other pagan systems of philosophy. Their successors likewise, by their laboured explanations, added new obscurities to those which they found before; and the human passions insensibly blending with these systems, nothing more was wanting to render the christian religion an impenetrable mystery. To this, no doubt, is owing the origin of that number of sects and heresies which have sprung up in the church, each of which lays claim to a primitive purity of doctrine, the characteristic of divine inspiration, a right of superiority, and a perfect knowledge of the way to heaven; and there is not one which,

CHRISM-PENCE, a tribute antiently paid to the bishop by the parish clergy for their chrism, consecrated at Easter for the ensuing year: this was afterwards condemned as simonical.

CHRISOM, chrismate, in antient customs, was the face-cloth, or piece of linnen laid over the child's head when it was baptized; whence, in our bills of mortality, such children as die in the month, are called chrifoms: the time between the birth and baptism, was also called chrifoms.

CHRIST, XPM, an appellation usually given to our Saviour, answering exactly to the hebrew meffiah, and signifying one that is anointed. See Messiah.

It does not appear that Jesus Christ ever received any external visible unction, and therefore his anointing must be understood in a figurative, spiritual sense, to denote his designation or appointment to the office of a meffiah.

The Jews used to give this appellation to their kings. Now as the holy unction was given to kings, priests, and prophets, so by describing the promised favour of the world under the name of anointed, it was sufficiently evidenced that the qualities of king, prophet, and high priest, would all evidently meet in him.

Order of Christ, a military order, founded by Dionysus I. king of Portugal, to animate his nobles against the Moors.

The arms of this order are gules, a patriarchal cross, charged with another cross argent: they had their residence at first at Caftromain, afterwards they removed to the city of Thomar, as being nearer to the Moors of Andalufia and Estremadura.

Christ is also the name of a military order in Livonia, instituted in 1305, by Albert bishop of Riga. The end of this institution was to defend the new christians, who were converted every day in Livonia, but were persecuted by the heathens. They wore on their cloaks a sword with a cross over it, whence they were also denominat ed brothers of the sword.

Christ-Burgh, a town of Poland, near the lake Draufen, and about three polish miles from Marienburgh.

Christ-Church, a borough-town of Hampshire, thirty miles south-west of Winchester, near the sea-coast: west long. 2°, north lat. 50° 40'.

It sends two members to parliament.
which, indirectly at least, can forbear
damning the rest who differ from it.
The excellency of its morals is a de-
monstration of the divine original of
the christian religion. It consists not in idle
philosophical speculations, or perpetual
grinace and affectation, but in a steady
practice of the duties it requires, without
the least view of recompence from men:
it neither seeks their admiration, nor at-
ttempts to dazzle their eyes and deceive
them: there is no religion which ex-
cites man more to the love and practice
of virtue, and hatred of vice, or that pre-
scribes greater rewards for the one, or
punishments for the other.
The christian religion, in regard to the
practice of it, consists in the most exact
imitation, that possibly can be conceived,
of the infinite perfections of the supreme
being: from hence we may derive that
solid virtue, that power which it gives
us to subdue our passions, and that sa-
tisfaction which we receive from the ob-
servance of those laws to the utmost of
our abilities, which God has prescribed
to mankind.
The characters of christianity are per-
fectly conformable to the attributes of
the divine majesty. The moral part
never indulges the passions: it has no
other view than the preservation and hap-
piness of mankind; nor have the most
inveterate enemies of the christian faith
ever invented any thing but what was
much inferior to it, both in practice and
speculation.
CHRISTIANS, those who profess to be
lieve and practise the christian religion,
and are baptized in the name of Jesus Christ.
When christianity was first planted in
the world, those who embraced it were
known among themselves by the names of
disciples, believers, elect, saints and
brethren: nor did they assume the
name of christians till the year 43 at
Antioch, where St. Paul and Barnabas
jointly preached the christian religion.
The primitive christians were known by
several denominations. Epiphanius says
they were called Jejeans, either from
Jele, the father of David, or, what is
more probable, from Jesus, whose disci-
plies they were. Eusebius says that they
were called therapeutes, i. e. worshipers
of the true God; or spiritual physiciens:
and because the christian life took its ori-
ginal from the waters of baptism, the
christians were wont to please themselves
 VOL. I.
with the name pectori, i. e. fisnes.
Sometimes they filled themselves gnostics,
i. e. men of understanding and know-
ledge; which name being afterwards
abused by a perverfe fort of heretics, they
added the title of christians to it, and
gave themselves the name of christians-
gnostics.
The christians had also many names of
of reproach cast upon them by their ene-
 mies, such as nazarens, galileans,
greeks, impostors, atheists, &c. which
last name was common, upon account
of their deriding the worship of the hea-
then gods.
CHRISTIANS of St. JOHN, a sect of chris-
tians very numerous in Ballaré, and
the neighbouring towns: they formerly
inhabited along the river Jordan, where
St. John baptized, and it was thence
they had their name. They hold an
anniversary feast of five days, during
which they all go to the bishop, who
baptizes them with the baptism of St.
John. Their baptism is also performed
on rivers, and that only on Sundays;
they have no notion of the third perfum
in the trinity, nor have they any cano-
nical book, but abundance full of charms,
&c. Their bishoprics defend by inhe-
rance, as our electors do, tho' they have
the ceremony of an election.
CHRISTIANS of St. Thomas, a sect of chris-
tians in a peninsula of India, on this
side of the gulph: they inhabit chiefly
at Crangranor, and the neighbouring
country: these admit of no images, and
receive only the crofs, to which they pay
a great veneration: they affirm that
the souls of the fairs do not see God till af-
ter the day of judgment: they acknow-
ledge but three sacraments, viz. bap-
tism, orders, and the etcharift: they
make no use of holy oils in the admini-
stration of baptism, but after the cere-
mony anoint the infant with an un-
cion composed of oil and walnuts, with-
out any benediction. In the eucharist,
they consecrate with little cakes made of
oil and salt, and instead of wine, make
use of water in which raifins have been
infused.
CHRISTIANA, a town of Norway, in
the province of Agghuys, situated on
a bay of the sea, 100 miles north of
Gottenburg: east long. 10° 15', north
lat. 59° 30'.
CHRISTIANOPLE, a port-town of Swe-
den, situated on the Baltic sea, in the
north west

 territory
CHR [578] CHR

territory of Bleking, and province of
south Gothland, about thirteen miles
north-east of Carelcrioon: east long. 15°
40', north lat. 57°.

CHRISTIANBURG, a Danish factory
upon the gold-coast of Africa, near Acra.

CHRISTIANSTADT, a town of Sweden,
situated on the river Helles, in the
province of Gothland, forty-five miles west of
Carelcrioon: east long. 14° 40', north 
lat. 55° 30'.

CHRISTMAS, a festival of the Christian
church, observed on the 25th of December,
in memory of the nativity of Jesus
Christ.

Whether this festival was always ob-
observed on the 25th of December, is a
matter of doubt. Dr. Cave is of opin-
ion, that it was first kept by the eastern
church in January, and confounded with
the epiphany, till, receiving better in-
formation from the western churches,
they changed it to that day. St. Chry-
stofohm affirms, that it was not above ten
years since Christmas began to be cele-
brated in the church of Antioch upon
that day: Clemens Alexandrinus reck-
nons from the birth of Christ to the death
of Commodus, exactly 194 years, one
month, and thirteen days; which time,
being taken according to the Egyptian
account, and reduced to the Julian or
Gregorian style, makes the birth of Christ
fall on the 25th or 26th of December.

Yet notwithstanding this, the fame father
tells us, that there were some who, more
curiously searching after the year and
day of Christ's nativity, affixed the latter to
the 25th of the month pacbon. Now
in that year in which Christ was born,
the month pacbon commenced the 20th
of April, so that according to this com-
putation, Christ was born on the 16th of
May. Hence we may see how little
certainty there is in this matter, since so
soon after the event, the learned were
divided in opinion concerning it. As
to the antiquity of this festival, the first
footsteps we find of it were in the second
century, about the time of the emperor
Commodus.

CHRISTMAS-ROSE, in botany, a name
sometimes given to a species of black
hellebore. See the article Hellebore.

CHRISTOLYTI, in church-history, a
feal of Christian heretics, who maintained
that Christ descended into hell body and
soul, and that he left both there, ascend-
ing into heaven with his divinity alone,

CHRISTOMACHI, an appellation given
to all heretics who deny Christ's divi-
nity, or maintain heterodox opinions
concerning his incarnation.

CHRISTOPHER-HERB, christophoriana,
in botany. See Christophoriana.

CHRISTOPHERS, or St. Christopher,
eone of the Caribbee-islands, to
which Columbus gave his Christian name:
west long. 62°, north lat. 17° 30'.
It is about twenty miles long, and seven
bread; and has a high mountain in the
middle, from whence some rivulets run
down. Its produce is chiefly sugar,
cotton, ginger, and indigo. It is a Brit-
ish colony, and lies about sixty miles
west of Antego.

CHRISTOPHORIANA, Christophoriana,
in botany, a genus of the
polyandria-monogyniaclas of plants, called
by Linnaeus alicia; the flower of which
is roaceous, consisting of four petals:
the fruit is a roundish, oval, unilocular
berry, containing a number of semi-cir-
cular seeds, disposed in a double row,
with their straight sides towards each other.

CHRISTOPHORUS PISCIS, the name
by which some call the John Dore, a
fish, more usually called Faber, and a spe-
cies of zeus. See Zeus and Faber.

CHROE, among ancient musicians, de-
notes the fame with colours, genus, and
species. See the articles Colours,
Genus, &c.

CHROASTACES, in natural-history, a
genus of pellucid gems, comprehending
all those of variable colours, as viewed
in different lights; of which kind are
the opal and the alteria, or oculus cati.
See the articles Opal and Asteria.

CHROMA, in music, a note or character
of time, usually termed a quaver. See the
articles Character and Quaver.

Chroma is also a graceful way of singing,
or playing with quavers and trillons.

CHROMATIC, in the ancient music, the
second of the three kinds into which the
consonant intervals were subdivided into
their concinnous parts. The other two
kinds are enharmonic and diatonic. See
the articles Enharmonic, &c.

The chromatic abounds in femitones: it
had its name by reason the Greeks mark-
ed it with the character of colour; which
they call Κυραμος; or as P. Parran says,
because it is the medium between the
other two, as colour is between black and
white; or because the chromatic kind
varies, and embellishes the diatonic by its
femitones, which have the same effects in
music,
music, as the variety of colours have in painting.

The degrees or elements of the chromatic genus, are the two semitones and triemitanium. Aristothenes divides the chromatic genus into three species, the molle, bemidion, and tonicum. Ptolemy into molle, or antiquum, and intensem. The molle expresses a progression by small intervals, the intensem by greater. The Spartans banished it their city, because of its softness.

Mr. Malcolm observes, that we are as a lofs to know what use the antients could make of these divisions and sub-divisions into genera and species. All acknowledge the diatonic to be the true melody: the others seem only numerous irregularities, calculated to please the fancy by their novelty and oddities; and are besides so difficult, that few, if any, are said to have practifed them accurately. Notwithstanding this cenfure of Malcolm, it is plain that the accidental flats and sharps which belong to the chromatic genus, are the cause of that vast variety of airs to be found in the modern music.

Chromatic, in painting, a term used to signify the colouring, which makes the third part in the art of painting.

Chromis, in ichthyology, a name used for two very different kinds of fish, viz. a species of sparus called also chremps, and the scienza with the upper jaw longeft, and otherwise called umbra. See the article Sparus and Scienza.

Chronic, or Chronical, among physicians, an appellation given to diseases that continue a long time, in contradistinction to those that soon terminate, and are called acute.

If health consists in a free and uninterrupted circulation of the vital juices through the vessels, and a disease in an interruption of this circulation, we may conceive that an acute distemper arises, when many and extensive obstructions occupy a great number of the vessels all of a sudden; for then the usual quantity of blood is impelled through a smaller space, and returns sooner to the heart: in consequence of this, the contractions of the heart are more frequent, the velocity of the circulating juices is greater, the reciprocal action between the fluids and fluids is increased, and of course the heat of the body.

But when obstructions are formed by degrees, and by little at a time, however extensive they may become ultimately, no such sudden alteration is induced; but the vital powers, perhaps by discharging out of the body a portion of the superfluous juices, find a way of preserving the equilibrium betwixt the fluids and fluids, and of adapting the circulating fluids to the capacity of the pervious vessels, without raising a degree of fever sufficient to impart the name of acute to the disorder. Chronical diseases then may be said to be produced in the body by some peculiarity in the juices, either contracted insensibly and by degrees, or else left by some acute distemper ill cured.

Chronicle, chronicle, in matters of literature, a species or kind of history, disposed according to the order of time, and agreeing in most respects with annals. See the article Annals.

The word chronicle is now become obsolete, being seldom used except in speaking of the old English histories, as Stow's chronicle, Holinhead's chronicle, &c.

Books of Chronicles, in the can of Scripture, two sacred books, called by the Greeks paralipomena, or paralipomena, that is, remains, additions, or supplements, as containing many circumstances omitted in the other historical books. In effect, the paralipomena, or chronicles, are an abridgment of sacred history to the return of the Jews from the Babylonish captivity. The first book traces the genealogies of the Israelites from Adam, describes the death of king Saul, and gives a brief but accurate account of king David's reign. The second, as faithfully traces the progress of the kingdom of Judah, its various revolutions, its period under King Zedekiah, and the restoration of the Jews by Cyrus.
CHRONOSCOPE, denotes much the same with chronometer. See the preceding article.

CHROSTASIMA, in natural history, a genus of pellucid gems, comprehending all those which appear of one simple and permanent colour in all lights: such are the diamond, carbuncle, ruby, garnet, amethyst, sapphire, beryl, emerald, and the topaz. See the articles DIAMOND, CARBUNCLE, &c.

CHRYSAETUS, or CHRYSAETOS, in onychology, a name given to the eagle with a yellow cerb or membrane, covering the base of the beak.

CHRYSALIS, in natural history, a state of rest and seeming infelicity which butterflies, moths, and several other kinds of insects, must pass through before they arrive at their winged or most perfect state. See BUTTERFLY.

The first state of these animals is in the caterpillar or reptile form; then they pass into the chrysalis-state, wherein they remain, immovably fixed to one spot, and surronded with a cover or covering, which is generally of a conical figure; and, lastly, after spending the usual time in this middle state, they throw off the external case wherein they lay imprisoned, and appear in their most perfect and winged form of butterflies, or flies. See CATERPILLAR.

Through the whole course of this transformation, the animal remains the same, only surronded with different coverings: in the caterpillar-form, it is a kind of fexus or embryo, wrapped up in several coats, the limbs of which can only be discovered by the assistance of the microscope: in the chrysalis or nymph-state, it acquires a farther degree of maturity, and then the limbs, wings, &c. become perfectly distinct; and, at length, it disengages itself, and becomes an inhabitant of the air, adorned with a peculiar kind of plumage; in this last state the two fexes copulate, and the female lays her eggs, to be afterwards hatched into caterpillars, and to pass through the like changes with the parent insect.

CHRYSANTHEMIDES, in botany, the same with the offcefermum of Linneus. See OSTEOPERMUM.

CHRYSANTHEMUM, in botany, a genus of plants belonging to the Linneas. See OSTEOPERMUM.
funnel-form, and the female ligulate, oblong, and tridecimated. There is no pericarpium: the immutated cup contains, in the hermaphroditic, solitary, oblong, naked seeds; in the female, seeds very like those of the hermaphroditic. The flowers of this plant being bruised with cerate, are said to induce a feataloma.

CHRYSITES, in natural history, a name used by some for litchburn of gold.

CHRYSOBALANUS, in botany, a genus of the polygonia-monogynia class of plants, the flower of which consists of five ovated, plain, patent petals; the fruit is an ovated large berry, with one cell, containing an ovated, brittle, wrinkled kernel, with five furrows.

CHRYSOBERYL, a kind of beryl with a tincture of yellow. See BERYL.

CHRYSOCOLLA, in natural history, a species of green oehres. See OCHRA.

CHRYSOCOLLA is also used for gum amnoniac. See Ammoniac.

CHRYSOCOMA, or CHRYSOCOME, goldylock, in botany, a genus of plants belonging to the fynenofia-polygania-egualis class of plants, the compound flower of which is tubular, the proper one of a funnel-form, with a quinquifid limb. There is no pericarpium, but the cup scarcely immutated, contains solitary, ovato-oblong, compressed seeds, crown'd with a hairy down.

CHRYSOGONUM, moth-mullein, in botany, a genus of plants belonging to the fynenofia-polygania-necessaria class: the universal flower is radiated; the proper hermaphroditic one of a funnel-form quinquiflated and erect; the female one plain, oblong, truncated, and tridentated. There is no pericarpium: the immutated cup contains solitary, obvexifoliated, quadrangular seeds in the female; the hermaphrodites prove abortive.

CHRYSOGONUM is also used by some for the leontice or leontopetalon of the generality of botanists.

CHRYSOLACHANON, in botany, the name by which Pliny calls the white garden-beet.

CHRYSOLAMPIS, and CHRYSOPETRON, names used by ancient writers for our chryfolite. See the next article.

CHRYSOLITE, in natural history, a gem which the antients knew under the name of the topaz; and the true chryfolite of the antients, which had its name from its fine gold-yellow colour, is now universally called topaz by modern jewellers. See the article Topaz.

The chryfolite of our times is found of various sizes: the most common, however, when purest and most valuable, is about the size of a nutmeg. It is of various figures, but never columnar, or in the figure of crystal. Sometimes it is found in roundish, irregular, pebble-like mafles; at other times flat and oblong, but always with a rude surface. Its colour is a pale dead green, with an admixture of yellow; but the most usual tinge is the colour of an unripe olive, with somewhat of a brassy yellow. It is very soft in comparison of the other gems, and its finest pieces does not exceed chryfolite in hardness. It is found in New Spain, and in several parts of Sileia and Bohemia. The American ones are greatly inferior to the European, but are usually small: the bohemian are very large; and few of them are of a clear colour, or free from flaws.

CHRYSOLITE-PASTE, a kind of glass made in imitation of natural chryfolite, by mixing two ounces of prepared crystal, with ten ounces of red-lead, adding twelve grains of crocus martis made with vinegar; and then baking the whole for twenty-four hours, or longer, in a well luted crucible.

CHRYSOMELA, in zoology, a genus of insects with bracelet-like antennae, thickly towards the extremities; the body of an oval form, and the thorax rounded. Of this genus, which belongs to the order of coleoptera, there are different species, denominated from the trees on which they feed, as the chryomela of taza, beech, alder, willow, &c. Some being of one colour, some of another, with a tinge of gold-colour diffused through it.

CHRYSOMITHRES, in ornithology, a name sometimes given to the gold-finch.

CHRYSOPETRON, the same with chryfolampis. See CHRYSOLAMPIS.

CHRYSOPHYS, in ichthyology, the name given by antient writers to our gilt-head, a species of sparus, with a very acute back, and an arched line of a gold-colour between the eyes. See the article Sparus.

CHRYSOPHYLLUM, star-apple, in botany, a genus of the pentandria-mongyna class of plants; the flower of which is monopetalous and campanulated, with the limb divided into ten segments, alternately roundish and patulous, and narrow and erect: the fruit is a subovated large berry with one cell, containing three obovate seeds.
CHRYSOPRASUS, or CHRYSPORASUS, the tenth of the precious stones, mentioned in the Revelations, as forming the foundation of the heavenly Jerusalem.

The chryosophus is a species of praefus, of a pale but pure green colour, with an admixture of yellow. See PRASIUM.

CHRYSOPS, GOLDEN-EYE, in zoology, a species of hemerobius, so called from the colour of its eyes. See Hemerobius.

CHRYSOSPLENUM, GOLDEN-SAXIFRAGE, in botany, a genus of the mentioned by Helmont, which, he says, procures hardiness to lead, and difficulty of liquefaction to tin and mercury, but deprives iron of both these qualities.

CRYSTAL, or CRYSTAL. See the article CRYSTAL.

CRYSTALLINE and CRYSTALLIZATION. See the articles CRYSTALLINE and CRYSTALLIZATION.

CHUB, or CHUBB, in ichthyology, the English name of a species of cyprinus, with eleven rays in the pinna ani. See the article CYPRINUS.

When full grown, it is about a foot in length. See plate XLI. fig. 8.

CHUCHIA, in zoology, one of the many names given to the opossum. See the article OPOSSUM.

CHUCHU, a city of China, situated in 28° 31' north latitude, and 3° 5' east of Pekin.

CHUPMESSAHITES, a sect of mohametans, who believe that Jesus Christ was God, and the redeemer of the world; an opinion which they maintain with such courage, as to choose to die rather than deny it.

This sect is said to be very numerous, tho' few dare make profession of it openly. The word signifies as much as protectors of the christians.

CHURCH, has different significations, according to the different subjects to which it is applied. 1. It is understood of the collective body of christians, or all those over the face of the whole earth who profess to believe in Christ, and acknowledge him to be the Saviour of mankind. This is what the antient writers call the catholic or universal church. Sometimes the word church is considered in a more extensive sense, and divided into several branches, as the church militant, is the assembly of the faithful on earth; the church triumphant, that of the faithful already in glory, to which the papists add the church patient, which, according to their doctrines, is that of the faithful in purgatory.

2. Church is applied to any particular congregation of christians, who at one time, and in one place, associate together and concur in the participation of all the institutions of Jesus Christ, with their proper pastors and ministers. Thus we read of the church of Antioch, the church of Alexandria, the church of Thessalonica, and the like.

3. Church denotes a particular sect of christians distinguished by particular doctrines and ceremonies. In this sense we speak of the roman church, the greek church, the reformed church, the church of England, &c.

The latin or western church, comprehends all the churches of Italy, France, Spain, Africa, the north, and all other countries whither the Romans carried their language. Great Britain, part of the Netherlands, of Germany, and of the North, have been separated from hence ever since the time of Henry VIII. and constitute what we call the reformed church, and what the romanists call the western schism.

The greek or eastern church, comprehends the churches of all the countries antiently subject to the greek or eastern empire, and through which their language was carried; that is, all the space extended from Greece to Mesopotamia and Persia, and thence into Egypt. This church has been divided from the roman, ever since the time of the emperor Phocas.

The gallican church, denotes the church of France, under the government and direction of their respective bishops and pastors. This church has always enjoyed certain franchises and immunities, not as grants from popes, but as derived to her from her first original, and which she has taken care never to relinquish. These liberties depend upon two maxims; the first, that the pope has no authority or right to command or order any thing either in general or in particular, in which the temporalities and civil rights of the kingdom are concerned; the second, that notwithstanding the pope's supremacy is owned in cases purely
purely spiritual, yet, in France, his power is limited and regulated by the decrees and canons of ancient councils received in that realm.

4. The word church is used to signify the body of ecclesiastics, or the clergy, in contradistinction to the laity. See the article Clergy.

5. Church is used for the place where a particular congregation or society of Christians assemble for the celebration of divine service. In this sense, churches are variously denominated, according to the rank, degree, discipline, &c. as metropolitan church, patriarchal church, cathedral church, parochial church, collegiate church, &c. See Metropolis, Patriarch, &c.

As to the form and fashion of the primitive churches, it was for the most part oblong; which figure, we learn from the constitutions, was intended to represent a ship, the common symbol of the church of Christ: and as to the several parts of which they consisted in those early ages, it appears that at the entrance of them was the vestibulum or porch, called also atrium and ναός, adorned with cloisters, marble columns, and cisterns of water, where the lowest order of penitents stood begging the prayers of the faithful as they went in; that the church itself consisted of the narthex, where stood the catechumens, the energumeni, and the hearers, who were one order of penitents; of the ναός, or nave, where the faithful assembled for the celebration of divine service; and of the ἱππαρτική, or δωμάτιον, separated from the rest of the church by near rails called cancelli. Into this part none were allowed to come, but those in holy orders, the emperors excepted, who came up to the table to make their offerings, and then went back again. Within this division was the communion-table, or altar.

As to the ornaments of the ancient churches, they were either εἰκονομαξία, symbolical memorials or hieroglyphical representations of the kindreds which they had received, in imitation of the votive tablets of the gentiles; or they consisted of portions of scripture, written upon the walls. A very considerable ornament was beautifying the roofs with gilding and mosaic work. Sometimes they decked their churches with flowers and branches; but as to pictures, the use of them was not allowed for the first 300 years, being first introduced by Paulinus bishop of Nola, about the latter end of the fourth century.

Church, with regard to architecture is defined by Daviler a large oblong edifice in form of a ship, with nave, choir, aisles, chapel, belfry, &c. See each of these under its proper head.

Simple Church, that which has only a nave and choir.

Church with isles, that which has a row of porticos in form of vaulted galleries, with chapels in its circumference.

Church in a Greek cross, that where the length of the traversle part is equal to the length of the nave, so called because most of the Greek churches are built in this form.

Church in a Latin cross, that where the nave is longer than the cross part, as in most of the Gothic churches.

Church in rotundo, that whose plan is a perfect circle, in imitation of the pantheon at Rome.

Church-government, Discipline, &c. See Ecclesiastical government, Discipline, Policy, &c.

Church-hill-fort, in geography. See the article Prince of Wales's Fort.

Church-reeves, the same with churchwardens.

Church-scot, signifies customary obligations paid to a parish-priest, from which the religious sometimes purchased an exemption. By the Latin writers it was called primitiae feminis, on account it was first a quantity of corn paid to the priest on St. Martin's day, as the first fruit of harvest.

Church-stretton, a market-town of Shropshire, about twelve miles south of Shrewbury: west long. 2° 50', north lat. 52° 35'.

Church-thane, the same with altar-thane. See Altar-thane.

Church-wardens, formerly called church-reeves, are officers chosen yearly, in Easter-week, by the minister and parishioners of every parish, to look after the church, church-yard, church-revenues, &c. also to observe the behaviour of the parishioners, in relation to such misdemeanors as appertain to the church or jurisdiction of the ecclesiastical court.

They are to be chosen by the joint consent of the minister and his parishioners, and, by custom, the minister may choose one, and the parishioners another; or, if there be a custom for it, the parishioners may elect both, though it is against the canon.
CHURCÓ, a town of Turkey, in Asia, upon the coast of Caramania.

CHURLE, CERLE, or CARI, in the time of the Saxons, signified a tenant at will, who held land of the thanes on condition of rent and service. They were of two sorts, one like our farmers that rented the outland estates, the other which tilled and manured the demesnes, and therefore called ploughmen.

CHURN-OWL, in ornithology, a name given to a species of swallow, otherwise called caprimulgus, or the goat-ticker. See the article CAPRIMULGUS.

CHURN-WORM, in zoology, the same with the gryllotalpa. See GRYLLOTALPA.

CHUSAN, or CHEUXAN, an island on the eastern coast of China, near the province of Chekiam: east long. 124°, north lat. 30° 40'.

CHUSISTAN, a province in the south-west part of Persia, bounded by the gulf of Persia on the south, and by the province of Eyraca-Agem on the north.

CHUTON, or CHUTTON, a market-town of Somerfethire, about seven miles north-east of Wells: west long. 2° 56', north lat. 51° 25'.

CHYLE, in the animal economy, a milky fluid, secreted from the aliments by means of digestion.

The principles of the chyle seem to be sulphureous, mucilaginous, saline, and aqueous. It is a kind of natural emulsion, both with regard to the colour, the ingredients, and the manner of preparation. There is this difference between the artificial and natural emulsion, that the latter is far more pure, and is prepared with much greater apparatus, not by the sudden expression of part of the liquid, but by a gentle and succusive percolation. The chyle is made thinner or latter, according to the difference of the temperatures, strength, aliments and custom: therefore how many hours chylification requires, cannot be certainly determined. When the chyle enters the viscid calices of the lacetals, it is not a fluid extracted merely from the aliment and drink, but a mixture of several fluids; that is, the saliva and thinner mucus of the mouth, and the two fluids of the oesophagus, one proceeding from the viscid membrane of the tube itself, the other from its glands. To these may be added the glutinous fluid of the stomach, the pancreatic juice, the fluid of peyer's glands, which are very numerous in the small intestines. Hence the reason appears, why...
The finer part of the reducing, 
why men may live upon bread and water, 
why the oriental nations use rice in the room of all kinds of pulse, and why acids, 
spirituos liquors, saline things, and 
many vegetable juices, herbs, roots, 
acrid and aromatic substances, are the least fit to generate chyle. 

Some of the antients supposed the chyle was changed into blood in the liver; 
others of them in the heart: but the moderns, with more reason, take the change to be effected by the blood itself, 
in all the parts of the body. See the article Sanguification.

CHYLIFICATION, the formation of the chyle, or the act whereby the food is changed into chyle. See the articles Food and Chyle. 

Chylification commences by commutating the aliment in the mouth, mixing it with salvia, and chewing it with the teeth; by these means the food is reduced into a kind of pulp, which, being received into the stomach, mixes with the juices thereof; and thus diluted, begins to ferment or putrify, and assuming a very different form from what it had before, grows either acrid or rancid. Here it meets with a juice separated from the blood by the glands of that part, whose excretery ducts open into the cavity of the stomach: by the commixture of these liquors, whether of salvia or the juice of the stomach, a proper menstruum is composed, by which the parts of the aliment are still more and more divided by its infiltrating into their pores, and acquire still a greater likeness to the animal fluids, and from what is called chyme. The stomach, by means of its mucular fibres, contacting itself, does gradually discharge its contents by the pylorus into the duodenum; in which gut, after a small semicircular descent, it meets with the pancreatic juice and bile; both which joining with it, renders some part of the aliment more fluid, by still diluting the grosser parts from the more pure, and here the chylification is made perfect. The bile which abounds with lixivial salts, and apt to entangle with the grosser parts of the concocted aliment, stimulatethes guts, and cleanses their cavities of the mucous matter separated from the blood by the glands of the guts, and lodged in their cavities; which not only mollifies the inside of the guts, but defends the mouth of the lacteal vessels from being injured by alien bodies, which often pass that way.

VOL. I.

The contents of the intestines move still on, by means of the perisaltic motion of the guts; whilst those thinner parts, fitted to the pores of the lacteal vessels, are absorbed by them: the thicker move still more slowly on, and by the many flops they continually meet with by the convivial valves, all the chyle or thin parts are at length entirely absorbed; the remains being merely excrementitious, are only fit to be protruded by fowls.

In the passage through the small intestines, the finer part of the mass, which we call the chyle (as has been already observed) enters the orifices of the lacteal vessels of the first kind, wherewith the whole mefentery is intermixed, which either alone, or together with the mafereic veins, discharge themselves into the glands, at the basis of the mefentery.

Then the chyle is taken up by the lacteals of the second kind, and is conveyed into glands between the two tendons of the diaphragm, called Pecquet's reservoir; whence it is carried to the heart by the thoracic duct, and the subclavian vein; and here it first mixes with the blood, and in time becomes assimilated thereto.

CHYLOSIS, among physicians, the act of reducing the aliment in the stomach to chyle, being the same with chylification. See the article Chylification. It is frequently also called concellatio prima, or the first concoction.

CHYME, or CHYMUS, χυμος, in the common signification of the word, denotes every kind of humour which is incrassated by concoction, under which notion it comprehends all the humours fit or unfit for preferring and nourishing the body, whether good or bad. It frequently imports the finest part of the chyle, when separated from the faces, and contained in the lacteal and thoracic duct. See the article Chylification. In Galen, it signifies the gaffatory faculty in animals.

CHYMISTRY, or CHEMISTRY. See the article Chemistry.

CHYMOLOGI, an appellation given to such naturalists as have employed their time in investigating the properties of plants from their taste and smell.

CHYMOSIS, in medicine, the act of making or preparing chyme. See Chyme. According to some, chymosis is the second concoction made in the body, being a repeated preparation of the most impure and gross part of the chyle, which being
CIBOULS, CIBDELOSTRACIA, in natural CIBDELOPLACIA, CHYMOSIS iscies of onion.

England; the fifth is the brownish-white, friable in Germany and England; the fourth is the brownish-white, friable, with a rougher surface, frequent in many parts of England, as may be seen in the pits of the small-pox; and in growing, they are sometimes observed to change their situation.

A surgeon in curing a wound, ought to be very induftrious to procure an even cicatrix; for which purpose it will be proper to dry by degrees, and to harden the surface of the new flesh, by the application of dry lint covered with a light bandage: but when this is not sufficient, it may be proper to use some of the drying essences or native balsams, or drying powders; such as tutia, lapis calaminaris, malches or colophonium. Rectified spirits of wine, which is of an astringent drying virtue, is frequently used for this purpose with great advantage. See the article WOUND.

CICATRIZANTS, in pharmacy, medicines which assist nature to form a cicatrix. Such are arminian bole, powder of taty, disectativum rubrum, &c. Cicatrizants are otherwise called escaroties, epulotics, incarnatives, agglutinants, &c. See the articles Cicatriz, Escharoties, Epulotics, &c.

CICELY, the English name of a genus of plants, called by botanical writers myrhis. See the article Myrrhis.

CICER,
CICER, the **chick-pea**, in botany, a genus of the *diadelphus-decandria* class of plants, the flower of which is papilionaceous: the fruit is a turgid pod, of a rhomboid shape, containing two roundish seeds.

The seeds of this plant are accounted in some measure abiterive, and for that reason are met with in diuretic compositions in the official medicines: but they are very seldom found in other prescriptions. Chick-peas was the provision of the ancient Hebrews when they took the field. They parched them, and so eat them; and at this day, in Egypt, it is usual for those who undertake a long journey, to lay in a good stock of chick-peas, parched in a frying-pan.

**Cicerbita**, in botany, a name used by some for the fconchus, or bow-thistle.

**Ciceronians**, *Ciceroniani*, or *Ciceroniastris*, epithets given by Muretus, Erasimus, Nicholaus, Susius, &c. to those moderns who were so ridiculously fond of Cicero, as to reject every Latin word as obsolete or impure, that could not be found in some one or other of his works.

**Cicerum Lapis**, in natural history, the same with the pisolithus. See the article *Pisolithus*.

**Cichorium**, *succory*, in botany, a genus of the *fugenesia-polygama-equalit* class of plants, the compound flower of which is plain and uniform: the proper one, monopetalous, ligulated, truncated, and deeply quinquidentated: there is no pericarpium, but the cylindrical cup, convinent at the top, contains solitary compressed seeds with acute angles. See plate XLI. fig. 9.

This plant is regarded in all the shop-compositions, where it is concerned, as an hepatic. We seldom meet with it in extemporaneous prescriptions, unless in a few medicated ales.

**Cicindela**, in zoology, the same with the pyrolampis, or glow-worm, a genus of insects, the antennae of which are sectaceous, and slender as a thread: the jaws are prominent and dentated; and the thorax is of a roundish but somewhat angular figure. See plate XLI. fig. 10.

Of this genus authors enumerate the following species. 1. The field or green glow-worm, with ten white spots on the exterior wings. 2. The black glow-worm, with fix white spots on the exterior wings, common in woody places. 3. The brassy glow-worm, with broad excavated spots on the wings, common about the banks of rivers. 4. The black glow-worm, with a reddish thorax; and several other species, distinguished by the like peculiarities.

**Cicla**, in botany, the same with the article *myrrhis*. See Beta.

**CICUTA**, *water-hemlock*, in botany, a genus of the *pentandria-digynia* class of plants, the universal flower of which is uniform: the proper one consists of five oval, cordated, inflected, and almost equal petals, disposed in the manner of a roset: there is no pericarpium: the fruit is roundish, striated, and divisible into two parts: the seeds are two, fabellated, convex and striated on one side, and plain on the other. See plate XLI. fig. 11.

Hemlock is rejected from all inward use in medicine, on account of its poisonous qualities. It affects persons with a giddiness of the head and dimness of the eyes, and afterwards operates violently by vomit and foal. Fat broths and oily softening liquors, are good to defend the stomach and bowels against its ramifications. Externally, it is used for the spleen and hypocondriac inflations; and a plaster, of which it is the basis, is prescribed to discuss hard, flatulent, or cold tumours in other parts.

**Cicutu** is also used by Rivinus for the comium of other botanists. See the article *Conium*.

**Cicutæ species**, the name by which Monifon calls the ethusa of Linnaeus. See the article *Ethusa*.

**CICUTARIA**, in botany, a name given to two distinct plants, the cicuta and ligusticum. See the articles *Cicuta* and *Ligusticum*.

**Sweet Cicutaria**, a name by which myrrhis is sometimes called. See the article *Myrrhis*.

**CIDARIS**, in antiquity, the mitre used by the jewih high priests. The Rabbins say, that the bonnet used by priests in general,
tural, was made of a piece of linen-cloth sixteen yards long, which covered their heads like a helmet or a turban: and they allow no other difference between the high priest's bonnet, and that of other priests, than this, that one is flatter and more in the form of a turban; whereas that worn by ordinary priests, rote something more in a point. A plate of gold was an ornament peculiar to the high priest's mitre.

CILIA, in conchology, the name by which authors call the turban-shell, or centurione, of a roundish figure. See the article CENTRONILE.

CIDER, or CYDER. See CYDER.

CIFALU, or CEFALDI, a port-town of Sicily, thirty-six miles east of Palermo: east long. 15° 32', north lat. 38° 30'.

CILIA, the EYE-LASHES, in anatomy, are certain rigid hairs situated on the arch or tarsus of the eye-lids; and bent in a very singular manner. They are defined for keeping external bodies out of the eye, and for moderating the influx of light.

CILIARE, or LIGAMENTUM CILIARE, or CILIARIS PROCESSUS, in anatomy, a range of black fibres disposed circularly, having their rise in the inner part of the uvea, and terminating in the prominent part of the crystalline humour of the eye, which they surround.

Mr. Mariotte denies the ligamentum ciliare to have any connection with the crystalline, or to serve for any purposes thereof; but Dr. Porterfield, in the medical essays of Edinburgh, thinks that it accommodates the crystalline to the distances of objects; from whence he accounts for the phænomena of vision, as also of diseases; as,

1. When the ciliare ligamentum becomes paralytic, no near object will appear distinct. 2. If this ligament should be convulsed, no distant object will appear distinct. 3. If it should be paralytic on one side, and found on the other, the crystalline must get an oblique situation, when we look at near objects; whence they will not appear distinct, unless the eye he turned aside from the object. 4. When this ligament has become rigid and stiff, the crystalline will have but very little motion, when the limits of distinct vision will be very narrow.

CILIARIS, in anatomy, the same with the orbicular muscle of the eye. See the article ORBICULARIS.

CILIATED LEAF, among botanical writers, one surrounded all the way with parallel filaments, somewhat like the hairs of the eye-lids; whence its name.

CILICUM, in hebrew antiquity, a sort of habit made of coarse stuff, formerly in use among the Jews in times of mourning and distress. It is the name, with what the septuagint and hebrew versions call sack-cloth. St. John, in the Revelations, plainly shews that these sack-cloths, or, as they are otherwise called, hair-cloths, were of a black colour.

CILEY, the capital of a territory of the same name in Stiria, and the circle of Austria, in Germany: east long. 15° 35', north lat. 46° 35'.

CIMA, or SIMA, in architecture, the name by which authors call the turban-cloth, or the turban-cap. See OGEI.

CIMELIARE, in church-architecture, the same with what in English is called a vesture. See the article VESTRY.

CIMELIANTHUS, in natural history, the name of a species of oculus belii, with a yellow pupil in the middle. See the article OCLUSUS BELLII.

CIMEX, bug, in zoology, a genus of four-winged flies, of the order of the hemiptera, the characters of which are these: the rostrum or snout is infected, or bent towards the breast; the wings are cruciated; the legs are frayed for running; the back is plain, and the thorax margined. See plate XLI. fig. 12. Of this genus there are a great many species, some of which are roundish, and others of an oblong body. 1. The green and yellow bug. 2. The common house bug. 3. The blackish bug. 4. The grey bug. 5. The reddish bug. 6. The black bug, with white wings. 7. The oblong, reddish-brown bug. 8. The oblong, green bug. 9. The oblong bug, variegated with red and black. 10. The oblong, grey bug. 11. The oblong, black bug. 12. The oblong, greenish-white bug; and a great many other species, distinguished by the like peculiarities.

CINICIFORMIS MUSCA, a genus of flies, so called from their resemblance to the cimices, or bugs. See FLY, and the preceding article.

CIMOLIA TERRA, in natural history, a species of white meal, which is ponderous and friable, and makes a considerable effervescence with aqua-fortis. The ancients prescribed this earth with success, it is said, in St. Anthony's fire, inflammations, and the like external ailments, to be applied by way of a cataplasm;
From the great quantity of sea-fals frequently found in cineres clavellati, Dr. Degener suspects that the sea-fals is designedly mixed with these ashes, because it is cheaper.

CINERITIOUS, an appellation given to different substances, on account of their resembling ashes, either in colour or consistence; hence it is, that the cortical part of the brain, has sometimes got this epithet. See the article Brain.

CINGULUM SAPIENTIÆ, a name given by the inventor Rulandus to a quick-silver girdle. See Girdele.

CINNABAR, in natural history, is either native or fallitious. The native cinnabar is an ore of quick-silver, moderately compact, very heavy, and of an elegant, striated red colour. In this ore the quick-silver is blended in different proportions with sulphur. It is so rich an ore, as to be no other than mercury impregnated with a small quantity of sulphur, just enough to reduce it to that state, being commonly more than six parts of mercury to one of sulphur; and even the poorest cinnabar yields one half mercury: it is of a very bright, glittering appearance, when fresh broken; and is usually found lodged in a bluish, indurated clay, tho' sometimes in a greenish talcy stone.

For the method of separating mercury from cinnabar, see the article Mercury.

Fallitious Cinnabar, a mixture of mercury and sulphur sublimed, and thus reduced into a fine red globe. The best is of a high colour, and full of fibres, like needles.

The receipt for making it, according to the late college dispensatory, is as follows. Take of purified quick-silver, twenty-five ounces; of sulphur, seven ounces; melt the sulphur, and fix the quick-silver into it while fluid; if it take fire, let it be immediately extinguished, by covering it with another vessel. When cold, let it be rubbed into a fine powder. Let this powder be put into a subliming vessel, and heat it over a gentle fire, raising it by degrees till the whole is sublimed into a red, striated, heavy mass, which perfectly resembles native cinnabar. This, as well as the native cinnabar, is excellent in epileptics, and in all complaints of the head and nerves. But the factitious is rather to be preferred, as it doth not excite nausea, vomitings, and other disorders which arise from vitriolic and perhaps arsenical particles blended.
blended by nature among some of the
staves of the native mineral.
Cinnamon is likewise used by painters as
a colour, and is rendered more beautiful,
by grinding it with gum-water and a
little saffron.
There is likewise a blue cinnamon, made
by mixing two parts of sulphur with three
of quick-silver and one of lal armoniac.
Cinnamon or antiquity, a preparation of
mercury, sulphur, and antimony, made
by sublimation, said to be a good dia-
phoretic and alterative. See the article
Antimony.
Cinnamon-tree, cinnamonum, in
botany, is only a species of the laurus,
according to Linnaeus, distinguished by
its oblong, ovated, trinervous, and plain
leaves. See the article Lauris.
The bark of this tree is the cinnamon of
the thops, which to be good, ought to
be of a reddish colour, not finely brown,
and above all things, of an acrid and
agreeable taste. The greatest deceits that
are practised in the fale of cinnamon, are
the felling such as has already had its es-
fential oil diffused from it, and been dried
again, and the imposing the coffia lignea
in its place. The first of these cheats is
discovered by the want of pungency in
the cinnamon; the second, by this, that
the caffia, when held a little time in the
mouth, becomes mucilaginous, which is
not the case with the true cinnamon.
No cinnamon can be imported into Bri-
tain, except from the East-Indies. That
which comes from thence pays a duty of
3s. 4¾ d. a pound, and draws back
on exportation, 3s. 0½ d. at the rate
of 6s. 8d.
Cinnamon is an afflicting in the prime
wise, but in the more remote seats of ac-
tion, it operates as an aperient and alexi-
pharmic. It stops diarrhoeas, promotes
the mensas, and hastens delivery: it
strengthens the viscera, affits conception,
dispels flatulenties, and is a very preent
cardiac. It affords an oil which will
sink in water, and is of great esteem and
much prescribed in extemporaneous prac-
tice. As it is much adulterated on ac-
count of its dearness, the best way to
know it is by dropping it upon sugar,
and then dissolving it in final spirit.
This oil has been made genuine in Eng-
land from the common cinnamon of the
thops, so as to exceed that brought from
Holland.
CION, or CYON, among gardeners, denotes a young sprig, or sprout of a tree.

CION, in anatomy, a name sometimes used for the uvula. See the article UVULA.

CIPHER, or CYpher, one of the arabic characters, or figures, used in computation, formed thus o.

A cipher of itself signifies nothing; but when placed to the left of other characters, in whole numbers, it augments their value ten times; and when placed to the right-hand in decimal arithmetic, it lessens the value in each figure in the same proportion.

CIPHER is also a kind of enigmatic character, composed of several letters interwoven, which are generally the initial letters of the person's names for whom the ciphers are intended.

These are frequently used on seals, coaches, and other moveables. Merchants likewise, instead of arms, bear a cipher, or the initial letters of their names interwoven about a cross, of which we have many instances on old tombs.

CIPHER denotes likewise certain secret characters disguised and varied, used in writing letters that contain some secret, not to be understood but by those between whom the cipher is agreed on.

De la Guilletiere, in a book intitled Antient and modern Lacedemon, pretends that the antient Spartans were the inventors of the art of writing in cipher, making their cytala the first sketch of that mysterious art. See SCYTALA.

Polybius relates, that Aeneas Tacticus, two thousand years ago, collected together twenty different manners of writing so as not to be understood by any but those in the secret; part of which were invented by himself, and part used before his time.

There are several kinds of ciphers, according to Iord Bacon; as the simple, those mixed with non-significants, those consisting of two kinds of characters, wheel-ciphers, key-ciphers, word-ciphers, &c. They ought all to have these three properties. 1. They should be easy to write and read. 2. They should be trufly and undecipherable. And, 3. Clear of suspicion.

There is a new way of eluding the examination of a cipher, viz. to have two alphabets, the one of significant, and the other of non-significant letters; and folding up two writings together, the one containing the secret, while the other is such as the writer might probably fend without danger: in case of a strict examination, the bearer is to produce the non-significant alphabet for the true, and the true for the non-significant; by which means the examiner would fall upon the outward writing, and, finding it probable, suspect nothing of the inner. No doubt the art of ciphering is capable of great improvement. It is said that king Charles I. had a cipher consisting only of a straight line differently inclined; and there are ways of ciphering by the mere punctuation of a letter, whilst the words of a letter shall be non-significants, or sense that leaves no room for suspicion. Those who desire a fuller explanation of ciphering, may consult Bacon, where they will find a cipher of his invention; bishop Wilkin's Secret and swift Meffenger; and Mr. Falconer's Cryptomeny patefecta.

CIPHER with a single key, that in which the same character is constantly used to express the same word or letter.

CIPHER with a double key, that in which the alphabet or key is changed in each line, or in each word; and wherein are interferted many characters of no signification, to perplex the meaning.

CIPHERING, or CYPHERING, a term sometimes used for the practical part of arithmetic. See ARITHMETIC.

CIPPUS, in antiquity, a low column, with an inscription, erected on the high roads, or other places, to shew the way to travellers, to serve as a boundary, to mark the grave of a deceased person, &c. Those erected in the high-ways to mark the miles, were called military columns.

CIPPUS is also the name of a wooden instrument with which criminals and slaves were punished, being a clog or stocks for the feet.

CIRCEA, ENCHANTERS NIGHTSHADE, in botany, a genus of the diandria-monogynia class of plants, the flower of which consists of cordated petals, equal in height, and spread open: the fruit is an oval or pear-like bilocular capsule, containing single oblong seeds.

CIRCASSIA, a country situated between 40° and 50° east longitude, and between 45° and 50° north latitude. It is bounded by Russia on the north, by Afracan and the Capian-see on the eafit, by Georgia and Daghestan on the south, and
and by the river Don and the Palius Mebros on the west.
The Circassian Tartars form a kind of republic, but sometimes put themselves under the protection of Persia, and sometimes of Russia, or the Turks. They live mostly in tents, removing from place to place for the benefit of pasturage; and are chiefly remarkable for the beauty of their children, the seraglios of Turky and Persia being usually supplied with boys and young virgins from this and the neighbouring country of Georgia.

CIRCELLIONaes, in church-history, the fame with the agonifici. See the article Agonistic.

CIRCENSIAE GAMES, circenfes ludis, a general term, under which was comprehended all combats exhibited in the Roman circus, in imitation of the Olympic games in Greece. Most of the feats of the Romans were accompanied with circusian games; and the magistrates, and other officers of the republic, frequently presented the people with them, in order to procure their favour. The grand games were held for five days, commencing on the 15th of September. There were six kinds of games exhibited: the first was wrestling, and fighting with swords, with stayes, and with pikes; the second was racing; the third, saltatio, leaping; the fourth, discoi, quoits, arrows, and caetus; all which were on foot; the fifth was bowe-courting; the sixth, courses of chariots, whether with two horses or with four.

CIRCIA, in ornithology, a species of anas, called in English the summer- teal, and all over of a dusky yellowish brown, with black feet.

CIRCINALIS, in botany, a name used by some for adiantum, or maiden-hair. See the article Adiantum.

CIRCLE, circulus, in geometry, a plane figure comprehended by a single curve line, called its circumference, to which right lines drawn from a point in the middle, called the center, are equal to each other.

The area of a circle is found by multiplying the circumference by the fourth part of the diameter; or half the circumference by half the diameter: for every circle may be conceived to be a polygon of an infinite number of sides, and the semidiameter must be equal to the perpendicular of such a polygon, and the circumference of the circle equal to the periphery of the polygon: therefore half the circumference multiplied by half the diameter, gives the area of the circle.

Circles, and similar figures inscribed in them, are always as the squares of the diameters; so that they are in a duplicate ratio of their diameters, and consequently of their radii.

A circle is equal to a triangle, the base of which is equal to the periphery, and its altitude to its radius: circles therefore are in a ratio compounded of the peripheries and the radii.

To find the proportion of the diameter of a circle to its circumference. Find, by continual bisection, the sides of the inscribed polygon, till you arrive at a side subtending any arch, howsoever small; this found, find likewise the side of a similar circumscribed polygon; multiply each by the number of the sides of the polygon, by which you will have the perimeter of each polygon. The ratio of the diameter to the periphery of the circle will be greater than that of the same diameter to the perimeter of the circumscribed polygon, but less than that of the inscribed polygon. The difference of the two being known, the ratio of the diameter to the periphery is easily had in numbers very nearly, though not justly true. Thus Archimedes fixed the proportion at 7 to 22.

Wolius finds it as 1000000000000000 to 31415926535897932; and the learned Mr. Machias has carried it to one hundred places, as follows: if the diameter of a circle be 1, the circumference will be 3.14159, 26535, 89793, 23846, 6263, 83279, 50288, 43371, 69399, 37510, 58209, 74944, 59239, 78164, 95256, 20899, 86280, 34265, 3541, 70679 of the same parts. But the ratios generally used in practice are that of Archimedes, and the following; as 106 to 333, as 113 to 355, as 1702 to 5347, as 1815 to 5702, or as 1 to 3.14159.

To describe a circle through three given points, A, B, C; plate XLI. fig. 13, No. 1. not in a right line. Draw two right lines from A to B, and from B to C; then divide these two right lines into two equal parts, by the perpendiculars G and F; the point of their intersection D will be the center of the circle required. Hence it follows, 1. That three points in the periphery or arch of any circle being given, the center may be found, and the arch perfected. 2. If three points of any periphery coincide with three points of
of another, the whole peripheries agree, and the circles are equal. 3. Every triangle may be inscribed in a circle.

The quadrature of the Circle, or the manner of making a square, whole surface is perfectly and geometrically equal to that of a circle, is a problem that has employed the geométricians of all ages. See Quadrature.

Many maintain it to be impossible; Des Cartes, in particular, infers on it, that a right line and a circle being of different natures, there can be no strict proportion between them; and in effect we are at a loss for the just proportion between the diameter and circumference of a circle. Archimedes is the person who has come nearest the truth; all the rest have made paralogisms. Charles V. offered a reward of one hundred thousand crowns to the person who should solve this celebrated problem; and the States of Holland have proposed a reward for the same purpose.

Circle of the higher kind, an expression used by Wolius, and some others, to denote, for the most part, a curve expressed by the equation \( y^m = ax^{m-1} - x^n \), which indeed will be an oval when \( m \) is an even number; but when \( m \) is an odd number, the curve will have two infinite legs, as suppose \( m = 3 \); then the curve FAMG (plate XLI. fig. 13, n=2.) expressed by the equation \( y^2 = ax^2 - x^3 \), where \( AP=x, PM=y \), and \( AB=\alpha \) will be one of Sir Isaac Newton's defective hyperbolas, being, according to him, the thirty-seventh species, whose asymptote is the right line DE at half right angles with the absciss H I.

Circles of the sphere are such as cut the mundane sphere, and have their periphery either on its movable surface, or in another immovable surface: the first revolve with its diurnal motion, as the meridians, &c.: the latter do not revolve, as the equator, the ecliptic, &c.

If a sphere be cut in any manner, the plane of the section will be a circle, whose center is in some diameter of the sphere. Hence the diameter of a circle passing through the center, being equal to that of the circle which generated the sphere; and that of a circle which does not pass through the center, being only equal to some chord of the generating circle; the diameter being the greatest of all chords, there arises another division of the circles of a sphere, into great and les.

Vol. I.

Great Circle of the sphere, that which having its center in the center of the sphere, divides it into two equal hemispheres: such are the equator, ecliptic, horizon, the colures, and the azimuths, &c. See Equator, Ecliptic, &c.

Lesser Circle of the sphere, that which having its center in some diameter of the sphere, divides it into two unequal parts: these are usually denominated from the great circles to which they are parallel, as parallels of the equator.

Circles of altitude. See the article Almucantars.

Diurnal Circles are immovable circles, supposed to be described by the several stars and other points of the heavens, in their diurnal rotation round the earth; or rather, in the rotation of the earth round its axis.

Circle of curvature, a circle, the curvature of which is equal to that of a certain curve at a given point.

Circle equant, in the old astronomy, a circle described on the center of the equant, the principal use of which is to find the variation of the first inequality.

Circles of excursion are parallel to the ecliptic, and usually fixed at ten degrees from it, that the excursions of the planets towards the poles of the ecliptic may be included within them.

All these circles of the sphere are conceived to fall perpendicularly on the surface of the globe, and so to trace out circles perfectly similar to them. Thus the terrestrial equator is a line precisely under the equinoctial in the heavens, and so of the rest.

Circles of latitude, or secondaries of the ecliptic, are great circles perpendicular to the plane of the ecliptic, passing through the poles of it, and through every star and planet. They serve to measure the latitude of the stars, which is an arch of one of those circles intercepted between the star and the ecliptic.

Circles of longitude are several lesser circles parallel to the ecliptic, still diminishing in proportion as they recede from it; on these the longitude of the stars is reckoned.

Circles of declination, on the globe, are, with some writers, the meridians on which the declination or distance of any star from the equinoctial is measured.

Horary Circles, in dialing, are the lines which shew the hours on dials, though these be not drawn circular, but nearly straight.

42

Many
Horary Circle, on the globe, a brazen circle fixed on every globe with an index, to shew how many hours, and consequently how many degrees any place is east or west of another.

Circle of perpetual apparition, one of the lesser circles, parallel to the equator, described by any point touching the northern point of the horizon, and carried about with the diurnal motion: all the stars included within this circle are always visible above the horizon.

Circle of perpetual occultation, another circle at a like distance from the equator, on the south, containing all those stars which never appear in our hemisphere.

Polar Circles are parallel to the equator, and at the same distance from the poles that the tropics are from the equator. See the articles Arctic and Antarctic.

Circles of position are circles passing thro' the common intersections of the horizon and meridian, and through any degree of the ecliptic, or the center of any star, or other point in the heavens; and are used for finding out the situation or position of any star. These are called by astrologers, circles of the celestial houses.


Circle, in logic, or logical Circle, is when the same terms are proved in orbem by the same terms; and the parts of the syllogism alternately by each other, both directly and indirectly. Thus the papists, who are famous at this false way of arguing, prove the scripture to be the word of God, by the infallible testimony of their church; and when they are called upon to shew the authority of their church, they pretend to prove it by the scripture. There are two kinds of circles, the one material, the other formal; the formal is that in which two reciprocal syllogisms beg the medium, which is the next cause of the greater extreme; if this is admitted, the same thing becomes both prior and posterior, the cause and effect of itself, which is absurd. The material circle, called also regresus, consists of two syllogisms, the former of which proves the cause by the effect, and the latter the effect by the cause.

Circle, circulus, among schoolmen, is understood of vicissitudes of generations arising one out of another: thus, vapours arise from moist grounds, rain is formed of vapours, and rain again moistens the ground. It is a celebrated dogma of the Scotists, that there is no circle in cauies of the same order or kind.

Circles of the empire, such provinces and principalities of the empire as have a right to be present at diets. Maximilian I. divided the empire into fix, and some years afterwards into ten circles. This last division was confirmed by Charles V. The circles, as they stand in the Imperial Matricula, are as follows, Austria, Burgundy, the Lower Rhine, Bavaria, Upper Saxony, Franconia, Swabia, Upper Rhine, Westphalia, and the Lower Saxony.

Circolo Mezzo, in the Italian music, denotes a diminution of four quavers or semiquavers, which represent a semicircle, proceeding by conjoint degrees.

Circuit, or Circuity, in law, signifies a longer course of proceedings than is needful to recover the thing sued for: in case a person grants a rent-charge of 10l. a year out of his manor, and afterwards the grantee dislikes the grantor, who thereupon brings an affize, and recovers the land, and 20l. damages; which being paid, the grantee brings his action for 10l. of the rent; due during the time of the distress: this is termed circuity of action, because as the grantor was to receive 20l. damages, and pay 10l. rent, he might only have received the 10l. for the damages, and the grantee might have retained the other 10l. for his rent, and by that means saved his action.

Circuit also signifies the journey, or progress, which the judges take twice every year, through the several counties of England and Wales, to hold courts, and administer justice, where refoure cannot be had to the king's courts at Westminster: hence England is divided into fix circuits, viz. the Home circuit, Norfolk circuit, Midland circuit, Oxford circuit, Western circuit, and Northern circuit.
In Wales there are but two circuits, North and South Wales: two judges are assigned by the king's commission to every circuit.

In Scotland there are three circuits, viz. the Southern, Western, and Northern, which are likewise made twice every year, viz. in spring and autumn.

CIRCUITORES, in church-history, the same with the agonistici. See the article AGONISTICI.

CIRCULAR, in a general sense, any thing that is described or moved in a round, as the circumference of a circle, or surface of a globe.

The circular form is of all others the best disposed for motion, and the most capacious.

CIRCULAR LETTER, a letter directed to several persons, who have the same interest in some common affair.

CIRCULAR LINES, in mathematics, such straight lines as are divided from the divisions made in the arch of the limb, such as lines, angles, secants, chords, &c. See the articles SINE and TANGENT.

CIRCULAR NUMBERS, called also spherical ones, according to some, are such whose powers terminate in the roots themselves.

Thus, for instance, 5 and 6, all whose powers do end in 5 and 6, as the square of 5 is 25, the square of 6 is 36, &c.

CIRCULAR SAILING is the method of sailing by the arch of a great circle. See the article SAILING.

CIRCULAR VELOCITY, in the new astronomy, signifies the velocity of any planet, or revolving body, which is measured by the arch of a circle. See the article CIRCLE.

CIRCULATION, the act of moving round, or in a circle: thus we say, the circulation of the blood, the circulation of the sap, of the spirits, &c.

CIRCULATION of the blood, the natural motion of the blood in a living animal, whereby that fluid is alternately carried from the heart into all parts of the body, by the arteries, from whence it is brought back to the heart again by the veins.

This motion is chiefly caused by the dilatation and contraction of this organ, and is the principle on which life depends; for when it ceases in any part, it dies; when it is diminished, the operations are weak; and when it ceases totally, life is extinguished.

All the veins discharge themselves into the ventricles of the heart; from hence all the arteries arise: the blood expelled out of the right ventricle must be carried, through the pulmonary artery, into the lungs; from which it must be returned, by the pulmonary veins, to the left ventricle; from the left ventricle the blood, thus imported, is, by the contriction of that part, again expelled into the aorta, and by it distributed all over the rest of the body, and thence is returned again to the right ventricle by the cava, which completes the circulation.

This circulation becomes actually visible, with the assistance of a microscope, especially in fift, frogs, &c. wherein the in-osculation, or union of the extremities of the arteries with those of the veins, together with the globules of the blood flowing from the one into the other, may be plainly seen, as represented in plate XLII. fig. 1.

The reasons enforcing the necessity of circulation of the blood, are as follow: 1. All the blood of a living animal, upon wounding any of the larger arteries, is evacuated in a little time, and that with a considerable force: whence it follows, that the blood has a passage from every part of the animal body into every artery; and if the whole mass of blood be found to move upon this occasion, it is evident it must have moved before.

2. The great quantity of blood that is driven out of the heart into the arteries at every pulse, makes a circulation necessary; for though the antients, who knew not this circulation, imagined that only a drop or two was expelled at every systole, which they were necessitated to suppose, to avoid the great dilution that the arteries must be liable to, if any considerable quantity infused into them, yet it is certain and demonstrable, that an ounce, or more, must be driven into them each time; and yet some compute there are five or six thousand pulsations in an hour.

3. A third argument may be taken from the valves in the veins, which are so formed, that blood may freely pass through them, out of the larger veins into the greater, and so into the cava; but, on the contrary, not out of the greater into the less: yes, if one blow into the cava, through a pipe, there will no wind pass into the smaller veins; but, on the other hand, if you blow up the lesser veins, the wind will readily pass to the larger, and so to the cava.
4. Any of the arteries being tied up with a fillet, swell, and beat between the bandage and the heart, but they grow flaccid between the bandage and the extremities of the body; then, if the artery be cut between the bandage and the heart, blood stream out even to death; but if it be cut between the bandage and the extremities of the body, the quantity of blood it yields is very small.

5. Any of the larger veins being tied up with a fillet, as in the letting of blood in the arm or foot, then the vein below the ligature will presently fill and grow tumid, but above it will presently fall and disappear; the reason of which must needs be, that the blood being driven along the arteries, towards the extreme parts, returns by the veins, and ascends upwards, which coming to the ligature, and being kept there, swells the vein below the ligature, and spurs out as soon as an orifice is made; but when the fillet is loosed again, the blood flows no longer out thereat, but holds on its wonted channel; and the vein and the orifice closes up again.

From the whole it is evident that all the arteries of the body are continually bringing the blood from the left part of the heart, through the trunks of the arteries, into the branches, and from thence to all parts of the body; and, on the contrary, that all the veins, except the porta, are perpetually bringing back the blood from the extreme parts into the smaller branches; from these it passes into the larger, at length into the trunks, and thence into the cavity, and through the sinus venosus into the heart, where being arrived, its motion or circulation is continued as follows.

The auricles of the heart being large hollow muscular bodies, furnished with a double series of strong fibres, proceeding with a contrary direction to the opposite tendons, the one adhering to the right ventricle, the other to the sinus venosus; as also with innumerable veins and arteries; by the contractile force of these auricles, the blood will be vigorously expressed and driven into the right ventricle, which, upon this contraction, is rendered flaccid, empty, and disposed to admit it.

Now, if the right ventricle, thus full of blood, by the contraction of its fibres, press the blood towards the aperture again, the venous blood at the same time pouring in, will drive it back again into the cavity, and mix it more intimately, till rising up against the parietes, raise the valves tricuspides, which are so connected to the flabby columns extended on the opposite side, as that, when laid quite down, they cannot close the parietes of the right ventricle; the like it swells towards the right auricle, till being there joined, they stop the passage very closely, and prevent any return.

By the same means, the same blood rises into the three semilunar valves, placed in the extremity of the other mouth, and lying open to the pulmonary artery; the like it drives, against the sides of the artery, and leaves a passage into the artery alone: the blood carried by this artery into the lungs, and distributed by its branches through the whole substance thereof, is first admitted into the extremities of the pulmonary vein, called arteria venosa, whence passing into four large vessels, which unite together, it is brought to the left sinus venosus, or trunk of the pulmonary vein, by the force of whole muscular structure, it is driven into the left ventricle, which, on this occasion, is relaxed, and by that means prepared to receive it.

Hence, as before, it is driven into the left ventricle, which is relaxed by the same means; and by the valvula mitralis opening, admit it into the left ventricle, and hinder its flux into the pulmonary vein: from hence it is forced into the aorta, at whose orifice there are three semilunar valves, which also prevent a reflux, by closing the same.

The motion of the blood in living animals is attended with the following phænomena: 1. Both the venous sinuses are filled, and grow turgid at the same time.

2. Both auricles grow flaccid at the same time, and both are filled at the same time with blood, impelled by the contractile force of its correspondent muscular venous sinuses. 3. Each ventricle contracts and empties itself of blood at the same time; and the two great arteries are filled and dilated at the same time. 4. As soon as the blood, by this contraction, is expelled, both ventricles being empty, the heart grows larger and broader. 5. Upon which the muscular fibres of both venous sinuses contract, and express the blood contained in them, into the ventricle of the heart. 6. In the mean time the venous sinuses are again filled, as before, and the auricles, &c., return into their former habitude. 7. This alteration continues till the animal begins to languish under the approach...
approach of death, at which time the auricles and venous sinuses make several palpitations, for one contraction of the ventricle.

In a fetus, the apparatus for the circulation of the blood is somewhat different from that in adults, as above described. The septum, which separates the two auricles of the heart, is pierced through with an aperture, called the foramen ovale, and the trunk of the pulmonary artery, a little after it has left the hearl, lends out a tube into the descending aorta, called the communicating canal. The fetus being born, the foramen ovale closes by degrees, and the canal of communication dries up, and becomes a simple ligament. Dr. Nichols, lecturer of anatomy at Oxford, has, in his Compend. Anatom. contradicted the common received doctrine of the motion of the heart, and of the circulation of the blood, both in adults and fetuses; he maintains, that the circulation of the blood depends on six motions;

1. Of the right auricle. 2. Right ventricle. 3. Pulmonary artery. 4. Left auricle. 5. Left ventricle. 6. Of the aorta. Of these, the first, third, and fifth are synchronous, or act at the same time; as the second, fourth, and sixth likewise do; but the first, third, and fifth are asynchronous, or act at a different time from what the second, fourth, and sixth do, and therefore are dilated and contracted.

Concerning the circulation of the blood in fetuses, the doctor has the following propositions.

1. The blood of the ascending cava is fitter for nutrition, muscular motion, and the subtle secretions, than the blood that is carried to the heart by the descending cava.

2. The ascending and descending aorta are dilated and contracted at different times, or have asynchronous motions.

3. The blood of the ascending cava is pushed to the heart at the time when the right auricle is contracted, and the left auricle is relaxed, and therefore it will not pass into the right auricle, and from that into the left, but must go immediately from the cava into the left auricle.

4. The blood which is sent from the left auricle into the left ventricle, consisting mostly of the blood of the ascending cava, is wholly distributed into the heart and branches of the descending aorta.

5. The blood which flows from the descending cava into the heart, passes partly through the lungs into the left auricle, to be mixed with the blood of the ascending cava; partly passes into the descending aorta, not to be mixed with the blood of the ascending artery, that the blood which is returned to the mother may be venous, weak, and poor (effusius.)

6. The canalis arteriosus being shut by respiration, the descending artery acquires a motion synchronous to that of the ascending artery; and the blood of the ascending cava is sent to the heart at the time when the left auricle is contracted, and the right auricle is relaxed, and therefore is wholly poured into the right ventricle, along with the blood of the descending cava.

7. The contents of the abdomen being pressed by respiration, the umbilical arteries, umbilical veins, and the ductus venosus are shut up.

8. The usual crying of new-born infants contributes much to the diffusion of the lungs, and breaking down the particles of blood.

As to the velocity of the circulating blood, and the time wherein the circulation is completed, several computations have been made. By Dr. Keil's account, the blood is driven out of the heart into the aorta with a velocity which would carry it twenty-five feet in a minute: but this velocity is continually abated in the progress of the blood, in the numerous sections or branches of the arteries, so that before it arrive at the extremities of the body, its motion is infinitely diminished. The space of time wherein the whole mass of blood ordinarily circulates, is variously determined: some state it thus, supposing the heart to make two thousand pulses in an hour, and that at every pulse there is expelled an ounce of blood; as the whole mass of blood is not ordinarily computed to exceed twenty-four pounds, it must be circulated seven or eight times over the space of an hour. The circulation of the blood is generally said to have been first discovered in England, in the year 1628, by Dr. Harvey, an ingenious and learned physician; tho' there are others who contend for the glory of this most important discovery: Leonicenus says, that Fran. Paoli Sarpi, a Venetian, discovered the circulation, but durst not publish his discovery for fear of the inquisition; that he therefore only communicated the secret to Fab. ab Aquapendentes;
CIRCULATIOI<

pendente, who, after his death, deposited the book he had composed on it, in the library of St. Mark, where it lay a long time, till Aquapendente discovered the secret to Harvey, who then studied under him at Padua, and who upon his return to England, a land of liberty, published it as his own. But Sir George Ent has shewn, that father Paul received the first notion of the circulation of the blood from Harvey's book on that subject, which was carried to Venice by the ambassador of the republic at the court of England.

The circulation of the blood was altogether unknown to the ancients: they thought that all the blood came from the liver, and that the greatest part of it passed into the vena cava, and so into all the branches belonging to it; but in such a manner, that, in coming out from the liver, a considerable quantity of it turns about, and enters into the right cavity of the heart, where it is divided into two parts, one of which runs through the vena arteriosa, into the lungs, and the other through the medium septum into the left cavity; where they say it is converted into arterial blood, or vital spirits, which is carried into the lungs by the arteria venosa, and all over the body by the arteria magna and its branches.

CIRCULATION of the spirits or nervous juices. The circulation of the spirits is evinced in the same manner as some authors choose to prove the circulation of the blood, viz. that the heart drives out, every hour, three or four thousand ounces of blood, whereas ordinarily there is not above two thousand in the whole body; there is a necessity for the blood, driven out, to return to the heart, in order to supply a fund to be expelled.

In like manner it is shewn, that there is formed, each hour, a large quantity of spirits, which are nothing but the more subtle parts of the blood, driven out from the brain; whence it is inferred that these too must circulate.

CIRCULATION of the sap of vegetables is a natural motion of the nutricious juice of plants, from the root to the extreme parts, and thence back again to the root.

That there is a circulation in the bodies of vegetables seems to be evinced by the experiments of modern naturalists and gardeners, by means of certain vessels analogous to the veins and arteries in animals.

CIRCULATION, in chemistry, is an operation whereby the same vapour, raised by fire, falls back, to be returned and distilled several times, and this reduced into its most subtle parts.

Circulation is performed by disposing the liquor in a single vessel, stopped at top, and called a pelican; or in a double vessel, consisting of two pieces, luted on each other; the lower to contain the liquor, and its vapours. It is performed either by the heat of a lamp, or that of ashes or of sand moderately hot; or in dung, or by the sun. It usually demands a continued heat of several days, sometimes of several weeks, or even several months. By circulation the finest part of the fluid mounts to the top of the vessel, and finding no issue there, falls back again, and rejoins the matter at bottom, whence it arose.

CIRCULATION of money. It is the opinion of Mr. Pottlethwayt, that the money that carries on the whole circulation of a state, is near the quantity of one third part of all the annual rents of the proprietors of the land; that where the proprietors have one half or two thirds of the produce of the land, and where the circulation is not much helped by barters and evaluations, the quantity of the money must certainly be greater.

CIRCULATORY, circulatorium, the chemical vessel wherein the operation of circulation is performed. See the article CIRCULATION.

CIRCULUS, circle, in geometry, logic, &c. See CIRCLE.

CIRCULUS, in chemistry, an iron instrument in form of a ring, which being heated red hot, and applied to the necks of retorts and other glass vessels, till they grow hot, a few drops of cold water thrown upon them, or a cold blast, will make the necks fly regularly and evenly off.

Another method of doing this, is to tie a thread, first dip't in oil of turpentine, round the place where you would have it break; and then setting fire to the thread, and afterwards sprinkling the place with cold water, the glass will crack exactly where the thread was tied.

CIRCUMAGENTES MUSCULI, or OBLIQUI MUSCULI, in anatomy, are certain oblique muscles of the eyes, so called from helping to wind and turn the eyes about.

These muscles, called also the oblique muscles of the eye, or the rotatores, are two, a larger and a smaller: the larger, arising near the interior adducens, passes through
through a singular trochee, of an almost cartilaginous structure, near the canthus of the eye; from thence it turns back, and is inserted into the upper part of the eye, near its middle; hence it obliquely depresses the pupil, and in some degree draws it outward.

The lefter arises from the anterior and inner part of the orbit, not far from the nasal canal: it surrondes obliquely the lower part of the bulb, and is inserted into its exterior part, near the middle; hence it moves the pupil of the eye obliquely upwards: both these obliqui acting together, draw the eye forwards; and thus they are antagonists of the recti, which draw it backwards.

CIRCUMAMBIENT, an appellation given to a thing that surrounds another on all sides; chiefly used in speaking of the air. See the article AIR.

CIRCUMCISION, the act of cutting off the prepucce; or a ceremony in the Jewish and mahometan religions, wherein they cut off the fore-skyn of their males, who are to profess the one or the other law. Circumcision, among the Jews, was a federal rite, annexed by God, as a seal to the covenant which he made with Abraham and his posterity, and was accordingly renewed, and taken into the body of the mohumitc constitutions. The time for performing this rite was the eighth day, that is, six full days after the child was born: the law of Moses ordained nothing with respect to the person by whom, the instrument with which, or the manner how, the ceremony was to be performed; the instrumenc was generally a knife of stone. The child is usually circumcised at home, where the father, or godfather, holds him in his arms, while the operator takes hold of the prepucce with one hand, and with the other cuts it off: a third person holds a per-ringer, with a band in it, to catch the blood, then the operator applies his mouth to the part, and having sucked the blood, spits it into a bowl of wine, and throws a styptic powder upon the wound. This ceremony was usually accompanied with great rejoicings and feasting, and it was at this time that the child was named, in presence of the company. The Jews invented several superfluous customs at this ceremony, such as placing three flocks, one for the circumcisor, the second for the person who holds the child, and the third for Elijah, who, they say, affiht invisibly at the ceremony, &c.

The Jews distinguished their prosfyletes into two sorts, according as they became circumcised, or not: those who submit- ted to this rite were looked upon as children of Abraham, and obliged to keep the laws of Moses: the uncircumcised were only bound to observe the precepts of Noah, and were called noachide.

This ceremony, however, was not confined to the Jews: Herodotus and Philo Judeus observe, that it obtained also among the Egyptians and Ethiopians. Herodotus says, that the custom was very antient among each people, so that there was no determining which of them borrowed it from the other. The same historian relates, that the inhabitants of Colchis also used circumcision; whence he concludes, that they were originally Egyptians.

The Turks never circumcised till the seventh or eighth year, as having no notion of its being necessary to salvation. The Persians circumcise their boys at thirteen, and their girls from nine to fifteen. Thole of Madagascar cut the flesh at three fevemal times; and the most zealous of the relations present, catches hold of the preputium, and swallows it. Circumcision is practiced on women by cutting off the forekin of the clitoris, which bears a near resemblance and analogy to the preputium of the male penis. We are told that the Egyptian captive women were circumcised; and also the subjects of Presfer John.

CIRCUMCISION is also the name of a feast, celebrated on the first of January, in commemoration of the circumcision of our Saviour.

CIRCUMFERENCE, in a general sense, denotes the line or lines bounding a plane figure. However, it is generally used in a more limited sense, for the curve line which bounds a circle, and otherwise called a periphery; the boundary of a right-lined figure being expressed by the term perimeter.

Any part of the circumference is called an arch; and a right line drawn from one extreme of the arch to the other, is called a chord.

The circumference of every circle is supposed to be divided into 360 degrees. The angle at the circumference of a circle is double that at the center. See ANGLE.

For the ratio of the circumference of a circle to its radius, see the article CIRCLE.

CIRCUMFERENTOR, an instrument used by surveyors, for taking angles.
CIR [600] CIR

It consists of a brass index and circle, all of a piece. The index is commonly about fourteen inches long, and an inch and a half broad; the diameter of the circle is about seven inches. On this circle is made a chart, whose meridian line answers to the middle of the breadth of the index, and is divided into 360 degrees. There is a brass ring folded on the circumference of the circle, on which screws another ring, with a flat glass in it, so as to form a kind of box for the needle, suspended on the pivot in the center of the circle. See plate XLII. fig. 2. n° 1. There are also two sights to screw on, and slide up and down the index; as also a spangle and socket screwed on the back side of the circle, for putting the head of the staff in.

How to observe the quantity of an angle by the CIRCUMFERENCE.

Let it be required to find the quantity of the angle EKG (plate XLII. fig. 2. n° 2). First, place your instrument at K, with the flower-de-luce of the chart towards you; then direct your sights to E, and observe what degrees are cut by the fourth end of the needle, which let be 296; then, turning the instrument about, direct your sights to G, noting then also what degrees are cut by the fourth end of the needle, which suppose 182. This done, always subtract the lesser from the greater, as in this example, 182 from 296, the remainder is 114 degrees, which is the true quantity of the angle EKG.

CIRCUMFLEX, in grammar, one of the accents. See the article ACCENT.

CIRCUMGYRATION, denotes the whirling motion of any body round a center; such is that of the planets round the sun.

CIRCUMINCEPTION, in theology, a term whereby the schoolmen used to express the existence of three divine persons in one another, in the mystery of the trinity.

CIRCUMLOCATION, a paraphrastical method of expressing one's thoughts, or saying that in many words, which might have been said in few.

CIRCUMLOCATION, in oratory, is the avoiding of something disagreeable, or inconvenient to be expressed in direct terms, by imitating the sense thereof in a kind of paraphrase, so conceived as to soften and break the force thereof.

CIRCUM-POLAR STARS, an appellation given to those stars, which by reason of their vicinity to the pole, move round it without setting.

CIRCUMSCRIBED, in geometry, is said of a figure which is drawn round another figure, so that all its sides or planes touch the inscribed figure.

CIRCUMSCRIBED HYPERBOLA, one of Sir Isaac Newton's hyperbolæ of the second order, that cuts its asymptotes, and contains the parts cut off within its own space.

CIRCUMSCRIBING, in geometry, denotes the describing a polygonous figure about a circle, in such a manner, that all its sides shall be tangents to the circumference. Sometimes the term is used for the describing a circle about a polygon, so that each side is a chord; but in this case it is more usual to say the polygon is inscribed, than the circle is circumscribed.

CIRCUMSCRIPTION, in natural philosophy, the termination, bounds, or limits of any natural body. They make it either internal, which belongs to the essence and quantity of every body, whereby it hath a certain determinate extension, bounds, and figure; or external, which they call also local, because it is referred to the place within which any body is confined: for a body is said to be inscribed locally, or to be in a place circumscriptively, when it hath a certain and determinate ubi, or place, in respect of the circumambient bodies.

CIRCUMSPECTE AGATIS, in law, a statute preferring certain cates to the judges, wherein the king's prohibition does not lie.

CIRCUMSTANCE, a particularity which, though not essential to any action, yet doth some way affect it. Some circumstances are reckoned purely physical, not connecting any moral good or evil with any action; such as killing a man with a right or left hand, &c. others are accounted properly moral, because they do really influence our actions, and render them more good or evil than they would have been without such circumstances. Divines say, that the conversion of a sinner, depends on a certain assemblage and certain management of external circumstances, in the midst whereof he is placed; which arrangement of circumstances depends on the providence of God, whence conversion also depends on him.
CIRCUMSTANTIA, in medicine, comprehends whatever is not essentially connected with the principal indicant.

CIRCUMSTANTIBUS, in law, a term used for supplying and making up the number of jurors (in case any impannelled appear not, or appearing, are challenged by either party) by adding to them so many of the persons present, as will make up the number, in case they are properly qualified.

CIRCUMVALLATION, or line of CIRCUMVALLATION, in the art of war, is a trench bordered with a parapet, thrown up quite round the besieger’s camp, by way of security against any army that may attempt to relieve the place, as well as to prevent defection. This trench ought to be at the distance of cannon shot from the place; it is usually twelve feet broad, and seven deep; and at small distances is flanked with redoubts, and other small works, or with field forts, raised on the most proper eminences. It ought never to be drawn at the foot of a rising ground, left the enemy feizing on the eminence, should erect batteries of cannon there, and so command the line.

CIRCUMVOLUTION, in architecture, denotes the torus of the spiral line of the ionic volute.

CIRCUS, in antiquity, a great building of a round or oval figure, erected by the antients, to exhibit fheus to the people. The roman circus was a large, oblong edifice, arched at one end, encompassed with porticoes, and furnished with two rows of seats, placed ascending over each other. In the middle was a kind of foot bank, or eminence, with obelisks, statues, and polls at each end. This served them for the courses of their biga and quadrigae. See Biga, &c.

Those that have measured the circus say, that it was 2187 feet long, and 960 broad; so that it was the greatest building in Rome: some say it would contain 1,50,000 people, others 260,000, or 360,000.

The circus was dedicated to the fun, as a little temple of the sun in the middle denoted: some say that there were eight circuses in Rome, of which several were, either through vanity or devotion built, for the ornament of the city. For the games, &c. of the circus, see the article CIRCENSENIAN.

CIRCUS, in zoology, a name used by Belonius for the moor-buzzard. See the article BUZZARD.

CIRENCESTER, a borough-town of Gloucestershire, situated on the river Churn, fifteen miles south-east of Gloucester: west long. 2°, north lat. 51°,42’. It sends two members to parliament.

CIRENZA, or ACIRENZA, in geography. See the article ACIRENZA.

CIRLUS, and CIRLUS STULTUS, in ornithology, two birds of the hortulan kind, not unlike our yellow-hammer. See the article HORTULANA.

CIRRI, among botanists, fine strings or thread-like filaments, by which some plants attach themselves to walls, trees, &c. Such are those of ivy.

CIRRI, in ichthyology, certain oblong and soft appendages, not unlike little worms, hanging from the under jaws or mouths of some fishes: these cirri, commonly translated beards, afford marks to distinguish the different species of the fish on which they are found. As to their use, it may be to give notice of approaching danger, or prey; since by their hanging position, as well as by their soft texture, they must be more sensible of any motion in the water, than any other part.

CIRRIS, in ornithology, a name used by some for the red-legged heron.

CIRSIUM, GENTLE THISTLE, in botany, is comprehended by Linnaeus among the other thistles. See CARDIUS.

CIRSI SPECIES, the name by which Dillenius calls the serratula. See the article SERRATULA.

CIRSOCELE, or HERNIA VARICOSA, in surgery, a preternatural distension or diversification of the spermatic veins in the process of the peritoneum, immediately above the testicle, and sometimes higher up in the scrotum, or even in the groin, infomuch that they resemble the intestines of a bird, and equal the size of a goose quill, with varicose nodes, by which means the testicle appears much bigger, and hangs down lower than it should do. The cause of this disorder is thought to be in the blood, being either too redundant in quantity, or of too thick and gluey a consistence; so that by irritating in these veins in too great quantities, it causes them to be thus preternaturally distended. Frequently the disorder also arises from some external vio-
CISALPINE, anything on this CISLEU, in Hebrew chronology, the ninth CISSN, CISMAR, a town of Lower Saxony, in CISSOID, CISSITES, knee, fon already married, there {permatic veins, the most ready and the blood by that means impeded ill estimed, overextended, except. This disorder becomes necessary and much less any chirurgical operations. If through pain, or other uneasiness, it becomes necessary and the disorder may happen to be in a person already married, there is but little room to expect a cure from medicines; however, such topical remedies may be applied, as are known to attenuate the blood, and strengthen the relaxed parts. The patient should also be blooded.

When other means have proved ineffectual, and the disorder still increases, the opening those vessels which are most distended, the whole length of the tumor, is much approved of; and after letting them discharge a few ounces of blood, to make the dressings with scraped lint, a vulnerary plaster, comprese and proper bandage, and to treat the wound, in the subsequent dressings, with some vulnerary balm.

CISALPINE, any thing on this side the Alps. Thus the Romans divided Gaul into cisalpine and transalpine. It must be observed, however, that what was cisalpine with regard to the Romans, is transalpine with regard to us.

CISLEU, in Hebrew chronology, the ninth month of their ecclesiastical, and the third of the civil year, answering nearly to our November.

CISMAR, a town of Lower Saxony, in Germany, at a little distance from the Baltic Sea.

CISSA; a bird of the crow-kind, called in English the Persian magpie. See the article CORVUS.

CISSAMEPELOS, in botany, a genus of plants, the clafs of which is not yet fully ascertained: the male flower consists of four ovated, plain, patent petals; the fruit is a globose, unilocular berry, containing a solitary rugosé seed.

CISSITES, a name by which the antients called a species of attites. See ÆTITES.

CISSOID, in geometry, a curve of the second order, first invented by Diocles, whence it is called the cissoid of Diocles. See the article CURVE.

Sir Isaac Newton, in his appendix de aequationum conuisione lineari, gives the following elegant description of this curve, and at the same time shews how, by means of it, to find two mean proportionals, and the roots of a cubic equation, without any previous reduction. Let $A_G$, (plate XLII. fig. 3, No, 1,) be the diameter, and $F$ the center of the circle belonging to the cissoid; and from $F$ draw $F_D$, $F_P$ at right angles to each other, and let $F_P$ be $= A_G$; then if the square $P_ED$ be so moved that one side $E_P$ always passes through the point $P$, and the end $D$ of the other side $E_D$ slides along the right line $F_D$, the middle point $C$ of the side $E_D$, will describe one leg $G_C$ of the cissoid; and by continuing out $F_D$ on the other side $F_P$, and turning the square about by a like operation, the other leg may be described. This curve may likewise be generated by points in the following manner.

Draw the indefinite right line $B_C$ (ibid. No. 2.) at right angles to $A_B$ the diameter of the semicircle $A_OB$, and draw the right lines $A_H$, $A_F$, $A_C$, &c. then if you take $A_M = L_H$, $A_O = O_F$, $Z_C = A_N$, &c. the points $M_O$, $Z_O$, &c. will form the curve $A_MOZ$ of the cissoid.

Properties of the Cissoid. It follows from the genesis, that drawing the right lines $P_M$, $K_L$, perpendicular to $A_B$, the lines $A_K$, $P_N$, $A_P$, $P_M$, as also $A_P$, $P_N$, $A_K$, $K_L$, are continual proportionals, and therefore that $A_K = P_B$, and $P_N = 1K$. After the same manner it appears, that the cissoid $A_MO$, bisects the semicircle $A_OB$. Sir Isaac Newton, in his last letter to Mr. Leibnitz, has shewn how to find a right line equal to one of the legs of this curve, by means of the hyperbola; but suppressed the investigation, which, however, may be seen in his fluxions. The cissoidal space contained under the diameter $A_B$, the asymptote $B_C$, and the curve $A_OZ$ of the cissoid, is triple that of the generating circle $A_OB$. See Dr. Wallis's mathematical works, Vol. I. p. 54, 5, and 6.

CISUS; a name of a distinct genus of plants belonging to the tetrandria-monogynia class of Linnaeus; the flower of which consists of one petal, lightly divided into four segments; and the fruit
CIS [603] CIT

fruit is a roundish berry, containing only a single seed.

CISTERCIANS, in church-history, a religious order founded in the eleventh century by St. Robert, a benedictine. They became so powerful, that they governed almost all Europe, both in spirituals and temporals. Cardinal de Vitri describing their observances, says, they neither wore skins nor shirts, nor ever eat flesh, except in sickness; and abstained from fish, eggs, milk and cheese: they lay upon straw-beds in their tunics and cowls: they rose at midnight to prayers: they spent day in labour, article CITTADELLA. in geography. See the article CISTERPELLA.

CITATION, in ecclesiastical courts, is the fame with summons in civil courts. See the article SUMMONS.

CITADEL, a place fortified with four, five, or six bastions, built on a convenient ground near a city, that it may command it in case of a rebellion. The city therefore is not fortified on the part opposite to the citadel, tho' the citadel is against the city. The best form for a citadel is a pentagon, a square being too weak, and a hexagon too big.

CITADELLA, in geography. See the article CITTADELLA.

CITADELL, a place fortified with four, five, or six bastions, built on a convenient ground near a city, that it may command it in case of a rebellion. The city therefore is not fortified on the part opposite to the citadel, tho' the citadel is against the city. The best form for a citadel is a pentagon, a square being too weak, and a hexagon too big.

CITAREXYLON, in botany, a genus of the

CITANUS, or Citrus, the citron-tree, in botany. See the article CITRUS.
A citizen of Rome was distinguished from a stranger, because he belonged to no certain commonwealth subject to the Romans. A citizen is either by birth or election; and sons may derive the right from their fathers. To make a good Roman citizen, it was necessary to be an inhabitant of Rome, to be enrolled in one of the tribes, and to be capable of dignities. Those to whom were granted the rights and privileges of Roman citizens, were only honorary citizens. It was not lawful to scrouge a citizen of Rome.

CITRACHAN, or CITRAHAN, the name which Ricaud gives to astrakan. See the article ASTRACAN.

CITRAGO, in botany, the name with the common garden balm. See MELISSA.

CITRIL, citriella, in ornithology. See the article CITRINELA.

CITRINE STOECHAS, in botany, the name with the helichrysum, a plant called in English goldlocks, and comprehended by Linnaeus among the gnaphaliums.

CITRINELLA, in ornithology, a name given to the greyish-yellow eberiza, with dufty wings, called in English the yellow-hammer. See EMBERIZA.

CITRINUS, in ornithology, the name with the yellow picus. See the article PECUS.

CITRINUS, in natural history, a kind of sprig crystal, of a fine yellow colour, which being set in rings, is often mistaken for a topaz.

CITRON-TREE, citrus, in botany. See the article CITRUS.

The fruit of this tree has much the same qualities with the lemon, from which it is distinguished by its firmer, greeter bulk, bifer smell, and higher colour. We have essences, oils, confections, and waters obtained from it.

CITRON-WOOD, a name sometimes given to the myrica, or candle-berry tree.

CITRUL, citrullus, makes a distinct genus of plants, according to some, otherwise called anguria; but Linnaeus comprehends it among the cucumbers: it is said to have the same medicinal qualities with the cucurbita or gourd.

CITRUS, the CITRON-TREE, in botany, a genus of the polyadelphia-tosandria class; the flower of which consists of five oblong, plain, potent petals: the fruit is a berry with a fleshy rind, a pulp consisting of vessels and with nine cells, containing two subovate callous seeds in each cell.

CITTADELLA, the capital of the island of Minorca, about twenty-three miles west of Port-mahon: east long. 2° 30', north lat. 40'.

It is likewise the name of a town in Italy, in the Padouan, between Vicenza and Trevisi.

CITTADELLA PIEVE, a town of Italy, in the territories of the pope, near the lake of Perusa.

CITULA, in ichthyology, a species of zeus, called in English dorset, or John doree. See the article ZEUS.

CITUS, in ichthyology, that species of cottus called in English the bull-head. See the article BULL-HED.

CITY, civitas, or urbi, a large populous town, capital of some country, province, or diocese, and the see of a bishop.

Town and city are frequently used in a synonymous sense; however, custom seems to have appropriated the term city to such towns as are, or formerly were, the sees of a bishop: hence it is, that Edin- burgh, Glasgow, &c. are still called cities, though they are no longer the sees of bishops, since the establishment of prel- bytery in Scotland.

Many are the causes that render large cities more unhealthy than other places, as narrow and dirty streets, crowded jails and hospitals, burials within the body of the place, and the like. To the stagnation of air, and putrid effluvia, occasioned by these means, are owing a multitude of malignant disorders, not to be remedied but by purer air and a country life.

Imperial CITIES, an appellation given to those cities of Germany, immediately subject to the emperor: they make a part of the germanic body, are governed by their own magistrates, have the privilege of coining money, and assift at the diet of the empire: they are forty-eight in all, and are distinguished as they occur under their several articles in the order of the alphabet.

CITY, civitas, among the antients, was used in a synonymous sense with what we now call an imperial city; or rather answered to those of the Swiss cantons, the republics of Venice, Genoa, &c. as being an independent state, with territo- ries belonging to it.

CIVENCEU, a city of China, the second metropolis of the province of Fokien, in in 25° north lat. and 29° 9' east of Pekin.

CIVES, the English name of a species of onion, growing in tufts, and seldom exceeding six inches in height: they never produce any bulbs, and are much used in salads in spring.

CIVET,
CIVET, a soft unctuous matter produced in the manner of mulk, in bags growing from the lower part of the belly of a civet-cat. See ZIBETHICUM.

There is a great trade of civet at Calcut, at Baflora, and in other parts of the Indies and in Africa. Live cats are also to be seen in Holland, where they are kept by persons who draw the civet from them for sale, the civet at Amsterdam having the preference of what comes from the Levant and the Indies. Civet should be chosen new, and of the same colour on the surface as within; of a moderate consistence, not too soft nor too dry, the former generally denoting its being adulterated, the latter, its being decayed. It should be of a very strong disagreeable smell. It is adulterated by mixing with it the gall of an ox and forax liquified. Civet has been greatly esteemed in medicine as a cordial, tinctoric, and refilter of poisons, and was a long time famous, externally applied to the pustules of women in hysteric cafes; but this practice has been found not only ineffective, but hurtful. It is little used at present, except in a deaTness from cold, being an article wholly confined to confectioners and perfumers.

CIVET-CAT, the English name of the animal which produces the civet, called by zoologists zibethicus animal. See the article ZIBETHICUM.

CIVIC CROWN, corona civica, was a crown given by the ancient Romans to any soldier who had saved the life of a citizen in any engagement.

This was accounted more honourable than any other crown, though composed of no better materials than oaken boughs. See plate XLII. fig. 4.

It was a particular honour conferred upon any that merited this crown, that when they came to any of the public shows, the whole company, as well Senate as people, should signify their respect, by rising up, as soon as they saw them enter, and that they should take their seats upon these occasions among the senators; being also exempted from all troublesome duties and services in their own person, and procuring the same immunities for their father and grandfather.

CIVIDAD DE LAS PALMAS, the capital of all the Canary islands, situated in the island of Canary.

CIVIDAD-REAL, a city of Spain, in the province of New Castile: it is the capital of La Mancha, situated on the river Guadiana, sixty miles south of Toledo; west long. 4° 26', north lat. 39°.

CIVIDAD-RODRIGO, a city of Spain, in the province of Leon, near the confines of Portugal, situated on the river Ayenada, forty-five miles south-west of Salamanca; west long. 6° 56', north lat. 40° 40'.

CIVIL, civilis, in a general sense, something that regards the policy, public good, or peace of the citizens, or subjects of the state; in which sense we say, civil government, civil law, civil rights, civil war, &c.

CIVIL, in a legal sense, is also applied to the ordinary procedure in an action, relating to some pecuniary matter or interest, in which sense it is opposed to criminal.

CIVIL-DEATH, any thing that retrenches or cuts off a man from civil society, as a condemnation to the galley, perpetual banishment, condemnation to death, outlawry, and excommunication.

The term is also applied to those who are no longer capable of acting in temporal concerns, as those who renounce the world, who retire and make vows in a monastery, &c.

CIVIL FRUIT. See the article Fruit.

CIVIL HISTORY. See HISTORY.

CIVIL LAW, is properly the peculiar law of each state, country, or city: but what we usually mean by the civil law, is a body of laws composed out of the best Roman and Gregian laws, compiled from the laws of nature and nations, and, for the most part, received and observed throughout all the Roman dominions for above 1200 years.

The Romans took the first grounds of this law from the twelve tables, which were abridgments of the laws of Solon, at Athens, and of other celebrated cities of Greece; to which they added their own ancient customs of the city of Rome; these written laws were subject to various interpretations, whereunto controversies arising, they were determined by the judgment of the learned; and these determinations were what they first called jus civile, after their several cafes were composed; which, left the people fupped to make them at pleasure, were fixed, certain and solemn; and this part of their law they called actiones jusici, cafes at law. The Romans had also their plebiscitia, which were laws made by the commons, without the authority of the Senate. The jus bonarium, which was an edict of some particular magistrate, the
the fenatus consultum, an ordinance made by the sole authority of the senate, and the principalis constitutio, which was enacted by the prince or emperor. These laws grew to a vast number of volumes, and therefore the emperor Justinian commanded his chancellor Tribonianus, with the assistance of some other eminent lawyers, to reduce it to a perfect body.

The body of the civil law is divided into three volumes, which are still remaining, viz., the pandects or digests, the code, and the institutes: to these were afterwards added the authenticks, or constitutions of Justinian, called also novelle, or novels.

The civil law is not received at this day in any one nation, without some addition or alteration: for sometimes the feudal law is mixed with it, or general or particular customs; and often ordinances and statutes cut off a great part of it. In Turkey, the Justinian greek code is only used. In Italy, the canon law and customs have excluded a good part of it. In Venice, custom hath almost an absolute government. In the Milanese, the feudal law and particular customs bear sway. In Naples and Sicily, the constitutions and laws of the Lombards are said to prevail. In Germany and Holland, the civil law is esteemed to be the municipal law; but yet many parts of it are there grown obsolete, and others are altered, either by the canon law, or a different usage. In Friesland, it is observed with more strictness; but in the northern parts of Germany, the jus saxonicum, lubecenfe, or culmenfe, is preferred to it. In Denmark and Sweden, it hath scarce any authority at all. In France, only a part of it is received, and that part is in some places as a customary law; and in those provinces nearest to Italy, the municipal written law. In criminal cases, the civil law is more regarded in France: but the manner of trial is regulated by ordinances and edicts. The civil law in Spain and Portugal, is corrected by the jus regium and custom. In Scotland, the statutes of the Sederunt, part of the Regie Majestatis, and their customs, control the civil law. In England, it is used in the ecclesiastical courts, in the courts of the admiralty, and in the two universities; yet in all these it is restrained and directed by the common law.

CIVIL WAR, a war between people of the same state, or the citizens of the same city.

CIVIL YEAR is the legal year, or annual account of time, which every government appoints to be used within its own dominions, and is so called in contradistinction to the natural year, which is measured exactly by the revolution of the heavenly bodies.

CIVILIAN, in general, denotes something belonging to the civil law; but more especially the doctors and professors thereof are called civilians: of these we have a college or society in London, known by the name of Doctors-commons. See the article DOCTORS-COMMONS.

CIVILIZATION, in law, a judgment which renders a criminal process civil.

It is performed by turning the information into an inquest and vice versa.

CIVITA-CASTELLANNA, a city of Italy, in St. Peter's patrimony, situated near the river Tiber, twenty-five miles north of Rome: east long. 13°, north lat. 42° 15'.

CIVITA DE CHIETI, in geography. See the article CHIETI.

CIVITA NUOVA, a town of Italy, in the marquisate of Ancona.

CIVITA DI PENNA, a town of Italy, in the kingdom of Naples, near the river Salino.

CIVITA DI SAN ANGELO, a town of Italy, in the kingdom of Naples, about three miles from Porto di Salino, and the Adriatic sea.

CIVITA VECCHIA, a port-town and fortress of Italy, in St. Peter's patrimony, situated on a bay of the Mediterranean, thirty miles north-west of Rome: east long. 12° 30', north lat. 42°. It is the station of the galleys belonging to the pope, who has lately declared it a free port.

CLACK, among countrymen. To clack wool, is to cut off the sheep's mark, which makes the weight less, and yields less custom to the king.

CLACKMANNAN, the capital of Clackmannan-shire, in Scotland, situated on the northern shore of the Forth, about twenty-five miles north-west of Edinburgh: west long. 3° 40', north lat. 56° 15'. The county of Clackmannan is joined with that of Kinroths, which each in their turn choose a member to represent them in parliament.

CLAGENFURT, or CLAGENFORT, the capital of Carinthia, in the circle of Austria in Germany, 120 miles south-west of Vienna: east long. 14°, north lat. 47°.
CLAIM, in law, a challenge of interest in any thing that is in possession of another, as claim by charter, descent, acquisition, &c. Claim is either verbal or by action, and is sometimes for lands, sometimes for goods and chattels. It may be made by the party himself, and likewise by his servant or deputy, but not by a mere stranger in his name. By the common law, claim is to be within a year and a day after the person is disseized of land. Claim of liberty, is a suit to the king in the court of Exchequer, to have liberties confirmed there by the attorney-general. False claim, is a term used in the forest-laws, where a person claims more than his due, for which he is liable to be amerced.

See the article Quiet. Continental claim. See Continental. Clair-obscure, chiaro-scuro, or claro-obscuro. See the article Clair-obscuro. Claykis, in ornithology, a name used in some parts of the kingdom for the bernacle. See the article Bernacle. Claima admittenda, in itinere per attornatum, is a writ by which the justices in eyre are commanded to admit a person's claim by attorney, when he is employed in the king's service, and cannot personally appear.

See the article Bernacle. Clear, in the French laws, imports the complaint of a person imploring justice against the oppression of another.

CLAMP in a fis, denotes a piece of timber applied to a mail or yard, to prevent the wood from burfing; and also a thick plank lying fore and aft under the beams of the first orlop, or second deck, and is the name that the rising timbers are to the deck. Clamp is likewise the term for a pile of unburnt bricks built up for burning. These clamps are built much after the same manner as arches are built in kilns, viz. with a vacuity betwixt each brick's breadth for the fire to ascend by; but with this difference, that instead of arching, they trusf over, or over span; that is, the end of one brick, is laid about half way over the end of another, and so till both sides meet with half a brick's length, and then a binding brick at the top, finishes the arch.

CLAMP NAILS, such nails as are used to fasten on clamps in the building or repairing of ships.

CLAMPING, in joinery, is the fitting a piece of board with the grain, to another piece of board 'cros the grain. Thus the ends of tables are commonly clamped, to prevent their warping.

CLANCULARI, a feast of anabaptists, who taught that it was not necessary to make an open profession of the faith. CLANDESTMA, in botany, the name by which Tournefort calls the lathrea of Linneus. See Lathrea.

CLANDESTINE, any thing done without the knowledge of the parties concerned, or without the proper solemnities. Thus a marriage is said to be clandestine, when performed without the publication of bans, the consent of parents, &c. And as such marriages are very detrimental to society, as well as destructive of the peace and happiness of private families, the legislature has lately thought proper to enact, that all marriages of that kind, from the month of March 1754, shall be null and void. See the article Marriage.

CLANGULA, in ornithology, a species of duck, called in English golden-eye. See the article Golden-eye.

CLAP, in medicine, the first stage of the venereal disease, more usually called gonorrhea. See Gonorrhoea.

CLAP, in falconry, denotes the under part of a hawk's beak.

CLAP-BOARD, among cooperers, denotes any kind of board proper for making casks or other vessels of. See Board.

CLAP-NET, a device for catching larks. You intice the birds with calls, and when they are within your distance, you pull a cord, and your net flies up and claps over them. See Net. It is likewise called daring or daring.

CLAR, or CLAIR, among metallurgists, denotes the powder of bone-ashes, kept for covering the inside of coppels. See the article Coppel.

CLARA, or St. Clara, an island of Peru, in south America, situated in the bay of Guiaquil, seventy miles south-west of the city of Guiaquil: west long. 39°, south lat. 3° 30'.

CLARAMONT-Powder, a kind of earth, called terra de boa, from the place where it is found: it is famous at Venice, for its efficacy in stopping hemorrhages of all kinds, and in curing malignant fevers.

CLARE, a market-town of Suffolk, thirteen miles south of Bury: east long. 35'; north lat. 52° 15'.
It gives the title of earl to the duke of Newcastle.

Clare is also the capital of a county of the same name in the province of Connaught, in Ireland, situated about seventeen miles north-west of Limerick: very long. 9°, north lat. 52° 40'.

Clarencieux, the second king at arms, so called from the duke of Clarence, to whom he first belonged; for Lionel third son to Edward III, having by his wife the honour of Clare, in the county of Thomond, was afterwards declared duke of Clarence; which dukedom afterwards escheating to Edward IV, he made this earl a king at arms. His office is to marshal and dispose of the funerals of all the lower nobility, as baronets, knights, esquires, on the south side of the Trent; whence he is sometimes called Surrey, or South-roy, in contradistinguished to Norroy.

Clarendon. The constitutions of Clarendon, are certain ecclesiastical laws drawn up at Clarendon, near Salisbury. They were sixteen in number, all tending to restrain the power of the clergy, and readily assented to by all the bishops and barons, the archbishop Becket excepted, who opposed them at first, but was afterwards prevailed upon to sign them. The pope Alexander III, declared against and annulled most of them.

Clarenza, the capital of a dutchy of the same name in the Morea: it is a sea-port town, situated on the Mediterranean, twenty-six miles south of Petras: east long. 21° 40', north lat. 37° 46'.

Claret, a name given by the French to such of their red wines as are not of a deep or high colour. See Wine.

Claret, in ancient pharmacy, was a kind of wine impregnated with aromatics, sometimes also called hippocras, or vi num hippocraticum, because supposed to have been first prescribed by Hippocrates.

Claret-wine-apple, is fair, and yields plenty of a pleasant sharp juice, from whence it has its name, and not from the colour; it being a white apple, but makes a vinous liquor, which, if well ordered, excels most other cyders, especially with a mixture of sweet apples.

Clarichord, or manichord, a musical instrument in form of a spinet. It has forty-nine or fifty stops, and seventy strings, which bear on five bridges, the first whereof is the highest, the rest diminishing in proportion. Some of the strings are in unison, their number being greater than that of the stops. There are several little mortoires for paling the jacks, armed with brass-hooks, which flop and raise the chords instead of the feather used in virginals and spinets: but what distinguishes it most is, that the chords are covered with pieces of cloth, which render the sound sweeter, and deaden it so, that it cannot be heard at any considerable distance: whence it comes to be particularly in use among the nuns, who learn to play, and are unwilling to disturb the silence of the dormitory.

Clarification, in chemistry, the act of clearing and fining any fluid from all heterogeneous matter or feculentias. This operation is performed three ways, by decantation, by depuration, and by percolation or filtration. The first and most simple manner of clarification, is by decantation. It is the separating fluids from their grosser parts, by means of the difference of their specific gravity, and is performed by only suffering the fluid to stand at rest, till every thing that will subside is collected at the bottom, and then pouring off from the sediment, by a gradual inclination of the vessel, all that part of the fluid which appears clear.

When fluids are to be freed from oils, or such matter as floats, an instrument, called a tritorium, or separating funnel, is to be used.

When oils, whose vivid consistence is apt to detain impurities, and prevent their subsiding, are to be clarified, it is proper, previously to decantation, to let them stand some time within a moderate digesting heat, by means of which, being more liquified, they will frequently let fall a sediment, not otherwise separable.

The second method, by depuration, is performed by adding whites of eggs, first well beat together, to the fluid to be clarified; and after a perfect commixture, making them coagulate by means of heat, and thereby carry to the surface all the heterogeneous matter, which is entangled by them in their coagulence; the impurities, together with the concreted whites of the eggs, appearing as a froth on the surface of the fluid, is to be taken off with a spoon.

The third manner, called filtration or percolation, is performed by passing, without pressure, the fluid to be purified, through strainers of flannel, linen-cloth,
or paper, which retaining the coarser parts, suffer only the clearer fluid to be transected. When flannel is used, it is made into a bag, in the form of a cone, and then called Hippocrates's sleeve, the basis whereof being turned upwards, and expanded by means of three or four posts, from which it is made to hang; it is then filled with the fluid, which drops from the apex into a vessel.

This is mostly used in cases of decoctions, extracts, and all gelatinous and laponaceous preparations, where extreme clearness is not necessary. In solutions of salts, spirits, and other limpid fluids, where great transparency is expected, paper, or decantation, from the apex, is to put it into a tin or glass funnel, to whose form it is adapted in the manner of a lining. Linen-cloth is also used for this purpose, tho' but seldom, as it purifies with far less effect than woollen, unless in the solutions of gums and gumby extracts. In distilled waters, &c. which have a milky hue, or are turbid, clarification is generally effected with fine sugar, mixt with a small quantity of alum: fine and delicate wines are clarified with full-glue, and thicker wines with omelet, &c.

**CLARIGATION, clarigatio, in roman antiquity, a ceremony which always preceded a formal declaration of war, performed in this manner; the chief of the heralds went to the territory of the enemy, where, after some solemn, prefatory indication, he, with a loud voice, intimated that he declared war against them for certain reasons specified, such as an injury done to the roman allies, or the like.**

**CLARIGATION was also used for apprehending a man, and holding him to bail, called by the Greeks *androlepsy*.**

**CLARINO, a trumpet; hence, *a dio claria* signifies, that a piece of music is to be played by two trumpets. See the articles TRUMPET, CORNET, &c.**

**CLARION, a kind of trumpet, whose tube is narrower, and its tone acuter and shriller than that of the common trumpet. It is said that the clarion, now used among the Moors and Portuguese, who borrowed it from the Moors, served antiently for a treble to several trumpets, which founded tenor and bas.**

**CLARION, in heraldry, a bearing as represented, plate XLII. fig. 5, he bears rocky, Vol. I.**

three clarions topaz, being the arms of the earl of Bath, by the name of Granville: Guillim is of opinion, that these three clarions are a kind of old-fashioned trumpets; but others (say, that they rather resemble the rudder of a ship; others, a ruff for a lance.

**CLARK-GOOSE, in ornithology, a kind of wild goose, found in Zetland.**

**CLARO-OBSCURO, or CLAIR-OBSCUR, in painting, the art of distributing to advantage the lights and shadows of a piece, both with regard to the eating of the eye, and the effect of the whole piece.**

Thus, when a painter gives his figure a strong relief, loosens them from the ground, and sets them free from each other, by the management of lights and shadows, he is said to understand the claro-obscuro, which makes one of the great divisions or branches of painting, the whole of a picture being resolvable into light and shadow.

The doctrine of the claro-obscuro will come under the following rules. Light may be either considered with regard to itself, or to its effects; the place wherein it is diffused, or its use.

For the first, light is either natural, or artificial. 1. Natural either comes immediately from the sun, which is bright, and its colour various, according to the time of the day; or 'tis that of a clear air, thin' which the light is spread, and whose colour is a little bluish; or a cloudy air, which is darker, yet represents the objects in their genuine colours, with more ease to the eye. 2. Artificial light proceeds from fire or flame, and tinges the object with its own colour; but the light it projects is very narrow and confined.

For the second, the effects of light are either principal, as when the rays fall perpendicularly on the top of a body, without any interruption, or glancing, as when it slides along bodies; or secondary, which is for things at a distance.

3. For the place, it is either the open campaign, which makes objects appear with greater softness; or it is in an inclosed place, where the brightness is more vivid, its determination more hafty, and its extremes more abrupt.

4. For the use or application, the light of the sun is always supposed to be without, and over against the picture, that it may enlighten the foremost figures, the luminaries themselves never appearing, in regard...
gard the light colours cannot express them. The chief light to meet on the chief group, and as much as possible, on the chief figure of the subject. The light to be purified over the great parts, without being crossed or interrupted with little shadows. The full force of the principal light to be only in one part of the piece, taking care never to make two contrary lights. Not to one universal light, but to suppose other clouds, the As receive it. The words which are lost, must be darker than any part that has relievo, and disposed in the front.

Deepenings, which admit not of any light, or reflex of light, must never meet on the relievo of any member of any great elevated part, but in the cavities, or joints of bodies, the folds of draperies, and where there are volumes in the cabinets of things, whence it proceeds, and the nature of the subjects which receive it.

As for shadows, they are distinguished, 1. Into those formed on the bodies themselves by their proper relievo. 2. Those made by adjacent bodies; those that make the parts of any whole, and the different effects, according to the difference of places.

For the first, since the different effects of light only appear by shadows, their degrees must be well managed. The place which admits no light, and where the colours are loft, must be darker than any part that has relievo, and disposed in the front.

Deepenings, which admit not of any light, or reflex of light, must never meet on the relievo of any member of any great elevated part, but in the cavities, or joints of bodies, the folds of draperies, &c. and to find occasion for introducing great shadows, to serve for the repose of the light, and the loosening of things, instead of many shadows which have a pitiful effect.

For the second, the shadows made by bodies are either in plain and smooth places, or on the earth, wherein they are deeper than the bodies that occasion them, as receiving less reflex light, yet still diminished as they depart farther from their cause, or on the neighbouring bodies, where they are to follow the form of the same bodies, according to its magnitude, and its position in respect of the light.

For the third, in shadows that have parts, the painter must observe to take for a light in a shadowed place, the teint or lustre of the light part; and on the contrary, for the shadow in the lightened part, the teint or lustre in the shadow.

For the fourth, the effects of shadows are different, as the place is either wide or spacious, as in those coming immediately from the sun, which are very sensible, and their extremes pretty abrupt; from the serene air, which are fainter and more sweet; from the dark air, which appear more diffused and almost imperceptible; and from an artificial light, which makes the shadows deep, and their edges abrupt.

Claro-obscuro, or chiaro-scuro, is also used to signify a design confiding only of two colours, most usually black and white, but sometimes black and yellow; or it is a design washed only with one colour, the shadows being of a dusky brown colour, and the lights heightened up with white.

The word is also applied to two prints of two colours, taken off at twice, whereof there are volumes in the cabinets of the curious in prints.

Clairy, in botany, the English name of the fcrea of Tournefort, comprehended by Linnaeus among the species of falvia, or sage.

Wild Clairy, the fame with the hornimum of Tournefort, likewise accounted by Linnaeus a species of sage.

Clairy-water, a spirit drawn from an infusion of the herb clary in spirit of wine, being a very pleasant and excellent cordial.

Etmulier will not have it give place even to cautfor in hysterical affections; and affirms, that there is no better remedy in colics; but it is not now prescribed for such purposes.

Clasmiunm, in natural history, constitutes a distinct genus of gypsums by itself, being more loft, dull, and opake than other kinds: it neither gives fire with steel, nor fermenfs with aqua fortis; but calcines readily in the fire, and affords a very valuable plaster. See the article Gypsum.

Claspers, among gardeners, the fame with what botanists call cirri. See Cirri.

Class, classibus, an appellation given to the most general subdivisions of any thing; thus, animal is subdivided into the classes quadrupeds, birds, fishes, &c. which are again subdivided into series or orders; and these last into genera.

Class is also used in schools, in a synononyous sense with form, for a number of boys all learning the same thing. The distributing boys into classes, contributes not only to raise an emulation among them, but is of great advantage to the master; who, by this means, can teach
teach double the number it would otherwise be possible for him to do.

CLASSIC, or CLASSICAL, an epithet chiefly applied to authors read in the classes at schools, and who are in great authority there.

This term seems to owe its origin to Tullius Servius, who, in order to make an estimate of every person's estimate, divided the Roman people into six bands, which he called classes. The estimate of the first class was not to be under 200, and the by way of eminence were called classic, classes: hence authors of the first rank came to be called classics, all the rest being said to be infra classem: thus Aristotle is a classic author in philosophy; Aquinas, in school divinity, etc.

By classical learning may be understood, such an intimacy with the best Greek and Latin writers, as not only enables the reader to see and admire the beauty of their several compositions, but to imitate their manner of writing, to transcribe their spirit and eloquence, and make their dictation and their sentiment his own.

The principal classics in the Greek language are, Homerii opera, Platonis opera, Demosthenis et Alcibiadis opera, Xenophon de Cyri institutione, Plutarchi opera, Iocratis orationes et epistolae, Epicteti encheridion, Luciani opera, Sophoclis tragediae, Euripidis opera, Dionysii Longinis de Sublimitate, Theocriti alla extant, Anacreon, Pindari opera, Aristophanis comediae, etc.


CLATHRUS, in botany, a genus of roundish mushrooms; the substance of which is reticulated, or full of holes, somewhat like the meshes of a net, with continuous ramifications. See the article mushroom.

CLATTE, in heraldry, an appellation given to irregular lines, not reducible to those commonly used. See the article line.

CLAVARCA, in botany, a genus of perpendicular mushrooms, with an uniform surface: this genus, by different authors, has been called fungoides, corallo-fungus, and caralloides. See mushroom.

CLAVATA, in ichthyology, a species of ray-fish, with a transverse cartilage on the belly.

CLAVATA VESTIMENTA, in antiquity, those adorned with clavi. See CLAVUS.

CLAUDENDA CURIA. See CURIA.

CLAUDIENS PALPEBRAS, in anatomy, a muscle otherwise called orbicularis. See the article ORBICULARIS.

CLAVELLATI CINERES, the same with pot-ashes. See the article POT-ASHES.

CLAVENNA, or CHIAVENNA, a town of the Grisons, in Switzerland. See the article CHIAVENNA.

CLAVES INSULÆ, a term used in the isle of Man; where all weighty and ambiguous causes are referred to a jury of twelve, who are called claves infulae, the keys of the island.

CLAVICLES, claviculae, in anatomy, are two bones situated transversely and a little obliquely opposite to each other, at the superior and anterior part of the thorax, between the scapula and sternum. Their figure is somewhat like that of the letter S; their substance is spongy and brittle; their body is a first point for the deltoide, malleolite, pectoral, and some other muscles; they are protuberant for the subclavian muscle; and of their two extremities, the rounder is articulated with the sternum and with the first rib, and the flatter is articulated with the acromion.

The uses of the clavicles are, 1. To keep the arms from falling too forward upon the breast, and to facilitate several of the motions of the arm. 2. To serve for the place of origin for several muscles. 3. To defend the great subclavian vessels which run under them.

Fracture of the CLAVICLES. As it is no difficult matter to know when the clavicle is fractured, so it is not very hard to reduce it, especially when the fracture is transverse; the operation may be performed in the following manner: an assistant is to pull the arms of the patient gradually backwards, by which means the clavicles will be properly extended. In the mean time the surgeon is to replace the bone, and while the assistant holds it in that position, he is to apply a narrow and thick compress, so as to fill up the cavities above and below the clavicle. Upon this he is to lay two more narrow compresses made in the form of an X; and over all these apply a piece of pasteboard, accommodated to the shoulder and neck, and first steeped in spirit 4 1 2 of
of wine, or oxycrate. Then he must place a ball under the arm, or bind it with a thick roller, to prevent the humerus from subduing; and lastly, the whole is to be bound up, and the arm suspended in a sling.

Luxation of the Clavicles. They may be dislocated either from the top of the sternum, or processus acromion of the scapula, by some external violence, as a fall, blow, the lifting some great weight, or the like. This accident, however, seldom happens, by reason of their strong ligaments. For the cure, the surgeon will find the principal business to consist in a proper extension and reduction of what has been displaced, to be performed in the same manner as in fractures of the same bones: but all possible care must be taken to perform the bandage with accuracy, because it is the chief remedy; and such as are negligent in this point, seldom perform a cure without leaving some stiffness or weakness afterwards. Heijler.

CLAVIS properly signifies a key, and is sometimes used in English to denote an explanation of some obscure passages in any book or writing.

CLAUSE, in grammar, denotes a member of a period, or sentence. CLAUSE signifies also an article, or particular stipulation, in a contract, a charge or condition in a testament, &c.

Thus we say, a derogatory clause, a penal clause, a dying clause, codicillary clause, &c.

CLAUSE-Rolls, in the Tower, contain all such matters as were committed to close writ.

CLAUSENBURG, a large city of Transylvania, situated on the river Samos, about fifty-five miles north-west of Hermannstät: east longitude 20° 30', and north latitude 47° 10'.

CLAVUS, in antiquity, an ornament upon the robes of the Roman senators and knights, which was more or less broad, according to the dignity of the person: hence the distinction of tunica angustilavivia and latilaviva. Critics are much divided about the clavi: some fancying them to have been a kind of flowers interwoven in the cloth; others will have them to be the buttons or claps by which the tunic was held together; a third fort contend that the latus clavus was nothing else but a tunic bordered with purple; Scaliger thinks that the clavi did not properly belong to the vest, but hung down from the neck like chains and ornaments of that nature; but the most general opinion makes them to have been studs, something like heads of nails, worked into the tunic. Rubenius, rejecting all these opinions, contends that the clavi were no more than purple lines or streaks coming along the middle of the garments, which were afterwards improved to golden and embroidered lines of the same nature: and Mr. Dacier maintains that they were purple galons with which they bordered the fore-part of the tunic, on both sides, in the place where it came together.

It has been a received opinion, that the angustilaviva distinguished the knights from the common people, in the same manner as the laticlave did the senators from those of the equestrian rank: but Rubenius avereth that there was no manner of distinction between the tunics of the knights and those of the commons. As to the persons who wore the laticlave, they were either sons of those senators who were patricians, in which case they wore it in their childhood, with the praetexta; or the sons of senators who were not patricians, these did not put on the laticlave till they applied themselves to the service of the Commonwealth, and to bearing offices.

CLAVUS, in medicine and surgery, is used in several significations: 1. Clavus hyfericus, is a shooting pain in the head between the pericranium and cranium, which affects such as have the green-sickness. 2. Clavus oculorum, according to Celsus, is a callous tubercle on the white of the eye, taking its denomination from its figure. 3. Clavus imports indurated tubercles of the uterus. 4. Clavus imports a chirurgical instrument of gold, mentioned by Amatus Lusitanus, designed to be introduced into an ulcerate palate, for the better articulation of the voice. 5. Clavus is a callous or corn on the foot: this arises from a too great compression of the cutsis, which by this means hardens and forms itself into a knot. The cure is by softening them, and then pulling them out. The pulp of a lemon laid to a corn, and bound on all night, often softens it so by the morning that it may easily be taken off.

CLAW, among zoologists, denotes the sharp-pointed nails, with which the feet of certain quadrupeds and birds are furnished.

Crab's Claws, in pharmacy. See the article CRAB'S CLAWS.
CLAY'S CLAWS. See the article ELK.
CLAWS is also used in some old writers for a close. See the article CLOSE.

CLAY, argilla, in natural history, a genus of earths, the characters of which are these: they are firmly coherent, weighty, and compact; stiff, vivid, and dustlike to a great degree, while moist; smooth to the touch, not easily breaking between the fingers, nor readily fusible in water, and when mixed, not readily fusible from it.

Of this genus authors enumerate a great many species, some white, some brown, grey, blue, yellow, green, red, black, &c., many of which having been distinguished by particular names, will be mentioned, and their peculiar qualities explained, as they occur.

Besides the use of clay for making potter's ware, it is a considerable improver of light and sandy grounds, which, unless they be clayed, will bear nothing but rye, with whatever other composites they be manured; but once clayed, they will produce oats, barley, peas, &c.

In Yorkshire, they lay an hundred load upon an acre of ground, which will keep the soil in heart upwards of forty years: indeed the first year after being clayed, it bears rank, ill-coloured, and broad-grained barley; but afterwards a plump round corn, like wheat.

CLAY-LANDS, those abounding with clay, whether black, blue, yellow, white, &c., of which the black and the yellow are the best for corn.

All clay-foils are apt to chill the plants growing on them in moist feasons, as they retain too much water: in dry feasons, on the contrary, they turn hard and choke the plants. Their natural produce is weeds, goose-gras, large daisies, thistles, docks, poppies, &c.

Some clay-foils will bear clover and rye-gras; and, if well manured, will produce the best grain: they hold manure the best of all lands, and the most proper for them are horfe-dung, pigeon's dung, some kinds of marle, folding of heep, mait-duft, ashes, chalk, lime, foot, &c.

CLAYES, in fortification. See Hurdles.

CLAYTONIA, in botany, a genus of the pedandria-monogynia class of plants, the flower of which consists of five ovato-oblong, erect, large petals; the fruit is a roundish unilocular capsule, containing several roundish seeds.

CLEAR, in building; a term used by workmen to signify the inside-work of the house.
CLEAR-WALK, a term among cock-fighters,
forming any 'nate' fever:!l of any piece is to be taken, but to limit the pitch at which the fidal note the proper ufe of the ligned clef is not known, they may be made with' fuch differences as
longing

It must be ob{erved, that for the performance of one fingle piece, the clefs only fervc for explaining the intervals in the lines and fpaces; fo that the firft note may be taken high or low, as we pleafe: for as the proper ufe of the fcale is not to limit the abolute degree of tunes, fo the proper ufe of the figned clef is not to limit the pitch at which the firft note of any piece is to be taken, but to termi
nate the tune of the firft with relation to the firft, and considering all the parts to
gether, to determine the relation of the feveral notes, by the relation of their clefs in the fcale. And in effect, in performing any fingle part, the clef may be taken in any octave, provided we do not go too high or too low for finding the reft of the notes of a fong. But in a concert of ferveral parts, all the clefs must be taken not only in the relation but also in the places of the fystem above-men
tioned, that every part may be compre
hended in it.

Signature of the clefs is, according to Mr. Malcolm, the marking the fystems by the flats and sharps. See the articles CHARACTERS in music, FLAT, SHARP, &c.

CLEFTS, or CRACKS in the heels, a dif
eafe incident to horses, that comes either by over-hard labour, which occasions fur
feits, or by giving them unlefsome meat, or by washing them when hot. For the cure, shave away the hair, and apply the oil of hempfeed, or linmeal, and be sure to keep them clean.

CLEIDOMASTOIDEUS, in anatomy, the fame with mastoideus. See the article MASTOIDEUS.

CLEMA, in antiquity, a twig of the vine, which ferved as the badge of a centurion's office. See CENTURION.

CLEMATIS, VIRGIN'S BOWER, in botany, a genus of the polyandria-polygonia clafs of plants, the flower of which con
fits of four or five oblong lax petals: there is no pericarpium, but a fmall receptacle contains ferveral roundish crenilled feeds, crowned with a fliender filament somewhat like a feather. See plate XLII. fig. 7.

CLEMATIS is also the name by which Plu
mier calls the pafliflora of Linnaeus.

CLEMATITIS, the fame with clematis. See the preceding articles.

CLEMENTINE, among the augufine monks, a perfon, who, after having been nine years a fuperior, becomes a private monk, in confequence of a bull of pope Clement.

CLEMENTINES, in the canon law, the con
fitions of pope Clement V.

CLENCH-NAILS, in fimithery. See the article NAIL.

CLEOME, in botany, a genus of plants belonging to the tetradynamia-filiqua clias, the flower of which con
fits of four patent petals inclining upwards; the fruit is a cyndrical pod, with two valves and two cells, containing ferveral roundish feeds.

CLEOME is also used for a genus of plants, otherwise called eryngium.

CLEPSYDRA, a water-clock, or instru
cement to measure time by the fall of a cer
tain quantity of water.
The construction of a Clepsydra. To divide any cylindrical vessel into parts, to be emptied in each division of time, the time wherein the whole, and that wherein any part is to be evacuated, being given.

Suppose a cylindrical vessel, whole charge of water flows out in twelve hours, were required to be divided into parts, to be evacuated each hour: 1. As the part of time 1 is to the whole time 12, so is the same time 12 to a fourth proportional 144. 2. Divide the altitude of the vessel into 144 equal parts: here the last will fall to the last hour; the three next above to the last part but one; the five next to the tenth hour; lastly, the twenty-three last to the first hour. For since the times increase in the series of the natural numbers 1, 2, 3, 4, 5, &c. and the altitudes, if the numerator be in a retrograde order from the twelfth hour, increase in the series of the unequal numbers 1, 3, 5, 7, 9, &c. the altitudes computed from the twelfth hour will be as the squares of the times 1, 4, 9, 16, 25, &c. Therefore the squares of the whole time, 144, comprehends all the parts of the altitude of the vessel to be evacuated. But a third proportional to 1 and 12 is the square of 12, and consequently it is the number of equal parts in which the altitude is to be divided, to be distributed according to the series of the unequal numbers, thro' the equal intervals of hours.

There were many kinds of clepsydra among the antients; but they all had this in common, that the water ran generally through a narrow passage, from one vessel to another, and in the lower was a piece of cork or light wood, which, as the vessel filled, rose up by degrees, and shewed the hour. The reader may fee a description of a very curious clepsydra given by Mr. Hamilton, in n° 479. of the Philosophical Transactions.

Clepsydra is also used to denote a perforated chemical vessel, and an instrument mentioned by Paracelsus, contrived to convey suffumigations to the uterus.

CLERAC, or CLAIRAC, a town of France, in the Agenois, situated upon the Lot.

CLERC, or CLERK. See CLERK.

CLERGY, clericus, a general name given to the body of ecclesiastics of the Christian church, in contradistinction to the laity.

The distinction of Christians into clergy and laity, was derived from the Jewish church, and adopted into the Christian by the apostles themselves: whenever any number of converts were made, as soon as they were capable of being formed into a congregation or church, a bishop or presbyter, with a deacon, were ordained to minifter to them. Of the bishops, priests, and deacons the clergy originally consisted; but in the third century, many inferior orders were appointed, as subordinates to the office of deacon, such as subdeacons, acolythists, readers, &c.

The privileges and immunities which the clergy of the primitive Christian church enjoyed, deserve our notice. In the first place, when they travelled upon necessafary occasions, they were to be entertained by their brethren of the clergy, in all places, out of the public revenues of the church. When any bishop, or presbyter, came to a foreign church, they were to be complimented with the honorary privilege of performing divine offices, and consecrating the eucharist in the church.

The great care the clergy had of the characters and reputations of those of their order, appears from hence, that in all accumulations, especially against bishops, they required the testimony of two or three witnesses of good character; nor was any heretic admitted as an evidence against a clergyman. With regard to the respect paid to the clergy by the civil government it consisted chiefly in exempting them from some kind of obligations to which others were liable, and granting them certain privileges and immunities which others did not enjoy.

By the ecclesiastical laws, no clergyman was allowed to relinquish his station without just grounds and leave: but in some cases resignation was allowed of, as in old-age, sickness, or other infirmities. The laws were no less severe against all wandering clergymen, or such, as having deserted their own church, would fix in no other. There were laws which obliged the clergy to constant attendance upon their duty: others inhibited pluralities, or the officiating in two parochial churches; or following any secular employments. Another sort of laws respected the outward behaviour of the clergy; such inhibited them from corresponding or conversing too freely with Jews and gentle philosophers; and there were canons which restrained them from eating and drinking in taverns, or being present at the public theatres. It was also enacted, that no bishops, presbyters, or deacons should visit widows and virgins alone, but in the company of some other...
other of the clergy, or some grave christians. As to the fashion of their apparel, it does not appear that, for several ages, there were any distinctions observed therein between them and the laity. The clergy of the church of Rome are distinguished into regular and secular: the regular clergy consists of those monks or religious, who have taken upon them holy orders of the priesthood, in their respective monasteries. The secular clergy are those which are not of any religious order, and have the care and direction of parishes. The protestant clergy are all secular.

The romish church forbids the clergy of her communion to marry; and pretends that a vow of perpetual celibacy, or abstinence from conjugal society, was required of the clergy as a condition of their ordination, even from the apostolical ages.

The privileges of the english clergy, by the antient statutes, are very considerable: their goods are to pay no toll in fairs or markets; they are exempt from all offices but their own; from the king's carriages, posts, &c. from appearing at sheriffs' tourns, or frank-pledges; and are not to be fined or amerced according to their spiritual, but their temporal means. A clergyman acknowledging a statute, his body is not to be imprisoned. If he be convicted of a crime, for which the benefit of clergy is allowed, he shall not be burnt in the hand; and he shall have the benefit of the clergy in infinitum, which no layman can have more than once.

The clergy, by common law, are not to be burdened in the general charges of the laity; nor to be troubled nor incumbered, unless expressly named and charged by the statute; for general words do not affect them: thus, if a hundred be fixed for a robbery, the minister shall not contribute: neither shall they be attainted to the highway, to the watch, &c.

The revenues of the clergy were antiently more considerable than at present. Ethelwolph, in 855, gave them a tythe of all goods, and a tenth of all the lands in England, free from all secular services, taxes, &c. The charter whereby this was granted them, was confirmed by several of his successors; and William the conqueror, finding the bishoprics so rich, created them into baronies, each barony containing thirteen knight's fees at least: but since the reformation the bishoprics are much impoverished. The revenues of the inferior clergy, in the general, are small, a third part of the best benefices being antiently, by the pope's grant, appropriated to monasteries, upon the dissolution whereof they became lay- fees. Indeed an addition was made, 2 Anne., the whole revenues of first-fruits and tenths being then granted to raise a fund for the augmentation of the maintenance of the poor clergy; pursuant to which, a corporation was formed, to whom the said revenues were conveyed in trust, &c.

Benefit of Clergy is an antient privilege, whereby one in orders claimed to be delivered to his ordinary, to purge himself of felony: this purgation was to be by his own oath, affirming his innocency, and the oath of twelve compurgators, as to their belief of it, before a jury of twelve clerks: if the clerk failed in his purgation, he was deprived of his character, whereby he became a mere layman; or he was to be kept in prison till a pardon was obtained: but if he purged himself, he was set at liberty.

This was formerly admitted, even in cases of murder; but the antient course of the law is much altered upon this head. By the statutes of 18 Eliz. cap. vii. clerks are no more committed to their ordinary to be purged; but every man, to whom the benefit of clergy is granted, though not in orders, is put to read at the bar, after he is found guilty, and convicted of such felony, and so burnt on the hand, and set free for the first time, if the ordinary or deputy standing by, do say, legit ut clericus, otherwise he shall suffer death.

It appears by our law-books, that laymen that could read, had the privilege of the clergy ever since 25 Edw. III. which allowance never was condemned in parliament, but rather approved of.

Benefit of clergy is taken in many cases. Clerical, in general, denotes something belonging to a clerk. See the article Clerk.

Non residentia pro CLERICIS REGIS. See the article Non Residentia. Clerico Admittendo. See the article Admittendo.
Clerico capto per statutum mercatorum, a writ for the delivery of a clerk out of prison, who is in custody on the breach of a statute-merchant.

Clerico
Clerico convicto commissio calæ in defectu ordinarii deliberando, a writ that formerly lay for delivering to his ordinary, a clerk who had been convicted of felony, if the ordinary did not challenge him, according to the privileges of clerks in those days.

Clerico infra sacros ordines constituto non eligendo in officium, is a writ to release one in holy orders, from an office imposed upon him.

Clerk, a word originally used to denote a learned man, or man of letters: whence the term became appropriated to churchmen, who were from thence called clerks or clergymen; the nobility and gentry being usually bred up to the exercise of arms, and none left but the ecclesiastics to cultivate the sciences.

Acephalous clerks, a name given to those, in the VIth century, who separated from their bishops, and refused to live in community with them; in contradistinction to canonic clerks, who lived with their bishop, according to the canons.

Clerk is also applied to such as by their course of life, exercise their pens in any court or office, of which there are various kinds: thus,

Clerk of the acts, an officer in the navy-office appointed for recording all orders, contracts, bills, warrants, &c. transacted by the lords of the admiralty and commissioners of the navy.

Clerk of the affidavits, the officer, in the court of chancery, who files all affidavits made use of in court.

Clerk of the affife, the perfon who writes all things judicially done by the justices of affife, in their circuits.

Clerk of the baits, an officer in the court of king's bench, whose business it is to file all bail-pieces taken in that court, where he always attends.

Clerk of the check, an officer belonging to the king's court, so called because he has the check and controulment of the yeomen of the guard, and all other ordinary yeomen that belong to the king, queen, or prince. He likewise, by himself or deputy, sets the watch in the court. There is also an officer in the navy of the same name, belonging to the king's yards.

Clerk of the crown, an officer, in the king's bench, who frames, reads, and records all indictments against offenders, there arraigned or indicted of any public crime. He is likewise termed clerk of the crown-office, in which capacity he exhibits bits informations by order of the court, for divers offences.

Clerk of the crown, in chancery, an officer whose business it is constantly to attend the lord-chancellor, in person or by deputy, to write and prepare for the great seal, special matters of state by commission, both ordinary and extraordinary, viz. commissions of lieutenancy, of justices of assize, oyer and terminer, gaol-delivery, and of the peace; all general pardons, granted either at the king's coronation, or in parliament: the writs of parliament, with the names of the knights, citizens, and burgesses, are also returned into his office. He also makes out special pardons, and writs of execution on bonds of statute-stapel forfeited.

Clerk of the declarations, he that files all declarations after they are engrossed, in causes depending in the court of king's bench.

Clerk of the deliveries, an officer of the Tower, whose function is to take indentures for all stores and ammunition issued from thence.

Clerk of the errors, in the court of common pleas, an officer who transcribes and certifies into the king's bench, the tenor of the record of the action on which the writ of error, made out by the curitor, is brought there to be determined. In the king's bench, the clerk of the errors transcribes and certifies the records of causes, by bill, in that court, into the exchequer. And the business of the clerk of the errors in the exchequer, is to transcribe the records certified thereto out of the king's bench, and to prepare them for judgment in the exchequer-chamber.

Clerk of the essoins, in the court of common pleas, keeps the essoin-roll, or enters essoins: he also provides parchment, cuts it into rolls, marks the number on them, delivers out all the rolls to every officer, and receives them again when written. See the article Essoin.

Clerk of the essoits, an officer in the exchequer, who every term receives the essoits out of the lord-treasurer's remembrancer's office, and writes them out, to be levied for the crown.

Clerk of the green-cloth. See the article Green-cloth.

Clerk of the hamper, or hanaper, an officer in chancery, whose business is to receive all money due to the king for the fees of charters, letters patent, commissions, and writs; also the fees due to the officers for entrolling and examining them.
Clerk of the enrolments, an officer of the court of common pleas, that inrolls and exemplifies all fines and recoveries, and returns writs of entry.

Clerk of the juries, an officer of the common pleas, who makes out the writs called habeas corpus and drittings, for juries to appear either in that court, or at the assizes, after the pannels are returned upon the venire facias. He likewise enters into the rolls the awarding these writs, and makes all the continuances till verdict is given.

Clerk comptroller of the king's household, an officer of the king's court, authorised to allow or disallow the charges of pursuivants, messengers of the green-cloth, &c. to inspect and control all defects of any of the inferior officers; and to fit in the counting-houfe with the lord-warden and other officers of the household, for regulating such matters.

Clerk of the king's silver, an officer of the common pleas, to whom every fine is brought, after it has passed the office of the custos brevium; and who enters the effect of writs of covenant, into a book kept for that purpose, according to which all the fines of that term are recorded in the rolls of the court.

Clerk of the king's great wardrobe, an officer who keeps an account of all things belonging to the wardrobe.

Clerk of the market, an officer of the king's house, to whom is given the charge of the king's measures and weights, the standards of those that ought to be used all over England.

Clerk of the nichols, or nihil, an officer of the exchequer, who makes a roll of all such sums as are nihilled by the sheriffs upon their etreats of green wax, and delivers them in to the remembrancer of the treasury, to have execution done upon them for the king. See the article Nihil.

Clerk of the ordnance, an officer that registers all orders concerning the king's ordnance in the tower.

Clerk of the outlawries, an officer of the common pleas, and deputy to the attorney general, for making out all writs of capias uti galatum, after outlawry, to which there must be the king's attorney's name.

Clerk of the paper-office, an officer belonging to the king's bench, whose business is to make up the paper-books of special pleadings in that court.

Clerk of the parliament-rolls, an officer in the house of lords, and likewise in the house of commons, who records all transactions in parliament, and engrosses them fairly in parchment-rolls.

Clerk of the patents. See Patent.

Clerk of the peace, an officer belonging to the sessions of the peace, whose business is to read indictments, inroll the proceedings, and draw the proces; he likewise certifies into the king's bench, transcripts of indictments, outlawries, attainders and convictions had before the justices of the peace, within the time limited by statute, under a certain penalty. This office is in the gift of the custos rotulorum, and may be executed by deputy.

Clerk of the pells, an officer that belongs to the exchequer, whose business is to enter every teller's bill into a parchment roll called pellis receptorum, and to make another roll of payments, called pellis exituum.

Clerk of the petty hag, an officer of the court of chancery, whereof there are three, the master of the rolls being the chief: their business is to record the return of all inquisitions out of every shire, to make out patents of customers, gaugers, comptrollers, &c. liberates upon extents of statutes-rape. 'conge d' elires for bishops, summons of the nobility, clergy, and burgesses to parliament, and commissions directed to knights, and others, of every shire, for assessing subsidies and taxes.

Clerk of the pipe, an officer of the exchequer, who having the accounts of all debts due to the king, delivered out of the remembrancer's office, charges them in a great roll, folded up like a pipe. He writes out warrants to sheriffs, to levy the said debts on the goods and chattels of the debtors; and if they have no goods, then he draws them down to the treasurer's remembrancer, to write effreets against their lands.

Clerk of the pleas, an officer of the exchequer, in whose office all the officers of the court, having special privilege, ought to sue, or be sued, in any action. In this office all actions at law may be prosecuted by other persons, but the plaintiff ought to be tenant or debtor to the king, or some way accountable to him. The under-clerks are attorneys in all suits.

Clerks of the privy-seal, four officers that attend the lord-privy-seal, for writing and making out all things that are sent by
by warrant from the signet to the privy-seal, and to be passed the great-seal; and likewise to make out privy-seals, upon special occasions of his majesty’s affairs, as for loan of money, or the like.

**Clerk of the rolls**, an officer of the chancery, whose business is to make searches after, and copies of deeds, offices, 

**Clerk of the rules**, an officer of the court of king’s bench, who draws up and enters all the rules and orders made in court, and gives rules of course in divers writs.

**Clerk of the fewers**, an officer who writes and records the proceedings of the commissioners of the fewers.

**Clerk of the signet**, an officer continually attending upon his majesty’s principal secretary, who has the custody of the privy-signet, as well for sealing the king’s private letters, as those grants which pass the king’s hand by bill signed. There are four of these officers, who have their diet at the secretary’s table.

Six clerks, officers in chancery, next in degree below the twelve masters, whose business is to inrol commissions, pardons, patents, warrants, &c. which pass the great seal: they were antiently clerici, and forfeited their places if they married. They are also attorneys for parties in suits depending in the court of chancery.

**Clerk of the superfedeas**, an officer of the common pleas, who makes out writs of superfedeas, forbidding the sheriff to return the exent upon a defendant’s appearing thereto on an outlawry.

**Clerk of the treasury**, an officer belonging to the court of common pleas, who has the charge of keeping the records of the court, makes out all records of nift prius, and likewise all exemplifications of records being in the treasury. He has the fees due for all searches; and has under him an under-keeper, who always keeps one key of the treasury-door.

**Clerk of the warrants**, an officer of the common pleas, whose business is to enter all warrants of attorney for plaintiffs and defendants in suit; and to inrol deeds of bargain and sale, that are acknowledged in court, or before a judge. His office is likewise to etreat into the exchequer all fines, fines, estreets, and amercements, which grow due to the crown in that court.

**Mispriison of Clerks.** See the article Mispriison.

**Riding Clerk.** See Riding.

**CLERMONT**, a city and bishop’s see of France, in the territory of Auvergne, and province of Lyonois, about seventy-five miles west of Lyons; east longitude 5° 20', and north latitude 45° 42'.

**Clerodendrum**, in botany, a genus of the Didynamia-Angioporum class of plants, the flower of which consists of only one petal, with a slender and long tube; its upper lip is concave, erect, obtuse, and divided into two segments; and the under lip, being of the length of the upper, is divided into three reflex and obtuse segments; the fruit is a roundish drupe; and the seed is roundish and single.

**Cleromancy**, σαρακευμαία, a sort of divination performed by throwing lots, which were generally black and white beans, little clods of earth, or pebbles; also dice, or such-like things, distinguished by certain characters. They cast the lots into a vessel, and having made supplication to the gods to direct them, drew them out, and, according to the characters, conjectured what should happen to them.

**Clerus, a Clerk.** See Clerk.

**Clethra**, in botany, a genus of the Decandria-Monogynia class of plants, the flower of which consists of five roundish, oblong, reflex-patent petals, twice the length of the cup, and broadest towards their extremities; the fruit is a roundish capsule inclosed in a cup, and formed of three valves, containing three cells: the seeds are numerous and angular.

**Cleves, or Clef**, the capital of the duchy of Cleve, in the circle of Westphalia, in Germany, situated near the western shore of the river Rhine; east longitude, 5° 56', and north lat. 51° 40'. It is subject to the king of Prussia.

**Cleveland**, a district in the north-riding of Yorkshire, from which the noble family of Fitzroy takes the title of duke.

**Clew of fail**, in naval affairs, is the lower corner of it, to which are made fast the sheets and tacks: a square fill hath no clew. A fail with a great clew, is one with a great going or sloping down. To spread a clew, is said of a ship that has a very long yard, and therefore has much canvas in her sail.

**Clew-arnet**, a rope made fast to the clew of the sail, and running from thence to the block fixed to the middle of the main and fore-
fore-yard, which, in furling, bales up the clew of the sail close to the middle of the yard.

CLEW-LINE, the fame to the top-fails, top-gallant-fails, and sprit-fails, that the clew-garnet is to the main-fail and fore-fail, and has the fame use.

In a gulf of wind, when the top-fail is to be taken in, it is usual first to haul home the lee clew of the sail, whereby it becomes easier to take in the fail.

CLIENT, cliens, among the Romans, a citizen who put himself under the protection of some great man, who, in respect of that relation, was called patron. This patron affixed his client with his protection, interest, and goods; and the client gave his vote for his patron, when he sought any office for himself or his friends. Clients owed respect to their patrons, as these owed them their protection.

The right of patronage was appointed by Romulus, to unite the rich and poor together in such a manner, as that one might live without contempt, and the other without envy; but the condition of a client, in course of time, became little else but a moderate slavery.

CLIENT is now used for a party in a lawsuit, who has turned over his cause unto the hands of a counsellor or solicitor.

CLIFF, or CLEF, in music. See CLEF.

CLIFFORTIA, in botany, a genus of the dicotyledonous class of plants: it has no corolla; the calyx of the female flower is composed of three leaves, and is situated upon the germen; the stigmas are two, filiform, long, and plumose; the fruit is an oblong roundish capsule, containing two cells, in each of which there is a single seed, of a round or cylindrical shape.

CLIMACTERIC, annus climactericus, among physicians and natural historians, a critical year in a person's life, in which he is supposed to stand in great danger of death.

According to some, every seventh year is a climacteric; but others allow only those years produced by multiplying 7, by the odd number 3, 5, 7, and 9, to be climacterical. These years, they say, bring with them some remarkable change with respect to health, life, or fortune; the grand climacteric is the fifty-third year; but some, making two, to this the eighty-first; the other remarkable climacterics are the seventh, twenty-first, thirty-

fifth, forty-ninth, and fifty-sixth. The credit of climacteric years can only be supported by the doctrine of numbers introduced by Pythagoras; though many eminent men, both among the antiquits and moderns, appear to have had great faith in it.

CLIMATE, in geography, a space upon the surface of the terrestrial globe, contained between two parallels, and so far distant from each other, that the longest day in one differs half an hour from the longest day in the other parallel.

The difference of climates arises from the different inclination or obliquity of the sphere: the antients took the parallel wherein the length of the longest day is twelve hours and three quarters for the beginning of the first climate: as to those parts that are nearer to the equator than that parallel, they were not accounted to be in any climate, either because they may, in a loose and general sense, be considered as being in a right sphere, though, strictly speaking, only the parts under the equator are so; or because they were thought to be uninhabited by reason of the heat, and were besides unknown. The antients, considering the diversity there is in the rising and setting of the heavenly bodies, especially the sun, and, in consequence thereof, the difference in the length of the days and nights in different places, divided as much of the earth as was known to them, into climates; and instead of the method now in use, of setting down the latitude of places in degrees, they contented themselves with laying in what climate the place under consideration was situated. According to them, therefore, what they judged the habitable part of the northern hemisphere was divided into seven climates, to which the like number of southern ones corresponded.

A parallel is said to pass through the middle of a climate, when the longest day in that parallel differs a quarter of an hour from the longest day in either of the extreme parallels that bound the climate: this parallel does not divide the climate into two equal parts, but the part nearest to the equator is larger than the other, because the farther we go from the equator, the less increase of latitude will be sufficient to increase the length of the longest day a quarter of an hour.
A table of Climates according to Ricciolus, wherein the effects of refraction are allowed for.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2° 59'</td>
<td>12° 15'</td>
<td>15</td>
<td>48° 45'</td>
<td>18° 45'</td>
<td>29</td>
<td>66° 5'</td>
<td>25° 12'</td>
<td>15</td>
<td>12° 12'</td>
</tr>
<tr>
<td>12 m</td>
<td>7</td>
<td>18° 12'</td>
<td>VIII</td>
<td>16 m</td>
<td>49° 16'</td>
<td>XV</td>
<td>30 m</td>
<td>66° 32'</td>
<td>31</td>
<td>27° 28'</td>
</tr>
<tr>
<td>3</td>
<td>11</td>
<td>22° 12'</td>
<td>17</td>
<td>51°</td>
<td>14° 16'</td>
<td>31</td>
<td>67° 45'</td>
<td>45° 41'</td>
<td>44° 43'</td>
<td></td>
</tr>
<tr>
<td>14 m</td>
<td>15</td>
<td>36° 13'</td>
<td>IX</td>
<td>18 m</td>
<td>53° 17'</td>
<td>XVII</td>
<td>32 m</td>
<td>69° 50'</td>
<td>62° 58'</td>
<td>60° 59'</td>
</tr>
<tr>
<td>5</td>
<td>19</td>
<td>33° 13°</td>
<td>19</td>
<td>55° 17°</td>
<td>30°</td>
<td>33</td>
<td>71°</td>
<td>77° 71°</td>
<td>74° 73'</td>
<td></td>
</tr>
<tr>
<td>6 m</td>
<td>23</td>
<td>81° 13°</td>
<td>X</td>
<td>20 m</td>
<td>57° 18°</td>
<td>XVIII</td>
<td>34 m</td>
<td>73°</td>
<td>93° 87°</td>
<td>89° 88'</td>
</tr>
<tr>
<td>7</td>
<td>26</td>
<td>50° 13°</td>
<td>XI</td>
<td>21 m</td>
<td>59° 19°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 m</td>
<td>29</td>
<td>49° 14°</td>
<td>XII</td>
<td>22 m</td>
<td>60° 19°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>32</td>
<td>48° 14°</td>
<td>XIV</td>
<td>23 m</td>
<td>61° 19°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 m</td>
<td>35</td>
<td>34° 14°</td>
<td></td>
<td>24 m</td>
<td>62° 19°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>38</td>
<td>9° 14°</td>
<td></td>
<td>25 m</td>
<td>64° 12'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 m</td>
<td>40</td>
<td>32° 15°</td>
<td></td>
<td>26 m</td>
<td>65° 10'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>42</td>
<td>41° 15°</td>
<td></td>
<td>27</td>
<td>65° 43'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 m</td>
<td>44</td>
<td>43° 15°</td>
<td></td>
<td>28</td>
<td>65° 43'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30°</td>
<td>54° 43'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Some of the moderns reckon the different climates by the increase of half an hour in the length of the longest day, beginning at the equator, and going on till they came to the polar circle towards the pole; they then count the climates by the increase of a whole natural day, in the length of the longest day, till they come to a parallel, under which the day is of the length of fifteen natural days, or half a month; from this parallel they proceed to reckon the climates by the increase of half or whole months, in the artificial day, till they come to the pole itself, under which the length of the day is six months. Those between the equator and the polar circles, are called hour climates; and those between the polar circles and the poles, month climates. Vulgarly the term climate is bestowed on any country or region differing from one another, either in respect of the seasons, the quality of the soil, or even the manners of the inhabitants, without any regard to the length of the longest day.

CLIMAX, or GRADATION, in rhetoric, a figure wherein the word or expression which ends the first member of a period begins the second, and so on; so that every member will make a distinct sentence, taking its rise from the next foregoing, till the argument and period be beautifully finished: or in the terms of the schools, tis when the word or expression, which was predicate in the first member of a period, is subject to a second, and so on, till the argument and period be brought to a noble conclusion; as in the following gradation of Dr. Tillottion. "After we have practised good actions a while, they become easy; and when they are easy, we begin to take pleasure in them; and when they please us, we do them frequently; and by frequency of acts, a thing grows into a habit; and confirmed habit is a second kind of nature; and so far as any thing is natural, so far is it necessary, and we can hardly do otherwise; nay, we do it many times, when we do not think of it."

CLIMIA, or KLIMIA. See KLIMIA.

CLINCH, in the sea-language, that part of a cable which is bent about the ring of the anchor, and then seized, or made fast.

CLINCH-BOLTS. See the article BOLT.

CLINCHING, in the sea-language, a kind of flight caulking used at sea, in a prospect of foul weather, about the pofts: it confits in driving a little oakum into their seams, to prevent the water's coming in at them.

CLINIC, a term applied by the antient church-historians, to those who received baptism on their death bed. It was the doctrine of many of the fathers, that baptism washed away all previous sins, and that there was no attonement for sins committed after baptism. On this account many deferred
that sacrament till they were arrived at the last stage of life, and were pretty safe from the danger of dying any more.

Clinic, in a modern sense, is seldom used but for a quack, or rather for an empirical nurse, who pretends to have learned the art of curing diseases by attending on the sick.

Clinic medicine, medicina clinica, was particularly used for the method of visiting and treating sick persons in bed, for the more exact discovery of all the symptoms of their disease.

Clinoides, in anatomy, are four small processes in the inside of the os sphenoides, forming a cavity called sella turcica, in the middle of that bone in which lies the glandula pituitaria.

Clinopodium, in botany, a genus of the dudyania-gymnoperonia class of plants, whose corolla consists of one ring of petals; it has no pericarpium; the carp is contracted at the neck, gibbous at the belly, and contains four roundish seeds.

Clipeus, in natural history, a name given to the flat depressed centronia, from their resembling a shield. See Centronia.

Clitoria, in botany, a genus of the drielphilia-decandria class of plants: the flower is papilionaceous: the vexillum is very large, patent, and plicate; the ale is oblong and obtuse, and shorter than the vexillum: the carina is shorter than the ale, and is roundish and hooked: the fruit is a very long pod, compressed, having one cell and two valves: the seeds are numerous, and kidney-shaped.

Clitoris, or as some call it, mentula vulvae, in anatomy, a part of the external female pudenda, situated at the angle which the nymphse form with each other.

Its common state is to be almost entirely buried under the skin or prepuce. Its general size is that of the uvula, or scarce so much: its shape much resembles the shape of that part, yet it sometimes is found of an extraordinary bigness, as large as the penis; but even in this case, it has no urethra. It has a glans or apex as the penis has, but this is not perforated. It is usually covered with a fleshy matter, like that of the glans of the penis. The prepuce covering the glans of the clitoris, is formed of the cutis of the pudendum, and furnished with nervous papilles: hence it is of exquisite sensibility to the touch. It has also a ligament, by which it is connected to the os pubis, in the same manner as the penis is in men. Its use is to produce a titillation in the coitus, and to increase the pleasure.

Cloaca, in roman antiquity, the common sewer, by which the filth of the city of Rome was carried away. It was built with great stones, in the form of an arch, so well fastened and cemented together, that the continual running of water and filth had not damaged it in the space of 700 years. There were many sinks in the city, which all fell into this common sewer; and the officers appointed to take care of this work, and to see it repaired, were called curatores cloacarum orbis.

Cloaca, in comparative anatomy, imports the canal in birds, through which the egg descends from the ovary in its exit.

Cloathed, in the tea-language. A maft is said to be cloathed, when the sail is so long as to reach down to the gratings of the hatches, so that no wind can blow below the sail.

Clock, a kind of movement, or machine, serving to measure time.

The invention of clocks is attributed to Pacificus, archdeacon of Verona, who lived in the time of Lotharius: others ascribe it to Boetius, about the year 510: be that as it will, it is certain that the art of making clocks, such as are now in use, was either first invented, or at least retrieved in Germany, about 220 years ago; and the invention of pendulum clocks, so late as the last age, is disputed between Huygens and Galileo.

Principles of clock and watch work. In all automatns, or machines of clock-work, there is a natural agent, or principle of motion, which, by acting on one part, gives motion to that and all the other parts depending upon it, and consequently becomes the primum mobile, or first mover, to the whole machine.

In common clocks and watches, this is of two sorts, viz. a spring or a weight; either of which may be made to act with any determinate force: the spring, by its elasticity; and the weight, by its gravity. In these machines this force is required to be such as will overcome the res inertiæ, and friction, of all the parts in motion, which in watches is very incon siderable, but in clocks is much greater, and that in proportion as they are more compounded.
The manner that a weight acts upon the cylinder, about which the line or cord (to which it hangs) is wound, is easy to be understood by all: but the action of the spring coiled up within the cylindric barrel, or box of a clock or watch, is somewhat more nice and mysterious; and the manner how it acts upon the fusee always with an equal force, by means of the chain and the proper figure of the fusee, for that purpose, is next to be explained.

The chain being fixed at one end of the fusee, and at the other to the barrel; when the machine is winding up, the fusee is turned round, and of course the barrel; on the inside of which is fixed one end of the spring, the other end being fixed to an immovable axis in the center. As the barrel moves round, it coils the spring several times about the axis, thereby increafing its elastic force to a proper degree; all this while the chain is drawn off from the barrel upon the fusee, and then when the instrument is wound up, the spring, by its elastic force endeavoring constantly to unbend itself, acts upon the barrel, by carrying it round, by which the chain is drawn off from the fusee; and thus turns the fusee, and consequently the whole machinery.

Now, as the spring unbends itself by degrees, its elastic force, by which it affects the fusee, will gradually decrease; and therefore, unless there were some mechanical contrivance in the figure of the superficies of the fusee, to cause that as the spring grows weak, the chain shall be removed farther from the center of the fusee, so that what is lost in the spring's elasticity, is gained in the length of the lever; were it not for this contrivance, the spring's force would always be unequal upon the fusee, and thus would turn the fusee, and consequently the whole machinery unequally. All which is remedied by the conical figure of the fusee. The fusee being acted upon, or put in motion, by an uniform force, the great wheel, which is fixed to it, is put into motion, and that drives the pinion of the center-wheel, which center-wheel drives the pinion of the third wheel, and this drives the pinion of the contrate wheel, and this the pinion of the balance-wheel, which plies the two pallets on the axis of the balance, and keeps the balance in motion.

The balance in a watch is instead of the pendulum in a clock, both serving to govern the motion of the whole machinery. To this balance is fixed a small steel spiral spring, which regulates the motions thereof, and makes it equable: whence it has its name of regulator.

When the watch is wound up, the chain from the spring exerts a force upon the fusee, which gives motion to all the parts of the machine, in the following manner; as will be easy to understand, when the number of teeth in each wheel, and leaves in the pinions which they drive, are specified, and these in modern thirty-hour watches are as follows.

Teeth. Leaves.

Great wheel 48 12
Center-wheel 54 6
Third wheel 48 6
Contrate-wheel 48 6
Ballance-wheel 15 2 pallets.

Hence it is easy to conceive how often any one wheel moves round in the time of one revolution of that which drives it.

Thus the great wheel on the fusee, having forty-eight teeth, and driving the center-wheel by a pinion of twelve, must cause the center-wheel to move round four times in one turn of the fusee, and so for all the rest, as follows.

Thus, 6)48(8 = turns of the first wheel.

Thus, 6)54(9 = turns of the third wheel.

Thus, 6)48(8 = turns of the balance-wheel.

Whence it follows, that the turns of each of the wheels respectively, in one turn of the fusee, will be had by multiplying those several quotients together successively, as follows.

\[
\begin{align*}
4 \times 9 \times 4 \times 1 & = 288 \\
8 \times 8 \times 9 \times 4 \times 1 & = 2304
\end{align*}
\]

See the article BEATS of a watch.

But all that has been hitherto said, shews only the minutes of an hour, and seconds or quarter seconds of a minute, for nothing has been yet mentioned relating to the mechanism for shewing the hour of the day. This part of the work lies concealed from sight, between the upper plate of the watch-frame and the dial-plate. In this work, A B C (plate XLIII. No. 1) is the uppermost side of the frame-plate, as it appears when detached from the dial-plate: the middle of this plate is perforated with a hole, receiving
ceiving that end of the arbor of the center-wheel, which carries the minute-hand; near the plate is fixed a pinion \( ab \) of ten teeth: this is called the pinion of report; it drives a wheel \( cd \) of forty teeth; this wheel \( cd \) carries a pinion \( ef \) of twelve teeth; and this drives a wheel \( gb \) with thirty-six teeth.

As in the body of the watch the wheels everywhere divide the pinions, here, on the contrary, the pinions divide the wheels, it turns the wheel \( cd \); there, the wheel \( gb \) moves twelve times round. To this end the motion of the wheel \( cd \) is \( \frac{1}{4} \) of the pinion \( ab \); again, while the wheel \( cd \), or the pinion \( ef \), goes once round, it turns the wheel \( gb \) but \( \frac{1}{3} \) part round; consequently the motion of \( gb \) is but \( \frac{1}{4} \) of \( \frac{1}{4} \) of the motion of \( ab \); but \( \frac{1}{4} \) of \( \frac{1}{3} = \frac{1}{12} \), that is, the hour-wheel \( gb \) moves once round in the time that the pinion of report, on the arbor of the center or minute-wheel, makes twelve revolutions, as required.

Having thus shewn the nature and mechanism of a watch, the structure of that part of a clock which is concerned in shewing the time, will easily be understood.

The mechanism of a clock consists of two parts, one to shew the time, the other to report it, by striking the hour upon a bell. Each part is actuated or moved by weights, as in common clocks; or by springs included in boxes or barrels, as that represented by A. (ibid. No. 2.) This cylinder moves the füée \( B \), and the great wheel \( C \) (to which it is fixed) by the line or cord that goes round each, and answers to the chain of the watch.

The method of calculating is here much the same as before: for, suppose the great wheel \( C \) goes round once in twelve hours, then if it be a royal pendulum-clock, swinging seconds, we have \( 60 \times 60 \times 12 = 43200 \) seconds or beats, in one turn of the great wheel. But because there are 60 swongs or seconds in one minute, and the seconds are shewn by an index on the end of the arbor of the swinging wheel, which in those clocks is in an horizontal position; therefore, it is necessary that the swinging wheel should have thirty teeth, whence \( 60 \times 32000(=720) \) the number to be broken into quotients for finding the number of teeth for the other wheels and pinions, as before.

In spring clocks, the disposition of the wheels in the watch-part is such as is here represented in the figure, where the swing-wheel \( F \) is in an horizontal position, the seconds not being shewn there by an index, as is done in the large pendulum clocks. Whence in these clocks, the wheels are disposed in a different manner, as represented in No. 2. ibid. where \( C \) is the great wheel, \( D \) the center or minute-wheel, both as before; but the contrary wheel \( E \) is placed on one side, and \( F \) the swing wheel is placed with its center in the same perpendicular line \( GH \), with the minute wheel, and with its plane perpendicular to the horizon, as are all the others. Thus the minute and hour-hands turn on the end of the arbor of the minute-wheel at \( a \), and the second hand on the arbor of the swinging-wheel at \( b \).

With regard to the machinery of the striking part of a clock, it is to be observed that, as in the watch part, the primary mobile is a large spring, in the spring-barrel \( G \), (ibid. No. 2.) but in long pendulums, it is a weight. Thus, by its cord and füée, it moves the great wheel \( H \); that gives motion to the pin-wheel \( I \); that continues it to the detent or hoop-wheel \( K \), and that to the warning-wheel \( L \), which at last is spent on the flying pinion \( Q \); this carries the fly or fan; and by its great velocity it meets with much resistance from the air it strikes, and by this means bridles the rapidity of the clock’s motion, and renders it equable.

All these wheels are quiescent, unless when at the beginning of each hour, the detent \( O \) is lifted up, by which means the work is unlocked, and the whole put into motion, by means of the spring in the box \( G \). During this motion the pins \( e, e, e, e \) of the pin-wheel \( I \), take the tail of the hammer \( T \), and carrying it upwards, removes the head of the hammer \( S \) from the bell \( R \); then being let go by the pin, it is made by a strong spring to give a forcible stroke upon the bell, and this is reported as often as the hour requires, by means of a contrivance in another part. This consists of moveable wheels and several leaves and other parts which cannot be understood by a bare description, or even a representation in a draught, so well as any person may have an idea of by taking off the face or dial-plate of a late-made eight-day clock; for
for within ten or twelve years past, great improvements have been made in this part of the mechanism.

To the invention of Mr. Maurice Wheeler, we owe the curious contrivance of a clock depending on an inclined plane, the theory of which is very curious, and may be seen in N°. 161 of the Philosophical Transactions; also the clock itself may be seen in don Saltero’s coffee-house at Chelsea. How a clock may be made to ascend on an inclined plane, has been the contrivance of M. de Gennes. See Philos. Trans. N°. 140.

CLOFF, that wherein any goods are put for the convenience of carriage; as the bags of pepper or hops, the barrels of butter, soap, &c.

CLOGHER, a city and bishop’s see of Ireland, in the county of Tyrone, and province of Ulster, situated twenty miles west of Armagh: west long. 7° 30’, north lat. 46° 16’.

CLOGS, a kind of wooden pattens without rings. See the article PATTEN.

The term cloggs is also used for pieces of wood fastened about the necks or legs of beasts, to prevent their running away.

CLOISTER, cloyster, an habitation surrounded with walls, and inhabited by religious.

In a moral sense it is used for a monastery of religious of either sex.

In the first sense, it is the principal part of a regular monastery, being a square surrounded with walls or buildings. It is commonly placed between the church, the chapter-house, and refectory, underneath the dormitory.

The cloisters, in antient monasteries, served for several purposes: it was here the monks held their lectures; the lecturés of morality at the north side, next the church; the school on the west; and the chapter on the east: spiritual meditations, &c. being reserved for the church.

CLOSE, in heraldry. When any bird is drawn in a coat of arms with its wings close down about it, (i.e. not displayed) and in a standing posture, it blazoneth it by this word close; but if it be flying, they call it volant. See VOLANT.

CLOSE behind, in the manage, a horse whose hoofs come too close together: such horses are commonly good ones.

To close a paffade judilis, is when the horse ends the passade with a demivolt good order, well narrowed and rounded, and terminating upon the same line upon which he parted, so that he is still in a condition to part from the hand handsomely, at the very last time or motion of his demivolt.

CLOSE, in music. See CADENCE.

CLOSE-FIELD. See the article FIELD.

CLOSE-FIGHTS, in the sea-language, such bulk-heads as are in a close fight put up fore and aft in a ship, for the men to stand behind them secure, and fire upon the enemy; and if the ship is boarded, to secure and clear the decks.

CLOSE-FIRE. See the articles Fire and Reverberation.

Pound Close. See the article Pound.

CLOSE-QUARTERS. See QUARTERS.

CLOSET, in building, denotes a very small room, generally without any chimney: it is esteemed one great improvement of our modern architects.

CLOSET, in heraldry, denotes the half of a bar. See the article BAR.

Clerk of the Closet, a chaplain who affists the king in his private devotions.

CLOSH, an unlawful game forbidden by Edward IV. and Henry VIII. It is said to have been much the same with our ninepins.

CLOSH, among farriers, the same with founder. See the article FOUNDER.

CLOT-BIRD, the same with the oenanth of ornithologists. See OENANTHE.

CLOTH, in commerce, a manufacture made of wool wove on the loom.

The term is applicable also to other manufactures made of hemp, flax, &c. but in a more particular sense it implies the web or tulle of woolen threads interwoven, some whereof, called the warp, are extended in length from one end of the piece to the other; the rest, called the woof, disposed across the first, or breadth-wise of the piece.

Cloths are of divers qualities, fine or coarse.

The goodness of cloth, according to some, consists in the following particulars. 1. That the wool be of a good quality, and well dressed. 2. It must be equally spun, carefully observing that the thread of the warp be finer and better twisted than that of the woof. 3. The cloth must be well wrought and beaten on the loom, so as to be every, where equally compact. 4. The wool must not be finer at one end of the piece than in the rest. 5. The lifts must be sufficiently strong, of the same length with the stuff, and must consist of good wool, hair, or ostrich-feathers; or, what is still better, of danish dog’s hair. 6. The cloth must be free from knots, and other imperfections.
7. It must be well scoured with fuller’s earth, well fulled with the best white soap, and afterwards washed in clear water. 8. The hair or nap must be well drawn out with the teasel, without being too much opened. 9. It must be raked close without making it threadbare. 10. It must be well dried. 11. It must not be tenter-stretched, to force it to its just dimensions. 12. It must be pressed cold, not hot pressed, the latter being very injurious to woolen cloth.

Manufacturing of white cloths which are intended for dyeing.

The best wool for the manufacturing of cloths are those of England and Spain, especially those of Lincolnshire and Segovia. To use those wools to the best advantage, they must be scoured, by putting them into a liquor somewhat more than lukewarm, composed of three parts fair water, and one of urine. After the wool has continued long enough in the liquor to soak, and dissolve the grease, it is drained and well washed in running water. When it feels dry, and has no smell but the natural one of sheep, it is said to be duly scoured.

After this it is hung to dry in the shade, the heat of the sun making it harsh and inflexible: when dry, it is beat with rods upon hurdles of wood, or on cords, to cleanse it from dust and the grosser filth; the more it is thus beat and cleansed, the softer it becomes, and the better for spinning. After beating, it must be well picked, to free it from the rest of the filth that had escaped the rods.

It is now in a proper condition to be oiled, and carded on large iron cards, placed slopewife. Olive oil is esteemed the best for this purpose: one fifth of which should be used for the wool intended for the woof, and a ninth for that designed for the warp. After the wool has been well oiled, it is given to the spinners, who first card it on the knee with small fine cards, and then spin it on the wheel, observing to make the thread of the warp smaller by one third than that of the woof, and much compacted twisted.

The thread thus spun, reeled, and made into skeins, that designed for the woof is wound on little tubes, pieces of paper, or rushes, so disposed, as that they may be easily put in the eye of the shuttle. That for the warp is wound on a kind of large wooden bobbins, to dispose it for warping. When warped, it is stiffened with size, the best of which is that made of shreds of parchment, and when dry, is given to the weavers, who mount it on the loom.

The warp thus mounted, the weavers, who are two to each loom, one on each side, tread alternately on the treddle, first on the right step, and then on the left, which raises and lowers the threads of the warp equally; between which they throw transversely the shuttle from the one to the other: and every time that the shuttle is thus thrown, and a thread of the woof is inserted within the warp, they strike it conjunctly with the same frame, wherein is fastened the comb or reed, between whose teeth the threads of the warp are paffed, repeating the stroke as often as is necessary.

The weavers having continued their work till the whole warp is filled with the woof, the cloth is finifhed; it is then taken off the loom by unrolling it from the beam wherein it had been rolled in proportion as it was wove; and now given to be cleaned of the knots, ends of threads, straws, and other filth, which is done with iron-nippers.

In this condition it is carried to the fuller, to be scoured with urine, or a kind of potter’s clay, well steeped in water, put along with the cloth in the trough wherein it is fullled. The cloth being again cleared from the earth or urine, is returned to the former hands to have the lesser filth, small straws, &c. taken off as before: then it is returned to the fuller to be beat and fulled with hot water, wherein a suitable quantity of soap has been dissolved; after fulling, it is taken out to be smoothed, or pulled by the lifts lengthwise, to take out the wrinkles, crevices, &c.

The smoothing is repeated every two hours, till the fulling be finished, and the cloth brought to its proper breadth: after which it is washed in clear water, to purge it of the soap, and given wet to the carders to raise the hair or nap on the right side with the thistle or weed.

After this preparation, the cloth-worker takes the cloth, and gives it its first cut or sheering: then the carders refume it, and after wetting, give it as many more courses with the teasel, as the quality of the fluff requires, always observing to begin against the grain of the hair, and to end with it; as also to begin with a smoother
smoother thistle, proceeding still with one sharper and sharper, as far as the fifth degree.

After these operations, the cloth being dried, is returned to the cloth-worker, who sheers it a second time, and returns it to the carders, who repeat their operation as before, till the nap be well ranged on the surface of the cloth, from one end of the piece to the other.

The cloth thus wove, scour'd, napped and thorn, is sent to the dyer; when dyed, 'tis washed in fair water, and the worker takes it again wet as it is, lays the nap with a brush on the table, and hangs it on the tenters, where it is stretched both in length and breadth sufficiently to smooth it, set it square, and bring it to its proper dimensions, without staining it too much; observing to brush it after, the way of the nap, while a little moll, on the tenters.

When quite dry, the cloth is taken off the tenters and brushed again on the table, to finish the laying of the nap; after which it is folded, and laid cold under a press, to make it perfectly smooth and even, and give it a gloss.

Lastly, the cloth being taken out of the press, and the papers, &c. for glossing it removed, it is in a condition for sale or use.

With regard to the manufacture of mixt cloths, or those wherein the wools are first dyed, and then mixt, spun and wove of the colours intended, the process, except what relates to the colour, is totally different from that of the calyophyllus of botanists.

CLOUDBERRY, in botany, the English name of the chamæmoros of botanists.

CLOVE-TREE, in botany, the English name of the caraphyllus aromaticus. See the article CARYOPHYLLUS.

CLOVER, or DRAUGHT, among traders, an allowance of two pounds to every three hundred weight, for the turn of the scale, that the commodity may hold out when sold by retail.

CLOUTS, in military affairs, are thin plates of iron nailed on that part of the touch-hole of which is prickt with the linst-pin goes.

CLOYED, or ACLOYED, among farriers, a term used when a horse is prick'd with a nail in shoeing.

CLOYNE, a city and bishop's see of Ireland, in the county of Cork, and province of Munster, about fifteen miles east of Cork: weit long, 8°, north lat. 51° 40'.

CLUPEA, in ichthyology, a genus of malacopterygious fishes, the characters of which...
which are these: the branchiofuge membrane contains eight small bones; and the abdomen is acute and serrated. 

To this genus belong the herring, shad, anchovy, and sprat. See HERING, SHAD, &c.

CLUSIA, in botany, a genus of the polyandra-monogynia class of plants, the flower of which consists of five large, roundish, patent, concave petals: the fruit is an ovated capsule, with six furrows, having six valves and six cells, containing numerous ovated seeds, covered with a pulp.

CLUTIA, in botany, a genus of the dioecia-gymnandria class of plants, the male flower of which consists of five patent, cordated petals: the female flower has persistent petals, as in the male: the fruit is a globose, scabrous capsule, with six furrows, and three cells, containing solitary, roundish, clear seeds.

CLYDE, a river of Scotland, which, arising in Annandale, runs north-west by Lanark, Hamilton, and Glasgow, and falls into the frith of Clyde, over-against the isle of Bute.

CLYMENUM, according to Tournefort, makes a distinct genus of plants, but is ranged by Linnaeus under the lathyrus. See the article LATHYRUS.

CLYPEOLA, in botany, a genus of the tetradyamnia-filiculosa class of plants, the flower of which consists of four petals of the form of a cross: the flower is an orbiculated, plano-compresed, erect pod, with two valves, containing orbiculated seeds at the center of the pericarpium.

CLYPEUS, or CLYPEUM, a shield or buckler. See the article SHIELD.

CLYSSUS, in chemistry, an extract prepared not from one but several bodies mixed together, and among the moderns, the term is applied to several extracts procured from the same body, and then mixed together. Thus, if from wormwood we draw the water, spirit, oil, salt, and tincture, and according to the rules of art reunite them into a mass compound ed of them all, and containing the joint virtues of all, we have a clysis of wormwood. To this class are reducible many of the noblest productions of chemistry, as the more curious isopas, and an infinite number of others.

CLYSUS OF ANTIMONY, is a liquor obtained by distillation from a mixture of antimony, nitre and sulphur. It is prescribed to feverish patients, in order to procure a grateful acidity to their potions, and to such as labour under a loss of appetite.

CLYSTER, is a liquid remedy to be injected chiefly at the anus into the larger intestines. It is usually administered by the bladder of a hog, sheep, or ox, perforated at each end, and having at one of the apertures an ivory pipe fastened with packthread. But the French, and sometimes the Dutch, use a pewter syringe, by which the liquor may be drawn in with more ease and expedition than in the bladder, and likewise more forcibly expelled into the large intestines. This remedy should never be administered either too hot or too cold, but tepid; for either of the former will be injurious to the bowels.

Clysters are prepared of different ingredients, according to the different intentions proposed, whether to soften the indurated parts, correct the acid, acid and saline recomenents; evacuate the contents of the large intestines, corroborate the languid fibres of the intestines, and augment their impaired peritall motion; to mitigate the pains of the intestinal coats, and relax their constricted fibres; to cause a revolution downwards in lethargic disorders, apoplexies, frenzies, and other disorders of the head; to promote labour, whether the foetus be living or dead; and to expel the seedcines where they are preternaturally detained.

Clysters are sometimes used to nourish and support a patient who can swallow little or no aliment, by reason of some impediment in the organs of deglutition. In which cases they may be made of broth, milk, ale, and decoctions of barley and oats with wine. The English introduced a new kind of clyster, made of the smoke of tobacco, which has been used by several other nations, and appears to be of considerable efficacy when other clysters prove ineffectual, and particularly in the iliac passion, and in the hernia incarcerata, tho' it may likewise be used in an obstrinate contipation or obstruction of the bowels, &c. See Heiliter's surgery, and Grafitius's and Sawzonius's dissertation upon the subject, published in the year 1691.

CNEMODACTYLEUS, in anatomy, a name by which some call one of the extensor muscles of the fingers. See the articles EXTENSOR.

CNEORUM, in botany, a genus of the triandra-monozygia class of plants: the flower consists of three oblong, lanceo-
COA, in botany, the same with the hippocratea of Linnaeus. See the article Hippocratea.

COACH, a commodious vehicle for travelling, so well known as to need no description. Their invention was owing to the French about the reign of Francis I. They have, like other things, been brought to their present perfection by degrees: at present they seem to want nothing, either with regard to ease or magnificence. Lewis XIV. of France, made divers sumptuary laws for restraining the excessive richness of coaches, prohibiting the use of gold and silver therein, but they have been neglected. In England, and most parts of Europe, the coaches are drawn by horses, except in Spain, where they use mules. In a part of the East, especially the dominions of the great Mogul, the coaches are drawn by oxen: in Denmark, they sometimes use rein-deer; but this is rather for curiosity than use. The coachman is ordinarily placed on a seat raised before the body of the coach; but the Spanish policy has displaced him in that country by a royal ordinance on occasion of the duke of Olivarez, who found that a very important secret had been discovered and revealed by his coachman. Since which time the place of the Spanish coachman, is the same with that of the French stage-coachman, and our postilion.

Coaches are distinguished with regard to their structure into coaches, properly so called, landaus, chariots, berlins, calashes, &c. With regard to the circumstances of their use, we distinguish them into stage-coaches and hackney-coaches. Hackney-coaches, are those exposed to hire in the streets of great cities, at rates fixed by authority. In London and Westminster, eight hundred Hackney-coaches are allowed by statute, and they must be licensed by commissioners, and pay a duty to the crown. Any person driving any such coach without licence, forfeits £1. The fare of coaches is 10 s. a day, 1 s. 6 d. for the first hour, and 1 s. every hour after; or 1 s. for a mile and four furliongs, and 1 s. 6 d. for two miles.

There are certain places and distances mentioned in the act for the extent of the respective fares, and others rated by the commissioners; and coachmen refusing to go for their fare, are liable to penalties; as also for not having numbers to their coaches.

Stage-coaches are those appointed for the conveyance of travellers from one city or town to another.

COADJUTOR, is properly used for a prelate joined to another to assist him in the discharge of his functions, and even in virtue thereof to succeed him. Coadjutors were formerly appointed by kings for archbishops and bishops grown old, or absent, and not able to administer in their dioceses. But the right of appointing coadjutors in the Romish countries, is now reserved to the pope alone. The popes formerly made a shameful abuse of the coadjutors: some they granted to children; others, to people not in orders; others, to persons at a distance; but the council of Trent tied down the pope’s hands, by adding abundance of restrictions on this article. In number, they have coadjutrices, who are religious nominated to succeed the abbess, under pretence of aiding her in the discharge of her office.

COAGULATION, among chemists, is the melting any body by calting in certain powders, and afterwards letting the whole concrete into a fold.

COAGULATION, in a general sense, imports a certain change in the state of any liquor, by means of which, instead of retaining its fluidity, it becomes more or less confluent, according to the degree of coagulation. Apothecaries coagulate fluids in various manners, by evaporation, for instance, or distillation; and this species is called by chemists coagulatio per segregationem, or separationem.

COAGULATION, per comprehensum, in chemistry, is when the whole of the fluid, without the loss of any of its parts, is coagulated into an uniform substance. This is performed, 1. With water, by coa-
COAGULUM, COAL, COAGULUM ALUMENOSUM, Small-CoAL, COALITION, Char-CoAL.

COAL-FISH. See With oil, fize formed thereby. fum

fal 'armoniac, the white of eggs, the from

vitriol. 5. With fixed alcali, as in milk.

together. as

fometimes bound in bavins

and fetting a portion of it on fire, they The wood they difpoe on

bend, crofs, faltier, lozenge, &c. which have since become honourable pieces or ordinaries of the shield. See the articles CROSS, BEND, CHEVRON, &c.

The coats of arms and banners were never allowed to be worn by any but knights and antient nobles.

COAT, in anatomy. See TUNIC and EYE.

COAT of MAIL. See the article MAIL.

COATS, in a ship, are pieces of tarred canvats put about the masts at the partners to keep out water. They are also used at the rudder's head, and about the pumps at the decks, that no water may go down there.

COATI, in zoology, the brasilian name of an animal, called in English rackoon. See the article RACKOON.

COATI-MONDI, a brasilian animal differing considerably from the coati: it is about three feet long, from the point of the snout to the tip of the tail; its claws are long, black, crooked, and carinated, or hollowed like a channel
underneath: its tongue is lacerated, or divided by several figures; and the ears are small and round, like those of a mouse.

COATING, in chemistry, the fame with lorication. See LORICATION.

COBALT, cobaltum, a genus of fossils, of the order of the alaphurelata: it is a dense, compact, and ponderous mineral, very bright and shining, and much resembling some of the antimonial ores. See the article AMITY.

It is sometimes found of a deep bluish-black, very heavy and hard, and of a granulated structure, looking like a piece of pure iron where fresh broken: at other times, it is found more compact, not granulated, but resembling a mass of melted lead on the surface. These are the more ordinary appearances of cobalt, besides which there are other accidental varieties of it, being sometimes found of a florid red, or a red debased by mixtures of grey, black or yellow; and in this state, it either forms an uniform mass, or a beautifully frizted and ridged one.

From this mineral are produced the several kinds of arsenic, zaffre, and smalt. See the articles ARSENIC, ZAFFRE, &c.

COBALT is also used to denote the dumps of mines, so very fatal to the workmen. See the article DUMP.

COBELLA, in zoology, a species of colebiter. See the article COLEBI.

COBITIS, the loache, in ichthyology, a genus of malacopterygious fishes, with only five small bones in the branchiotege membrane, the first of which is broadest: there are also cirri at the mouth.

To this genus belong the tænia, musculus fossilis, &c. See TÆNIA, &c.

COBIUS, in ichthyology, a name sometimes given to the gobius. See GOBUS.

COBLENTZ, confluentia, a large city of Germany, in the archbishopric of Trier, and circle of the lower Rhine, situated at the confluence of the Rhine and Moselle, fifty-two miles north-east of Trier, and thirty-six south of Cologne: east long. 7° 15', north lat. 50° 30'.

COBLON, a port-town of the hither India, situated on Cormandel-caeft, twelve miles south of Fort St. George: east long. 80°, north lat. 12° 50'.

COBRE, or ANCOBER, in geography. See the article ANCOBER.

COBWEB, in physiology, the fine network which spiders spin out of their own bowels, in order to catch their prey.

Dried and powdered cobwebs are said to be a good astringent and absorbent.

COCCÉIRA, in botany, a name sometimes given to the theobroma of Linnaeus. See the article THEOBROMA.

COCCIFEROUS PLANTS, the same with bacciferous. See BACCIFEROUS.

COCCINELLA, in zoology, a genus of insects, of the coleoptera order, called by Dr. Hill hemispheria, the characters of which are these: the antennæ are elevated and entire; and the thorax, with the exterior wings, which are marginated, constitutes an hemispherical figure. Of this genus there are a great many species. 1. The coccinella with red wings, and only two black spots on them. 2. The coccinella with red wings, variegated with longitudinal white lines and spots. 3. The coccinella with red wings, and seven black spots on them: this species is very common with us, and is called the lady-cow. 4. The coccinella with yellow wings. 5. The coccinella with black wings, &c. of each of which there are several varieties, distinguished by their different spots.

COCODES, in natural history, an appellation given to such species of ammites, or sand-flone, whose grains are very large.

COCCOTHRAUSTES, the gross-beak, or hawk-finch, in ornithology, a species of loxia, distinguished by having a double line of white on the wings. See the article Loxia.

It feeds on the kernels in the stones of fruits, which it breaks with great dextrity; whence its name of coccus-thrautes.

Virginiian COCCOTHRAUSTES, a bird about the size of a black-bird, distinguished from the former species by its crest, and beautiful scarlet-colour.

COCCULUS INDICUS, the indian berry, of a roundish figure, but with a depression or dent on one side, of the size of a large pea, brought from Malabar and other parts of the East-Indies. The tree which produces it is one of the arbores baccifera fructu monopyremon of Mr. Ray. It is described by Breynius under the name of the arbor indica cocculus officinarum ferens. This fruit is little used in the shops, being esteemed poisonous.

COCCUS, in zoology, a genus of two-winged insects, the wings of which stand erect, and are only to be found in the males: add to this, that the rostrum, or trunk, arises from the head, and the body is delicate behind.
To this genus belong, 1. The purple coccus of the roots of plants, called by some German cochineal; it dyes a beautiful scarlet colour. 2. The kermes or coccus of the ilex. 3. The coccus of infects. 4. The cochineal-infect, or cocculus of the tuna; with several other species. See the articles KERMES and COCHINEAL.

COCCYGÆUS MUSCULUS, in anatomy, a name sometimes used for the sphincter of the anus. See the article SPHINCTER.

COCCYGRIA, in botany, the same with the coccus of other botanists. See COTINUS.

COCCYX, or COCCYGIS OS, in anatomy, a bone situated at the extremity of the coccyx. See the article OSTEOLOGY. The figure of it is something like that of an inverted pyramid, a little bent forward towards the pelvis: in adults it is usually of a single bone; but in younger subjects it consists of three or four frusta, and in infants it is merely cartilaginous. In quadrupeds of many kinds, this bone is long, composed of a number of frusta, is bent forward, and constitutes the tail; in this case it is called the os cauda.

COCXYX, in ichthyology, the name by which some call the trigla, with a great many cirri, and an octagonal body. See the article TRIGLA.

COCHIA, in pharmacy, a name for certain officinal pills, as the greater pill cochiae and the lesser pill cohize: the former is a composition taken from Khaees, and hardly ever used in the present practice; the latter, being the most in use of any under this clais, is composed of equal quantities of bright aloes, the purest fevermony, and the pulp of coloquint, which are made into a malis with a sufficient quantity of syrup of buckthorn, adding thereto two drams of the distilled oil of cloves. They are prescribed to diffuse viscidities, watry humours, and flatulencies.

COCHIN, a port-town of India, on the Malabar-coast, about one hundred miles south of Calicut: west longitud., 75°, and north lat., 9° 30'. Here the Dutch have a factory, and a very strong fort.

COCHIN-CHINA, a kingdom of India, situated between 104° and 109° east long., and between 18° and 17° north latitude; being bounded by the kingdom of Tonquin on the north, by the Indian ocean on the east and south, and by the kingdom of Cambodiam on the west: it is upwards of four hundred miles long, and one hundred and fifty broad, producing chiefly silk and rice.

COCHINEAL, or COCHINEEL; in commerce, was, till of late, supposed to be a vegetable production, a seed, or an excrecence of a plant; but it is now acknowledged to be the female of an insect, living upon the opuntia, or Indian fig, on the juice of which it feeds. There are two sorts of it, the martigrie, which is esteemed the finest, and the wild, which is less valuable; the difference being occasioned only by the extraordinary care that is taken of the one by being supplied with food of a proper kind, the other living wild without the like care: it is brought from Mexico, and some other parts of South America, where the inhabitants find it so very advantageous an article of commerce, that they make plantations of the opuntia, and regularly breed and manage their crops, sending such vast quantities of it to Europe, that it is computed there is no less than eight or nine hundred thousand weight annually imported from Spanish America. With us it pays no duty; and is esteemed a great cordial, sudorific, alexipharmic, and febrifuge; and much used by dyers and painters, the high crimson colour it affords being scarce equalled by any thing, and making, according to their different management of it, all the degrees and kinds of red.

COCHLEA, the SNAIL-SHELL, in zoology, a genus of univalve shell-fish, of a spiral figure, and containing only one cell. This is a very comprehensive genus, and therefore subdivided into three series, viz. 1. The cochleæ which have a round or nearly round mouth, called cochleæ lunares. 2. The cochleæ with a semicircular mouth, called cochleæ semilunares. 3. The cochleæ with a narrow oval mouth, as if the sides were cut together, called cochleæ oree depressus. See plate XLIV. fig. 2.

COCHLEA, in anatomy, the third part of the labyrinth of the ear. See EAR. It is placed opposite to the semicircular canals, and formed in the manner of a snail-shell, making its progress two turns and a half, in a spiral form. In this we are to remark the nucleus, and the canal, which is divided into two by a spiral lamina; the upper of these opens into the vestibulum, and is called scala vestibuli; and the lower, which terminates in the hollow of the tympanum,
tymanum, through the fenestra rotunda, is called scala tympani.

Cochlea, the Screw, in mathematics. See the article Screw.

Cochlearia, Scurvy-Grass, in botany, a genus of the Tetradynamia-Ficul-Alyca class of plants, the flower of which consists of four vertically ovated petals, of the form of a crofs; the fruit is a sub-cordated, lightly compressed, febrons, bilocular pod, containing about four seeds in each cell.

It is heating, drying, and aperitive, of great ufe against the fcurvy, dropy, and jaundice; and is often put into diet-drinks for thofe purpofes; it must be remembered, however, that fcurvy-grafs, and fuch warm plants, are only proper in an acid fcurvy, being very pernicious in a putrid alcaline fcurvy.

Cochlites, in natural history, an appellation given to the petrified shells of the cochleæ, or snails.

Cock, gallus, in zoology, the English name of the males of gallinaceous birds, but more efpecially used for the common dunghill-cock. See the article Gallus.

Came-Cock. See Game-cock.

Geò-Cock. See the article Gor-cock.

Indian-Cock, crax. See Crax.

Wood-Cock. See the article Wood-cock.

Cock-Boats, among sailors, thofe used only in rivers, or near the shore.

Cock's Comb, in botany, a name given to a species of pedicularis, as well as to a species of amaranthus. See the articles Pedicularis and Amaranth.

Cock's Head, in botany, the fame with the onobrychis of authors.

Cock-Paddle, in ichthology, the name by which fome call the lump-fish.

Cock-Pit, a fort of theatre upon which game-cocks fight.

Cock-Pit, in a man of war, a place on the lower floor, or deck, abait the main-capitan, lying between the platform and the steward's room, where are partitions for the purfier, Surgeon, and his mates.

Cock-Swain, or Coason, an officer on board a man of war, who has the care of the barge and all things belonging to it, and must be alo ready with his crew to man the boat on all occasions: he sits at the stern of the boat, and steer.

Cock-Throofed, among dealers in horfes, is faid of a horfe whose wind-pipe is small, and bends like a bow, when he bridles his head.

Cock-Water, among miners, a fream

of water, brought into a trough, to wash away the sand from tin-ore, while stamping in the middle.

Cocks, on ship-board, are little square pieces of brails, with holes in them, put into wooden flivers, to keep them from splitting and galling by the pin of the block.

Cockatoon, in ornithology, the fame with macao. See the article Macao.

Cockeymouth, a borough-town of Cumberland, situated on the river Derwent, near the irifh sea, about twenty-five miles south-west of Carlile: weft long. 3° 10', and north lat. 54° 3'.

It lends two members to parliament.

Cocket is a feal belonging to the king's cuftom-house, or rather a fcorel of parchment fealed and delivered by the officers of the cuftoms to merchants, as a warrant that their merchandifes are cuftomed. It is also used for the office where goods, transported, were firft entered, and paid their cuftom, and had a cocket or certificat of discharge.

Cockle, in the history of shell-fish, the English name of the pestunculus. See the article Pectunculus.

Cocoa, or Cacao, in botany, the fame with the theobroma of Linneus. See the article Theobroma.

Cocoi, in ornithology, a beautiful brazilian species of heron, about the size of the common fork. See the article Heron.

Cononato, a town of Italy, in the province of Piedmont, about twenty miles east of Turin; it is faid to be the birth-place of the famous Columbus, who discovered America: eait long. 8°; and north lat. 44° 50'.

Cocos, or Coco, is a nut, the fhell of which is much ufed by turners, carvers, &c. for divers works.

While the nuts are new, and the bark tender, they yield each about half a pint of clear cooling water, which in a little time becomes frift a white foft pulp, and at length condene; and affumes the taste of the nut. The tree yields fruit thrice a year, and thofe fometimes as big as a man's head; but the cocos of the Antilles are not fo large as thofe of the East-Indies. In the kingdom of Siam, the cocos-fruit dried and emptied of its pulp, serves as a measure both for things liquid and dry.

Cocotzin, in ornithology, the leafl barbadoes-turtle, called picupinima by Marggrave.
COD [634] COE

COCTION, a general term for all alterations made in bodies by the application of fire or heat; of this there are various species, as maturation, friction, asfination, elixation, uftion, &c. See Assation, Friction, &c. and also the articles Concoction and Decoction.

COD, in ichthyology, the English name of the variegated gadus with three fins on the back, a cirrated mouth, and the upper jaw longest, called by different authors afellus varius and afellus fritatus. See the article Gadus.

This fish receives different denominations from the places where it is caught and cured, as habdeeen, from Aberdeen in Scotland; green-fish, from Greenland; Iceland-fish, from Iceland, &c. and it is also called stock-fish, because it requires to be beaten with sticks before it can be dressed.

COD is also a term used, in some parts of the kingdom, for a pod. See Pod.

COD-FISHERY. See Fishery.

COD-CAPE, in geography, a promontory on the coast of New-England, near the entrance of Boston-harbour: west longitude, 69° 50', and north latitude 42°.

CODA, in the Italian music, two or three measures, which, repeated several times, at the end of a canon or fugue, serve to end the piece.

COD, in ancient compositions, is when one part continues on a found, which is its cadence, while the others proceed to modulate for four, five, six, or more bars.

CODAGA, a bark otherwise called ponchi. See the article Conessi.

CODDA-PANNA, in botany, the same with the corypha of Linnæus.

CODDY-MODDY, the English name of a species of larus with a grey back and white rump. See the article Larus.

CODE, codex, a collection of the laws and constitutions of the roman emperors, made by order of Justinian.

The code is accounted the second volume of the civil law, and contains twelve books, the matter of which is nearly the same with that of the digest, especially the first eight books; but the style is neither so pure, nor the method so accurate as that of the digest; and it determines matters of daily use, whereas the digest differs more abstruse and subtle questions of the law, giving the various opinions of the ancient lawyers. Although Justinian's code is distinguished by the appellation of Code, by way of eminence, yet there were codes before his time; such were the gregorian code and hermogenerian code, collections of the roman laws made by two famous lawyers, Gregorius and Hermogenes, which included the constitutions of the emperors from Adrian to Diocletian and Maximinus. 2. The odonéian code, compiled in sixteen books, formed out of the constitutions of the emperors from Constantine the great to Theodosius the younger: this was observed almost over all the west, till it was abrogated by the Justinian code. There are also several later codes, particularly the ancient gothic, and those of the french kings, as the Code of Euridic, Code-Lewis, Code-Henry, Code-Marchandise, Cod des Eaux, &c. and the present king of Prussia has lately published a code, which comprises the laws of his kingdom in a very small volume.

CODEX, in antiquity, denotes a book or tablet, on which the ancients wrote. It was of the bark of a tree, of ivory, of parchment, or of paper.

CODEx was also a log fastened to the foot of a delinquent slave.

CODIA, among botanists, signifies the head of any plant, but more particularly a poppy-head, whence its syrup is called diacodium.

CODICIL is a writing by way of supplement to a will, when any thing is omitted which the testator would have added, or wants to be explained, altered, or recalled. It is of the same nature with a will or testament, except that it is made without an executor; and one may leave behind him but one will, tho' as many codicils as he pleates. There is this further difference between a codicil and a testament, that a codicil cannot contain the institution of an heir, and is not subject to the same formalities prescribed by law for solemn testaments. Codicils are always taken as part of the testament, and ought to be annexed to the same; and the executor is bound to see them performed: and in case they are detained from him, he may compel their delivery up, in the spiritual court.

CODLIN, an apple useful in the kitchen, being proper for baking.

CODLING, an appellation given to the cod-fish, when young. See Cod.

CODINGS-AND-CREAM, in botany, a name sometimes used for the chiasmenerium.

COECUM, in anatomy, the first of the three
three large intestines, called, from their size, intestina crassa. The cæcum is situated at the right os ilium, and resembles a bag, and has a veriform appendage fixed to it. It begins at the termination of the ilium, and terminates in the bottom of the bag which it forms: its length is not more than three or four finger's breadth. In the appendage, opening into the side of the cæcum, there are some glands, which, together with its erect situation, as that is usually the case, seems to shew that some fluid is secreted there. In hens, this is double, as also in many other fowls. In fishes there are frequently a vast number of them; in some species, no less than four hundred, according to Dr. Grew. In man this appendage is, at the utmost, single, and is often wanting.

COEFFICIENTS, in algebra, such numbers, or given quantities, as are put before letters, or unknown quantities, into which letters they are supposed to be multiplied: thus, in $a$, or $bx$, or $c^2x$; $x$ is the coefficient of $a$, $b$ of $x$, and $c$ of $c^2x$.

When no number is prefixed, unit is supposed to be the coefficient; thus $1$ is the coefficient of $a$ or of $b$.

In a quadratic equation, the coefficient is, according to its sign, either the sum or the difference of its two roots.

In any equation, the coefficient of the second term is always equal to the sum of all the roots, keeping their proper signs.

The coefficient of the third term is the sum of all the rectangles, arising by the multiplication of every two of the roots, how many ways soever these combinations of two can be had, as three times in a cube, fix in a biquadratic equation, &c. See Equation.

The coefficient of the fourth term is the aggregate of all the solids made by the continual multiplication of every three of the roots, how often soever such a ternary may be had, and so on ad infinitum.

COEFFICIENTS OF any generating term in fluxions, is the quantity arising from the division of that term, by the generated quantity.

COELESTIAL, in general, denotes any thing belonging to the heavens: thus we say, coelestial observations, the coelestial globe, &c. Coelestial observations are those made by astronomers upon the phenomena of the heavenly bodies, with a suitable appara-

tus of astronomical instruments, in order to determine their places, motions, phases, &c. The instruments chiefly made use of, in astronomical observations, are the astronomical gnomon, quadrant, micrometer, and telescope. See the articles Gnomon, Quadrant, &c.

Observations in the day-time are easy, in regard the cross-hairs in the focus of the object-glas of the telescope are then distinctly perceivable: in the night, those cross-hairs are to be illumined, to make them visible. This illumination is either performed by a candle placed obliquely near them, so as the smoke does not intercept the rays; or where this is inconvenient, by making an aperture in the tube of the telescope, near the focus of the object-glas, through which a candle is applied to illumine the cross-rays.

Observations on the sun are not to be made without placing a glafs, smoked in the flame of a lamp or candle, between the telescope and the eye.

COELESTIAL GLOBE. See the article Globe.

COEILLAC ARTERY, in anatomy, that artery which issuing from the aorta, just below the diaphragm. The trunk of this artery is very short, and near its origin it sends off from the right side two small diaphragnatic branches, sometimes only one; and is afterwards distributed into right and left, communicating with other arteries of the same name, which come from the intercostal and mammary arteries.

The right branch of this sends the right gastric and epiploic, the pancreatic and the duodenic, the hepatic and the double cystic arteries.

The left branch of it sends off the left gastric and epiploic arteries, the gall-bladder epiploic, the great splenic, and also many of the pancreatic arteries.

COELIAC PASSION, in medicine, a kind of flux, or diarrhoea, wherein the aliment, either wholly changed, or only in part, pass off by foot.

Dr. Freindlays, that the most rational and successful method of treating the coeliac passion, is to administer such remedies as gently stimulate the intestinal tube, and deterge the obstructed glands, for this purpose, purges administered in small quantities, and frequently repeated, and gentle vomits of ipecacuanha are recommended.

Authors frequently confound the coeliac passion.
COEVO~DEN, a town of the province of Overyssel, strongly fortified by the famous Coehorn, on account of its situation, it being the key to the provinces of Groningen and Friesland.

CO-EXISTENCE, the existence of two or more things at the same time.

COFFEA, the coffee-tree, in botany, a genus of the *pentendria-monogynia* class of plants, the flower of which consists of a single petal, of an infundibuliform shape; the tube is cylindrical and slender, many times longer than the cup; the limb is plane, longer than the tube, and divided into five segments of a lanceolated figure, with their edges bent backwards; the fruit is a round berry, with an umbilicated point; the seeds are two, of an elliptico-hemispheric figure, gibbous on one side, plane on the other, and wrapped up in a membrane.

For the virtues and properties of this fruit, see the next article.

COFFEE, or COFFEE-BERRIES, the fruit of the coffee. See the preceding article. We have properly two species of coffee, the one thicker, heavier, and of a paler colour, brought from Mocha; the other is thinner, and generally of a greenish cast, and is brought us from Grand Cairo in Egypt.

Both kinds have the same qualities; neither of them has much sinell, till roasted, and both are of a fairnaceous, leguminous taste while raw. Coffee is to be chosen firm, solid, and large, not easily broken, sufficiently dry, and of no bad sinell; what is damp or musty may be sometimes reduced to a tolerable taffie in roasting, if not too far gone, but it is never equal to the more perfect kind. Coffee was wholly unknown to the Greeks, and even to the arabian writers: the earliest knowledge of it is about three hundred and fifty years standing, and it has not been used above a third part of that time in Europe. Coffee is rather used as a food than as a medicine, yet it is so much in every one's way, that is, the liquor made of it, that it is proper for people to know, that it is very drying, and therefore in disorders of the head, from fumes and too great moistures, very serviceable by its absorbent qualities: this they must experience, who try it after a debauch of wine, or strong liquors. But in thin and dry constitutions it is very hurtful, as it dries the nerves too much, and is apt to make them tremble.
tremble, as in palpies: by the same
means it promotes watching, by bracing
the fibres too tense for that relaxation
which is necessary for sleep; though in a
cafe of extraordinary defluxion of rheum
from the glands about the head and stom-
ach, in a cold constitution, occasioning
a great hinderance from sleep, coffee, by
absoiling the superfluous and continually
distilling rheum, procures sleep. The
coffee is also a stomachic and aperient:
it is found to affist digestion, and to be good
against flatulences; and a custom of
coffee is also a stomachic and aperient: it
attenuates
and
continental
absoils
and
dilutes
is

the
coffee,

COFFERER

COFFERER of the king’s houfehold, a prin-
cipal officer in the court, next under the
comptroller, who, in the compting-houfe,
and elsewhere at other times, has a spe-
cial charge and oversight of other officers
of the house, for their good demeanor and
charge in their offices, to all which he
pays their wages.

COFFIN, in a general sense, a wooden box
or trunk, into which the bodies of dead
persons are put, in order for burial.

COFFIN, in the manage, the whole hoof of
a horse’s foot, above the coronet, includ-
ing the coffin-bone, the sole, and the
fruit.

COFFIN-BONE is a small spongy bone, in-
closed in the midst of the hoof, and pro-
fessing the whole form of the foot.

COGENDE, a city of Tartary, in Asia, sit-
uated in 74° east long., and 41° north
latitude: remarkable for its commerce in
musk.

COGGLE. See the article COGS.

COGGSHALL’s sliding rule. See the ar-
ticle SLIDING RULE.

COGITATION, a term used by some for
the act of thinking. See THINKING.

COGNATION, in the civil law, a term for
that line of consanguinity which is be-
 tween males and females, both descend-
ed from the same father; as agnation is
for the line of parentage between males
only descended from the same flocks.

In France, for the succession to the crown,
they follow agnation; in England, Spain,
&c. cognation: women coming to the suc-
cession according to the degree of proximity, in default of males,
or their descendants, from branch to
branch.

COGNI, the capital of Caramania, in the
leffer Asia, antiently called Iconium,
about two hundred and fifty miles south-
east of Constantinople: east longit. 33°,
and north latitude 38°.

COGNISÆ, or CONNUÆ, in law, is
the person to whom a fine of lands, &c.
is acknowledged, &c.

COGNISOR, or CONNUΣ, is he that
palett or acknowledgeth a fine of lands
and tenements to another.

COGNITIVE, an appellation given to the
human intellect, or faculty, whereby we
know any thing. See INTELLECT and
UNDERSTANDING.

COGNITIONIBUS MITTENDIS, in law,
a writ directed to any of the king’s justi-
ces of the common pleas, who, having a
power to take fines, actually takes them,
COGS, Or COGGLES, (prn oglv.) COHESION, or COGNSANCE, in heraldry. See the article CREST.

COGNSANCE, or CONNUSANCE, in law, has divers significations: sometimes it is an acknowledgment of a fine, or confession of something done; sometimes the hearing of a matter judicially, as to take cognizance of a cause; and sometimes a particular jurisdiction, as cognizance of pleas is an authority to call a cause or plea out of another court, which no person can do but the king, except he can shew a charter for it. This cognizance is a privilege granted to a city or town, to hold plea of all contracts, &c. within the liberty; and if any one is implored for such matters in the courts at Westminster, the mayor, &c. of such franchise may demand cognizance of the plea, and that it be determined before them.

COGNIZANCE is also used for a badge on a waterman's or ferryman's sleeve, which is commonly the giver's crest, whereby he is discerned to belong to this or that nobleman, or gentleman.

COGNIT ACTIONEUM, in law, is where a defendant acknowledges the plaintiff's cause against him to be true, and, after issue joined, suffers judgment to be entered against him, without a trial.

COGS, or COGGLES, a kind of flat-bottomed boats used in rivers.

COGSHAL's RULE. See COGGSHAL, supra.

CO-HABITATION, among civilians, denotes the state of a man and a woman who live together like husband and wife, without being legally married.

By the common law of Scotland, co-habitation for year and day, or a complete twelve-month, is deemed equivalent to matrimony.

CO-HEIR, one who succeeds to a share of an inheritance, to be divided among several.

Female co-heirs are, by the law of England, called coparceners. See the article CO-PARCENERS.

COHESION, in philosophy, that action by which the particles of the same body adhere together, as if they were but one. The cause of this cohesion has extremely perplexed the philosophers of all ages. In all the systems of physics, matter is supposed, originally, to consist of minute indivisible atoms; but how, and by what principle these several and distinct corpuscles should come first combined into little systems, and how they should come to preserve in that state of union, is a point not yet determined: a point of the greatest difficulty, and even of the greatest importance of any in physics. J. Bernoulli thinks it owing to the prelure of the atmosphere; others, to the figure of the component particles; but the generality, with Sir Isaac Newton, to attraction. See the article ATTRACTION.

Instead, however, of entertaining our readers with refined speculations of this kind, which are more curious than useful, we shall subjoin a table of the different force of cohesion in different bodies, as ascertained by the ingenious Muffchenbroek: this force he estimated by the weights required to pull them asunder, drawing according to their length: the pieces of wood were of a long square form, of which each side was 120 of an inch; and his experiments upon metals were made by suspending weights to wires of each fort, whose diameter was 1/10 of a rhineland inch, or 130 of an inch English. The result of all which experiments may be seen in the following table.

<table>
<thead>
<tr>
<th>Bodies to be drawn</th>
<th>Weights capable of doing it</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood of the linden-tree</td>
<td>1000 lb.</td>
</tr>
<tr>
<td>of alder</td>
<td>3000</td>
</tr>
<tr>
<td>of fir</td>
<td>600</td>
</tr>
<tr>
<td>of oak</td>
<td>1150</td>
</tr>
<tr>
<td>of elm</td>
<td>950</td>
</tr>
<tr>
<td>of beech</td>
<td>1250</td>
</tr>
<tr>
<td>of ash</td>
<td>1250</td>
</tr>
<tr>
<td>Copper</td>
<td>290 lb.</td>
</tr>
<tr>
<td>Yellow brafs</td>
<td>360</td>
</tr>
<tr>
<td>Gold</td>
<td>500</td>
</tr>
<tr>
<td>Silver</td>
<td>370</td>
</tr>
<tr>
<td>Iron</td>
<td>450</td>
</tr>
<tr>
<td>Tin</td>
<td>40 lb.</td>
</tr>
<tr>
<td>Lead</td>
<td>29 lb.</td>
</tr>
</tbody>
</table>

These were the different forces of cohesion in bodies, when pulled length-ways: and in order to try their transverse cohesion, or when the force acted in a direction perpendicular to their length, he fixed one of the ends of the same pieces of wood as before, into a square hole of a metal-plate, and then hung weights on the other end, sufficient to break each piece at the said hole. These weights, and distances from the hole, were as follows:

Pieces
COI [639] COI


Fir 9 inches. 40 oz.
Oak 8½ 48
Elm 9 44
Pine 9½ 36½
Alder 9½ 48
Beech 7 56½

COHOBATION, in chemistry, the returning a liquor distilled from any substance, back upon the same substance, and distilling it again, either with or without an addition of fresh ingredients.

The design of this operation is to procure the united virtues of any substance in their utmost strength. Cohobated waters are much extolled by Boerhaave.

COHORT, cohors, in roman antiquity, the name of part of the roman legion, comprehending about six hundred men. There were ten cohorts in a legion, the first of which exceeded all the rest, both in dignity and number of men. When the army was ranged in order of battle, the first cohort took up the right of the first line, the rest followed in their natural order, so that the third was in the center of the first line of the legion, and the fifth on the left, the second between the third and fifth, and the fourth between the third and fifth: the remaining cohorts formed a second line, in their natural order.

COIF, the badge of a serjeant at law, who is called serjeant of the coif, from the lawn-coif they wear under their caps when they are created serjeants.

The use of the coif was to cover the clerical tonsure. See TONSURE.

COIL, or QUOIL. See QUOIL.

COILING of the flud, the first chaffing of a coif for any service.

COILON, ἄλεος, the ancient grecian theatres, the same with the cavea of the Romans. See the article CAVEA.

COILOPHYLLUM, in botany, the name by which Morison calls the sarracena of Linnaeus. See SARRACENA.

COIMBRA, a large city of Portugal, in the province of Beira, situated on the river Mondego, about ninety-six miles north of Lisbon: west longitude 9°, and north latitude 40° 20′.

COIN denotes all manner of the several stamps and species of money in any nation. In earlier times, when the necessity of traffic put men upon the expedient of having money; and metals, on account of their firmness, cleanliness, and durability, were pitched upon to serve the end: each person cut his metal into pieces of different sizes and forms, according to the quantity to be given for any merchandise, or according to the demand of the feller, or the quantity stipulated between them. It was usual then to go to market laden with metal, in proportion to the purchase to be made; and furnished with instruments for proportioning it, and with scales for dealing it out, according as occasion required. By degrees it was found more convenient to have pieces ready weighed; and as there were different weights required, all those of the same weight were distinguished with the same mark or figure. At length the growing commerce of money beginning to be disturbed with frauds, both in the weights and the matter, the public authority interposed, and hence arose the first stamps, or impreffions of money, to which succeeded the names of the moneyers, and at length the effigies of the prince, the date, legend, and other precautions, to prevent the alteration of the species: thus were coins completed.

We hope the reader will not be dissatisfied to find here tables of the most remarkable coins, both antient and modern. We shall begin with the antient.

The jewiʃ Coins, and values in english money, are as follow.

<table>
<thead>
<tr>
<th>Gerah</th>
<th>Bekah</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shekel</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maneh, Mina hebraica</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Talent</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solidus aureus, or sextula, worth</th>
</tr>
</thead>
<tbody>
<tr>
<td>60000 6000 3000 50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Siclus aureus, worth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600 1600 8000 160</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A talent of gold, worth</th>
</tr>
</thead>
<tbody>
<tr>
<td>5475 o 5 23</td>
</tr>
</tbody>
</table>

The
The Grecian Coins, with their value and proportion.

<table>
<thead>
<tr>
<th>Lepton</th>
<th>Chalcus</th>
<th>2</th>
<th>Didachus</th>
<th>2</th>
<th>Hemibolium</th>
<th>6</th>
<th>Obolus</th>
<th>6</th>
<th>Diobolium</th>
<th>224</th>
<th>Tetrobolum</th>
<th>36</th>
<th>Didrachm</th>
<th>672</th>
<th>Dichalcus</th>
<th>1344</th>
<th>Tetradrachm. fater</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>112</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>224</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>672</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1344</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1680</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Of these the drachma, didrachma, &c. were of silver, the rest of brass. The grecian gold coins were the fater aureus, worth twenty-five attic drachms of silver; the fater cyzicenus, fater philippicus, and fater alexandrinus, worth twenty-eight drachms; and the fater daricus, according to Josephus, worth fifty attic drachms; and the fater creius of the same value.

The value of the Roman Coins.

<table>
<thead>
<tr>
<th>I. s. d. q.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
</tbody>
</table>

Of these the denarius, victorius, severius, and sometimes the as, were of silver, the rest of brass. The roman gold coin was the aureus, which weighed generally double the denarius, the value of which, according to the first proportion of coinage mentioned by Pliny, was worth

<table>
<thead>
<tr>
<th>l. s. d. q.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>300</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>500</td>
</tr>
<tr>
<td>600</td>
</tr>
</tbody>
</table>

According to the proportion that obtains among us, worth

<table>
<thead>
<tr>
<th>I. s. d. q.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>300</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>500</td>
</tr>
<tr>
<td>600</td>
</tr>
</tbody>
</table>

According to the decuple proportion, mentioned by Livy and Julius Pollux, worth

<table>
<thead>
<tr>
<th>I. s. d. q.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>300</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>500</td>
</tr>
<tr>
<td>600</td>
</tr>
</tbody>
</table>

According to the proportion mentioned by Tacitus, and which afterwards obtained, whereby the aureus exchanged for 2½ denarii, its value is

<table>
<thead>
<tr>
<th>I. s. d. q.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>300</td>
</tr>
<tr>
<td>400</td>
</tr>
<tr>
<td>500</td>
</tr>
</tbody>
</table>

It must be observed, that in all these tables of ancient coins, silver is reckoned at five shillings, and gold at four pound the ounce.

Modern coins, current in the four quarters of the earth at this day, are either made of metals, or they are shells and fruits. The metals are gold, silver, copper, tin, and lead, to which may be added billon, a mixture of silver and copper in a certain proportion.

In Europe none are used beside gold, silver, copper, and billon; in some parts of the East-Indies they likewise use tin and lead; as to shells and fruits, they are the small money of several nations in Asia, Africa, and America.

British Coins. In England, the current species of gold are the guinea, half guinea, jacobus, laureat, angel, and rose noble; the four last of which are now seldom met with, having been mostly converted into guineas, chiefly during the reigns of Charles II. and James II. The silver coins are the crown, half crown, thilling, and sixpence: there are likewise penny, two-penny, three-penny, and groat pieces in silver. The copper coins are the halfpenny and farthing.

Value and proportion of the English Coins.

<table>
<thead>
<tr>
<th>Farthing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>8</td>
</tr>
</tbody>
</table>

Shilling |

| 120       |
| 60        |

Half crown |

| 240       |
| 120       |

Crown |

| 960       |
| 480       |
| 240       |

Pound, accompany |

| 1008      |
| 504       |
| 125       |

Guinea |

| 100       |
| 50        |
| 25        |

Jacobus |

| 100       |
| 50        |
| 25        |

Carolus, or laureate.
In Scotland, by the articles of the union, it is appointed that all the coins be reduced to the English, and the same accounts be observed throughout the whole island. Till then, the Scots had their pounds, shillings, and pence as in England; but their pound was but twenty pence English, and the others were in proportion; accordingly their mark was 13s. 4d. Scots, current in England at 13 1/2d. their noble in proportion. Beside these they had their turner, pence, and half-pence; their penny of that of England: besides base money of achifons, babees, and placks; the bodle 1/3 of the penny, 1/3 of the achifon, 1/3 of the babee, and 1/2 of the plack.

In Ireland the coins are as in England, viz. guineas, shillings, &c. with this difference, that the English shilling passes for twenty-six half-pence, which are the only coin peculiar to that country.

**French Coins.** The only gold-coin now current in France is the Louis d'or, with its divisions, which are half and quarter, and its multiples, which are the double and quadruple louis: till the year 1700, they had gold-lys and ecus or crowns; but they are now no more. The silver-coins are the ecu and the grand ecu of six livres; pieces of twenty-four sols, of twelve sols, and of six sols. The billon-coins are of two kinds, each called sols, some of fifteen deniers, others of twenty one: to these may be added the deniers current in the Lionois, Provence, Dauphiny, and other parts. Lastly, the copper-coin is the liard, equal to three deniers, and is ordinarily called the double.

### Value and proportion of the French Coins.

<table>
<thead>
<tr>
<th>Denier, equal to 1/4 of a farthing sterling</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Double</td>
</tr>
<tr>
<td>3 1/2 Liard</td>
</tr>
<tr>
<td>12 6 4 Sol Paris is equal nearly to o 0 0 1/4</td>
</tr>
<tr>
<td>240 120 80 20 Livre, compt</td>
</tr>
<tr>
<td>720 360 240 160 80 40 3 Liard</td>
</tr>
<tr>
<td>The old louis d'or is valued at o 16 9 3</td>
</tr>
<tr>
<td>The new louis d'or at 1 0 0 6</td>
</tr>
</tbody>
</table>

### Spanish Coins. In Spain, and the states depending upon it, the gold-coin is the pistle; above which is the double pistle and piece of four pistoles, and under it the half pistle; to which must be added the caftillans of gold. The silver-money are the piastre, or piece of eight rials, and its diminutions; as also the simple rial, with its diminutions. The copper-coins are the ochavos, or ochavos, which are of two kinds, the one equal to four maravedis, and ordinarily called quarta; the other double this, and called double quarta; and lastly the maravedis. It must be observed, that in Spain they have new money and old; the old current in Sevil, Cadiz, Andalufia, &c. is worth 2 1/2 per cent. more than the new current at Madrid, Bilboa, St. Sebastián, &c. This difference is owing to their king Charles II. who, to prevent the exportation of money, raised it 2 1/2 per cent. which, however, he was able to effect only in part, several provinces still retaining the antient rate.

### Value and proportion of the Spanish Coins.

| Quarta, 4 maravedis                             |
| Ochavo, or double quarta, 8 maravedis           |
| Real old plata, equal to o 0 0 1/4              |
| Piece of eight, or piastre o 4 6                |
| Piastre o 16 9 3                               |

### Portuguese Coins. Those of gold are the miliary or St. Stephen, and the moeda d'oro, or, as we call it, moidore, which is properly their pistole; above this are dopio moedas or double pistoles, and quadruple species equal to five pistoles. The silver-coins are the cruzada, pataca or piece of eight, and the vintem, of which they have two forts, the one silver and the other billon. The ree is of copper, which serves them in accounts as the maravedis does the Spaniards. Res, ree, or rex, equal to three-fifths of a farthing sterling.

| Vintem, 20 res.                                |
| Cruzada, 26 vintems                            |
| Mi-moeda, or half pistole o 13 6                |
| Moeda d'oro, or pistole 1 7 0                   |

4 N

Doppio
### COI [642] COI

#### Italian Coins

The several states of Italy have several current monies, though there are some common to all, such as the pistole of gold, and the ducatoon and florin of silver, which are of various weights, fineness, &c. The coins peculiar to Rome are the julius of silver, the pignatelle of billon, and the bayoco, demibayoco, and quadrine of copper. Venice has its sequins of gold; its juffins, or ducatoons, and derlingues of silver. Naples, its carlines, Genoa its croifats, Savoy and Piedmont its lysi; all silver: this last state has also papiroles and cavale of billon.

#### Gold Coins of Italy

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The sequin of Venice</td>
<td>9 5 7</td>
</tr>
<tr>
<td>The old italian pistole</td>
<td>16 7 6</td>
</tr>
<tr>
<td>Piporto of Rome, Milan, Venice, Florence, Savoy, Genoa</td>
<td>16 6 7</td>
</tr>
<tr>
<td>Double ducat of Genoa, Venice, and Florence</td>
<td>18 7 7</td>
</tr>
<tr>
<td>Single ducat of the same places</td>
<td>9 3 8</td>
</tr>
</tbody>
</table>

#### Silver Coins

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The old ducat of Venice</td>
<td>3 4 50</td>
</tr>
<tr>
<td>The ducat of Naples</td>
<td>3 4 43</td>
</tr>
<tr>
<td>The ducat of Florence or Leghorn</td>
<td>5 4 52</td>
</tr>
<tr>
<td>The tarin, or fifth part of the ducat of Naples</td>
<td>8 0 9</td>
</tr>
<tr>
<td>The carlin, or tenth part</td>
<td>0 4 04</td>
</tr>
<tr>
<td>The ecudi, or crown, of Rome, or piece of ten julios, or one hundred bayocas</td>
<td>5 1</td>
</tr>
<tr>
<td>The tefon of Rome, or piece of three julios</td>
<td>1 6 12</td>
</tr>
<tr>
<td>The julio of Rome</td>
<td>0 6 10</td>
</tr>
<tr>
<td>The croifat of Genoa</td>
<td>6 6 74</td>
</tr>
<tr>
<td>Juffine of Venice</td>
<td>9 9</td>
</tr>
<tr>
<td>Derlingue, 1/2 of the juffine</td>
<td>1 2 6</td>
</tr>
</tbody>
</table>

#### Swiss Coins

Swiss coins are razzes and blazing of billon; the razzz equal to 1/2 of a penny sterling: and the blaze of Berne, nearly equal to the razzz.

The german, french, and italian coins are current here.

#### Swiss Coins

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The gold ducat</td>
<td>9 2 1</td>
</tr>
<tr>
<td>The old silver ducat of Dantzic</td>
<td>4 6 27</td>
</tr>
<tr>
<td>The old rixdollar of Thorn</td>
<td>4 5 85</td>
</tr>
<tr>
<td>The rixdollar of Sigismund III. and Uladius IV. kings of Poland</td>
<td>4 6 4</td>
</tr>
<tr>
<td>Abra</td>
<td>1 1 3</td>
</tr>
<tr>
<td>Roup</td>
<td>0 4 3</td>
</tr>
<tr>
<td>Croch</td>
<td>0 1 0</td>
</tr>
</tbody>
</table>

---

Dutch Coins. The above, they have also pieces of gold of the value of 31. 12s. 11. 16s. and other subdivisions.

#### Dutch Coins

The ducat of fine gold | 6 15 0 |
Besides the above, they have also pieces of gold and the ducatoon and florin of silver, which are of various weights, fineness, &c. The coins peculiar to Rome are the julius of silver, the pignatelle of billon, and the bayoco, demibayoco, and quadrine of copper. Venice has its sequins of gold; its juffins, or ducatoons, and derlingues of silver. Naples, its carlines, Genoa its croifats, Savoy and Piedmont its lysi; all silver: this last state has also papiroles and cavale of billon.

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The ducat of Holland</td>
<td>6 15 0</td>
</tr>
</tbody>
</table>
| Ducatoon            | 1 2 2
| Patagon, or rix dollar | 0 4 28 |
| The three-guilder piece, or sixty florins | 0 5 46 |
| The guider-florin, or twenty florins | 0 1 8 08 |
| The lion dollar | 0 3 7 07 |
| The schelling goes for six florins, and the ortke is the fourth part of a florin. |

#### Flemish Coins. Thofe of gold are imperials, rades or philips, alberts, and crowns; thofe of silver are rixdollars, patagons, schellings, and gun dens; and thofe of copper, patards.

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great, 8 patards</td>
<td>0 0 1 2</td>
</tr>
<tr>
<td>Single silver</td>
<td>0 0 7 2</td>
</tr>
<tr>
<td>Gulden</td>
<td>0 0 2 0</td>
</tr>
<tr>
<td>Rixdollar, dollar, patagon</td>
<td>0 4 6</td>
</tr>
<tr>
<td>Imperial</td>
<td>0 1 9</td>
</tr>
<tr>
<td>The german, dutch, and french coins are current here.</td>
<td></td>
</tr>
</tbody>
</table>

#### German Coins. Thofe of gold are ducats, which are of various kinds, oboli of the Rhine, and florins; of this last kind there are some likewise of silver, besides rix dollars and izelottes, which are all of that metal.

<table>
<thead>
<tr>
<th>Coin</th>
<th>s.d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ducat of the bishop of Bamberg</td>
<td>9 3 2</td>
</tr>
<tr>
<td>Ducat of Hanover</td>
<td>9 2 7</td>
</tr>
<tr>
<td>Ducat of Brandenburg</td>
<td>9 3 2</td>
</tr>
<tr>
<td>Ducatoon of Cologn</td>
<td>5 5 02</td>
</tr>
<tr>
<td>Rixdollar or patagon of Cologn</td>
<td>4 4 53</td>
</tr>
<tr>
<td>Rixdollar or patagon of Liege</td>
<td>4 7 48</td>
</tr>
<tr>
<td>Rixdollar of Meintz</td>
<td>4 7 27</td>
</tr>
<tr>
<td>Rixdollar of Frankfort</td>
<td>4 6 53</td>
</tr>
<tr>
<td>Rixdollar of the Palatinate and Nuremberg</td>
<td>4 7 55</td>
</tr>
<tr>
<td>Rixdollar of Lunenburg</td>
<td>4 6 65</td>
</tr>
<tr>
<td>Old rixdollar of Hanover</td>
<td>4 7 03</td>
</tr>
<tr>
<td>Old bank dollar of Hamburg</td>
<td>4 6 92</td>
</tr>
<tr>
<td>Rixdollar of Lubeck</td>
<td>4 7 54</td>
</tr>
<tr>
<td>Gulden of Hanover</td>
<td>2 4 14</td>
</tr>
<tr>
<td>Gulden of Zell</td>
<td>2 3 07</td>
</tr>
<tr>
<td>Gulden of Brandenburg</td>
<td>2 3 81</td>
</tr>
<tr>
<td>Gulden of Saxony</td>
<td>2 4 13</td>
</tr>
</tbody>
</table>
Danish Coins are,

- The gold ducat 9 3 2
- The horfe 1 1 ½
- The four-mark piece 2 8 23
- Mark lugs 1 6
- Scheidj, or two marks 3 0
- Rix mark 0 11
- Slet mark 0 9

Swedish Coins. Those of copper are the roullique, alleuvre, mark, and money.

- A gold ducat is equal to 9 3 .2
- An eight-mark piece of silver 5 2
- A four-mark piece 2 7
- A christiane 1 1 ½
- Caroline 1 5 ½

The Swedish money, properly so called, is a kind of copper, cut in little square pieces, or plates, about the thickness of three English crowns, and weighing five pounds and a half; half a ducat, or two marks, being cut at the four corners with the Swedish arms, and current in Sweden for a rixdollar, or piece of eight.

Monetary Coins. The proper coins of Muscovy are,

- The copee of gold, worth 1 6 1½
- Copee of silver, or denaing 0 1
- Poluk 0 0 ½
- Motofke 0 0 ½
- The ruble of silver, valued at 4 6
- The cherooontz of gold, called ducat by foreigners 9 6

Turkish Coins. The gold-coins are zingerlee, worth two ducats two thirds; and tomiles, worth two ducats and a half, reckoning each ducat at 108 alpers; the sultan, xerrif, and chequesmen, each worth about 9 s. 4 d. 5 d. or 6 d. sterling.

The silver ones are the alper, worth a trifle more than a farthing sterling; and the para, or medin, worth three alpers.

Coins of the coast of Barbary. Though the general currency in these parts are Spanish dollars, French crowns, Hungarian ducats, and the Turkish golden fulsans, there are some coins struck by the kings or deys in their different territories.

At Morocco, the metacals are a sort of gold ducats; made by the Jews at their pleasure, so that their standard is very uncertain.

The blanquille of silver, worth 2 ½ d. the florins of copper, eight of which go to a blanquille.

At Algiers the gold-coins are fultanins and alpers; buharus, of which six go to an alper. The doubla is silver, and worth about 4 s. 6 d. The rubis, median, and zian are of gold, the first equal to 35 alpers, or 1 s. 9 d. and the half 100 alpers.

At Tunis they have fultanins of gold, but heavier by one third than those of Constantinople: the natura of silver, cut nearly square: and doublas and buharus of the same value with those of Algiers.

Persian Coins are either of silver or copper: of the first kind are the

- Abasli, equal to 1 4 ½
- Mamoudi 0 8 ¾
- Shakee 0 4 ½

Copper coins are the carbequi, or carbequi, equal to 1 ½ of a penny sterling.

The tale, or cherais, is of gold, but it has no currency among the merchants, being only a medal struck by every king of Persia upon his accession to the crown.

Chinese Coins. Throughout the kingdom of China and Tonquin there are not properly any coins struck; instead of these they cut their gold and silver into little pieces, of different weights: those of gold are called golichteus; those of silver the natives call leam, the Portuguese taels.

Beside these they have a small money of lead mixed with the leam of copper, having holes in the middle to string them on for the sake of numbering; this species is called caxa, cas, and pits; and the string which usually holds 200, is called lanta.

There are two sorts of golichteus, the one of 3½ ounces, and the other but half as much. The tael, or leam, is equal to 6 s. 8 d. sterling. Caxa, cas, or pits, one third of a farthing; and the string which usually holds 200, is called lanta.

There are two sorts of golichteus, the one of 3½ ounces, and the other but half as much. The tael, or leam, is equal to 6 s. 8 d. sterling. Caxa, cas, or pits, one third of a farthing; and the string which usually holds 200, is called lanta.

Coins of Japan. The Japanese strike coupons both of gold and silver; and copper pieces with holes in the middle, like those of China, six hundred of which make the tael. The other monies, which they cut, like the Chinese, of different weights, are chiefly three, the largest of the weight of six realis, viz. 48 taels, the tael equivalent to 75 Dutch florins; the second equal to 6½ taels, and the third to 1½ tael.

Coupant of gold, weighing one ounce six drachms, its figure a long oval, the longest diameter about four inches, and the shortest half an inch, 61. 12. s. 6 d.

Other coupons of gold, near one third of the former, amounting to about 21. 45. ½ d.

Coupant of silver current at 4 s. 6 d.

Copper money seven twelfths of a farthing.
COINS of Siam. In the dominions of Siam are struck gold pieces five or six grains heavier than the half pistole of Spain; but these are rather pieces of curiosity, than of use in commerce. Their silver coin is the tical or baat, the diminutions of which are the mayon or feling, of the tical; the fouang, of the mayon; the page, of the fouang; and clam, of the page: here are also tompons, in value of a fouang. The tical weighs 3 gros and 23 grains, which, reckoning the ounce of silver or fansoms, and the half, both of gold and silver; the first, both of gold and silver; the second, of silver alone; and the third, of copper. There are others struck by the princes tributary to him, particularly a silver piece of the king of Matoucha, worth 3 d. a silver piece of the king of Ogdens, worth 6 d. a gold piece of the king of Macaffer, taken by the Dutch for a guider.

COINS of the coasts and islands of the Indies. The principal, and those most generally current, are pagados, rupees, larins, fanos, or fanoms, and coupans; each of which are struck both of gold and silver. Besides these, there are also particular coins, as at Goa, St. Thomas's of gold; at Surat, Agra, and the rest of Indostan, the pecha, or pesla, and doudou; all of copper; the bafarucos and chedas, of tin.

Pagodo, gold, is common on all the coasts of Coromandel, and almost the only one in use in the trade carried on there. The English make them at Fort St. George, and the Dutch at Nagapattanam, of the same standard and weight with those of the country. The value, is.

The value of the silver pagodo is very different: the smallest are worth eight tangas, reckoning the tanga at 90 or 100 bafarucos, 3 d.

Gold rupee worth 1 l. 11 s. 6 d.

Silver rupee varies in fineness and value. There are three kinds current, viz. rupee ficca, worth at Bengal, 2 s. 11 d.

Rupee of Madrass, 2 s. 5 1/2 d.

Rupee of Surat, 2 s. 3 d.

This is to be understood of the new rupees for as to the old ones of each kind, their value is less than those of Madrass but equal to 1 s. 11 d. those of Surat 2 s. and the fees 2 s. 4 d.

Larin, in form of a cylinder, bent in two, and flatted at each end, worth 9 d.

Fanoms of gold are of different fineness, weight and value. The heaviest are not worth above 5 d. to 6 1/2 d. and the lightest little more than 5 farthings.

The silver fanoms are not worth at most above 2 d.

St. Thomas equal to 9 s.

Techa or pesla of copper worth about 1/4.

Doudou, somewhat less than 3 d.

Bafarucos, of a farthing.

Cheda of Pewter is of two kinds, the one of octagonal, current at 1 3/4 d.

The other round, at 3 d.

In the dominions of the great Mogul are rupees, mamoudas, and pechas; the first, both of gold and silver; the second, of silver alone; and the third, of copper. There are others struck by the princes tributary to him, particularly a silver piece of the king of Matoucha, worth 3 d. a silver piece of the king of Ogdens, worth 6 d. a gold piece of the king of Achem, worth 1 l. 3 s. a gold piece of the king of Macaffers, taken by the Dutch for a guider.

Shells current for COINS are,

1. Cowries, brought from the Maldives, and pass for 1/10 of a penny sterling. The natives of the coasts of Africa call them bouges.

2. Porcelaine, in America, a shell nearly on the same footing with the cowrie.

3. Zimbi, current particularly in the kingdoms of Angola and Congo.

Fruits current for COINS, are,

1. Cacao, among the Americans, fifteen of which are esteemed equivalent to a Spanish rial.

2. Maiz, which has ceased to be current since the discovery of America by the Europeans.

3. Almonds, used in the East-Indies where cowries are not current. The value of these is higher or lower, according as the year is more or less favourable to this fruit; in a common year, an almond is worth about 1/4 of a farthing.

COIN, in architecture, a kind of dye cut diagonal-wise, after the manner of a flight of a stair-cape, serving at bottom to support columns in a level, and at top, to correct the inclination of an entablature supporting a vault.

COIN is also used for a solid angle composed of two surfaces inclined towards each other, whether that angle be exterior, as the coin of a wall, a tree, or interior, as the coin of a chamber or chimney. See the article QUOIN.

COINAGE, or COINING, the art of making money, as performed either by the hammer or mill.

Formerly the fabric of coins was different from what it is at present. They cut a large plate of metal into several little squares, the corners of which were cut off with files. After having shaped these pieces, so as to render them perfectly conformable, in point of weight,
to the standard piece, they took each
piece in hand again, to make it exactly
round, by a gentle hammering. This
was called a planchet, and was fit for
immediate coining. Then engravers pre-
pared, as they still do, a couple of steel
masses in form of dyes, cut and termi-
nated by a flat surface, rounded off at
the edges. They engraved or stamped
on it the hollow of a head, a crofs, a
scutcheon, or any other figure, ac-cord­
ing to the custom of the times, with a
short legend. As one of these dyes was
to remain dormant, and the other move­
able, the former ended in a square pl'isfn,
that it might be introduced into the
square hole of the block, which, being
fixed very lefl;f, enabled the other to
move, as they firll do, a couple of
coins on the edge, are
two steel laminæ, about a line thick.
One half of the legend, or of the ring,
is engraved on the thickness of one of
the laminæ, and the other half on the
thickness of the other; and these two
laminæ are straight, although the planc­
het marked with them be circular.
When they stamp a planchet, they first
put it between the laminæ in such a man­ner, as that these being each of them
laid flat upon a copper plate, which is
fastened upon a very thick wooden table,
and the planchet being likewise laid flat
upon the same plate, the edge of the
planchet may touch the two laminæ on
each side, and in their thick part.
One of these laminæ is immovable, and
fastened with several screws; the other
slides by means of a denied wheel,
which takes into the teeth that are on
the surface of the laminæ. This sliding
laminæ makes the planchet turn in such
a manner, that it remains stamped on
the edge, when it has made one turn.
Only crown and half-crown pieces can bear
the impression of letters on the thickness
of their edges.
The coining engine or mill is so handy
(ibid. N°. 2.) that a single man may
stamp twenty thousand planchetts in one
day: gold, silver and copper planchetts,
are all of them coined with a mill, to
which the coining squares, (ibid. N°. 3.)
commonly called dyes, are fastened;
that
that of the face under, in a square box garnished with male and female screws, to fix and keep it steady; and the other above, in a little box garnished with the same screws, to falten the coining square. The planchet is laid flat on the square of the effigy, which is dormant, and they immediately pull the bar of the mill by its cords, which causes the screw set within it to turn. This enters into the female screw, which is in the body of the mill, and turns with so much strength, that by pushing the upper square upon that of the effigy, the planchet, violently pressed between both squares, receives the impreffion of both at one pull, and in the twinkling of an eye.

The planchet thus stamp'd and coined, goes through a final examination of the mint-warden, from whose hands it goes into the world.

In the Coining of medals, the process is the same, in effect, with that of money; the principal difference consisting in this, that money having but a small relievo, receives its impreffion at a single stroke of the engine; whereas for medals, the height of their relievo makes it necessary that the stroke be repeated several times: to this end, the piece is taken out from between the dyes, heated, and returned again; which proceeds in medallions and large medals, is repeated fifteen or twenty times before the full impreffion be given: care must be taken that every time the planchet is removed, to take off the superfluous metal, stretched beyond the circumference, with a file. Medallions, and medals of a high relievo, are usually first cast in sand, by reason of the difficulty of Hemping them in the press, where they are put only to perfect them; in regard the sand does not leave them clear, smooth, and accurate enough. Therefore we may see that medals receive their form and impreffion by degrees, whereas money receives them all at once.

British Coinage, both by the beauty of the engraving, and by the invention of the impreffions on the edges, that admirable expedient for preventing the alteration of the species, is carried to the utmost perfection.

It was only in the reign of king William III. that the hammer-money ceased to be current in England, where till then it was struck in that manner, as in other nations. Before the hammer species was called in, the English money was in a wretched condition, having been filed and clipped by natives as well as foreigners, inasmuch, that it was scarce left of half the value: the retrieving this disreputable state of the English money, is looked upon as one of the glories of king William's reign.

The British coinage is now wholly performed in the Tower of London, where there is a corporation for it, under the title of the mint. Formerly there were here, as there are still in other countries, the rights of feinorage and braffage; but since the eighteenth year of king Charles the second, there is nothing taken either for the king, or for the expences of coinage; so that weight is returned for weight, to any person who carries their gold and silver to the Tower.

The species coined in Great-Britain, are esteemed contraband goods, and not to be exported. All foreign species are allowed to be sent out of the realm, as well as gold and silver in bars, ingots, dutt, &c.

There is a duty of ten shillings per ton on wine, beer, and brandy imported, called the coinage-duty, granted for the expence of the king's coinage.

Barbary Coinage, particularly that of Fez and Tunis, is under no proper regulations, as every goldsmith, jew, or even private person, undertakes it at pleasure; which practice renders their money exceeding bad, and their commerce very unsafe.

Muscovite Coinage. In Muscovy there is no other coin struck but silver, and that only in the cities of Moscow, Novogrod, Twere, and Pleskow, to which may be added Peterburgh, the favourite city of her czarian majesty. The coinage of each of these cities is let out to farm, and makes part of the royal revenue.

Persian Coinage. All the money made in Persia, is struck with a hammer, as is that of the rest of Asia; and the same may be underfoot of America, and the coasts of Africa, and even Muscovy: the king's duty, in Persia, is seven and a half per cent. for all the monies coined, which are lately reduced to silver and copper, there being no gold-coin there, except a kind of medals, at the accession of a new saphi.

Spanish Coinage is esteemed one of the least perfect in Europe. It is settled at Seville and Segovia, the only cities where gold
gold and silver are struck; and yet there is scarcely any state in the world where so much money is coined in, as in that of the king of Spain.

The invention of the mill is not yet gone out of Europe; nor even established in every part of it: nor was the invention known till the year 1553, when the coining mill was first invented by an engraver, one Antoine Brucher, and was first tried in the French king's palace at Paris, for the coining of counters; some attribute the invention of the mill to Varin, a noted engraver, who, in reality, was no more than an improver of it; and others ascribe it to Aubry Olivier, who had the inspection of it.

This machine has met with various fates since its first invention, being one time used, and at another time laid aside, and the hammer resumed: but it has now got such a footing and reputation, both for its expedition, and the beauty of its impression on the species struck with it, that there appears no great probability of its ever being again difused.

Coining, in the tin-works, is the weighing and stamping the blocks of tin with a lion rampant, performed by the king's officer; the duty for every hundred weight being four shillings.

Con-Indications, among physicians, denote signs, which, together with others, serve to indicate or point out the nature of a disease.

Coinus, a name used by some for the porcelain-shell. See Porcelain.

CoiRe, or Chur, the capital of the country of the Grifons, in Switzerland, situated on the river Rhine, fifty-three miles south of Conftance: east long. 9° 25', north lat. 46° 46'.

Cotion, the intercourse between the male and the female in the act of generation. See the article Generation.

Flugs, 'tis observed, are forty days in the act of coition.

It is also related by Bartholine, that butterflies make 130 vibrations with their wings in one act of coition.

Cotion is also sometimes used for the mutual attraction or tendency towards each other, which is found between iron and the magnet.

CoiX, job's tears, in botany, a genus of the monoecia-triandria class of plants; the corolla consists of two valves: the valvulae are ovato-lanceolated, very slender, and of the length of the cup. In the male flowers, the calyx is a glume containing two flowers, and has no awns: in the female, the calyx is the same, and the corolla a glume without any aiiiae. There is no pericarpium; the seed, which is solitary and roundish, is covered by the indurated calyx.

Cokenhausen, a fortress of Livonia, situated on the river Dwina, about thirty-two miles east of Riga: east long. 25°, north lat. 57°.

Colarbasians, in church-hiftory, Christian heretics, in the second century, who maintained the whole plenitude and perfection of truth and religion to be contained in the Greek alphabet, and that it was upon this account that Jesus Christ was called the alpha and omega: they rejected the old testament, and received only a part of St. Luke's gospel, and ten of St. Paul's epistles, in the new.

Colarin, in architecture, the little frize of the capital of the Tuscan and Doric column, placed between the astragal and the annulet: called also hypotrachelium, and sometimes cincture.

Colarina is also used for the orlo or ring on the top of the shaft of the column, next the capital.

Colature, the fame with filtration. See the article Filtration.

Colchester, a large borough town of Essex, situated on the river Coln, twenty miles north-east of Chelmsford, on the road to Harwich; east long. 1°, north lat. 51° 55'.

It sends two members to parliament.

Colchicum, meadow-saffron, in botany, a genus of the hexandria-trigynia class of plants, with a monocotyleden flower, divided into six oblong and erect segments: the fruit is a trilocular capsule, formed of three lobes, and containing a considerable number of roundish and rugose seeds.

The roots of this plant, once esteemed poisonous, are recommended by some in pellitential and putrid cases, the small-pox, purple fever, &c. But great caution ought to be used in administering it.

Colcothar, in pharmacy, a preparation of vitriol calcined to a redness. However, what remains in the long neck, after the distillation of the spirit, is so much better calcined, than any body will be at the pains of doing on purpose; that it is usually preferred, and is the substance kept under this name in the flowers.

Colcothar is also prepared from chalcit, by calcining it to a deep purple colour; in which state it is very frequent in Turkey,
Cold, in medicine, is found to be pro-
morhages pooled in
see regulated with black, white and red;
but greater degrees of it will congeal all
faint motion of
telly.
and, consequently,
organs altogether or nearly imperceptible to our
be
the hot body,
{bould seem to be fomething positive.
and, in
cold
irable organ
is a mere
very considerable
ither
spirits.
What we commonly call catching cold,
kinds of water, even that of the ocean,
bleeding.
and repeated bleeding;
which likewise prove beneficial in coughs
and the confirmed consumption, even af-
ter a purulent spitting, and hectic symp-
toms have appeared. The quantity, to
be taken away at a time, may be from
to four to seven or eight ounces, once in
eight or ten days; concerning which it
is observable, that the patients do not find
themselves so much relieved on the first
as on the second or third night after
bleeding.
What we commonly call catching cold,
may be cured by lying much in bed; by
drinking plentifully of warm sack-wikey,
with a few drops of spirit of hart's-horn,
potset-drink, water-gruel, or any other
warm small liquor. In short, it ought
to be treated at first as a small fever, with
gentle diaphoretics; and afterwards, if
any cough or spitting should remain, by
softening the breath with a little sugar-
candy and oil of sweet almonds, or a
solution of gum ammoniac in barley-
water; taking care to go abroad well
clothed.
This is a much more easy, natural, and
effectual way than the common practice
by balsams, linchuses, pectorals, &c.
which serve only to spoil the stomach,
express the spirits, and hurt the con-
istution.
Coldenia, in botany, a genus of the
tetrandria-tetragynia class of plants,
the flower of which consists of four infundi-
buliform or funnel-like petals; and the
fruit is composed of four seeds.
Cold-finch, a bird nearly allied to the
eenanthe, and common about the peak
of Derby. See the article Oenanthe.
Coldsire-iron, that which is brittle
when cold. See the article Iron.
Cold-fish, the English name of a species
of beardless gadus, with three back-fins,
and the lower jaw longeet. See Gadus.
Cold-mouse, in ornithology, the smallest
of the parus, or titmouze-kind. See
the article Parus.
Coleoptera, among zoologists, an
order of insects, comprehending all those
with four wings, the external pair of
which are hard, rigid, and opaque, and
form a kind of case for the interior pair;
add to this, that the mouth consists of two
transverse jaws.
These animals are known, in English,
by the general name of beetles; whereas
authors have established a great many
genera, from the different figures of their
antenne, or horns, and other general
distinctions; such are the scarabeus,
or beetle properly so called, the dermefes,
caffida, cocinella, chrysomela, dyticus,
blatta, tenebrio, and several other genera.
See Scarabeus, Dermestes, &c.
Cole-seed, the seed of the napus sativia,
or long-rooted, narrow-leaved rapa,
called, in English, navev, and compre-
hended by Linneus among the brassicas,
or cabbage-kind. See Brassoica.
This plant is cultivated to great advan-
tage in many parts of England, on ac-
count of the nape-oil expressed from its
seeds. It requires a rich and strong soil,
especially in marsh or feney lands, those
newly recovered from the sea, or indeed
any other land that is rank and fat, whe-
ther arable or pasture. The best feeds are brought from Holland, and should be sown about Midsummer, the very day that the land is plowed: a gallon will serve an acre.

Besides the oil already mentioned, it is likewise cultivated for winter-food to cattle, and is a very good preparative for land for barley or wheat.

COLETRIS, in geography, the modern name of Mengrelia. See MENGRELIA.

COLE-WORT, in gardening a species of brassica. See BRASSICA.

COLIAS, in ichthyology, a name used by the antients for the scomber. See the article SCOMBER.

COLIC, in medicine, a severe pain in the lower venter, so called, because the disorder was formerly supposed to be seated in the colon.

As the small and great intestines differ with respect to their contexture, capacity, function and situation, so the pains which affect them are no less distinguished by the places where they are felt, their degree of violence, their danger, and other preceding disorders. It is observed, that pains in the small intestines, are far more severe and acute than in the great ones. This is abundantly evident, from the effects of strong cathartics, and potions of a caustic quality, in exciting most severe griping and racking pains, above and below the navel, as well as in the middle of the belly.

Most physicians take the whole regions of the intestines for the seat and subject of this pain; yet so, as that when one part of it is affected in an extraordinary manner, the whole intestinal tube, from the fauces to the anus, suffers by consent; or the preternatural motions, and even the inversions and injuries of the peristaltic motion, are communicated to all the rest in such a manner, that, if the cause of the disease be very considerable, the whole nervous system is at the same time affected to an extraordinary degree.

There are different causes of these severe pains of the intestines, and according to the nature, disposition, and force of these causes, are the symptoms diversified, and the danger more or less to be apprehended. A very frequent cause is a retention and induration of the feces in the large intestines, and sometimes in the small ones, proceeding, in a great measure, from a load of acido-vitiæ crudities, dry, juiceless, and astringent food, immoderate sleep, and a way of life unused to exercise and motion. In this obstructed and colitive state of the belly, whenever it happens, that, upon the use of sweet agreeable, and such as are subject to ferment, of fat flesh meat, especially mutton, with drinking of cool liquors, and refrigeration of the feet and belly, the inflation of the abdomen is increased, and the pain exasperated: hence we may direct the nature and marks of the flatulent colie, which the antients ascribed to a cold cause, and whose generation and frequent attacks suppose an imbecility of the intestines, and a want of due tone and strength in those parts; whence this sort of colic is very incident to fat and phlegmatic, as well as old and infirm persons, especially if they take not due care to keep the cold from their feet, back and belly.

Another kind of colic is the bilious, which, according to the antients, owes its original to a hot cause, and arises from a bilious, acid, corrupted humour, collected in too great plenty, and stagnating in the small intestines, particularly the duodenum. It frequently succeeds a great fit of anger, especially in persons of a hot and dry constitution, in a hot season; or it proceeds from an excessive use of hot and spirituous liquors, and by cooling potions, which obstructs perspiration, is exasperated, and rages with greater violence. The remarkable symptoms which attend it, are a hoarseness of the voice, the heart-burn, a continual loathing of food, a vomiting of porridges, and great fits of anger, which attend it, are a hoarseness of the voice, the heart-burn, a continual loathing of food, a vomiting of porridges, and great fits of anger, which, according to the antients, is at the time infalubrious, and the feet affected to an extraordinary degree.

As to the method of cure, it appears from what has been said, that the causes of this affection are surprisingly various; and it may be inferred, that the manner of treatment ought to be varied in a way suitable to the difference of the causes, whence the pain of the intestines proceeds.

When from a suppression of the customary flux of the haemorrhoids, or menses, especially in bodies abounding with blood, there arises a violent pain of the abdomen, attended with much heat, &c. a vein should be opened in the foot, then emollient Clysters, antispasmodic powders, with a small portion of nitre, cinnabar, and caltum should be used, and the feet bathed; and, under a remission of the fit, care should be taken to restore the

menstrual

C O L [ 649 ]

C O L
menes in women, and the hemmorholds in men, to their natural courtes. When the pain of the intestines proceeds from a redundance of intertemperate and caustic bile, the same remedies are of service. But what exceeds these and all other remedies in this case, is a nitrous mixed with a drop of oil of milliolum, to be taken in three or four ounces of the water of common chamomile-flowers.

If the pain be tenitive, and fixed in the right or left hypochondrium, or beneath the flomach, it is a sure sign that the disorder proceeds from flatulencies, or excrements inclosed within the flexures of the colon. In this case, the principal indication directs us to the use of clysters of an emollient, diffusive, and corroborating quality, not omitting external applications of carminative and emollient liniments to the affected part.

When the rectum and part of the colon are affected with a strong convulsive sticture, so as to be incapable of transmitting either stitus or feces, and a clyster cannot conveniently be introduced, the abdomen is to be fomented, all over, with hot and rich oils, by coction, particularly those of chamomile, dill, or rue, boiled with the fats of a badger, dog, fox, beaver, &c. which may be introduced, if possible, into the belly by clysters.

A flatulent colic, proceeding from impellability, and want of a due tone of the stomach and intestines, admits of the use of carminative things somewhat hotter than ordinary. Among these are spirituous carminative waters, prepared of the seeds of cumin and caraway, orange-peel, and the flowers of common roman chamomile and cardamums, distilled in wine.

Colic-shell, a name given to the concha veneris, or porcelain-shell, on account of its pretended efficacy in curing the colic.

Colins, or Acolin. See Acolin.

Coliphium, in antiquity, bread mixed with new cheese and roasted flesh, a composition which Pythagoras recommended to the use of wrestlers, in order to make them strong and firm fleshed, whereas formerly they used figs.

Colir, an officer in China, who may properly be called an inspeetor, having an eye over what passes in every court or tribunal of the empire; and though he is not of the number himself, yet he affists at all assemblies, the proceedings whereof are communicated to him.

In order to render him impartial, he is kept independent, by having the post for life. The power of the colins is such, that they make even the princes of the blood tremble.

Coliseum, or Coliseum, in antient architecture, an oval amphitheatre at Rome, built by Vespasian, wherein were statues set up, representing all the provinces of the empire: in the middle whereof stood that of Rome, holding a golden apple in her hand. This structure was so large, that it would hold near 100,000 spectators. When Titus dedicated it, he sacrificed above 4000 beasts of different kinds.

Colites, in natural history, a name given by some writers to a kind of pebble, found in the shape of the human penis and testes, and that either separately, or both together. See Pebble.

Collar, collare, in roman antiquity, a sort of chain put generally round the neck of slaves that had ran away, after they were taken, with an inscription round it, intimating their being defeters, and requiring their being restored to their proper owners, &c.

Collar, in a more modern sense, an ornament consisting of a chain of gold, enamelled, frequently set with cyphers or other devices, with the badge of the order hanging at the bottom, wore by the knights of several military orders over their shoulders, on the mantle, and its figure drawn round their armories.

Thus, the collar of the order of the garter consists of S, with roses enamelled red, within a garter enamelled blue, and the George at the bottom.

Lord mayor's collar is more usually called chain. See the article Chain.

Knights of the Collar, a military order in the republic of Venice, called also the order of St. Mark, or the medal. It is the doge and the senate that confer this order; the knights bear no particular habit, only the collar, which the doge puts around their neck, with a medal, wherein is represented the winged lion of the republic.

Collar of a fish; a rope fastened about her beak-head, into which the dead man's eye is seized, that holds her main stay.

Also the rope which is wound about the main-mast head, to save the shrouds from galling, is also called a collar.

Collar-beam, in architecture, a beam flasted cross betwixt two principal rafters.
Collar of a plough, an iron ring fixed on the middle of the beam, wherein are inserted the tow and bridle chains. See the article Plough.

Collar of a draught horse, a part of harness made of leather and canvas, and stuffed with straw or wool, to be put about the horse's neck.

Collarage, a tax or fine laid for the collars of wine-drawing horses.

Collateral, in geography, any thing, place, country, &c. situated by the side of another.

Collateral point, in cosinography, the intermediate points of those between the cardinal points.

The collateral points are either primary, which are those removed by an equal angle on each side from two cardinal points; or secondary, which, again, are either those of the first or second order. The first are those that are equally distant from a cardinal point, and first primary; the latter equally distant from some cardinal and primary, and first secondary.

Collateral winds, are those blowing from collateral points. See Wind.

Collateral, in genealogy, those relations which proceed from the same line, but not in the same line of ascendants or descendants, but being, as it were, aside of each other.

Thus uncles, aunts, nephews, nieces and cousins, are collaterals, or in the same collateral line: those in a higher degree, and nearer the common root, represent a kind of paternity with regard to those more remote.

Collateral, in a legal sense, is taken for any thing that hangs by the side of another, whereof it relates, as a collateral assurance is that instrument which is made over and above the deed itself, for the performance of covenants between man and man; thus called as being external, and without the nature and essence of the covenant.

Collation, in the canon law, the giving or bestowing of a benefice on a clergyman by a bishop, who has it in his own gift, or patronage.

This differs from presentation, in that the latter is properly the act of a patron, offering the clerk to the bishop, to be instituted into a benefice, whereas the former is the act of the bishop himself. The collator can never confer a benefice on himself.

Antiently, the right of presentation to all churches was in the bishop; and now, if the patron neglects to present to the church, his right returns to the bishop by collation. If the bishop neglects to exercise his right of collation in six months, the archbishop may confer. If he neglect it for other six months, it falls to the crown.

In the roman church, the pope is the collator of all benefices, even eleidive ones, by prevention; setting aside confi­dorial benefices, and those in the nomination of lay-patrons. In France, the king is collator of all the benefices, whereof he is patron, except confi­dorial ones, to which he has only the nomination; and the pope, by virtue of the con­co. tat, is obliged to confer on whomsoever he assigns to the king.

Collation is also used in the roman church, for the meal or repast made on a fast day.

Collation, in common law, the comparison or presentation of a copy to its original, to see whether or not it be conformable; or the report or act of the officer who made the comparison. A collated act is equivalent to its original, provided all the parties concerned were present at the collation.

Collation is also vulgarly used for a repast between dinner and supper.

Collationem facta uni post mortem alterius, a writ to the justices of the common pleas, commanding them to issue their writ to the bishop, for the admitting of a clerk in the place of another presented by the king; such other clerk, during the suit between the king and the bishop's clerk, being dead.

Collationem hermitagii, in antient statutes, a writ whereby the king conferred on a clerk the keeping of an hermitage.

Collative benefices, are those which are in the gift of the ordinaries, and within their own jurisdiction, in which case there need no presentation, but the ordinary collates or institutes the clerk, and sends him to the archdeacon, or other person, whose office it is to induct him.

Collague, a partner or associate in the same office or magistrature. See the article Adjunct.

Collect, or Collection, a voluntary gathering of money, or a tax raised by a prince for any pious design, or charitable purpose.

Collects, in an ecclesiastical sense, the short prayers into which the public devotions of the church are divided.

In the primitive church, the collects were 402 repeated.
COL [652] COL

repeated by the bishop alone, after the joint prayers of the deacon and congregation; they were called by the Greeks Ἐκκλησίαι, because they were a direct invocation of God by way of benediction, and not an exhortation to pray, which was the office of the deacon. That most of the colleges of the liturgy of the church of England are very antient, appears from their conformity to the epistles and gospels, which are thought to have been selected by St. Jerom; for which reason, many believe that the colleges were likewise first framed by that father. In the year 492, Gelanius, bishop of Rome, ranged the colleges, which were then used, into order, and added some new ones of his own; which office was again corrected by pope Gregory the great, whose sacrament contains most of the colleges we now use; but our reformers examined the colleges, corrected them, and restored several old ones, formerly left out.

COLLECTION, in logic, a term used by some for what is generally called syllogism. See the article SYLLOGISM.

COLLECTIVE, among grammarians, a term applied to a noun expressing a multitude, though itself be only singular; as an army, company, troop, &c. called collective nouns.

COLLECTOR, in general, denotes a person who gets or brings together things formerly dispersed and separated. Hence,

COLLECTOR, in matters of civil polity, is a person appointed by the commissioners of any duty, the inhabitants of a parish, &c. to raise or gather any kind of tax.

COLLECTOR, among botanists, one who gets together as many species of any kind of plant as he can, without studying botany in a scientific manner.

COLLEGATARY, in the civil law, a person who has a legacy left him in common with one or more other persons. If the thing be bequeathed in solido, the portion of the deceased collegatory accrues to the rest.

COLLEGE, collegium, an assemblage of several bodies or societies, or of several persons into one society.

College, among the Romans, served indifferently for those employed in the offices of religion, of government, the liberal and even mechanical arts and trades; so that, with them, the word signified what we call a corporation or company.

Each of these colleges had distinct meeting-places or halls; and likewise, in imitation of the state, a treasury and common chest, a regifter, and one to represent them upon public occasions, and acts of government. These colleges had the privilege of manumitting slaves, of being legates, and making by-laws for their own body, provided they did not clash with those of the government.

There are various colleges on foot among the moderns, founded on the model of those of the antients. Such are the three colleges of the empire, viz. COLLEGE OF ELECTORS, or their deputies, assembled in the diet of Ratibon.

COLLEGE OF PRINCES, the body of princes, or their deputies, at the diet of Ratibon.

COLLEGE OF CITIES, is, in like manner, the body of deputies which the imperial cities send to the diet. See ELECTOR and DIET.

COLLEGE OF CARDINALS, or the sacred COLLEGE, a body composed of the three orders of cardinals. See CARDINAL.

College is also used for a public place endowed with certain revenues, where the several parts of learning are taught. An assemblage of several of these colleges, constitutes an university. The erection of colleges, is part of the royal prerogative, and not to be done without the king's licence.

The university of Oxford consists of nineteen colleges, and fix halls; that of Cambridge, of twelve colleges, and four halls; and that of Paris, of fifty-four colleges, though, in reality, there is but ten where there is any teaching. There were several colleges among the Jews, confounding generally of the tribe of Levi. The prophet Samuel seems to have made the use of them more public, and brought them under several regulations: he is said to have founded the college of the prophets, &c.

As for the colleges of the christians, the apostles and seventy disciples, may not improperly be said to be the first: afterwards St. Mark, the evangelist, is said to have set up a public school for reading, instruction, and interpretation of scripture at Alexandria. This school produced a great many persons eminent for their learning, as Clemens, Origen, Dionysius, Athanasius, &c.

Among the Greeks, the Lyceum and Academy, were celebrated colleges: the latter of which has given its name to our universities, which in Latin are called academiae.
This college has several great privileges granted by charter and acts of parliament. No man can practice physic in, or within seven miles of London, without license of the college, under the penalty of 5l. Also, persons practicing physic in other parts of England, are to have letters testimonial from the president and three electors, unless they be graduate physicians of Oxford or Cambridge. Every member of the college, is authorized to practice surgery in London or elsewhere; and that they may be able at all times to attend their patients, they are freed from all parish offices.

The college is governed by a president, four censors, and twelve electors. The censors have, by charter, power to survey, govern, and arrest all physicians, or others, practising physic in or within seven miles of London; to fine, apprehend, and imprison them at discretion; to search apothecaries' shops, &c. in and about London; to see if their drugs, &c. be wholesome, and the compositions according to the form prescribed by the college in their dispensatories; and to burn, or otherwise destroy, those that are defective or decayed, and not fit for use. They are judges of record, and not liable to action for what they do in their practice but by judicial powers; subject nevertheless to appeal to the college of physicians. However the college is not very rigorous in asserting its privileges, there being some of very good abilities who practice in London, &c. without their license; yet, by law, if any person, not expressly allowed to practice, take upon him the cure of any disease, and the patient die under his hand, it is deemed felony in the practitioner.

In 1696, forty-two members of the college made a subscription, to let on foot a dispensary for the relief of the sick poor, who are advised gratis every day, but Sunday, and medicines sold at the intrinsic value; since this they have erected two other dispensatories.

Sion-College, or the college of the London clergy, was formerly a religious house, next to a, spiritual, or hospital, and now tis a composition of both, viz. a college for the clergy of London, who were incorporated in 1631, at the request of Dr. White, under the name of the president and fellows of Sion-college; and an hospital for ten poor men, the first within the gates of the house, and the latter without.
COLLEGE

This college consists of a president, two deans, and four assistants, who are annually chosen from among the rectors and vicars in London, subject to the visitation of the bishop. They have one of the finest libraries in England, built and stocked by Mr. Simpson, chiefly for the clergy of the city, without excluding other students on certain terms; they have also a hall with chambers for the students, generally filled with the ministers of the neighbouring parishes.

Gresham-College, or College of philosophy, a college founded by Sir Thomas Gresham, who built the Royal-exchange; a moiety of the revenue whereof he gave in trust to the mayor and commonalty of London, and their successors, for ever, and the other moiety to the company of mercers; the first, to find four able persons to read in the college divinity, astronomy, music, and geometry; and the last, three or more able men to read rhetoric, civil law, and physic; a lecture upon each subject is to be held in term-time, every day, except Sundays, in Latin, in the forenoon, and the same in English in the afternoon; only the music lecture is to be held alone in English. The lecturers have each 50s. per annum, and a lodging in the college.

In this college formerly met the royal society, that noble academy, celebrated throughout the world for their improvements in natural knowledge. See the article Society.

College of heralds, commonly called the heralds office, a corporation founded by charter of king Richard the third, who granted them several privileges, as to be free from subsidies, tolls, offices, &c. They had a second charter from king Edward the sixth, and a house built near Doctors-commons, by the earl of Derby, in the reign of king Henry the seventh, was given them by the duke of Norfolk, in the reign of queen Mary, which house is now rebuilt.

This college is subordinate to the earl marshal of England. They are assistants to him in his court of chivalry, usually held in the common hall of the college, where they sit in their rich coats of his majesty's arms. See Herald.

Colleges of common law. See the article Inns of court and chancery.

Besides these colleges, we have three charitable foundations for learning, called colleges, viz. Winchester, Eaton, and Westminster. See the article School.

Colleges for disabled soldiers, sailors, &c. See the article Hospital.

Collegial, or Collegiate. See the article Collegiate.

Collegians, in church-history, religious societies, or clubs, among the Dutch, consisting of persons of various professions, but all agreeing that the scriptures are the writings of men inspired.

These meetings are established in several towns of Holland, Friesland, west Friesland, and particularly at Rintburg, a village near Leyden, where they meet twice a week. In these clubs every one has a right to speak his own sentiments, whether he be a churchman or a layman.

Collegiate churches, those which tho' no bishop's see, yet have the retinue of the bishop, the canons and prebends. Such are, among us, Westminster, Windfor, Rippon, Wolverhampton, Southwell, Manchester, &c. governed by deans and chapters. See the articles Dean and Chapter.

There are two kinds of these collegiate churches, some of royal foundation, others of ecclesiastical foundation; each of them, in matters of divine service, are regarded in the same manner as cathedrals.

There are even some collegiate churches which have episcopal rights; some of these churches were antiently abbeys, which in time were secularized.

Collegiate auditors. See the article Auditor.

Verger of Collegiate churches. See the article Verger.

Collet, among jewelers, denotes the horizontal face or plane at the bottom of brilliants. See the article Brilliant.

Collet, in glass-making, is that part of glass vessels which sticks to the iron instrument wherewith the metal was taken out of the melting-pot: these are afterwards used for making green glass.

Colletics, colletica, in pharmacy and surgery, denote much the same with glutinants or vulneraries. See the article Vulnerary.

Colliflower, or Cauliflower. See the article Cauliflower.

Collinsonia, in botany, a genus of the diandra-monogyria class of plants, whose corolla consists of a single, unequal petal; the tube is of a conico-cylindrical shape, and is much larger than the cup; the limb is quadrifid and erect; one of the segments very long, and divided
vided to the middle into other smaller, ramose and capillary laciniæ: the segment opposite to this is very small, emarginated and acute; the lateral ones are opposite to one another, and are erect, entire, and very small.

There is no pericarpium: (that ever Linneus observed) the seed is tinge, of a globular figure, and is contained in the bottom of the cup.

**COLLIQUAMENTUM**, in natural history, an extreme transparent fluid in an egg, observable after two or three days incubation, containing the first rudiments of the chick. It is included in one of its own proper membranes, distinct from the albumen. Harvey calls it the oculus.

**COLLIQUATION**, in chemistry, is applied to animal, vegetable, and mineral substances, tending towards fusion. See the article **Fusion**.

**COLLIQUATION**, in physic, a term applied to the blood, when it loses its crystals or balsamic texture; and to the solid parts, when they waste away, by means of the animal fluids flowing off through the several glands, and particularly those of the skin, fatter than they ought: which occasions fluxes of many kinds, but mostly profuse, greasy, and clammy sweats.

The curative intention in this cafe is, the giving a better confidence by balsamics and agglutinants, and the hardening of the fluids by subafringents.

**COLLIQUATIVE FEVER**, in physic, a fever attended with a diarrhoea, or profuse sweats, proceeding from colliquation. See **COLLIQUATION**.

**COLLIQUEUM**, or **COLLISEUM**. See the article **COLLISEUM**.

**COLLISSION**, the striking of one hard body against another; or the friction or percussion of bodies moving violently with different directions, and dashing against each other. See **Percussion**.

**COLLURIO**, in ornithology, a name by which some call the lanius, or butcher-bird.

**COLLUSION**, in law, a secret understanding between two parties, who plead or proceed fraudulently against each, to the prejudice of a third person.

In the canon law, collusion in matters of benefices vacates the benefice, and incapacitates the person from holding any benefice at all.

**COLLUM**, the name with neck. See the articles **NECK** and **CERVIX**.

**COLLUTHIANS**, in church-history, a religious sect which arose in the sixth century, on occasion of the indulgence shewn to Arius by Alexander, patriarch of Alexandria; they held that God was not the author of the evils and afflictions of this life, &c.

**COLLYBUS**, in antiquity, the name with what we call the rate of exchange. See the article **EXCHANGE**.

**COLLYRIDIANS**, in church-history, a sect of antient heretics, who paid divine honours to the virgin Mary, offering her little cakes called collyridia.

**COLLYRIUM**, in pharmacy, a topical remedy for disorders of the eyes; designed to cool and repel hot, sharp humours, which they do more effectually, if assisted by the inward use of diuretics at the same time.

They are generally of two kinds, the one liquid, and the other dry: liquid collyrias are composed of ophthalmic powders in waters, as rose-water, plai- tain-water, or that of fennel, eye-bright, &c. wherein turty, white vitriol, or some other proper powder is dissolved.

The dry collyrium is troches of rhaphe, sugar-candy, tatty prepared, &c. blown into the eye.

**COLLYRIUM SAMIUM**, the fame with the white samian earth. See the article **SAMIAN EARTH**.

**COLOCASIA**, in botany, a name sometimes given to the great egyprian arum. See the article **ARUM**.

**COLOCYTHUS**, in botany, the plant which produces the coloquintida of the shops, and usually called bitter-apple: this, according to Tournefort, makes a distinct genus, but is comprehended by Linneus under the cucumis, or cucumber-kind. See the articles **CUCUMIS** and **COLOQUINTIDA**.

**COLOGNE**, the capital of the circle of the lower Rhine, in Germany, situated on the Rhine, about forty-five miles east of Maeftricht: east long. 6° 40', north lat. 50° 50'.

It is one of the largest and most elegant cities of Germany, being the see of an archbishop, who is one of the electors of the empire, and has a yearly revenue of 130,000 l. sterling.

**COLOGNE-EARTH**, a kind of very light baffard ochre, of a deep brown colour.

**COLON**, in anatomy, the second of the three large intestines, called intestina crassa.
The situation of this is at the circumference of the small intestines, and is usually convoluted and flexuous, variously, in a strange manner. Its beginning is above the termination of the ilium, and its end at the os facrum. It is connected with the os ili, the right kidney, the gall-bladder, the liver, the stomach, the spleen, and finally with the left kidney. Its length is from five to seven spans; its diameter is the greatest of that of any intestine. It has three ligaments terminating in the vermiform processes that runs longitudinally in it. It has also certain external adipose appendicula, which serve to lubricate it. The con
diverticula valves are larger in this than in any other of the guts, and the coats it is composed of are stronger than in the small guts.

**Colon**, in grammar, a point or character marked thus; (_) shewing the preceding sentence to be perfect or entire; only that some remark, farther illustration, or other matter connected therewith, is subjoined.

See **Pointing, Period, Coma**, &c. According to a late ingenious author, the colon differs from the semicolon, &c. in serving to distinguish those conjunct members of a sentence which are capable of being divided into other members; whereas one, at least, is conjunct.

**Colonel**, in military matters, the commander in chief of a regiment, whether horse, foot, or dragoons. A colonel may lay any officer of his regiment in arrest, but must acquaint the general with it; he is not allowed a guard, only a sentry from the quarter-guard.

**Colonel-Lieutenant**, he who commands a regiment of guards, whereof the king, prince, or other person of the first eminence, is colonel. These colonels-lieutenants have always a colonel's commission, and are usually general officers.

**Lieutenant-Colonel**, the second officer in a regiment, who is at the head of the captains, and commands in the absence of the colonel.

**Colonna**, a town of Italy, in the campagna of Rome, eighteen miles eastward of that city: east long. 13° 15', north lat. 42°.

**Colonnade**, in architecture, a per
tyle of a circular figure; or a series of columns disposed in a circle, and infuated within side. See **Peristyle**.

Such is that of the little park at Ver-

**Colony**, a company of people transplanted into a remote province, in order to cultivate and inhabit it. Colonies are of three sorts: the first are those that serve to police and discharge the inhabitants of a country, where the people are become too numerous; the second are those established by victorious princes in the middle of vanquished nations, to keep them in awe and obedience; and the third sort are those established for the promotion of trade, called colonies of commerce; such are those established by European nations in several parts of Asia, Africa, and America.

It has been a matter of doubt with some, whether our colonies in America have not proved prejudicial to Great Britain. "Tis agreed, that their colonies in America have proved highly detrimental to the Spaniards: owing to the nature of their government; as the inquisition frights away strangers; as their mona
dy, prevent marriages; and as there is no provision at all to repair what their colonies drain them of; whereas the Hollanders, who send out greater numbers every year than the Spaniards, are not depopulated by it: their constitution inviting more over to them than they send abroad; and in the British colonies, all foreigners may be made denizens, for an inconsiderable charge; whereby many of all nations are encouraged to settle and plant in our Indies, whence the crown gains subjects of them and their posterity, and to the nation accrues wealth by their labour and industry. There is reason to think that, for some years, the plantations have sent of their off
ing, and the perfections abroad have brought us as much people as the colonies have drained us of. Wherefore we may safely advance, that our trade and navigation are greatly increased by our colonies; and that they really are a source of treasures and naval power to this kingdom, since they work for us, and their treasures center here. See the article **Plantation**.
COLOPHONY, in pharmacy, black resin, or turpentine, boiled in water, and afterwards dried; or which is still better, the caput mortuum remaining after the distillation of the ethereal oil, being further urged by a more intense and long continued fire.

When colophony, thus prepared, is treated with a fire of suppuration, it yields a thick oil along with a heavy, acid water, which discovers the nature and genuine properties of a resin. Whatever virtues therefore colophony is possested of, may be ascribed to the energy of these two principles, combined and blended into one common substance. Colophony reduced to powder, is of singular advantage in surgery, in cases where the bones are laid bare, or the periosteum, tendons and muscles injured by burns, corrosions, contusions, punctures, lacerations, or partial divisions. It also prevents defluxions of serum on the joints, and induces cicatrices, and checks the fungous excrescences of ulcers, if applied in the same manner. Befides its drying, consolidating, and lenitive qualities, it is an ingredient in several plasters and ointments.

COLOQUINTIDA, COLOCYNTH, colo-cynthis, in pharmacy, the fruit of the plant colocynthis. See COLOCYNTHIS. It is sent to us dried, or cleansed of its cinere, the tough, and of the thickness of a thilling, It is remarkable that this milk is an infipid, inodorous liquor, not at all ent magnitude from the earliell:times as one of the strongest of the viscera, and terrible of the worst kinds, obstructions of the vifera, and terrible cutaneous foulnesses; as also in dropgeries, with great success: but it is to be given with great caution. In large doses it is so violent in its operation, that it has like to have been excluded the materia medica as a poison. If it brings an hypercatharisis and convulsions, the readiest way of relieving the patient is by giving oil in considerabe quantities, as well by the mouth, as in clysters. It is scarce ever prescribed singly, at this time. It is an ingredient in the pillulae cocceae, and, though in a very large proportion, is never found to do any hurt there.

COLOR, COLOUR. See COLOUR.

COLORATION. See COLORIZATION.

COLORATURA, in music, denotes all manner of variations, trill os, diminutions, &c. serving to make a long agreeable. See the article COLORABASANS.

COLORIZATION, or COLORATION, in pharmacy, a term sometimes used for the changes of colour which bodies undergo, whether by calcination, coction, fermentation, &c.

COLOSSUS, a statue of a gigantic, or enormous size.

The most famous of this kind was the colossus of Rhodes, made, in honour of Apollo, by Chares the disciple of Lytippus. It was eighty-six feet high, and its thumb so large, that few people could fathom it. This statue was placed across the mouth of the harbour at Rhodes, and the ships with full sails passed between its legs.

COLOSTRUM, or COLOSTRA, in medicine, the first milk of any animal after bringing forth young, called beettlings. It is remarkable that this milk is generally cathartic, and purges off the meconium; thus serving both as an aliment and medicine.

An emulsion prepared with turpentine, dissolved with the yolk of an egg, is sometimes called by this name.

COLOUR, COLOR, in physiology, an inherent property in light, exciting different vibrations, according to the different magnitude of its parts, in the fibres of the optic nerve, which being propagated to the seniourium, affect the mind with different sensations: or, according to others, it is only the reflection of light, variously changed by opaque bodies, or even light itself.

The philosophers before Sir Isaac Newton's time supposed that all light, in passing out of one medium into another of different density, was equally refracted in the same or like circumstances: but that great philosopher hath discovered, that it is not so; but "that there are " different species of light; and that " each species is disposed both to suffer a " different degree of refrangibility in
There are several experiments made which shew that the dispositions of the rays of light, to produce some one colour; and some another, are not wrought by any action of the prism upon them, but are originally inherent in those rays; and that the prism only affords each species an occasion of shewing its distinct quality, by separating them, one from the other, which before, while they were blended together in the unrefracted light of the sun, lay concealed. See Light, Reflection, Refraction, and Ray.

From this doctrine it is clear, that each species of rays is disposed to excite in us the idea of a different colour; and that this is the case, is confirmed by what follows, viz. That whatever species of rays are thrown upon any body, they make that body appear of their own colour. Thus minium in red light, appears of its own colour; but in yellow light, it appears yellow; and in green light, it appears green; in blue, blue; and in violet-purple coloured light, it appears of a purple colour. In like manner verdigras will put on the appearance of that colour in which it is placed: but each of these bodies appears most luminous and bright when enlightened with its own colour, and dimmest in such as are most remote from that. 'Tis certain, therefore, that each ray is disposed to excite its own colour, which is neither to be altered by refraction nor reflection.

This much in confirmation of the first part of the proposition; and now we proceed to the second part, viz. That bodies appear of that colour, which results from a composition of those colours, which the several species they reflect are disposed to excite. We will therefore proceed to shew, that other colours may be produced from a mixture of those seven already mentioned, which rays of light, when separated by a prism, are disposed to exhibit. From whence it will be rational to conclude, that bodies appear of that colour, which arises from the mixture of those which they reflect.

All the prismatic colours mixed together appear white, a little inclining to yellow, such as is that of the light of the sun. To shew this, let a convex lens be placed between the prism and the paper which receives the image; (id. ibid.) in order that the rays separated by it may be collected into a focus; and let the focus fall upon the paper: then will the spot where it falls, appear white; and
and if we remove the paper from the focal point, the same coloured image will be exhibited, but inverted, because the rays cross each other in the focus. But if the rays of any particular colour be intercepted before they are collected in the said spot, it then not only appears of a different colour from what it did before, but different from any of the prismatic colours taken separately. No composition of these colours will produce black; that being no colour, but the defect or absence of all colour whatever. What it is gives bodies this power of reflecting some one sort of rays most copiously, and some another, is probably nothing else than the different magnitude of the particles whereof they are composed: this sir Isaac Newton thinks a probable ground for conjecturing about the magnitude of the constituent particles of bodies. The green of vegetables he takes to be of the third order, as likewise the blue of syrup of violets: the azure colour of the sky he takes to be of the first order, as also the most intense and luminous white; but if it is less strong, he then conjectures it to be a mixture of the colours of all orders. Of the latter sort he takes the colour of linnen, paper, and such like substances to be; but white metals to be of the former sort. For producing black, the particles must be smaller than for exhibiting any of the colours. But that some bodies reflect one sort of rays most copiously, and some another, from no other reason than the different magnitude of their constituent particles, will appear hence:

If water be prepared with soap, so as to render it sufficiently tenacious, and then blown up into a bubble, it is observable, that as the bubble grows thinner and thinner (as it will do by reason of the water's continually running down from the top of it, till it breaks) different colours will arise, one after another, at the top of the bubble, spreading themselves into rings, and depending till they vanish at the bottom, in the same order they rose at the top. Thus, in an experiment of this kind, tried by sir Isaac Newton, the colours arose in this order, first red, then blue; to which succeeded red a second time, and blue immediately followed; after that, red a third time, succeeded by blue; to which followed a fourth red, but succeeded by green; after this a more numerous order of colours, first red, then yellow, next green, and after blue; and at last purple; then again red, yellow, green, blue, and violet followed each other; and the last order of colour that arose was red, yellow, white, and blue; to which succeeded a dark spot that afforded scarce any light, though it was observed to cause some very obscure reflection, for the image of the sun or candle might be faintly discerned in it; and this last spot spread itself more and more till the bubble broke.

Colour, in painting, is applied both to the drugs, and to the tints produced by those drugs variously mixed and applied. The principal colours used by painters are red and white lead, or cerufs; yellow and red ochres; several kinds of earth, umber, orpiment, lamp-black, burnt umber, black lead, cinnabar or vermilion, gumboze, lacc, blue, and green athes, verdigris, bitre, bice, smalt, carmine, ultra marine: each of which, with their uses, &c. are to be found under their proper articles. Of these colours some are used tempered with gum-water, some ground with oil, others only in fresco, and others for miniature.

Painters reduce all the colours they use under these two classes, of dark and light colours: dark colours are black, and all others that are obscure and earthy, as umber, bitre, &c. Under light colours are comprehended white, and all that approach nearest to it. Painters also distinguish colours into simple and mineral. Under simple colours they rank all those which are extracted from vegetables, and which will not bear the fire; as the yellow, made of saffron, French berries, laecca, and other tinctures extracted from flowers, used by limners, illuminers, &c.

The mineral colours are those which being drawn from metals, &c. are able to bear the fire, and therefore used by enamellers. Changeable and permanent colours is another division, which, by some, is made of colours. Changeable colours are such as depend on the situation of the objects with respect to the eye, as that of a pigeon's neck, tafteties, &c. the first however being attentively viewed by the microscope, each fibre of the feathers appears composed of several little squares, alternately red and green, so that they are fixed colours.
Local Colours. See the article Local.

Water Colours. See Water.

Colour, in dying: There are, in the art of dying, five colours, called simple, primary, or mother colours, from the mixture of which all other colours are formed; these are blue, yellow, brown, red, and black. Of these colours, variously mixed and combined, they form the following colours, panny, blue, and red; from the mixture of blue and scarlet are formed amaranth, violet, and panny; from the same mixture of blue, crimson, and red, are formed the cloudbine or dove-colour, purple-crimson, amaranth, tan-colour, and dry-rose. Here it is to be observed that they give the name crimson to all colours made with cochineal.

Of blue and red madder is died purplv, pepper-colour, tan-colour, and dry-rose, made with red-crimson, compose amaranth, tan-colour, and dry-rose-colour.

Blue and yellow, mixed together, compose a yellow-green, spring-green, grass-green, laurel-green, brown-green, dark-green; as well as sea-green, parrot-green, cabbage-green, &c. These three last colours are to be less boiled than the rest. It is to be noted, that as to green, there is no ingredient or drug in nature that will dye it; but the stuffs are dyed twice, first in blue, then in yellow.

Blue and brown. These two colours are never mixed alone, but with the addition of red, either of madder or cochineal; they form several colours.

Red and yellow. All the shades composed of these two colours, as gold, yellow, aurora, marigold, orange, nectar, granat-flower, flame-colour, &c. are made with yellow and red of madder, scarlet being left proper as well as too dear. Red and brown. Of these two colours are formed cinnamon-colour, chestnut, musk, bear’s hair, and even purple, if the red be of madder.

Yellow and brown. The colours formed from these two, are all the shades of feuille-mort, and hair-colours. But this may be taken notice of, that though it be said that there are no colours or shades made from such and such mixtures, it is not meant that none can be made, but that they are more easily formed from a mixture of other colours.

Colour, in heraldry. The colours generally used in heraldry are red, blue, black, green, and purple, which the heralds call gules, azure, sable, vert or sapphire, and purpure; tenue or tawny, and languine, are not so common: as to yellow and white, called or and argent, they are metals not colours.

The metals and colours are sometimes expressed in blazon by the names of precious stones, and sometimes by those of planets or stars. See BLAZONING. Oenomaus is said to have first invented the distinction of colours, to distinguish the gundilke of combatants of the circusian games; the green for those who represented the earth, and blue for those who represented the sea.

Colour, in law, some probable plea, though really false in itself, and only calculated to draw the trial of the cause from the jury to the judge; for which reason it ought to be matter in law, or doubtful to the jurors.

Colour of office, signifies some unjust action done under countenance of an office, and is opposed to virtute officii, which implies a man’s doing a right and just thing in the execution of his office.

Colours, in the military art, include the banners, flags, ensigns, &c. of all kinds, borne in the army or fleet. See the articles FLAG and STANDARD.

Field-colour. See the article GOURD.

COLOUR-GOURD. See the article Gourd.

Field-colour. See the article FIELD.

Colours, in the Latin and Greek churches, are used to distinguish several mysteries and feasts, celebrated therein.

Five colours only are regularly admitted into the Latin church; these are white, green, red, violet, and black: the white is for the mysteries of our Saviour, the feasts of the virgin, those of the angels, saints, and confessors; the red is for the mysteries and solemnities of the holy sacrament, the feasts of the apostles and martyrs; the green for the time between pentecost and advent, and from epiphany to septuagesima; the violet in advent and chrismas, in vigils, rogations, &c. and in votive masses in time of war; lastly, the black is for the dead, and the ceremonies thereto belonging.

In the Greek church, the use of colours is almost abolished, as well as among us: red was, in the Greek church the colour for christmass, and the dead, as black among us.

To colour strangers goods, is when a free man allows a foreigner to enter goods at the custom-house in his name.
COLOURING, among painters, the manner of applying and conducing the colours of a picture; or the mixtures of light and shadows, formed by the various colours employed in painting.

The colouring is one of the chief branches in painting, which art is, by Mr. Fétis, divided into three parts, the design, the composition, and the colouring. See the article Painting.

Though the colouring strikes most, yet, among masters, it always gives place to the exactness of the design. According to M. de Piles, the word colouring, in a more limited sense, is chiefly applicable to a history-piece, scarce at all to landscapes: he adds, that the term relates more immediately to the carnations than to any thing else. The colouring, in its general sense, comprehends whatever relates to the nature and union of colours; their agreement or antipathy; how to use them to advantage in light and shadow, so as to shew a relief in the figures, and a sinking of the ground; what relates to the aerial perspective, that is, the diminution of colours by means of the interposition of the air; the various accidents and circumstances of the luminary, and the medium; the different light both of the bodies illuminating and illuminated; the reflections, shadows, and different views with regard to the position of the eye, or the object; what produces strength, boldness, sweetness, &c. in paintings, well coloured; the various manners of colouring, both in figures, landscapes, &c.

The coloris, or colouring, is different from colour; the latter renders the object sensible to the eye; the former is that by which the painter knows how to imitate the colour of all natural objects, by a judicious mixture of the simple colours upon his pallet: it teaches the manner in which colours are to be used for producing those fine effects of the chiaro oscuro, light and shade, which add boldness and a kind of relief to the figures, and shew the remoter objects in their full light. For the effects of colours, painters regard either the union or the oeconomy: with respect to the first, care must be taken that they be laid so as to be sweetly united under the brilliants of some principal one; that they participate of the prevailing light of the piece; and that they partake of each other by the communication of light and the help of reflection.

For the economy in managing their degrees, regard is to be had to the contrast or opposition intervening in the union of the colours; and, by a sweet interruption, the brilliants, which otherwise fades and falls, may be raised to the harmony which makes the variety of colours agree; supplying and sustaining the weak parts of some by the strength of others; neglecting some places on purpose to serve as a basis or repose to the light; and to enhance those which are to prevail throughout the piece. As to the degradation, where, the better to proportion the colours that fall behind, some of the same kind are to be preserved in their purity, as a standard for those carried afar off, to be compared by, in order to justify the diminution: regard being always had to the quality of the air, which, when loaded with vapours, weakens the colours more than when clear: to the situation of the colours, where care must be taken that the purest and strongest be placed before, or in the front of the piece; and that, by their force, the compound ones, which are to appear at a distance, be kept back, particularly the glazed colours, to be used in the first rank: lastly, regard must be had to the expression of the subject, and the nature of the matters or fluids, whether shining or dull, opaque or transparent, polished or rough.

COLOURING and non-colouring drugs. Into these dyers distinguish their drugs: the first are applicative, and communicate their colours to the matters boiled in them, or passed through them, as woad, scarlet-grain, cochineal, indigo, madder, turmeric, &c. The second serve to prepare and dispose the fluids and other matters, and to extract the colour out of the colouring ingredients; as alum, salt or crysal of tartar, arsene, realgar, salt-petre, common salt, sal ammonia, sal gemmae, agoric, spirit of wine, bran, peas-flour, wheat, starch, lime, and ashes.

COLOURING of glass. See Glass.

COLOURING of porcelain. See the article Porcelain.

COLOURING of spirits. See Spirits.

COLT, in zoology, the same with foal being the young of the horse-kind. See the article Foal.

COLT-EVIL, among farriers, a dwelling on the yard and cobs, incident both to horse-
horsef and geldings; for which, after washing the part with lukewarm vinegar, it is usual to anoint them with juice of rue, mixed with honey, and boiled in hog’s grease, adding bay-leaves and the powder of fenugreek.

COLT’S FOOT, in botany, the English name of the tulsiago. See Tussilago.

COLTIE, a term used by timber-merchants for a defect, or blemish, in some of the annular circles of a tree, whereby its value in many species of coluber without particular names, is much diminished.

COLUBER, in zoology, a very numerous genus of serpents, distinguished by the following characters; the abdomen, or under part of the body, is covered with a great number of scuta, or hard crusts; and the tail, on the contrary, with scales.

Of this genus authors enumerate a great many species, distinguished by the number of these scuta and scales, as the naja, lemniscata, matrix, hippo, petola, fibon, &c. See Naja, Lemniscata, &c.

Besides these there are several very beautiful species of coluber without particular names, two of which are represented in plate LII. fig. 1.

COLUBRINUM LIGNUM, SNAKE-WOOD, in the materia medica, a woody substance of a tolerably firm and dense texture, brought to us from the island of Timor, and some other parts of the east, from a foot to near twice as much in length, and from an inch to four or five inches in diameter; it is more properly a root than a wood, though so called; for what we receive is always the smaller or middling branches of the root: the tree is a species of the nux vomica. See Nux Vomica.

The Indians are of opinion, that this root is a remedy for the bite of a serpent called cobra de capello. However this be, it is allowed to be a remedy for intermittent, and a destroyer of worms: it operates differently, as taken in larger or smaller doses; sometimes by urine, sometimes by sweat, by flood, or by vomit; the lait is the cafe when a large dose is given: if yet larger, it brings on convulsions, and sometimes proves fatal. It is never given internally, till it has been kept some years. We very seldom use it, being generally producive of convulsions or deliriums.

COLUMBA, PIGEON, in ornithology, a genus of passerese, the characters of which are these, the beak is straight, and furcaceous or scaly towards the base; the nostrils are oblong, membranaceous, and half covered over; and the tongue is entire, or undivided.

To this genus belong all the kinds of domestic pigeons, and the oenas, palumbus, and turrit. See Oenas, &c.

See also plate XLV. fig. 1. which represents the long-tailed, variegated, west-indian dove, with a roundish black spot on each side of the head.

COLUMBA Groenlandica, the sea-turtle-dove, in ornithology, a species of the colymbus or diver-kind, with three webbed toes on each foot. See Colymbus.

COLUMBA MARINA, in ichthyology, an eait-indian fish, seemingly of the orbis or moon-fish-kind. See Orbis.

COLUMBINA MARGA, the name by which Pliny calls the fnower blueish marle. See the article Marble.

COLUMBINE, aquilegia, in botany. See the article Aquilegia.

Feathered COLUMBINE, the name with the thalictrum of botanists. See Thalictrum.

Columbine, columbina, is also used by some for the verbena, or vervain, of other writers. See Verbena.

COLUMBINE-COLOUR, or DovE-COLOUR, among painters, denotes a kind of violet.

COLUMBUS, or Congregation of St. Columbus, a society of regular canons, who formerly had an hundred abbeys or monasteries in the britih islands.

COLUMELLA, in natural history, a name given to the fungite. See Fungite.

Columella, in anatomy, the name with uvula. See the article Uvula.

COLUMN, in architecture, a round pillar, made to support and adorn a building, and composed of a base, a shaft, and a capital. As every fulcrum is so much the more perfect, as it is firm, or carries the appearance of firmness; hence all columns ought to have their base broader than themselves. See the article Base.

And as a cylinder and a quadrangular prism are more easily removed out of their place than a truncated cone, or a pyramid on the same base, and of the same altitude, the figure of columns ought not to be cylindrical, but grow less and less, where the part is to be sustained; and less, where a small weight is to be supported. Further, as the design of a column is to support a weight, it must never be supposed without an entablature.

Columns
Columns are different in the different orders of architecture, and may be considered with regard to their matter, construction, form, disposition, and use.

With respect to the order, we have

**Tuscan Column**, that which has seven diameters in height, and is the shortest and most simple of all the columns. See the article **Tuscan Order**.

Its diminution is one fourth, that is, the diameter at top is three fourths of the diameter just above the base.

**Doric Column** has eight diameters in height, and its capital and base more enriched with mouldings than the tuscan. It diminishes one fifth part of the diameter at the base. See the article **Doric**.

**Ionic Column** has nine diameters in height, and differs from the others by the volutes just above the base. It diminishes one sixth part of the diameter at the base. See the article **Ionic**.

**Corinthian Column**, the richest and most delicate of all, has ten diameters in height, and its capital adorned with two rows of leaves with caulicoles, from whence spring small volutes. It diminishes one seventh part of the diameter. See the article **Corinthian**.

**Composite Column** has likewise ten diameters in height, and two rows of leaves in its capital, with angular volutes like the ionic. It diminishes one eighth part of the diameter of the base. See the article **Composite**.

It may be observed that different authors give different heights and proportions to columns of the same order, and that frequently the same author takes the liberty of dispensing with his own rules; but that the heights and proportions exhibited above are a mean between the extremes of all the rest; in this we have followed Daviler and Mr. Perrault.

Columns, with regard to their matter are:

**Flueble Column** comprehends not only columns of various metals, and other fusible matter, as glass, &c. but also those of stone, said to be cast, the secret of which some believe have been known to the antients.

**Hydraulic Column**, that whose shaft appears to be of crystal; being formed by a number of little threads of water, falling from holes made in a girt of metal, at equal distances, by means of a pipe mounting through the middle of it. It also denotes a column from whose top proceeds a jet d'eau, to which the capital serves as a basin, whence the water descends by a little pipe, which turns spirally round the shaft.

**Moulded Column**, that made by impastation of gravel and flints of divers colours, bound together with a cement.

**Water Column**, that whose shaft is formed of a large jet d'eau, which spouting out water violently from the base, drives it within the tambour of the capital, which is hollow, and in falling down it resembles a column of liquid crystal.

Columns, with regard to their construction.

**Cabled or Rudened Column**, that having projections in form of cables, in the naked of the shaft, each cable having an effect opposite to that of a fluting, and accompanied with a little lift on each side.

**Colossal Column**, one of so large a size as not to enter any ordinance of architecture, but designed to be placed solitary in the middle of a square, &c. Such is the Trajan column.

**Caryatid Column**, that adorned with foliages, turned spirally round the shaft, or in form of crowns and festoons: they are very proper for decorations of theatres.

**Diminished Column**, that which has no swelling, but begins to taper from the base, in imitation of trees.

**Geminated Column**, that whose shaft is formed of three similar and equal sides or ribs of stone, fitted within one another, and fastened at bottom with iron pins; and at top with cramp-irons: it ought to be fluted, that the joints may be less discernible.

**Column of joinery**, that made of strong timber-boards, joined together: it is hollow, turned in the lathe, and usually fluted: such are the columns of mott altar-pieces.

**Column of masnury** is made of rough stone, well laid and covered with plaister; or of bricks, laid triangular-wise, and covered with stucco.

**Column of tambours, or bands**, that whose shaft is formed of several couries of stone, or blocks of marble, less high than the diameter of the column.

**Column in truncheons, or pieces**, consists of two, three, or four pieces of stone or metal, differing from the tambours as being higher than the diameter of the column.

Columns, with regard to their form are:

**Fluted Columns**, called also channelled and frilated columns, those whose shafts are adorned with flutes or channelings, either from top to bottom, or only two thirds of their height.
Catholic Column, a round pillar, either too short for its bulk, or two slender for its height, having sometimes twenty diameters, without either diminution or swelling, consequently differing widely from the proportions of the antique.

Hermetic Column, a kind of pilaster, in manner of a term, having the head of a man in lieu of a capital. It is so called because the antients placed on the top of such columns the head of Mercury.

Massive Column, one too short for the order, the capital of which it bears: it likewise comprehends Tuscan and Rustic columns.

Oval Column, that whose shaft has a flatness, its plan being made oval, to reduce the projection.

Pastoral Column, that whose shaft is formed in imitation of a trunk of a tree, with bark and knots. It may be used in the gates of parks and gardens, and in the decoration of pastoral scenes, &c.

Serpentine Column, that formed of three serpents twisted together, the heads of which serve as a capital: it is now called the talisman or enchanted column.

Swell'd Column, that which has a bulging in proportion to the height of the shaft. This practice obtains among the modern architects, but seems to have been unknown to the antients.

Twisted Column, that whose shaft is twisted round in form of a screw, with six circumvolutions, being ordinarily of the corinthian order. Sometimes the twisted column is in form of two or three slender shafts twisted round, so as to leave a cavity in the middle.

Columns, with regard to their disposition.

Angular Column is an infulfated one, placed in the corner of a portico, or inferted in the corner of a building, or even a column that flanks any angle of a polygon. Sometimes the twisted column is in form of two or three slender shafts twisted round, so as to leave a cavity in the middle.

Attic Column, according to Pliny, is an infulfated pilaster having four equal faces, and of the highest proportion.

Cantoned Columns are those engaged in the four corners of a square pillar, to support four springs of an arch.

Cymbed Columns, those disposed two and two, so as almost to touch each other at their bases and capitals.

Doubled Column, one column joined with another in such a manner, that the two shafts penetrate each other with a third of their diameter.

Engaged Column, that which enters in a wall with one third or one fourth of its diameter.

Grouped Columns, those placed on the same pedestal or socle, either by three and three, or four and four.

Infulfated Column, one standing free and detached from every other body.

Median Columns, a name given by Vitruvius to the two columns in the middle of a porch, which have their intercommunication larger than the rest. The term may also be applied to the middle row of columns in a frontispiece adorned with three orders.

Nicked Column, that whose shaft enters with half its diameter into a wall, hollowed out for its reception with its plane parallel to the projection of the tore.

Columns with regard to their use, are either, 1. Astronomical columns, such as that at Paris erected for astronomical observations. 2. Chronological column. 3. Funeral column, which generally bears an urn, and has its shaft overispred with symbols of grief and of immortality. 4. Gnomonic column, a cylinder, upon which the hour of the day is represented by the shadow of a style: of these there are two kinds: in the one the style is fixed, and the hour-lines are no more than the projection of a vertical dial upon a cylindrical surface: in the other, the style is moveable, and the hour-lines are drawn to the different heights of the sun in the different seasons of the year. 5. Historical column, that whose shaft is adorned with a baso relief, running in a spiral line its whole height, and containing the history of some great personage. 6. Hollow column, that which has a spiral flair-case within-side, for the convenience of ascending to the top. 7. Indicative column, that which serves to shew the tides along the coast. 8. Instructive column, that which conveys some precept or instruction, such as that raised by the son of Pisistratus at Athens, containing the rules of agriculture. 9. Itinerary column, one with several faces, placed in the crofSing of several roads, serving to shew the different routes by the inscriptions engraved upon each of its faces. 10. Laetacary column, at Rome, a column, according to Festus, in the herb-market, in the pedefal of which was a cavity, wherein young children, abandoned by their parents, out of poverty or inhumanity, were exposed to be educated at the expense of the public. 11. Legal column, among the Lacedemonsians, that erected in a public place, upon which were engraved the fundamental laws of the state. 12. Limitrophous or boundary column, that which shews the limits of a kingdom, or country
country conquered. Those called the columns or pillars of Hercules, are two very steep mountains in the fireights of Gibraltar. 13. Luminous column, one formed in a cylindrical frame, mounted and covered over with oiled paper or gauze, so that lights being disposed in ranks within over each other, the whole appears to be on fire. 14. Manubriar column, a column adorned with trophies built in imitation of trees, wherein the spoils of enemies were antiently hung. 15. Memorial column, that railed on occasion of any remarkable event, as the monument in London, built to perpetuate the memory of the burning of that city in 1666. 16. Menian column, any column that supports a balcony or meni-
dana. 17. Military column, a column of marble raised by order of Augustus in the middle of the roman forum, from whence, as a center, the distances of the several cities of the empire were reckoned by other military columns, disposed at equal distances on all the grand roads. 18. Relitral column, that adorned with the beaks or prons of ships, &c. erected either in memory of a naval victory, or in honour of some admiral, &c. 19. Sta-
tuary column, that supports a statu-
tue. 20. Symbolical column, that representing by symbols some particular country, or some memorable action. 21. Triumphal column, that erected by the antients in honour of an hero; the joints of the stones or courses of which were covered with as many crowns, as he had made different military expeditions. 22. Zoophoric column, a kind of statuary column, bearing the figure of some animal.

Scenography of a Column. See the article Scenography.

Column, among printers, is half a page, when the page is divided into two parts from top to bottom.

Column in the military art, a long deep file of troops or baggage. The first and second lines of the army as they are encamped, make generally two columns on a march, filing off either from the right or left; sometimes the army marches in four, fix, or eight columns, according as the ground will allow; and each column is led by a general officer.

Columna, in anatomy, a term applied to different parts: thus the columna nae, is the lowest and flabby part of the body which forms a part of the septum and the columna oris, is the same with the uvula. See Septum and Uvula. The columns cordis, are small, long, and round flabby productions in the ventricles of the heart. See Heart.

Columnar, something resembling or consisting of columns. See Column.

Columnar-marble, the same with the basaltes. See the article Basaltes.

Columnaris, in botany, a name by which some call the milky bell-flower, campanula lacteicena. See the article Campanula.

Columnnea, in botany, a genus of plants of the didymia-ariso-termia class, the flower of which is monocotyledonous and ringent: the fruit is a globule, bilocular berry, containing numerous oblong seeds.

Columnia, or Kolomna, a city of Russia, in the province of Moscow, situated at the confluence of the rivers Moscow and Oca, about forty miles south-east of the city of Moscow: east long. 46°, north lat. 56°.

Columnes, in astronomy and geography, two great circles supposed to intersect each other at right angles in the poles of the world, and to pass thro' the solstitial and equinoctial points of the ecliptic.

That which passes thro' the two equinoctial points, is called the equinoctial colure, and determines the equinoxes; and the other which passes thro' the poles of the ecliptic, is called the solstitial colure, because it determines the solstices. See Equinox and Solstice.

Coluri, a little island in the gulph of Engia, in the Archipelago, about seven miles south of Athens: of this island Ajax was sovereign: east long. 24°, north lat. 38°.

Columna Bastard-sena, in botany, a genus of the diadelphie-dicandrea class of plants, the flower of which is papilionaceous, and its fruit a very large, broad, inflated, compressed legume, with the superior future erect, and the inferior one gibbous: it contains only one cell, wherein are several seeds of a kidney shape. The leaves, but especially the seeds of the coluria, purge with great violence, and therefore ought only to be administered to strong constitutions, and then with good correctives.

Colyba, or Colyva, among the greek christians, is a large dish of boiled wheat garnished with blanched almonds, raisins, and pomegranates, and stewed round with odoriferous herbs, which is offered in honour of the saints at the in-

& Q.
term of the dead. The colyva is carried by the sexton or grave-digger, preceded by an attendant bearing two large wooden flambeaux gilt, and adorned with lace and ribbands. He is followed by two waiters loaded with bottles of wine and baskets of fruit, and a third carrying a carpet, which is to be spread over the tomb of the deceased, and to serve as a table-cloth for the funeral entertainment. The priest hath a large share of this collation; and the rest, after the friends of the deceased have featt-ed on it, is distributed among the poor.

COLYMBUS, DIVER, in ornithology, a genus of anseres, with a fubulated, compressed beak, longer than the head, and without teeth: add to this, that the feet are placed very far backward, so as to be fitter for swimming than standing or walking.

To this genus belong the lumme, or mergus maximus; the crested diver, colymbus cirtatus vel cornatus; the trapazorola; and the columba groenbendica. See the article LUMME, DIVER, &c.

The crested colymbus, called also the great didapper, or crested loon, is represented in plate XLIV. fig. 5.

COLYTEA, in botany, a name used by some for the cercis, or filiquafrum of botanists. See the article CERCIS.

COLYVA, or COLYBA. See COLYBA.

COMA, or COMA-VIGIL, a preternatural propensity to sleep, when nevertheless the patient does not sleep, or if he does, awakes immediately without any relief. This disorder is always symptomatic, and often attends acute, burning, and malignant fevers; as also an inflammation of the dura mater, and ulcers in a phrenzy. Sometimes it attends an hemiplegia.

For the cure of the coma-vigil, if the fever has not continued above the third or fourth day, it is expedient to take away a large quantity of blood; then the body, if convive, must be opened with clysters, which must, not be very acrid; afterwards diluters and refrigerants should be given to moderate the febrie heat, such as absorbent powders, gentle nitrous medicines, taken in a draught with diaphoretic antimony, &c.

COMA SOMNOLENTUM, is when the patient continues in a profound sleep, and when awaked, immediately relapses, without being able to keep open his eyes. This is a primary diffeafe, and must have a caufe which obftrues the passage of the nervous fluid from the cortical part of the brain to the medulla oblongata throughout the whole brain.

A coma somnoleentum, is divided into ferous and fanguine. The frift requires the natural ferous evacuations to be re-foreed or promoted. Gouty fits are to be invited. Sternotataries are also of great ufe, as they discharge the ferum thro' the nose, and fLimulate the nerves; and when a violent phlegm offends the stomach, vomits are useful, with powder of fquills, or emetic tartar, with a laxa-tive potion. In a fanguine coma somno-lentum, when the blood circulates slowly, or flagmates in the head, as in hypochon-driac or scorbutic cases, all hot spiritual remedies are as bad as poison: but bleeding, clysters, gentle laxatives, cooling and nevious powders, are useful.

COMA BERENICES, BERENICE'S HAIR, in astronomy, a constellation of the northern hemisphere composed of stars, near the lion's tail. This constellation consists of three stars, according to Ptolemy; of thirteen, according to Tycho; and of forty, in the Britannic catalogue.

COMARUM, in botany, a genus of plants of the icofandria-pentagynia class; the flower of which consists of five oblong, acuminated petals, three times less than the cup in which they are inferted: there is no pericarpium, but a fiviform, fleshy receptacle which contains numerous acuminated seeds.

COMB, an instrument to clean, untangle, and drefl flax, wool, hair, &c. Combs for wool, are prohibited to be imported into Britain.

COMB is also the creft or red fleshy tuft growing upon a cock's head.

COMB, in a ship, a little piece of timber fct under the lower part of the beak-head, near the middle: it has two holes in it, and supplies to the fore-tacks what the cheft-trees do to the main-tacks, that is, to bring the fore-tacks abroad.

Lady's Comb, or Venus's Comb, in botany, the same with the scandix. See the article SCANDIX.

COMB-FISH, peflen, in the history of shell-fish. See the article PECTEN.

COMBAT, in a general sene, denotes an engagement, or a difference decided by way of arms. See the article BATTLE.

COMBAT, in our antient law, was a formal trial of some doubtful caufe or quarrel by the swords or battons of two cha­ampions. This form of proceeding was very
very frequent not only in criminal
but in civil causes; being built on a
preumption, that God would never
grant the victory but to him who had
the best right. The last trial of this kind
in England, was between Donald lord
Ray, appellant, and David Ramfay, esq;
defendant; when after many formalities,
the matter was referred to the king's
pleasure. See TRIAL AND CHAMPION.
COMBATANT, in heraldry, a term for
two beasts, as lions, &c. borne in a coat
of arms in a fighting posture, with their
faces to each other.

COMBINATION, properly denotes an
assemblage of several things two by two.

COMBINATION, in mathematics, is the va-
riation or alteration of any number
of quantities, letters, sounds, or the like, in
all the different manners possible.

F. Truchet, in the memoirs of the french
academy, shows that nine square pieces,
each divided diagonally into two colours,
may be combined 64 different ways, so
as to form so many different kinds of
chequer-work; which appears surpriz-
ing enough, when one considers that two
letters or figures can only be combined
twice.

F. Mereenne gives us the combinations
of all the notes and sounds of music as
far as 64; the sum whereof amounts to
90 figures or places.

Doctrine of Combination. Prob. 1. Any
number of quantities being given, toge-
 ther with the number in each combina-
tion, to find the number of combinations.
One quantity admits of no combination:
two, \(a\) and \(b\), only of one combination:
three quantities, \(a\), \(b\), and \(c\), there are three
combinations, viz. \(ab\), \(ac\), \(bc\); of four
quantities, there are six combinations,
viz. \(ab\), \(ac\), \(ad\), \(bc\), \(bd\), \(cd\); of five
quantities, there are ten combinations,
viz. \(ab\), \(ac\), \(ad\), \(ae\), \(bc\), \(bd\), \(be\), \(ce\), \(de\).
Hence it appears, that the numbers of
combinations proceed as \(1, 3, 6, 10, 15\)
that is, they are triangular numbers, whose
side differs by unity from the number of
given quantities. If this then be sup-
posed, \(q\), the side of the number of
combinations will be \(q-1\), and to the num-
ber of combinations \(q(q-1)/2\).

See the
article TRIANGULAR NUMBER.

If three quantities are to be combined,
and the number in each combination be
three, there will be only one combina-
tion \(abc\); if a fourth be added, four
combinations will be found \(abc, abd,
bcd, acd\); if a fifth be added, the com-
binations will be ten, viz. \(abc, abd,
bcd, acd, abe, bda, bec, ace, ade\);
if a sixth, the combinations will be twenty,
\&c. The numbers, therefore, of combina-
ctions proceed as \(1, 4, 10, 20, 35, \&c\). That
is, they are the first pyramidal tri-
angular numbers, whose side differs by
two units from the number of given
quantities. Hence if the number of
given quantities be \(q\), the side will be
\(q-3\), and to the number of combinations
\(q-2\), \(q-1\), \(q+0\),
\[\begin{array}{c}
1 \\
2 \\
3 \\
\end{array}\]
\[\frac{1}{2} \frac{2}{3} \frac{3}{4} \frac{4}{5} \]

If four quantities are to be combined,
we shall find the numbers of combina-
tions to proceed as pyramidal triangular
numbers of the second order, \(1, 5, 15,
35, \&c\). whose side differs from the num-
ber of quantities by the exponent minus an
unit. Wherefore if the number of quan-
tities be \(q\), the side will be \(q-3\), and the
number of combinations \(q-2\), \(q-1\), \(q+0\)
\(\frac{1}{2} \frac{2}{3} \frac{3}{4} \frac{4}{5} \)

See PYRAMIDAL NUMBERS.

Hence is easily deduced a general rule of
determining the number of combinations
in any case whatsoever. Suppose, for
example, the number of quantities to be
combined \(q\), and the exponent of combina-
tion \(n\); the number of combinations
will be \(q(n+1), q(n+2), q(n+3), q(n+4)
\&c. till the number to be added be equal
to \(n\). Take \(q=6\) and \(n=4\), the num-
ber of combinations will be \(6+4+1\),
\[\begin{array}{c}
6-4+2, 6-4+3, 6-4+4, 6-3-6-2, 6-1, 6+0,
\end{array} \]
\[\begin{array}{c}
2 \quad 4 \quad 5 \quad 6 \quad 4 \quad 3 \quad 2 \quad 1 \quad 3 \quad 4 \quad 1 \quad 2 \quad 3 \quad 4 \quad 3 \quad 2 \quad 1 \quad 3 \quad 4 \\end{array} \]

If it be required to know all the possible
combinations of the given quantities,
beginning with the combinations of the
two very's, then proceeding to threes,
\&c. we must add \(q-1, q+0\), \(q-2, q-1\)
\(q+0, q-3, q-2, q-1, q+0, \&c\).
\(q-2, q-3, q+0\), \(q-2, q-3, q+0, \&c\).

When the number of all the possible
combinations will be \(q, q-1, q-2, q-3, q-4, q-1\)
\(q-2, q-3, q-4, q-5, \) which is the sum of
\[\begin{array}{c}
2 \quad 3 \quad 4 \quad 5 \quad \end{array} \]
the unities of the binomial raised to the power $q$, and abridged of the exponent of the power increased by unity $q+1$. Wherefore since these unities come out $1+1$ by being raised to the power $q$; and since $1+1$ is equal to $2$, $2^q - q - 1$ will be the number of all the possible combinations. For example, if the number of quantities be 5, the number of possible combinations will be $2^5 - 6 = 32 - 6 = 26$.

**Prob. 2.** Any number of quantities being given, to find the number of all the changes, which these quantities, combined in all the manners possible, can undergo. Let there be two quantities $a$ and $b$, their variations will be two; consequently, as each of them may be combined with itself, to these there must be added two combinations more. Therefore the number of the whole will be $2 + 1 = 4$. If there were three quantities, and the exponent of the variation $2$, the combinations will be $3$, and the changes $3 + 3 + 3 = 9$. In like manner, it is evident, if the given quantities were $4$, and the exponent $2$, that the number of combinations will be $6$, and the number of changes likewise $6$, and the number of combinations of each quantity with itself $4$, and therefore the number of changes $16$; if with the same exponent the given quantities were five, the number of changes would be $25$; and in general, if the number of the quantities were $n$, the number of changes would be $n^2$.

Suppose the quantities $3$, and the exponent of variation $3$, the number of changes is found $27 = 3^3$. aix aee, aab, abh, baa, aae, aca, caa, abh, bab, bba, abe, ace, bce, acb, eab, eac, cba, bcb, bcc, ecb, ecc. In like manner it will appear, if the quantities were $4$, and the exponent $3$, that the number of changes would be $64 = 4^3$; and in general, if the number of quantities was $= n$, and the exponent $3$, the number of changes would be $n^3$.

By proceeding in this manner, it will be found, if the number of quantities be $n$, and the exponent $n$, that the number of changes would be $n^n$. Wherefore, if all the antecedents be added, where the exponent is less, the number of all the possible changes will be found $n + n - 1$ $+$ $n - 2 + n - 3 + n - 4$, &c. till the number subtracted from $n$ leaves 1, because the beginning is from single quantities taken once.

Since, then, the number of all possible changes is in a geometrical progression, the first or smallest term of which is $n^1$, the largest $n^n$, and the denominator $n$, it will be equal $(n^{n+1} - n) / (n - 1)$. Suppose $n = 4$, the number of all possible variations will be $(4^5 - 4) / (4 - 1) = 1024 / 3 = 341$.

Suppose again $n = 24$, the number of all the possible variations will be $(24^{25} - 24) / (24 - 1) = 320096 58' 644$.

**COMBINATORY DISTILLATION.** A method of rectifying spirits, much practiced by distillers, by distilling several ingredients along with the spirits: such are alkaline salts, and spirits, and other saline bodies capable of giving the spirits a good flavour. This method is condemned by Dr. Shaw; since these ingredients mix themselves so intimately with the spirits, as not to be easily separated again; hence, instead of rectifying or improving, they prevent the true and genuine taste of the spirits.

**COMBING (wosol),** in commerce, the drawing wool across the teeth of a card called a comb, to disperse it for spinning.

**COMBURENDO HÆRETICO.** See the article *Hæretico* *Comburenudo*.

**COMBUST,** an appellation given to a planet, when in conjunction with, or not distant above eight degrees and thirty minutes from the sun: some restrain the term combust, to the distance of half their disk.

**COME,** an appellation by which the small fibres of malt are called. See *MALT*.

**COME SOPRA,** in the Italian music, imports that the part where it is found, is to be repeated again.

**COMEDY,** is a sort of dramatic poetry which gives a view of common and private life, recommends virtue, and expels
poses the vices and follies of mankind in a humorous and merry way. Scaliger defines comedy a dramatic poem, representing the business of life, whose event is fortunate and still familiar. Vossius defines it a dramatic poem copying the actions of the principal citizens and common people in a familiar style, and not without mirth and raillery.

Critics are much divided about the nature of comedy. Aristotle calls it an imitation of the work, or rather, of the lowest class of persons: by way of ridicule. Mr. Corneille finds fault with this, and maintains, that the actions of kings themselves may enter comedy, provided they be such as are not very momentous, nor attended with any considerable danger. Mr. Congreve seems pretty much of the same sentiment. But Mr. Dacier is of a contrary opinion: he maintains, that comedy allows of nothing grave or serious, unless it be turned to ridicule; and that raillery and ridicule are its only proper and genuine marks. Thus different are critics on the nature of comedy: nor are they better agreed concerning the characteristic which distinguishes it from tragedy. Some distinguish it by the lowness of the subject; others, by the ridiculous light it is set in. According to F. Boffult, comedy differs from tragedy in this, that the comic writer invents both the names of his persons, and the action which he presents; whereas the tragic-writers invent only the latter; the former they are to take from history.

Comedy has parts of quality and parts of quantity. Of the first kind there are four essential, the fable, the manners, the sentiments, and the diction; to which two are added which only relate to the representation, viz. the music and decoration. See Fable, Manners, &c.

The parts of quantity are also four: 1. The entrance. 2. The working up of the plot. 3. The full growth of the plot, or the counter turn. 4. The discovery or unravelling of the plot. These, in the language of the antients, are called the protasis, epitasis, catastasis and catastrophe. See the articles Protasis, Epitasis, Act, &c.

With regard to the various revolutions comedy has undergone, it is commonly distinguished into three kinds, viz. the antient, the middle, and the new. The antient comedy was sharp, satirical, and extremely abusive; even men of the first rank, if they were suspected of any criminal behaviour, whether the facts were true or false, were brought upon the stage without any disguise, called by their own names, and used as severely as possible. Thus in the comedy of the clouds, Aristophanes brings Socrates in by name. Indeed this liberty of abuse was allowed chiefly to the chorus, and was most used during the democracy of the Athenians, especially in the time of the Peloponnesian war. But when the thirty tyrants had seized the government, the middle comedy commenced; for it being no longer safe for the poets to rail at people in authority, and openly to charge magistrates with crimes, they still continued to ridicule the follies and expose the vices of particular persons under fictitious names; by which the persons were so well pointed out, that it was no difficult matter to know them. At length, however, they were obliged, in the reign of Alexander the Great, to reprefs even this licencet: and this reformation gave occasion to the new comedy, which only brought upon the stage feigned adventures, and imaginary names.

This last kind alone was received among the Romans, who nevertheless made a new subdivision of it into antient, middle, and new, according to the various periods of the commonwealth. Among the antient comedies were reckoned those of Livius Andronicus; among the middle, those of Paccius; and among the new ones, those of Terence. They likewise distinguished comedy according to the quality of the persons represented; and the drees they wore, into togata, pretextata, trabeata, and tabernaria, which last affects pretty nearly with our farces. Among us, comedy is distinguished from farce, as the former represents nature as it is, the other distorts and overcharges her. They both paint from the life, but with different views: the one to make nature known, the other to make her ridiculous.

COMERY, a city of Lorraine, in France, twenty miles west of Nancy: east long. 5° 26', north lat. 48° 45'.

COMES, in zoology, a species of butterfly, with four legs, and erect, roundish wings.

COMET, an opake, spherical, and solid body like a planet, performing revolutions about the sun in elliptical orbits, which have the sun in one of the foci. The antients were divided in their opinions concerning them; some considering them as wandering stars; others, as meteors.
tears kindled in the atmosphere of the earth, subliming for a time, and then dissipated: others looked upon them as prodigies. But it is put beyond doubt by the more accurate observations of the late astronomers, that they are a kind of planets. That they are not meteors, is obvious; for if they were, they could not bear that vast heat which some of them in their perihelia receive from the sun. The great comet which appeared in the year 1680, was within a sixth part of the sun's diameter from its surface, and therefore must acquire a degree of heat intense beyond all imagination. But that comets, are not only above the air, but also beyond the moon, is plain; because comets seen from distant places, are observed to be at the same distance from a fixed star which is near them. As for example, the comet which Tycho Brahe observed at Uraniborg, was likewise seen by Hagecius at Prague in Bohemia at the same time; which two places differ six degrees in latitude, and are nearly under the same meridian, and both measured the distance of this comet from the star we call the vultur; that is, how much it was below it towards the horizon, for both the vultur and comet were in the same vertical circle, and both observers found their distances the same, and consequently they both viewed the comet in the same point of the heavens; which could not be, unless it had been higher than the moon. The figures of comets are observed to be very different, for some of them throw forth beams like hair every way round them, and these are called hairy comets. Others again have a long beard, or rather a fiery tail, opposite to the region in which the sun is seen; and they are called bearded, or comets with tails. Their magnitude has also been observed to be very different; many of them without the hair, appear no bigger than stars of the first magnitude. But some authors have given us an account of others which were much greater; such was that which appeared in the time of the emperor Nero, which, as Seneca relates, was not inferior in magnitude to the sun itself. In like manner, the comet which Hevelius observed in the year 1652, did not seem to be less than the moon, tho' it had not so bright a splendor; for it had a pale and dim light, and appeared with a difmal aspect. Mo't have a dense and dark atmosphere surrounding their bodies, which weakens and blunts the sun's rays; but within it, appears the nucleus or solid body of the comet, which when the clouds are dispersed, gives a splendid and brisk light. The particulars in which comets differ from planets, are, that they move in various directions, some the way with the planets, others the contrary; neither are their motions confined within the zodiac, their orbits admitting of any inclination to the ecliptic whatever. And the eccentricity of their orbits is so very great, that some of the comets perform the greatest part of their motion almost in right lines, tending in their approach to the sun almost directly towards it, after which they pass it; and when they leave it, march off again nearly in a right line till they are out of sight, as if they were hastening back to the fixed stars. As they approach the sun, their motion grows proportionably swifter; for they describe equal areas in equal times about its center as the planets do. Hence it is, that when they are in their perihelia, their motion is immenely swifter than when they are in their aphelia. This will better appear from the following demonstration. Let S (plate XLVI. fig. 2.) be the sun, APDG the elliptic orbit of a comet, TCE the orbit of the earth. If we should suppose the semi-axis of the comet's orbit to be 100 times greater than the semi-axis of the earth's orbit, or, which is the same, than its mean distance from the sun, that comet would not complete its revolution in less than 1000 years; for the squares of the periodic times of the earth and comet, must be as the cubes of their mean distances from the sun: and the comet becomes visible only for that part of its period, wherein it descends towards the sun and approaches near the earth, as in F, and then after it has passed its perihelion, constantly rising higher from the sun about G, it will begin to vanish, and will not be visible without a telescope. If the aphelion distance be to the perihelion as 1000 is to one, the velocity of a comet in the perihelion, will bear the same proportion to the velocity at the aphelion. For the area ASB, must be but equal to the area PSD, if the arches AB and PD be described by the comet in equal times, and then the arch PD must be greater than AB, in the same proportion as AS is greater than PS. This is the proportion of their absolute velocities.
velocities. But their angular velocities about the sun, are in a duplicate proportion of those distances, or as \( \frac{360}{300000} \) to 1. So that while the comet in its perihelion describes one degree with its angular motion, where it ascends to its aphelion, it will describe in an equal time but \( \frac{360}{300000} \) of a degree. Hence then is seen the cause why comets are visible to us for so short a time, and when they disappear, why they are so long, before they visit us again. This also destroys the objection against the return of comets drawn from the rarity of their appearance.

As the elliptic orbit of a comet is so very eccentric, that portion of it wherein it becomes visible to us, may pass for a parabola. By considering, therefore, that portion as a piece of a parabola near its vertex, the calculation of their motions becomes much easier; and upon that hypothesis Dr. Halley has constructed and calculated a table, by which, whenever a new comet shall appear, it may be determined whether it be any of those which have yet appeared, and consequently its period, and the axis of its orbit be determined, and its return foretold. From this table, as well as from the observations of astronomers, it seems probable, that the comet which appeared in the year 1682, was the same which was seen before in 1607 and 1531, and therefore may be expected again in the year 1758, after a period of about 151 years.

And that the great comet which appeared in the year 1680, was the same seen in the time of King Henry I. in 1106, and in 531, and in the forty-fourth year before Christ, when Julius Caesar was murdered. If so, then the period of this comet is about 375 years. There are between twenty and thirty that have appeared since the year 1337; but no two appearances seem to belong to the same comet, except those above-mentioned.

The phenomena of comets which arise from the motion of the earth, agree in a great measure with those of the planets. For instance, those comets which move according to the order of the signs, a little before they disappear, become more than ordinarily slow or retrograde; if the earth at that time be between them and the sun, but more than ordinary swift; if the earth be on the opposite side; and the reverse of this happens to those which move contrary to the order of the signs. This is occasioned by the motion of the earth; for when the earth goes the same way with a comet, but with a swifter motion, the comet seems retrograde; when with a slower motion, the comet's apparent motion becomes slower; and when the earth moves the contrary way, it becomes swifter. See the articles Retrogradation and Planet.

Few comets are to be seen in their access to the sun, but in their recedes appear with long fiery tails, pointing directly, or nearly so, towards that part of the heavens which with respect to the comet is opposite to the sun. Some are visible before they reach the sun, and begin to put forth their tails, which at first are short and thin, seldom exceeding fifteen or twenty degrees in length, but grow longer and denser as the comet comes nearer the sun. If the comet pales very near the sun, it then sends forth fiery beams of light every way. After this it puts forth a tail forty, fifty, or sixty degrees long, which, as the comet recedes farther from the sun, continually diminishes both in length and splendor; but is larger and longer at any distance in its receds from the sun, than at an equal distance in its access to it.

In order to account for the formation of the tails of comets, some have supposed that the heads of comets are transparent, and that their tails are no other than a beam of the sun transmitted through them. But were the heads of comets transparent, they themselves would be scarcely visible. Others, that they arise from the refraction of the rays of light in their way from the comet to us. But if so, then both the planets and fixed stars ought to have tails also. Kepler ascribed the absence of the tails to the rays of the sun carrying the particles of the comet's atmosphere with them; that is, impelling them into the regions opposite to it. But we have no influence of any thing in nature like this; it is therefore an hypothesis that cannot be supported. Sir Isaac Newton thinks the great splendor and length of the tails, arises from the heat which the sun communicates to the comet as it passes near it. As the ascent of the smoke in a chimney is owing to the impulsion of the air with which it is tangled, in like manner, says he, the tail of a comet may arise from the atmosphere thereof into those parts which are opposite to the sun, being carried up by the ether about the comet, rarefied to a very great degree by the heat thereof. This opinion is greatly corroborated.
borne by the appearance of the tails; for when accurately observed, they are found not to rise always in a direction precisely opposite to the sun, but to deviate or incline a little from thence towards those parts which the comet has lately left; and not only so, but to be bent into a certain curvature, the extremities of the tails deviating from the true opposition more in proportion than the other parts; and to be more dense, seemingly, and better defined on the convex than on the concave side. And further, that the longer the tail is, the more sensible is the curvature, as being the greatest at the greatest distance from the body of the comet. Upon these accounts Sir Isaac thinks it evident, that the phenomena of the tails of comets depend on the motion of their heads, and that the heads furnish the matter which forms the tails.

Mr. Rowning, who is not satisfied with Sir Isaac’s opinion, accounts for the tails of comets in the following manner. It is well known, says he, that when the light of the sun passes through the atmosphere of any body, as the earth, that which passes on one side, is by the refraction thereof made to converge towards that which passes on the opposite side; and this convergency is not wholly effected either at the entrance of the light into the atmosphere, or at its going out; but that beginning at its entrance, it increases in every point of its progress. It is also agreed, that the atmospheres of the comets are very large and dense. He therefore, supposes, that by first time as the light of the sun has passed through a considerable part of the atmosphere of a comet, the rays thereof are so far refracted towards each other; that they now begin sensibly to illuminate it, or rather the vapours floating therein, and so render that part which they have yet to pass through visible to us; and that this portion of the atmosphere of a comet thus illuminated, appears to us in the form of a beam of the sun’s light, and passes under the denomination of a comet’s tail. This is the hypothesis of Mr. Rowning: how well it answers the phenomena of the tails, may be seen in his system of natural philosophy, part IV. cap. 11.

To determine the apparent place and course of a Comet. One method by which astronomers investigate them is this. They observe what two stars are directly one on one side of the comet, and the other on the other; which is done by holding up a thread between the eye and the two stars, and extending it in such manner, as that it shall seem to cross each star: then they look out two other stars in such situation also, that the comet shall appear in a line that passes from one to the other which are found as before. Then they extend a thread upon the celestial globe from one of the two first stars to the other; and another thread from one of the two last stars to the other; and the point on the globe where the threads cross, is the apparent place of the comet at the time the observation was made. This they do daily, and so trace out its apparent course in the heavens.

To determine the parallax of a Comet. See the article Parallax.

Trajectory of a Comet. See the article Trajectory.

COMETARIUM, a curious machine exhibiting an idea of the revolution of a comet about the sun. It is contrived in such a manner, as by elliptical wheels to shew the unequal motion of a comet in every part of its orbit. The comet is represented by a small brass ball, carried by a radius vector, or wire, in an elliptic groove about the sun in one of its foci, and the years of its period are shewn by an index moving with an equable motion over a graduated silver circle. See a representation of it in plate XLV, fig. 3. and Martin’s Philosoplia Britannica, vol. I. p. 140, &c.

When the lid is taken off the box, it appears as follows: NO and QT are the elliptic wheels, turning each other about their foci I and S, by means of a cat-gut string in a groove on their edges crossing at K. N O is moved by the circular wheel 1, which is itself moved by the wheel G; and this by an endless screw turned by a winch on the outside of the box. The ellipses PLIM, described about the foci S, represents the comet’s orbit.

COMETA MARINA, in zoology, the name by which some call the larger kind of alterias, or star-fish. See Star-fish.

COMFREY, the English name of a genus of plants, called by botanists symphytum. See the article Symphytum.

Spotted Comfrey, a name sometimes used for pulmonaria, or lung-wort.

COMITATUS POSSE. See the article Posse Comitatus.

COMITIA, in roman antiquity, an assemblage of the people, either in the comitium or campus-martius, for the election of magistrates, or consulting on the important
portant affairs of the republic. See the articles Comitium and Campus-martius.

There were certain days fixed for these assemblies, called dies comitiales, marked with a C in Julius Caesar’s calendar.

There were three kinds of comitia, viz. curiata, centuriata, and tributa, so distinguished from the manner wherein the people voted, and gave their suffrages, viz. by curia, or parishes, tribes, or centuries. The comitia curiata owe their original to the division which Romulus made of the people into thirty curiae, which answer in most respects to our parishes. The comitia centuriata were instituted by Servius Tullius. Comitial assemblies held for the election of confuls, were called consulular comitia. In like manner the other comitia were named from the officer to be created, whether a tribune, pontif, etc., or the like. The power of calling these assemblies, belonged at first only to the kings: but on the establishment of the democracy, the same privilege was allowed to most of the chief magistrates, and sometimes to the pontiffs.

Comitialis morbus, an appellation given to the epilepsy, by reason the comitia of ancient Rome were dissolved, if any person in the assembly happened to be taken with this distemper.

Comitium, in roman antiquity, a large hall in the forum, where the comitia were ordinarily held. See the articles Forum and Comitia.

This hall was a long time open at top, for which reason the assemblies were often interrupted by bad weather. It was first covered in the time of the secong punic war, and according to Rosinus, the confuls and tribunes were not created in the comitium, but in the campus-martius.

Comma, among grammarians, a point or character marked thus (,) serving to denote a short stop, and to divide the members of a period. Different authors define and use this point so differently, that it is difficult to ascertain the precise use of it. The ordinary doctrine concerning it, conveys no clear or distinct idea of it; being thus, that it serves to distinguish nouns, verbs, adverbs, and such divisions of a period as are not necessarily joined together; some say indeed, that the comma serves to distinguish those members of a period in each whereof is a verb and the nominative case of a verb. Thus, though nothing

COMMANDMENT, in a legal sense, is used variously: sometimes it is taken for the commandment of the king; as when, upon his own motion, and from his own mouth, he orders any person to prison. Sometimes it is used for the commandment of the justices: this commandment is either absolute, or ordinary. Absolute, is when a justice commits a person to prison for contempt, &c. upon his own authority, as a punishment. Ordinary, is where a justice commits a person rather for false custody than for punishment; the person, thus committed by ordinary commandment, is bailable. In another sense of the word, magistrates may command others to afflict them in the execution of their offices, in order to keep the king’s peace, &c.

Commandment is likewise used for the offence of a person that wilts or orders another to do some unlawful act, as

4 R

theft,
theft, murder, or the like. To com-
mand any one to commit burglary, is
felony excluded clergy; and he who
commands the doing any act that is un-
lawful, is accussory to it and all the con-
sequences thereof, if executed in the fame
manner as commanded; tho' not, where
it varies, or where the commander re-
vokes the command. In trespasses, &c.
a matter shall be charged with the acts
of his servant, done by his command ;
however, servants shall not be excused for
committing any crime, when they act
by command of their masters, who have
no such power over them as to enforce
such commandments. The commands
of infants or femc-coverts are void.
COMMANDRY, a sort of benefice, or
certain revenue, belonging to a military
order, and conferred on antient knights,
who had done services to the order, as
the commandries of Malta.
The commandries of Malta are of dif-
terf kinds: for as the order consists of
knights, chaplains, &c. there are pecu-
 liar commandries or revenues attached to
each; and the knights to whom one of
these benefices is given, is called com-
mander.
There are also commandries for the re-
ligious in the order of St. Bernard, and
St. Anthony. The kings of France
have converted several of the hospit als
for lepers into commandries of the order
of St. Lazarus.
COMMELINA, in botany, a genus of the
triandra-monogynia class of plants, whose
corolla consists of six petals; the exte-
rior three of which are small, oval, and
concave, of the dimensions of the peri-
anthium; the three interior and alter-
ate petals are large, roundish, and co-
loured. The fruit is a naked, roundish
epible, containing three cells, and di-
vided by three valves: the seeds, being
two only, are angulated.
COMMIGNATION, in a general
sense, the remembrance of any person or
thing; or the doing any thing in ho-
bour of a person's memory, or in re-
membrance of any past event. Thus
the eucharist is a commemoration of the
sufferings of Jesus Christ.
It is a practice among the roman-catho-
lies for dying persons to leave a legacy
to the church, for the reching of masses
in commemoration of them.
COMMENRATION is also the name of two
religious fealls, otherwise called All-saints
and All souls. See All-saints and
All-souls.
COMMENDAM, in the ecclesiastical law,
the fruit or administration of the reve-
 nues of a benefice, given either to a lay-
man, to hold, by way of depefition, for
fix months, in order to repairs, &c. or to
an ecclesiastick, or beneficed person, to
perform the pastoral duties thereof, till
once the benefice is provided with a re-
gular incumbent.
Commandams were formerly a very lau-
dable institution: for when an elective
benefice became vacant, for which the
ordinary could not, for some reason,
immediately provide, the care of it was
recommended to some man of merit, who
took upon him the direction of it, till
the vacancy was filled up, but enjoyed
none of the profits.
At length it became a maxim among the
canonists, that a clerk might hold two
benefices, the one titular, and the other in
commandam: yet still, the commendam
was to continue only till other provisions
were made; and afterwards, they began
to be given for a determinate time.
COMMEND, in the church of Rome, is
likewise a real title of a regular benefice,
such as an abbey or priory, given by the
pope to a secular clerk, or even to a lay-
man, with a power to dispole of the
fruits thereof during life.
In England, the right of granting bene-
fices in commendam is vested in the
crown by a statute of Henry VIII. This
right was contefted in the reign of king
James I. when it was dispute, not only
whether the king might grant a commen-
dam, but whether or no they were to
be granted without necessity.
COMMENDATORY, in a general sense,
something belonging to a commendam.
COMMENDATORY ABBOT. See Abbot.
COMMENDATUS, in our old customs,
one that lives under the patronage of some
great person: hence commendati homines,
were those who by voluntary homage put
themselves under the protection of a supe-
rrior lord; and commendati dimidi, those
who had dependance on two several lords,
and were to pay each one half of their
homage.
COMMENSURABLE, among geometri-
cians, an appellation given to such quan-
tities as are measured by one and the
same common measure: thus if the line
be equal to

And

s, and
8, and the line $B$ equal to 4 inches, these two lines will be commensurable, since the same common measure 2, measures them both.

**Commensurable Numbers**, whether integers or fractions, are such as can be measured or divided by some other number, without any remainder: such are $12$ and $18$, as being measured by $6$ or $3$.

**Commensurable in Power**, is said of right lines, when their squares are measured by one and the same space, or superficies.

**Commensurable Surds**, those that being reduced to their least terms, become true figurative quantities of their kind; and are therefore as a rational quantity to a rational one.

**Commentary, or Comment**, in matters of literature, an illustration of the difficult or obscure passages of an author.

It is an observation of Evremond, that commentators usually find beauties, and even doctrines, that the original author never dreamt of.

**Commentary, or Commentaries**, like-wise denotes a kind of history, or memoirs of certain transactions, wherein the author had a considerable hand: such are the commentaries of Caesar.

**Commerce**, a term used for the buying, selling, or bartering of all manner of commodities, in order to profit by the same.

Instead of shewing how commerce flourished, and what encouragement it met with among the Egyptians, Phoenicians, Carthaginians, Greeks, Romans, &c. our labour will be better bestowed in examining upon what footing it stood among our ancestors, and how it is, or ought to be esteemed at present. The large share which the trading part of the nation has in the legislature, evidently proves how high it was valued by our ancestors: for whilst one, or at the utmost two members were thought sufficient to represent a whole county in parliament, most boroughs send an equal number of burgesses to take care of their trading interest; so that these last amount to 334, whereas the knights for the counties are only 80, and the citizens for the cities 50. Great traders have likewise been distinguished by particular marks of honour. They have been created knights, knights of the Garter and Bath, bannerets, baronets, barons and earls; which sufficiently proves, that trading was not only formerly, but is, at present, thought to be of the greatest consequence to the nation; and never did, or can, by our laws and customs, detract from any man or family; but, on the contrary, that some of the best houses among the nobility are the descendants of great traders: thus the late earl of Havercamp was originally a merchant, the present earl of Tilney's grandfather the same; as was the great-grandfather of the present duke of Bedford, and numberless others. And why should not commerce, as well as law and divinity, or the sword, be a road to the highest honour? It is prudence and activity that distinguishes a man from the common herd of mankind; and if he who saves a town, or a body of troops, be rewarded with honours, is it not just, that the man who establishes new manufactures, or branches of trade, whereby thousands are not only maintained but made happy, should be honoured by his prince, and respected by his fellow-subjects?

As to the great advantages of commerce, may it not be deemed the basis of civil society, and the most necessary principle to unite all men of whatever country or condition? Is it not an inexhaustible source of plenty to all the world? By it, the mercantile people of all nations seem to be but one body incorporated; the riches of every trading town circulate into the hands of poor and industrious mechanics; and the necessities and conveniences of one place supplied from the most distant shores of the East and West Indies. Without commerce, the greatest states make but a poor figure; being neglected and despised by their neighbours, and unable to provide for their numerous poor at home; whereas commerce flourishes, these add grandeur to the state, and the merchants live like princes, and at the same time provide the fines of war against the most daring attacks of their enemies.

The cities of Venice and Genoa have been raised merely by commerce; and to its decay, may be ascribed the diminution of their influence and power. So long as the counts of Flanders cared for the woolen-manufacturers, nothing could compare to the wealth of the cities of Bruges and Ghent: whereas the workmen, when loaded with impositions and taxes, together with their manufactures, carried riches and wealth to England and Antwerp.
Antwerp. Holland receives from, and
sends embassadors to, crowned heads. It
ranks with the most distinguished states,
and is behind none of them for the
plenty it enjoys both of the necessaries
and the agreeable, for the boldness of its en-
terprises, and the wisdom of its govern-
ment. And what are the Dutch but a
set of merchants, who take a pride in
their trade, as average, baratry, bottomry, bill of
lading, charter-party, freight, &c.
Those relating to shipping,
as bounty, drawback, duties, customs, board of trade and plantation,
&c. 4. Such as regard manufactures,
as cloth, linnen, stuffs, hats, lace, &c. and
even woollen-draper, linen-draper, &c.
COMMINATORY, an appellation given
to whatever threatens punishment, or
some penalty: such is that part of a
felon's sentence of banishment, which
makes it death if he return before a cer-
tain time.

COMMINUTION, denotes the breaking,
or rather grinding, a body to very small
particles.

COMMISSARY, in the ecclesiastical law,
an officer of the bishop, who exercises
spiritual jurisdiction in places of a dio-
ce; so far from the episcopal see, that
the chancellor cannot call the people to
the bishop's principal consistory court,
without giving them too much incon-
venience.

In Scotland, these commissaries are still
continued, notwithstanding episcopacy is
now no more.

COMMISSARY, in a military sense, is of
three sorts.

COMMISSARY general of the musters, an
officer appointed to muster the army, as
often as the general thinks proper, in
order to know the strength of each regi-
ment and company, to receive and in-
spect the muster-rolls, and to keep an
exact state of the strength of the army.

COMMISSARY general of stores, an officer
in the artillery, who has the charge of
all the stores, for which he is accountable
to the office of ordnance.

COMMISSARY general of provisons, an offi-
cer who has the inspection of the bread,
and provisions of the army.

COMMISSION, in common law, the war-
rant or letters-patent which all persons,
exercising jurisdiction, have to empower
them to hear or determine any cause or
suit: as the commissions of the judges,
&c.

Most of the great officers judicial and
ministerial of the realm, are made also
by commission; by means of commissio-
ns, oaths, cognizance of fines, answers in
chancery, &c. are taken; witnesses ex-
amined, offices found, &c.
COMMISSION of anticipation, was a commission formerly issued under the great seal, to collect a subsidy before the day.

COMMISSION of association, was a commission under the great seal, to associate two or more learned persons with the justices in the circuits and counties of Wales.

COMMISSION of bankruptcy, is the commission that issues from the lord chancellor, on a person's becoming a bankrupt within any of the statutes, directed to certain commissioners appointed to examine into it, and to secure the bankrupt's lands and effects, for the satisfaction of his creditors. See Bankrupt.

COMMISSION of charitable uses issues out of the chancery, directed to the bishop and others of the diocese, where any lands given towards charitable uses are misspent, &c. in order to inquire into and redress the abuse.

COMMISSION of delegates, a commission under the great seal, directed to certain persons, usually two or three temporal lords, as many bishops, and two judges of the law, authorising them to fit upon an appeal to the king, in the court of chancery, from a sentence given by the archbishop in any ecclesiastical cause.

COMMISSION of lunacy issues out of the court of chancery, to inquire whether a person represented to be a lunatic be fo or not.

COMMISSION of peace. See the article Justice of peace.

COMMISSION of rebellion, generally termed a warrant of rebellion, issues where a person, after proclamation made by the sheriff, on a process out of the chancery or exchequer, required, upon pain of his allegiance, to present himself to the court by a day assigned, neglects to appear.

COMMISSION of searchers, is a commission directed to certain persons, to inspect and see drains and ditches well kept in the marshy and fenny parts of England, for the better conveying of water into the sea, and preserving the grass on the land.

COMMISSION OFFICERS. See the article Officer.

COMMISSION, in commerce. See the article Factorage.

COMMISSIONER, a person authorised by commission, letters-patent, or other lawful warrant, to examine any matters, or execute any public office, &c. See Commission and Warrant.

Besides those relating to judicial proceedings, there are

COMMISSIONERS of the customs. See the article Customs.

COMMISSIONERS of excise. See Excise.

COMMISSIONERS of the navy. See the article Navy.

Lords Commissioners of the treasury. See Treasury and Exchequer.

There are also commissioners of hawkers and pedlars, commissioners of alienation, commissioners of the stamps, &c.

COMMISSUM FIDEI, or FIDEI COMMISSUM. See FIDEI COMMISSUM.

COMMISSURE, commissura, a word used by several authors for the small pores of any body, or the little clefts, cavities, or interstices, which are between the particles of any body, especially when the particles are broadish and flatish, and lie contiguous to one another like very thin plates. See the article Pore, &c.

COMMISSURE, in architecture, &c. the joint of two stones, or the application of the side of one to that of the other.

COMMITMENT, in law, the sending of a person, charged with some crime, to prison, by warrant, or order.

A commitment may be made by the king and council, by the judges of the law, the justices of peace, or other magistrates who have authority by the laws and statutes of the realm to do. Every commitment should be made by warrant under the hand and seal of the party committing, and the cause of commitment is to be expressed in the warrant. The terms of it must also require the criminal to be kept in custody till discharged according to due course of law, &c.

COMMITTEE, one or more persons, to whom the consideration or ordering of a matter is referred, either by some court, or by the consent of parties, to whom it belongs.

COMMITTEE of the king, is used, in our old customs, for the widow of the king's tenant, committed, by the ancient laws of the realm, to the king's care and protection.

COMMITTEE of parliament, a certain number of members appointed by the house, for the examination of a bill, making report of an inquiry, process of the house, &c.

When a parliament is called, and the speaker and members have taken the oaths, there are committees appointed to sit on certain days, viz. the committee of privileges and elections, of religion, of trade, &c. which are standing committees.

Some-
Sometimes the whole house resolves itself into a committee, on which occasion each person has a right to speak and reply as often as he pleases, which is not the case when a house is not in a committee.

COMMODATE, commodatum, among civilians, differs only from a loan, as things lent may be returned in kind, though not in identity; which is otherwise in regard to the commodate.

COMMERTY, in a general sense, denotes all sorts of wares and merchandises whatsoever, that a person deals or trades in. See the article COMMERCE.

Staple Commodities, such wares and merchandises as are commonly and readily sold in a market, or exported abroad; being, for the most part, the proper produce or manufacture of the country.

COMMODORE, in maritime affairs, an officer of the British navy, commissioned by the lords of the admiralty, or by an admiral, to command a squadron of men of war in chief.

COMMON, something that belongs to all alike, in contradistinction to proper, peculiar, &c. Thus the earth is said to be our common mother.

COMMON Bench, a name by which the court of common pleas was antiently called. See COMMON PLEAS.

COMMON COUNCIL. See COUNCIL.

COMMON DUCT, in anatomy. See the article DUCTUS COMMUNIS.

COMMON HUNT, the chief huntman belonging to the lord mayor and aldermen of London.

COMMON LAW, that body of rules received as law in England, before any statute was enacted in parliament to alter the same.

The common law is grounded upon the general customs of the realm, including the law of nature, the law of God, and the principles and maxims of law: it is also founded on reason, as said to be the perfection of reason, acquired by long study, observation, and experience, and refined by the learned in all ages. It may likewise be said to be the common birthright that the subject has for the safeguard and defence not only of his goods, lands, and revenues, but of his wife, children, life, fame, &c. Our common law, it is said, after the heptarchy, was collected together into a body, by divers of our ancient kings, who commanded, that it should be observed through the kingdom; and it was therefore called common law, because it was common to the whole nation, and before only affected certain parts thereof; being antiently called the folk-right, that is, the right of the people.

COMMON PLACE BOOK, adversaria, among the learned, denotes a register of what things occur, worthy to be noted in the course of a man's study, so disposed, as that among a number of subjects, any one may be easily found. Several persons have their several methods of ordering them; but that which is best recommended, is Mr. Locke's method, which he has published in a letter to Mr. Toitnard, determined thereto by the great convenience and advantage he had found from it, in twenty years experience.

Dr. Felton, in his Introduction to the Classics, ridicules the practice of common-placing, with more wit, however, we think, than argument; for if a common-place book be well contrived, if the passages taken down are dispersed in a regular manner, the expedient must certainly be of great service. Few readers are capable of remembering all the beautiful sentiments and reflexions that are to be met with in an author; a common-place book, therefore, is a repository, where fine observations upon all subjects are so ranged, that the reader may have recourse to them on all occasions.

COMMON PLEAS is one of the king's courts now held constantly in Westminster-hall, but in former times was moveable.

All civil causes, as well real as personal, are, or were formerly, tried in this court, according to the strict law of the land. In personal and mixed actions it has a concurrent jurisdiction with the king's bench, but has no cognizance of pleas of the crown. The actions belonging to the court of common pleas come thither by original, as arrests and outlawries; or by privilege, or attachment for or against privileged persons; or out of inferior courts, not of record, by bond, recordarii, accedas ad curiam, writ of false judgment, &c. The chief judge of this court is called lord chief justice of the common pleas, who is assisted by three other judges: the other officers of the court are the culfos breviwm, who is the chief clerk; three prothonotaries, and their secondayes; the clerk of the warrants, clerk of the eflions, fourteen flazers, four exigentors, a clerk of the juries, the chirographer, the clerk of the king's silver, clerk of the treasury, clerk of the seal, clerk of the outlawries, clerk of the
COMMON DAY, in plea of land, signifies an ordinary day in court, as in eight days of Hilary, from the day of Easter in fifteen days.

COMMON FINE. See CERT MONEY.

COMMON INTENDMENT, a common meaning of any thing, without straining it to any foreign, remote, or particular sense. Hence bar to common intendment, is a general bar, which commonly disables the plaintiff's declaration. There are several cases where it takes place in our law.

COMMON PRAYER is the liturgy in the church of England. Clergymen are to use the public form of prayers prescribed by the Book of Common Prayer; and refusing to do so, or using any other public prayers, are punishable by a fine. See PARLIAMENT.

COMMON, in grammar, denotes the gender of nouns, which are equally applicable to both sexes: thus parents, a parent, is of the common gender.

COMMON, in geometry, is applied to an angle, line, or the like, which belongs equally to two figures.

COMMON DIVISOR, a quantity or number which exactly divides two or more other quantities or numbers, without leaving any remainder.

COMMON month, motion, object, receptacle, senility, time, year, etc., See the articles.

COMMONER, or GENTLEMAN COMMONER, in the universities, a student entered in a certain rank.

COMMONS, or HOUSE OF COMMONS, a denomination given to the lower house of parliament. See PARLIAMENT.

COMMONS, or COMMONALTY, likewise signifies the whole body of the people under the degree of a baron, whether knights, gentlemen, burgesses, yeomen, &c.

DOCTORS COMMONS. See COLLEGE OF CIVILIANS.

PROCTOR OF THE COMMONS. See PROCTOR.

COMMONS is also used for the slated public diet of some society, as a college, the inns of court, &c. to which all the members are obliged to contribute, whether they attend or not.

COMMONWEALTH, the same with republic. See the article REPUBLIC.

COMMOTE, in political geography, the half of a cantred. See CANTRED.

COMMOTION, an intense motion in the parts of any thing.
In medicine the term is applied to a blow or shake of the brain. Thus a fall occasions a commotion, producing sometimes a convulsion, and at other times a rupture of the vessels, and an apoplexy by shaking the whole mass of the brain.

**COMMUNAM** APPROPRIARE, in law. See APPROPRIARE COMMUNAM.

**COMMUNE** RECTUM, in law. See the article RECTUM COMMUNE.

**COMMUNIBUS LOCIS**, a Latin term frequently used by philosophical writers, implying some medium or common relation between several places. Thus Dr. Keil supposes the ocean to be one quarter of a mile deep communibus locis, that is at a medium, or taking one place with another.

**COMMUNIBUS ANNIS** has the same meaning with regard to time, that communibus locis has with regard to places.

**COMMUNICATING**, in divinity, the act of receiving the sacrament, or communion. See COMMUNION. Protestants, as well as the Greek church, communicate under both kinds; but the papists deny the cup to the laity.

**COMMUNICATION**, in a general sense, the act of imparting something to another.

**COMMUNICATION** is also used for the connection of one thing with another, or the passage from one place to another: thus a gallery is a communication between two apartments.

**COMMUNICATION of idioms**, in theology, the act of imparting the attributes of one of the natures in Jesus Christ to the other.

It is by this communication that we say God suffered, and died, &c. which, strictly speaking, is only understood of the human nature; and is wholly founded on the union of the two natures in the person of Christ.

The Lutherans carry the communication of idioms so far as to say, that Jesus Christ is not only in his divine nature, and by reason of his divine person, but also, really and properly, in his humanity, immortal, immemorial, &c.

**COMMUNICATION of motion**, the act whereby a body at rest is put into motion by a moving body; or, it is the acceleration of motion in a body already moving.

Sir Isaac Newton demonstrates, that action and re-action are equal and opposite; so that one body striking against another, and thereby occasioning a change in its motion, does in itself undergo the same change in its own motion the contrary way. Whence a moving body, striking directly against another at rest, loses as much of its motion as it communicates to the other, and they will proceed with the same velocity as if grown into one mass.

If, therefore, the body in motion be triple that at rest, against which it strikes, it will lose a fourth part of its motion; and whereas, before the stroke, it would have run over, v. g. a line of 40 feet in a given time, it will only run over 30 after it; having lost a fourth part of its velocity.

If a moving body strike another already in motion, the first will augment the velocity of the latter; but will lose less of its own motion, than if the latter had been absolutely at rest. Thus, if a body in motion be triple that at rest, and strike against it with 24 degrees of motion, it will communicate 6 degrees of its motion to the other, and retain 18 itself: whereas if the other had already 4 degrees of motion, the first would only communicate 3, and retain 21; since those 3 were sufficient, in regard to the inequality of the bodies, to make them proceed with equal velocity.

After the same manner may be determined the other laws of communication of motion in bodies perfectly hard and void of all elasticity: but all hard bodies, that we know of, have an elastic power, and the laws are different, and much more intire in elastic bodies. See the articles ELASTICITY and PERCUSSION. If a body happen to decline out of the way, when moved by another, so as to leave a free passage to the body by which it was moved, yet that will only proceed with the velocity which it had after its communication to the other, and not with that it had before; it being a rule, that every thing endeavours to perserve, not in the state wherein it was formerly, but in that wherein it is at that juncture. Therefore a body that has already lost part of its motion, by its meeting with another, may still lose more by a second, and a third, so as, at length, to become perfectly quiet.

Hence, if two unequal homogeneous bodies move in a right line with the same velocity, the greater must perserve in motion longer than the smaller; for the motions of bodies are as their masses: but each communicates of its motion to the circumjacent bodies which touch its surface;
Bridge of Communication. See the article Bridge.

Lines of Communication, in military matters, trenches made to continue and preserve a safe correspondence between two forts or posts; or at a siege, between two approaches, that they may relieve one another.

Communication, in matters of religion, the being united in doctrine and discipline; in which sense of the word, different churches are said to hold communion with each other.

In the primitive Christian church, every bishop was obliged, after his ordination, to send circular letters to foreign churches, to signify that he was in communion with them. The three grand communions into which the Christian church is at present divided, is that of the church of Rome, the Greek church, and the Protestant church: but originally all Christians were in communion with each other, having one common faith and discipline.

Communication is also used for the act of communicating in the sacrament of the eucharist, or the Lord's supper.

This sacrament was instituted by Christ himself, and the administration of it committed by him to his apostles, and to their ordinary successors. The sacramental elements were to be consecrated with solemn prayers and blessings, by the bishop or president, and then delivered by the deacons to the people, as well those who were absent, as those present. In the beginning of christianity, the whole body of Christians used constantly to meet together at the Lord's table, on all their public assemblies; their sacramental wine was usually mixed and diluted with water; and during the time of administration, they sung hymns and psalms, particularly the 23d psalm.

In the church of Rome, the priest only has the privilege of communicating in both kinds, whereas the laity communicate only under one: the taking of the cup from the laity, was enjoined by a decree of the council of Constance in the year 1414. The Roman Catholics pay the most superstitious regard to the consecrated elements. In the Greek church, the laity, as well as the clergy, receive the communion in both kinds: but their devotion, at the celebration of the eucharist, is excessive.

Communication-service, in the liturgy of the church of England, the office for the administration of the holy sacrament, extracted from several ancient liturgies, as those of St. Basil, St. Ambrose, &c.

By the last rubric, part of this service is appointed to be read every Sunday and Holyday, after the morning prayer, even though there be no communicants.

Communication-table, that wherein the elements of bread and wine, used in communicating, or partaking of the holy sacrament, are placed.

At the time of the reformation, a dispute arose in England, whether the communion-tables of the altar fashion, which had been used in popish times, and on which maïles had been celebrated, should be still continued; and it was ordered by the king and council, that they should be pulled down. On this there arose another dispute, viz. whether the new communion-tables should be placed altar-wise, or in the same place and situation with the former altars? And by an injunction of queen Elizabeth it was ordered, that holy tables should be decently made, and placed in the place where the altars had stood; that is, at the upper end of the chancel, next the wall; where they stand to this day.

Communis, common, is an appellation chiefly used by anatomists; in whose writings we meet with communis capsula, communis ductus, communis musculi, &c.

See Capsula, Ductus, &c.

Communis Misericordia. See the article Misericordia.

Community, a society of men living in the same place, under the same laws, the same regulations, and the same customs.

Communities are of two kinds, ecclesiastic or laick. The first are either secular, as chapters of cathedral and collegiate churches; or regular, as convents, monasteries, &c.

Lay-communities are of various sorts, some contracted by a fixed abode of a year and a day in the same place; others formed by the discharge of the same office, the profession of the same art; or the attending the same place of worship, as those of parishes, fraternities, &c. Accordingly the word is commonly understood of pious foundations, for the support of several persons either in a fe-
COMMUNITY, in the French law, denotes the joint property in goods between the husband and wife; the effect of which is, that they are equally intitled to all moveable goods, and all immovable estates acquired during the marriage, and equally liable to all debts contracted before or under marriage.

COMMUNITY continued, in the French law, is that which subsists between the survivor of two persons joined in marriage, and the minor children of that marriage, when the survivor has not made an inventory of the effects in possession during marriage.

COMMUNITY tacit, is that contracted between several persons by the mere mingling of their effects, provided they have lived together a year and a day. This community takes place only between children and a father or mother who survives, when no inventory of goods has been taken.

COMMUTATION, in astronomy. The angle of commutation is the distance between the sun's true place seen from the earth, and the place of a planet, reduced to the ecliptic. It is found by subtracting the sun's true place from the heliocentric place of the planet. See Heliocentric Place.

COMMUTATION, in law, the change of a penalty or punishment from a greater to a less; as when death is commuted for banishment, &c.

COMORIN, or CAPE COMORIN, the most southerly promontory of the hither India, lying north-west of the island of Ceylon.

COMORRA, a city of Hungary, situated on the Danube, at the end of the island of Schut, thirty-three miles south-east of Pestburg: east long. 18° 16', north lat. 48° 15'.

COMPACT, in physiology, is said of bodies which are of a cloie, dense, and heavy texture, with few pores, and they very small.

COMPACT is also the name of a famous bull confirmed by pope Paul IV. by virtue of which, cardinals are required to confer benefices in their natural state; that is, regular benefices on regulars, &c.

COMPANY, in general, denotes a number of people met together in the same place, and about the same design. With respect, however, to matters of pleasure or diversion, instead of company, we make use of the terms party or match.

COMPANY, in a commercial sense, is a so-
rious these companies may, at this time of day, be reckoned to the nation in general, yet it is certain, that they were the original parents of all our foreign commerce; private traders upon their own bottom being discouraged from hazarding their fortunes in foreign countries, till the methods of traffic had been settled by joint-flock companies: and from this very principle it is, that we find several nations at present endeavouring to extend their trade by the same means. The most ancient trading company, in Britain, is the Hamburgh company, originally called merchants of the staple, and afterwards merchant-adventurers: they were incorporated by king Edward IV. from which time they traded with success till the reign of queen Elizabeth, who, for a farther encouragement of their industry, not only confirmed, but enlarged their privileges. However, it ought to be observed, that this trade is now open to private merchants, upon paying a very small sum to the company. The company of this kind, next incorporated, was that of the Russian merchants; who having improved their trade and commerce in those remote parts, were incorporated by Edward VI. greatly encouraged by queen Mary, and had their confirmation, with an enlargement of their privileges, from queen Elizabeth. This company is not very considerable at present; the trade of those parts being mostly carried on by private merchants, on paying the sum of 5l. to the company.

The Eastland-company, formerly called merchants of Elbin, were incorporated by queen Elizabeth, and by her greatly encouraged; but, like the former company, it is now become inconsiderable, the trade to Norway and Sweden being laid open by act of parliament.

The Turkey, or Levant-company, was likewise incorporated by the same princes, and its charter confirmed and enlarged by king James I. who impowered them to trade to the Levant, or eastern parts of the Mediterranean; particularly to Smyrna, Aleppo, Alexandria, Grand-Caïro, and the other parts of the Turkish dominions. But this trade is now also laid open to private merchants, upon paying a small consideration.

The next in order is the East-India-company, first incorporated in the year 1600, and impowered to trade to all countries lying eastward of the cape of Good Hope. Towards the end of king William's reign, an act of parliament passed, granting all private merchants, who should raise a certain sum for the supply of the government, the privilege of trading to these parts: accordingly, a great many subscribed, and were called the new East-India-company; which soon found it necessary to unite with the old one, and trade with one joint flock: since which time, they have been called the united East-India-company; and are, at present, in a flourishing condition, and in possession of many considerable forts and factories on the coast of Malabar, the Cromandel-coast, the bay of Bengal, &c.

The royal African-company was first erected in the year 1661, with an exclusive privilege to trade from Cape Blanc on the coast of Africa, in 20° north latitude, as far as the cape of Good Hope. But this trade is now laid open by act of parliament.

The Eastland-company, the Greenland-company, the Hudson's-bay-company, the South-sea-company, have likewise their several charters and privileges for trading to the places from which they take their denominations. These are the principal trading companies belonging to the crown of Great Britain; and of a similar nature are the Dutch East and West-India-companies, the French East and West-India-companies, &c.

Concerning these companies, it may be proper to remark, that however necessary they might be in the infancy of trade, they are now looked upon by most men in the light of monopolies: hence it is, that their privileges have from time to time been lessened, in order to establish an absolutely free and general trade; and experience hath shewn, that the trade of the nation has advanced in proportion as monopolies have been laid aside. Indeed, to carry on trade with distant countries, where forces and forts are to be maintained, a company with a joint flock seems necessary; or, at least, certain duties ought to be paid, by all who trade thither, towards defraying the said expences: for not to speak of the East-India, Hudson's-bay, &c. companies, the expense of maintaining whole forts must be very considerable, even the Turkey, Hamburgh, Muscovy, and Eastland companies, which do not trade with a joint flock, are nevertheless oblig-
ed to be at considerable charges, in making presents to the grand seignior and his munitions, maintaining confuls, &c. It would therefore be injustice if any should trade to the places within their charters, without paying the same duties towards the company's charge, as the present adventurers pay; but then there appears to be no reason why any of the king's subjects should be barred from trading to those places, or forced to pay a great fine for admission, that are willing to pay the company's duties, and submit to their regulations and orders in other respects.

On the whole, as all restrictions of trade are found to be hurtful, nothing can be more evident than that no company whatsoever, whether they trade in a joint flock, or only under regulation, can be for the public good, except it may be easy for all or any of his majesty's subjects to be admitted into all or any of the said companies, at any time, and for a very inconisiderable fine.

**Company**, in military affairs, a small body of foot, commanded by a captain, who has under him a lieutenant and ensign. The number of centinels, or private soldiers in a company, may be from 50 to 80; and a battalion consists of thirteen such companies, one of which is always grenadiers, and posted on the right: next them stand the eldest company, and on the left the second company; the youngest one being always posted in the center.

Companies not incorporated into regiments are called irregulars, or independent companies.

**Artillery Company.** See the article **Artillery.**

**Company of Ships,** a fleet of merchantmen, who make a charter-party among themselves, the principal conditions whereof usually are, that certain vessels shall be acknowledged admiral, vice-admiral, and rear-admiral; that such and such signals shall be observed; that those which bear no guns, shall pay so much per cent. of their cargo; and in case they be attacked, that what damages are sustained, shall be reimbursed by the company in general. In the Mediterranean, such companies are called concaves.

**Rule of Company,** in arithmetic, the same with fellowship. See **Fellowship.**

**Comparates, comparata,** among logicians, denote the terms of a comparison, or the subjects compared to each other. See the article **Comparison.**

**Comparatione,** or punctum ex comparatione, in conics. See **Punctum.**

**Comparationis homogeneum,** in algebra. See the article **Homogeneum.**

**Comparative,** in general, denotes something that is compared to another. Thus,

**Comparative Anatomy,** is that branch of anatomy which considers the secondary objects, or the bodies of other animals; serving for the more accurate distinctions of several parts, and supplying the defect of human subjects. It is otherwise called the anatomy of beasts, and sometimes zootomy; and stands in contradistinction to human anatomy, or that branch of the art which considers the human body, the primary object of anatomy. See **Anatomy.**

**Comparative Degree,** among grammarians, that between the positive and superlative degrees, expressing any particular quality above or beneath the level of another.

The French form most of their comparatives by the addition of the particles plus, moins, and auffi: the Italians, by piu, meno, &c. as the quality of any thing is to be raised, lowered, or equalled to another.

The English of most other modern languages, comes in this particular next the Latin, which expresses the comparative degree by a peculiar termination of its adjectives: thus, as the Latins say, lucidus, lucidior, lucidissimus; so we say in English, bright, brighter, brightest. The same holds in most other infinitives, as formosus, formosior, formosissimus; in English, fairer, fairest. Again, as the Latins have anomalous, or irregular degrees of comparison, to have the English, and frequently in the same infinitives: thus, bonus, melior, optimus is expressed in English, by good, better, best; and so in other examples. However, the regular comparative degree in English, is formed by adding the syllable er, or prefixing the word more, to the positive degree: thus, from long, narrower, &c. are formed longer, narrower; and from wide, prudent, &c. come more wide, more prudent, &c.

**Comparison,** in a general sense, the consideration of the relation between two persons or things, when opposed and set against each other, by which we judge of their agreement or difference, and find out wherein the one has the advantage of the other.
Comparison of ideas, among logicians, that operation of the mind whereby it compares its ideas one with another, in regard of extent, degree, time, place, or any other circumstance, and is the ground of relations. This is a faculty which the brutes seem not to have in any great degree. See Idea and Relation.

Comparison, in grammar, the inflection of the comparative degree. See the article Comparative.

Comparison, in rhetoric, a figure that illustrates and sets off one thing, by resembling and comparing it with another, to which it bears a manifest relation and resemblance, as the following figure in Shakespeare.

She never told her love,
But let Concealment, like a worm,
Feed on her damask cheek: the
Pined in thought,
And that-like Patience on a monument,
Smiling at Grief.

Compartment, or Compartment. See Compartment.

Compartment, in architecture, denotes the useful and graceful disposition of the whole ground-plan of an edifice, into rooms of office, and of reception or entertainment. See Building.

Compartment, or Compartment, in general, is a design composed of several different figures, disposed with symmetry, to adorn a parterre, a ceiling, &c.

A compartment of tiles, or bricks, is an arrangement of them, of different colours, and varnished, for the decoration of a building. Compartments, in gardening, are an assemblage of beds, plots, borders, walks, &c. disposed in the most advantageous manner that the ground will admit of. Compartments, in heraldry, are otherwise called partitions. See the article Partition.

COMPASS, or mariner's Compass, an instrument whereby the ship's course is determined.

This instrument, which is a representation of the horizon, is a circle divided into 32 equal parts, by right lines drawn from the center to the circumference, called points, or rubms, being also divided into 360 equal parts, or degrees; and consequently, the distance between, or angle formed by any two rubms, is equal to 11° 15'. The four principal of these rubms are called the cardinal points, and take their names from the places to which they tend, viz. that which extends itself under the meridian, pointing towards the north, is called north; and its opposite one, pointing towards the south, is called south; that which is towards the right-hand, the face being directed north, is termed east; and its opposite, west. The names of the others are compounded of these, according to their situation, as may be seen in plate XLVI. fig. 3. N°. 1. On the backside of the north and south points is fastened a needle, which, being touched with a magnet or lodestone, is ended with a magnetic virtue, whereby the north and south points are nearly directed towards the north and south points of the horizon; and is, therefore, of the greatest use in determining the ship's course, and alteration of the winds. See the article Variation of the Compass.

In the center of this card is fitted a brass cone, or cape, a little concave, which, being placed upon a pivot, fixed perpendicularly in the middle of the box, plays at liberty on the pivot; the top of the box is covered with a glass, that the motion of the card may be observed. The whole is inclosed in another box, where it is sustained by brass hoops to keep it always in a horizontal position. See a perspective view of it, ibid. N°. 2.

The invention of this instrument is, by some, attributed to one John Goia, of Amalphi, in Campania, in the kingdom of Naples, who made the card thereof to consist of only eight points, viz. the four cardinal, and four collateral ones. Others say, it was the invention of the people of China; and Gilbert, in libro de magnete, affirms, that Paulus Venetus brought it first into Italy, in the year 1266, having learned it from the Chinee; and Lüdi Vertomanus affirms, that when he was in the East-Indies, about the year 1500, he saw a pilot of a ship direct his course by a compass, fastened and formed like those now commonly used.

And Mr. Barlow, in his navigator's supply, anno 1597, says, that in a personal conference with two East-Indians, they affirmed, that, instead of our compasses, they use a magnetic needle of six inches, and longer, upon a pin, in a dial of white china earth, filled with water, in the bottom whereof they have two cross lines, for the principal winds; the rest of their directions being left to the skill of their pilots.

COMPASS
COMPASS is also an instrument in surveying of land, dialing, &c. whose structure is chiefly the same with that of the mariner's compass; and, like that, consists of a box and needle; the principal difference being this, that, instead of the needle's being fitted into the card, and playing with it on a pivot, it here plays alone.

This instrument is of manifest use to travellers, to direct them in their road; and to miners, to show them what way to dig, &c. but the more considerable uses of this compass in taking the declination of a wall, in taking of angles, and plots of a field, &c. may be seen in the articles SURVEYING, DIALING, CIRCUMFERENTOR, &c.

Azimuth Compass. See the article AZIMUTH Compass.

This instrument consists of a card, moving in a box, like a mariner's compass; and on the top of the box, is a concentric circle of brass, plate XLVI. fig. 4. one semicircle whereof is divided into 90 equal parts, or degrees, numbering from the middle of the said divisions, both ways, with 10, 20, &c. to 45°; which degrees are also divided into minutes, by diagonal lines and circles: but these graduating lines are drawn from the opposite part of the circle, viz. from the b wherein the index turns in time of observation. b is that index moveable about the point b, having a light b a erect thereon, which moves with a hinge, that so it may be raised or laid down, according to necessity. From the upper part of this light, down to the middle of the index, is fastened a fine hypotenusal line, which is be placed right, by turning the dial about, till the cock or style stand directly over the needle, and point to the northward; then will that side of the index, respecting the center, cut on the brass circle the object's magnetic azimuth.

The reason of making the index move upon a pin fastened in b is, that the degrees and divisions may be larger; for now they are as large again as they would have been, if divided from the center, and the index moved to move thereon; and consequently are only 90, instead of 180. The above-mentioned broad circle of brass is crooked at right angles, with two threads; and from the end of these threads are drawn four small black lines, on the inside of the round box; also there are four right lines drawn at right angles to each other, on the card.

This round box, thus fitted with its card, graduated circle, index, &c. is to be hung in the brass hoops B B, and these hoops are fastened to the great square wooden box C C.

The use of the azimuth compass.

1. To find the sun or star's magnetic azimuth, or what point of the compass the object is upon, after it is above the horizon: Turn the whole compass-box to and fro, till the points of the brass compass coincide with those on the compass card, and let the ship be keeping the same point; turn the index towards the sun or star, at its rising or setting, till the two threads of the index be in a right line with the object; and that side of the index corresponding with the center of the instrument, will cut on the brass circle the degree, &c. of the object's magnetic azimuth, in quantity and quality, which is best counted from the nearest meridian point, easterly or westerly.

2. To find the sun or star's magnetic altitude, or what point of the compass the object is upon, after it is above the horizon: Turn the whole compass-box to and fro, till the points of the brass compass coincide with those on the compass card, and let the ship be keeping that point; turn the index towards the object, till the shadow of the thread fall on the backside of the index, or you see the two threads in a right line with the object; then will that side of the index, respecting the center, cut on the brass circle the object's magnetic altitude.

COMPASS-DIALS, are small horizontal dials, fitted in brasses or silver boxes, for the pocket, to show the hour of the day, by the direction of a needle, that indicates how to place them right, by turning the dial about, till the cock or style stand directly over the needle, and point to the northward: but these can never be very exact, because of the variations of the needle itself. See DIAL and NEEDLE.

COMPASS-SAW. See the article SAW.

COMPASSES, or pair of COMPASSES, a mathematical instrument for describing circles, measuring figures, &c.

The common compasses consist of two sharp-pointed branches, or legs, of iron, steel, brass, or other metal, joined at top by a rivet, whereon they move as on a center. See plate XLVII. No. 1.

The principal perfection of this, as of all other compasses, consists in the easy and uniform opening and shutting of their legs; one of which may be taken out, in order to make room for others.

There are now used compasses of various kinds and contrivances, accommodated to the various uses they are intended for; as,
COMPASSES of three legs are, setting aside the excess of a leg, of the same structure with the common ones: their use being to take three points at once, and so to form triangles; to lay down three positions of a map, to be copied at once, &c. ibid. No. 2.

Beam COMPASSES consist of a long branch, or beam, carrying two brass cursors, the one fixed at one end, the other sliding along the beam, with a screw to fasten it on occasion, ibid. No. 3.

To the cursors may be screwed points of any kind, whether steel, for pencils, or the like. It is used to draw large circles, to take great extents, &c.

Caliber COMPASSES. See CALIBER.

Clockmaker’s COMPASSES are joined like the common compasses, with a quadrant, or bow, like the spring compasses; only of different use, serving here to keep the instrument firm at any opening. They are made very strong, with the points of their legs of well tempered steel, as being used to draw lines on paste-board or copper. ibid. No. 4.

Cylindrical and Spherical COMPASSES, consist of four branches, joined in a center, two of which are circular, and two flat, a little bent on the ends: their use is to take the diameter, thickness or caliber of round or cylindrical bodies; such as cannons, pipes, &c. ibid. No. 5.

For the method of using them, see the article CALIBER compasses.

Elliptic COMPASSES consist of a cross ABGH, with grooves in it, and an index CE, which is fastened to the cross by means of dove-tails at the points CD, that slide in the grooves; so that when the index is turned about, the end E will describe an ellipsis, which is the use of these compasses. ibid. No. 6.

German COMPASSES have their legs a little bent outwards, towards the top, so that when shut, the points only meet. ibid. No. 7.

Lapidary’s COMPASSES are a piece of wood, in form of the shaft of a plane, cleft at top, as far as half its length: with this they measure the angles, &c. of jewels and precious stones, as they cut them. There is in the cleft a little brass rule, fastened there at one end by a pin; but so that it may be moved in manner of a brass level: with this kind of square they take the angles of the stones, laying them on the shaft, as they cut them.

Proportional COMPASSES are such as have two legs, but four points, which, when opened, are like a cross, as not having the joint at the end of the legs like common compasses: some of these have fixed joints, others moveable ones; upon the legs of the latter of which are drawn the lines of chords, sines, tangents, &c. as on the sector, ibid. No. 8. where A represents the simple kind, and B, that marked with the sector lines.

Their use is to divide lines and circles into equal parts; or to perform the operations of the sector, at one opening of them. See SECTOR, PROPORTION, and PROPORTIONAL.

Sailor’s COMPASSES, a kind much used by seamen on account of their usefulness in working traverses. Its construction is represented, ibid. No. 9.

Spring COMPASSES, or DIVIDERS, those with an arched head, which by its spring opens the legs; the opening being directed by a circular screw, fastened to one leg, and let through the other, worked with a nut. These compasses are made of hardened steel, ibid. No. 10.

Triangular COMPASSES. See the article TRIANGULAR.

Trifecting COMPASSES consist of two central rules, and an arch of a circle of 180 degrees, immovable, with its radius; which is fastened with one of the central rules, like the two legs of a sector, that the central rule may be carried through all the points of the circumference of the arch. The radius and rule should be as thin as possible; and the rule fastened to the radius should be hammered cold, to attain the greater elasticity; and the breadth of the central rule should be triple that of the radius: there must be also a groove in this rule, with a dovetail, fastened on it, for its motion, and a hole in the center of each rule. The use of this instrument is to facilitate the trisection of angles geometrically: and it is said to have been invented by M. Tarragen for that purpose.

Turn up COMPASSES. The body of this instrument is like the common compasses, but towards the bottom of the legs, without side, are added two other points, besides the usual ones: the one whereof carry a drawing pen-point, the other a portcullion, both adjusted so as to turn round, and so be in the way of use, or out of it, as occasion requires. These compasses have been contrived in order to save the trouble of changing the points.
COMPEIGN, a city of France, situated on the river Oyie, about forty-five miles north-east of Paris: east long. 3°, north lat. 49° 30'.

COMPENDIUM, in matters of literature, denotes much the same with epitome, or abridgment. See ABRIDGMENT.

COMPENSATION, in a general sense, an action whereby any thing is admitted as an equivalent to another.

COMPENSATION, in the civil law, a sort of right, whereby a debtor, sued by his creditor for the payment of a debt, demands that the debt may be compensated with what is owing him by the creditor, which, in that case, is equivalent to payment.

COMPERTORIUM, in the civil law, signifies a judicial inquest made by delegates to search out and relate the truth of a case.

COMPETENCE, or COMPETENCY, in law, the right or authority of a judge, for taking cognizance of any matter. See the article JURISDICTION.

COMPITALIA, in ornithology, a name sometimes used for the great diver.

COMPITALITIA, in roman antiquity, feals instituted by Servius Tullius in honour of the Lares. See the article LARES. These feals were observed on the 12th of January, and 6th of March.

Tarquinius Superbus, consulting the oracle upon the subject of the sacrifices to be offered on that occasion, was answered that he should offer heads to the Lares: for which reason, the Romans presented the heads of young children in sacrifice to those deities. But Junius Brutus ordered poppy heads to be offered in their stead. Macrobius relates, that they satisfied the Lares, by offering the images of men and women made in straw; and that for each slave in their family, they threw in so many bales of wool.

COMPLAINTANT, in law, the same with plaintiff. See the article PLAINTIFF.

COMPLEMENT, in astronomy, the distance of a star from the zenith; or the arch comprehended between the place of the star above the horizon, and the zenith.

COMPLEMENT, in geometry, is what remains of a quadrant of a circle, or of 90°, after any certain arch has been taken away from it. Thus, if the arch taken away be 40°, its complement is 50°; because 50 + 40 = 90. The sine of the complement of an arch is called the co-

fine, and, that of thet agent, the co-tangent, &c.

COMPLEMENT of the course, in navigation, is the number of points the course wants of 90°, or eight points, viz. of a quarter of the compass. See Mariner's COMPASS.

COMPLEMENT of the curtion, in fortification, is that part of it which makes the demigorge. See the articles CURTAIN and DEMIGORGE.

COMPLEMENT of the line of defence, is the remainder of the line of defence, after the angle of the flank is taken off. See the articles ANGLE and DEFENCE.

COMPLEMENTS in a parallelogram, are the two smaller parallelograms GAE, FCE, (plate XLIX. fig. 2.) made by drawing two right lines GE, and FE, through the point E, in the diagonal; and parallel to the sides AB, BC, of a parallelogram ABCD.

In every parallelogram, these complements are equal. See the article PARALLELOGRAM.

COMPLEX, in a more general sense, a term synonymous with compound, tho' in strictness of speech there is some difference. See COMPOUND.

COMPLEX terms, or IDEAS, in logic, are such as are compounded of several simple ones. See the articles TERM and IDEA.

Complex ideas are often considered as single and distinct beings, tho' they may be made up of several simple ideas, as a body, a spirit, a horfe, a flower: but when several of these ideas of a different kind are joined together, which are wont to be considered as distinct, single beings, they are called a compounded idea, whether these united ideas be simple or complex. Complex ideas, however compounded and recom pounded, tho' their number be infinite, and their variety endless, may be all reduced under these three heads, modes, substances, and relations.

COMPLEX proposition, is either that which has at least one of its terms complex, or such as contains several members, as causal propositions: or it is several ideas offering themselves to our thoughts at once, whereby we are led to affirm the same thing of different objects, or different things of the same object. Thus, God is infinitely wise, and infinitely powerful. In like manner, in the proposition, Neither kings nor people are exempt from death.

COMPLEXION, complexio, among physicians, the temperament, habitu, and natural
COMPOSITE ORDER

Cornice
Frieze
Architrave
Capital
Shaft
Base
Cornice
Dye
Base

Plan of the Order
natural disposition of the body; but more often the colour of the face and skin. A fair, florid, and clear complexion, show the purity and pellucidness of the lymphatic fluids: if it be livid, jured, and yellow, they discover a faline-fulphureous impurity of the same, and a diordered secretion in the proper organs, especially the liver. In regard to the natural disposition of the body, ancient physicians and philosophers distinguished four principal compositions in man, viz. the sanguine complexion, anfwering to the air, and supposed to have the qualities thereof, as being hot and moist; the phlegmatic complexion, being cold and moist, corresponding with water; the bilious and choleric complexion, being hot and dry, supposed of the nature of fire; and the melancholic complexion, being cold and dry, partaking of the nature of earth. However, these distinctions are at present little regarded.

Complexion, in logic, a term sometimes applied to the second operation of the mind, called judgment. See the article Judgment.

Complexion, in metaphysics, the union or coalition of several things different from each other, either really or imaginary.

Complexion, in rhetoric, a figure including a repetition and a conversion at the same time, the sentence both beginning and ending with the same word. See Repetition and Conversion.

Complexus, in anatomy, a broad and pretty long muscle, lying along the back-part and side of the neck: it is fixed below to the vertebrae of the neck, and above, to the upper transverse line of the occipitis. There is one of these on each side; and both acting together, they pull the head directly backwards; whereas, if only one acts, it draws the head obliquely back.

Complexus minor, in anatomy, a narrow, long, and slender muscle, lying along the inside of the neck, and otherwise called maghidelus lateralis. See the article Muscles.

Complication, in general, denotes the blending, or rather interweaving, of several different things together: thus a person afflicted with several disorders at the same time, is said to labour under a complication of diseases.

Compounded, Compose, or Cobony, in heraldry, is said of a bordure made up of angular parts, or chequers, of two different colours. See plate LIV. fig. 1.

Counter-Compounded. See Counter.

Composite, or rather, NonComposite, in law. See the article NonComposite.

Composite, in general, denotes something compounded, or made up of several others united together. Thus, Composite numbers, are such as can be measured exactly by a number exceeding unity; as 6 by 2 or 3, or 10 by 5, &c. so that 4 is the lowest composite number. Composite numbers, between themselves, are those which have some common measure besides unity: as 12 and 15, as being both measured by 3.

Composite order, in architecture, the last of the five orders of columns; so called because its capital is composed out of those of the other columns, borrowing a quarter-round from the tufcan and dorick, a row of leaves from the corinthian, and volutes from the ionic. Its cornice has simple modillions or dentils. It is also called the roman or italic order, as having been invented by the Romans. By most authors it is ranked after the corinthian, either as being the next richest, or the last invented.

Scamozzi, and after him M. Le Clerc, make the column of this order nineteen modules and a half, being left by half a module than that of the corinthian, as in effect the order is less delicate than the corinthian. Vignola makes it twenty, which is the same with that of his corinthian: but Serlio, who first formed it into an order, by giving it a proper entablature and base, and after him M. Perrault, raised it still higher than the corinthian. See plate XLVIII.

M. Perrault, in his Vitruvius, makes a distinction between the composite and composed order. The latter, he says, is any composition whose parts and ornaments are extraordinary and unusual; but have, withal, somewhat of beauty, both on account of their novelty, and in respect of the manner or genius of the architect; so that a composed order is an Arbitrary, humorous composition, whether regular, or irregular.

For the parts of this order, see the articles Base, Capital, Column, Entablature, FREEZE, Pedestal, &c.

Composition, composito, in a general sense, the uniting or putting together several things, so as to form one whole, called a compound.

Composition of ideas, an act of the mind,
mind, whereby it unites several simple ideas into one conception, or complex idea.

When we are provided with a sufficient stock of simple ideas, and have, by habit and use, rendered them familiar to our minds, they become the component parts of other ideas, still more complicated; and form, what we may call, a second order of compound notions. This process, as is evident, may be continued to any degree of composition we please, mounting from one stage to another, and enlarging the number of combinations.

**Composition**, in grammar, the joining of two words together; or prefixing a particle to another word, to augment, diminish, or change its signification. See the article **Word**.

**Composition**, in logic, a method of reasoning, whereby we proceed from some general self-evident truth, to other particular and singular ones.

In disposing and putting together our thoughts, there are two ways of proceeding, equally within our choice: for we may either propose the truths, relating to any part of knowledge, as they presented themselves to the mind, in the manner of investigation; carrying on the series of proofs in a reverse order, till they, at last terminate in first principles: or beginning with these principles, we may take the contrary way, and from them deduce, by a direct train of reasoning, all the several propositions we want to establish.

This diversity, in the manner of arranging our thoughts, gives rise to the twofold division of method established among logicians, the one called analytic method, or the method of resolution, inasmuch as it traces things back to their source, and resolves knowledge into its first and original principles. This method stands in contradistinction to the method of composition; or, as it is otherwise called, the synthetic method: for here we proceed by gathering together the several scattered parts of knowledge, and combining them into one system, in such a manner, as that the understanding is enabled distinctly to follow truth through all the different stages of gradations.

**Composition**, in music, the art of disposing musical sounds into airs, songs, &c. either in one or more parts, to be sung by a voice, or played on instruments. See the articles **Music** and **Song**.

Under composition are comprehended the rules, 1. Of melody, or the art of making a single part; that is, contriving and disposing the simple sounds, so as that their succession and progression may be agreeable to the ear. See the article **Melody**.

2. Of harmony, or the art of disposing and concerted several single parts together, so as that they make one agreeable whole. See **Harmony**.

It may be proper to observe here, that melody being chiefly the business of the imagination, the rules of its composition serve only to prescribe certain limits to it, beyond which the imagination, in searching out the variety and beauty of airs, ought not to go: but harmony being the work of the judgment, its rules are more certain and extensive, and more difficult in practice.

**Composition**, in oratory, the coherence and order of the parts of a discourse.

To composition belong both the artful joining of the words, whereof the style is formed, and whereby it is rendered soft and smooth, gentle and flowing, full and sonorous; or the contrary; and the order, which requires things first in nature and dignity, to be put before those of inferior consideration.

**Composition**, in painting, consists of two parts, invention and disposition; the first whereof is the choice of the objects, which are to enter into the composition of the subject the painter intends to execute, and is either simply historical or allegorical. See **Invention**.

The other very much contributes to the perfection and value of a piece of painting. See the article **Disposition**.

**Composition**, in pharmacy, the method of mixing and compounding medicines of different qualities, so that they may assist each other's virtues, or supply each other's defects. See **Pharmacy**.

**Composition**, in commerce, a contract between an insolvent debtor and his creditors, whereby the latter accept of a part of the debt in compensation for the whole, and give a general acquittance accordingly.

**Composition**, in printing, commonly termed composing; the arranging of several types, or letters, in the compounding-trick, in order to form a line; and of several lines ranged in order in the galley, to make a page; and of several pages, to make a form.

Generally the composing-trick is made of
Composition of motion, is an assemblage of several directions of motion, resulting from several powers acting in different, though not opposite, directions.

The doctrine of composition and resolution of motion, is founded on Sir Isaac Newton's second law of nature, "The change of motion is always proportional to the moving force impressed, and is always made according to the right line in which that force is impressed."

Let the body B (plate XLIX. fig. 4.) be impelled by the body A, in the direction b, with a force that would, in a given time, cause it to move from b to c; at the same instant let another body C strike it in the direction b, with a force that will carry it from b to d, in the same time: then completing the parallelogram b c d, and drawing the diagonal b e, this last will represent the direction and distance through which the body will move in the same time, by both the forces conjointly.

This is evident, if we consider that the force impressed by the body C, does no way diminish the velocity of a body approaching to the line c e, at the end of the given time, and therefore it will then be found somewhere in the said line c c: for the same reason it will, at the end of the said time, be carried to a distance from b equal to b d; and therefore it must also, at the same moment, be found somewhere in the line d e; but it cannot be in the lines c e and d e at the same time, unless in that point e, where they intersect each other, as this proposition affords.

We may now conceive the body B moving by the single impulse of some power in the direction b e, such as will carry it through the space b e in a given time; then this may be resolved into any other two forces acting in the directions b e or d e, and b d or c e, which lines will also represent the efficacy of the said forces in the same time.

Composition of proportion, is the comparing the sum of the antecedent and consequent, with the consequent in two equal ratios; as suppose, 4 : 8 : 9 : 6, they say, by composition of proportion, 12 : 8 : 9 : 6.

The same holds of the sum of the antecedent and consequent, compared with the antecedent: thus we likewise say, 12 : 4 : 9 : 3.

There is a great difference between composition of proportion by addition and by multiplication. See Proportion.

COMPOST, in husbandry and gardening, several sorts of soils, or earthly matter, mixed together, in order to make a nature, for affording the natural earth in the work of vegetation, by way of amendment or improvement.

Composts are various, and ought to be different, according to the different nature or the quality of the soils which they are designed to meliorate, and according as the land is either light, sandy, loofe, heavy, clayey, or cloddy. A light, loofe land, requires a compott of a heavy nature, as the pouring of deep ditches, ponds, &c. so, on the other hand, a land that is heavy, clayey, or cloddy, requires a compott of a more sprightly and hery nature, that will infiltrate itself into the lumpish clods, which, if they are not thus managed, would very much obstruct the work of vegetation. See CLAY, &c.

The great use of composts, is for such plants as are preserved in pots, or tubs; or, sometimes, it is used for small beds, or borders of flower-gardens; but it is too expensive to make composts for large gardens, where great quantities of soil is required. In making of composts, great care should be had that the several parts are properly mixed together, and not to have too much of any one sort thrown together.
COMPOSTELLA, the capital of Galicia, in Spain, remarkable for the devotion paid there by pilgrims from all countries, to the relics of St. James.

COMPOSTO, in music, means compound-ed or doubled, as a fifteenth is an octave doubled, or an octave is compounded of a fifth and a fourth.

COMPRESSED, in surgery, a bolster of soft linen-cloth, folded in several doubles, frequently applied to cover a plaster, in order not only to preserve the part from the external air, but also the better to retain the dressings, or medicines. Compressees are frequently applied where no plaster is made use of; and that sometimes dry, sometimes wetted with certain liquors, which are supposed to be strengthening, resolving, lenient, emollient, or cooling, which are administered hot or cold, as the circumstances of the case shall require. Compressees of all kinds are intended for these purposes, 1. To preserve and cherish the natural heat of the body. 2. To secure the dressings that lie under them. 3. To convey liquids to the relics of St. James. who compressees several articles of a particular of the same kind; or a particular for a general. By this trope a round and certain number is often set down for an uncertain one.

COMPRESS, in surgery, a bolster of soft linen-cloth, folded in several doubles, frequently applied to cover a plaster, in order not only to preserve the part from the external air, but also the better to retain the dressings, or medicines. Compressees are frequently applied where no plaster is made use of; and that sometimes dry, sometimes wetted with certain liquors, which are supposed to be strengthening, resolving, lenient, emollient, or cooling, which are administered hot or cold, as the circumstances of the case shall require. Compressees of all kinds are intended for these purposes, 1. To preserve and cherish the natural heat of the body. 2. To secure the dressings that lie under them. 3. To fill up any cavity or depressions of the parts; and, 5. To prevent bandages from bringing on a troublesome itching, or other pain or uneasiness upon the skin.

COMPRESSED, in general, is said of things whose sides are squeezed together, and consequently of a broad and flat figure.

COMPRESSED LEAF, among botanists, one with a mark or impression on both sides. See LEAF.

COMPRESSION, the act of pressing or squeezing some matter, so as to set its parts nearer to each other, and make it possess less space. It is different from condensation, in that compresion is performed with some external violence, but condensation by the action of cold. Thus the moderns say, that pumps do really act by compresion, whereas the ancients imagined they acted by suction: the embolus, or sucker, going and returning in a narrow tube, compresses the air inclosed in it, so as to enable it to raise the valve by the force of the elaticity, and make its escape; upon which, the balance being destroyed, the pressure of the atmosphere on the stagnant surface, drives up the water into the tube, thus evacuated of its air. See the article PUMP.

Water is incapable of being compressed, and no art or violence is able to bring
bring its parts closer, or make it take up less space, after the air has been once purged out of it. It has been found by an experiment, made by the academy del Cimento, that water, being violently squeezed, made its way through the infinitely small pores of a ball of gold, rather than undergo a compression. The compression of air, by its own weight, is surprizingly great: for it appears, by calculation, that the common air we breathe near the surface of the earth, is pressed by a weight of the superincumbent atmosphere into the part of the space it would take up, if it were at liberty. See the article Atmosphere. But the air may be still further compressed by art; and it appears by Mr. Boyle's experiments, that the space which the air takes up when at its utmost dilatation, is to that which it takes up when most compressed, as 520000 to 1. See Air.

COMPRESSION, in anatomy, a muscle of the face, more usually known by the name of elevator alae nasi.

COMPRINT, among book-sellers, signifies a surreptitious printing of another's copy, in order to gain thereby, which is expressly contrary to statute 14 Car. II. See Air.

COMPRISER, in anatomy, a muscle of the face, more usually known by the name of elevator alae nasi.

COMPRESS, or COMPARE. See the article Nient Comprise.

COMPROMISE, a treaty, or contract, whereby two contending parties establish one or more arbitrators, to judge of and terminate their difference in an amicable way.

The regular way of appointing a compromise is by writing, expressing the names of the arbitrators, the power of choosing an umpire, or superior arbitrator, in case of need, a time limited for the arbitration, and a penalty on the party that does not abide by the decision. By the civil law, a slave cannot make a compromise without the leave of his master, nor a pupil without the authority of his guardian, or a wife without that of her husband: so a slave, a deaf or dumb man, a minor, and the person who is a party in the cause, are incapable of being chosen arbitrators in a compromise. The occasions which a compromise is not always allowed of, are restitution, marriage causes, criminal affairs, questions of Slate, and, generally, any thing wherein the public interest is more concerned than that of private persons.

COMPROMISE is also used in beneficiary matters; where it signifies an act, whereby those who have the right of election, transfer it to one or more persons, to elect one capable of the office or dignity.

COMPUTATION, COUNTING, or ACCOMPUTING-HOUSE. See Accounting.

COMPUTING-HOUSE, in the king's household, an office under the direction of the comptroller.

COMPTROLLER, or CONTROLLER. See the article CONTROL.

COMPTROLLER, or CONTROLLER. See the article CONTROLLER.

COMPEL, or COMPELLED. See the article CONTROLLER.

COMPELLED, or COMPELleur. See the article CONTROLLER.

COMPULSORY, an officer under the Roman emperors, dispatched from court into the provinces, to compel the payment of taxes, &c. not paid within the time prescribed.

These were charged with so many expectations, that Honorius cathered them.

COMPUNCTION, in theology, an inward grief of mind, for having offended God.

The Roman-catholics think their confession insignificant, unless attended with compunction, or inward grief of mind. Compunction, among Spiritualists, implies not only a grief for having offended God, but also a pious sensation of grief, sorrow, and delight, on other motives.

COMPURGATOR, in law, a person that by oath justifies or clears another's innocence.

COMPUTATION, in a general sense, the manner of estimating time, weights, measure, monies, or quantities of any kind. See Coin, &c.

COMPUTATION, among mathematicians, is used in the like sense as calculation. See the article CALCULATION.

COMPUTATION of a planet's motion. See the article PLANET.

COMPUTATION, in law, is used in respect of the true account or construction of time, so understood, as that neither party to an agreement, &c. may do wrong to the other; and that the determination of time be not left at large, or taken otherwise than according to the judgment and intention of law.

If a lease is ingrossed, bearing date January 1, 1754, to have and to hold for three years, from henceforth, and the lease is not executed till the 2d of January; in this case, the words from henceforth, shall be accounted from the delivery of the deed, and not by any computation from the date. And if the lease be delivered at four of the clock in the afternoon on the said second day, it shall end the first day of January, in the third year; the law, in such computations,
tions, rejecting all fractions or divisions of the day.

COMPUTO, in law, a writ to compel a bailiff, receiver, or accountant, &c. to deliver up his accounts.

The same lies for executors of executors, and against the guardian in socage for waste made in the minority of the heir.

CONARION, or CONOIDES, a name for the pineal gland, a small gland about the bigness of a pea, placed in the upper part of that hole in the third ventricle of the brain, called the anus, and tied by some fibres to the nates. See BRAIN, PINEAL, and GLAND.

CONATUS, a term frequently used in philosophy and mathematics, defined by some to be a quantity of motion, not capable of being expressed by any time, or length; as the conatus recedendi ab axe motus, is the endeavour which a body, moved circularly, does to recede, or fly off, from the center or axis of its motion.

The conatus centrifugus, sometimes called the conatus excuciforus, is always expressed by the verified sine of the angle of circulation: these conatus of bodies, revolving in equal circles, with an equal motion, are in a duplicate ratio, or as the squares of their velocities: but if the bodies revolve in unequal circles, their conatus centrifugus will be in a ratio compounded of the ratios of the squares of the velocities directly; and the simple ratio of the radii of these circles inversely.

If the body describe equal areas in equal times, as in the case of the planets, which revolve in ellipses round the sun, then the conatus centrifugus will be reciprocally as the cubes of the radii. See the articles Motion, Centrifugal, &c.

CONCATENATION, a term chiefly used in speaking of the mutual dependence of second causes upon each other. See the article Cause.

CONCAVE, an appellation used in speaking of the inner surface of hollow bodies, but more especially of spherical ones.

CONCAVE GLASSES, such as are ground hollow, and are usually of a spherical figure, tho' they may be of any other, as parabolical, &c. All objects seen through concave glasses, appear erect and diminished. The continued appearance of a point, through any concave glass, proceeds from the too great divergency of those rays which fall on the eye: wherefore, since the more remote the eye is from the glass, the less will the rays diverge; then the further the eye

is from the concave glass, the more distinct will be the appearance of any object through it, though the more faint.

The apparent place of objects seen through concaves is always brought nearer to the eye, which is the reason they help short-sighted persons, or such as can see distinctly only those objects that are very near them. The rule to fit concave glasses to the eye of a near-sighted person is this: let him observe nicely the distance at which he can read letters, or see objects distinctly, which suppose to be at twelve foot; then will a concave glass, whose virtual focus is a foot distant from it, make that person see distant objects distinctly. The further the eye is removed from any concave glass, the less the object appears, and a leffer area of it is seen; and when the glass is exactly in the middle, between the eye and the object, the object will appear the most diminished, that the distance between the eye and the object will admit of. See the articles Focus, Lens, and Mirror.

CONCAVITY, that property of bodies, on account of which they are denominated concave. See the preceding article.

CONCAVITY also denotes the whole space included within a concave surface, or the inner bend of a curve line.

CONCEALERS, in law, such persons as find out concealed lands; that is, lands that are secretly kept from the king, by common persons that have nothing to shew for their estate or title therein.

CONCENTRATION, in general, signifies the bringing things nearer a center. Hence the particles of salt, in sea-water, are said to be concentrated; that is, brought nearer each other, by evaporating the watery part: thus, also, wine is said to be concentrated, when its watery parts are separated in the form of ice by frost.

Some use the term concentration for the most intimate mixture, when the particles are not only brought within contact, but penetrate into each other.

CONCENTRIC, in mathematics, something that has the same common center with another: it stands in opposition to excentric. See the articles Center and Excentric.

Concentric is chiefly used in speaking of round bodies and figures, or circular and elliptical ones, &c. but may be likewise used for polygons, drawn parallel to each other upon the same center. The method
CONCERTO GROSSO, the grand chorus of a concert, or those places where all the several parts perform or play together.

CONCESSI, in law, a term frequently used in conveyances. Its effect is to create a covenant, as dedi does a warranty.

CONCESSION, in rhetoric, a figure, whereby something is freely allowed, that yet might bear dispute, to obtain something that one would have granted to him, and which he thinks cannot fairly be denied, as in the following concession of Dido, in Virgil:

"The nuptials he disclaims, I urge no more;

"Let him pursue the promis'd Eonian shore.

"A short delay is all I ask him now;

"A pause of grief, an interval from woe."}

CONCHA, a genus of bivalve shells, the animal inhabiting which is called tethys. See the article TETHYS.

This is a very comprehensive genus, comprising the oyster, chama, mussels, heart-shell, pecten, solen, etc. See the articles OYSTER, CHAMA, etc.

CONCHA ANATIFERA, in the history of shell-fish, a species of tepas. See the article LEPAS.

This shell is composed of five valves; being only an inch in length, and three quarters of an inch broad; it got the name of concha anatifera from an erroneous opinion, that it bred a wild fowl called barnacle. See BARNACLE.

CONCHA FORTIFICATA, a shell otherwise called murex. See the article MUREX.

CONCHA GLYPHOSA, the same with the dolium. See the article DOLIUM.

CONCHA SPECTORUM, the spectre-shell, a species of voluta. See the article VOLUTA.

CONCHA VENEREA, the same with the porcelain-shell. See PORCELAIN-SHELL.

CONCHA, in anatomy, the larger cavity of the external ear, situated before the meatus auditorius, or passage into the internal ear.

CONCHITES, in natural history, a petrified shell, of the concha-kind. See the article CONCHA.

CONCHOID, in geometry, the name of a curve, given it by its inventor, Nicomedes, and is thus generated.

Draw the right line QO, (plate XLIX, fig. 3,) and A C perpendicular to it in the point E; and from the point C draw many right-lines CM, cutting the right line
line $QQ$ in $Q_1$ and make $QM = QN$. $AE = EF$, viz., equal to an invariable line; then the curve, wherein are the points $M$, is called the first conchoid; and the other, wherein are the points $N$, the second; the right line $QQ$ being the directrix, and the point $C$ the pole: and from hence it will be very easy to make an instrument to describe the conchoid. The line $QQ$ is an asymptote to both the curves, which have points of contrary flexion. See the article Asymptote.

If $QM = AE = a$, $EC = b$, $MR = EP = x$, $ER = PM = y$; then will $a^2 + b^2 - 2ab + a^2x^2 = b^2x^2 - 2bx^2 + x^4 + x^2y^2 = x^4$, and express the nature of the second conchoid; and $x^4 + 2bx^3 + y^2x^2 + b^2x^2 - a^2b^2 + 2a^2bx + a^2x^2$, the nature of the first; and so both these curves are of the third kind.

This curve was used by Archimedes and other antients, in the construction of solid problems; and Sir Isaac Newton says that he himself prefers it before other curves, or even the conicsections, in the construction of cubic and biquadratic equations, on account of its simplicity and easy description, shewing therein the manner of their construction by help of it.

CONCHYLIA, a general name for all kinds of petrified shells, as limpets, cockles, nautili, cremeas, nautilus, cephal, &c.

CONCIATOR, the person who proportions and regulates the several ingredients which go to the making of crystal. See the article Crystal.

CONCILIO, or Que relieam coram regi & concilio. See the article Querela.

CONCINNOUS INTERVALS, in music, are such as are fit for music, next to, and in combination with, concords; being neither very agreeable, nor disagreeable in themselves, but having a good effect, as by their opposition they heighten the more essential principles of pleasure; or as by their mixture and combination with them, they produce a variety necessary to our being better pleased.

CONCINNOUS SYSTEM, in music. A system is said to be concinious, or divided concinously, when its parts, considered as simple intervals, are concinious; and are besides placed in such an order between the extremes, as that the succession of sounds, from one extreme to the other, may have an agreeable effect.

CONCLAMATION, in roman antiquity, a custom of calling the dead party by his name, for eight days succedively; on the ninth, concluding him, palt all hopes of recovery, they carried him forth, and buried him. See the article Burial.

CONCLAVE, the place in which the cardinals of the roman church meet, and are shut up, in order to the election of a pope.

The conclave is a range of small cells, ten feet square, made of wainscot: those are numbered, and drawn for by lot. They stand in a line along the galleries and hall of, the Vatican, with a small space between each. Every cell has the arms of the cardinal over it. The conclave is not fixed to any one determinate place, for the constitution of the church allow the cardinals to make choice of such a place for the conclave as they think most convenient; yet it is generally held in the Vatican.

The conclave is very strictly guarded by troops: neither the cardinals, nor any person shut up in the conclave, are spoke to, but at the hours allowed of, and then in italian or latin; even the provisions for the conclave are examined, that no letters be conveyed by that means from the ministers of foreign powers, or other persons who may have an interest in the election of the pontiff.

CONCLAVE is also used for the assembly, or meeting, of the cardinals shut up, for the election of a pope.

After this assembly has continued three days, they are only allowed one dish for one meal; and after five days, only bread and water: but this rule is not over-religiously observed.

CONCLUSION, in logic, the consequence or judgment, drawn from what was asserted in the premises; or the previous judgments in reasoning, gained from combining the extreme ideas between themselves. See the article Syllogism.

The conclusion of an argument contains two parts, the consequent, which is the matter of it; and the consequence, which is its form, and which, of a simple absolute proposition, renders the conclusion relative to the premises whence it is drawn. The question and the conclusion, say the schoolmen, are the same ideas, only considered in different views or relations. In the question they are considered as doubtful, in the conclusion as void of doubt.

CONCLUSION, in rhetoric, consists of two parts, the recapitulation, or enumeration, and the pathetic.

The recapitulation consists in a repetition of the principal arguments. See the article Recapitulation.

Conclusion,
CONCLUSION, in law, is where a person by his own act upon record, has charged himself with a duty or thing, or contended any matter, whereby he shall be concluded; as where a sheriff returns on a capias, that he has taken the body, and has it not in court at the day of the return of the writ; the sheriff by this return is concluded from a plea of escape.

CONCOCTION, in medicine, the change which the food undergoes in the stomach, &c. to become chyle. See CHYLE, CHYLIFICATION, and DIGESTION.

The first concoction is made in the stomach, by a kind of ferment, as several suppose, which partly remains there from the relics of the former meats, and partly flows thither from the colic arteries. The second is made in the guts, by the gall and pancreatic juice. The third is in the glandule of the mesentery, from the lympha, or water which mixes with lippe, which has it not in the relics turn is concluded from a plea of &c.

CHYLIFICATION, The chyle flows thither from the chyle. The fourth is in the lungs, the fifth is in the body, with regard to the preservation of the individual, and the performance of actions, particularly pneumatosis, for air; and the fifth, spermatosis, for seed.

Thefe five are accounted the several feveral in the body, with regard to the preservation of the individual, and the propagation of the species. They are more particularly called, the first, chyleosis, for chyle; the second, chymosis, for chyme; the third, hematoisis, for blood; the fourth, pneumatoisis, for air; and the fifth, spermatosis, for seed.

CONCOMITANT, in theology, something that accompanies or goes along with another; as concomitant grace is that which God affords us, during the time which He has taken the body, and by his own power renders it capable of being a receptacle of the soul.

CONCOMITANT NECESSITY. See the article NECESSITY.

CONCORD, in grammar, that part of construction called syntax, in which the words of a sentence agree; that is, in which nouns are put in the same gender, number and case; and verbs in the same number and person with nouns and pronouns.

Generally in every language the rules of concord are the same, as being almost everywhere the same nature, for the better distinguishing of discourse: thus, from the distinction of two numbers, namely the singular and the plural, the adjective must be made to agree with the substantive accordingly; that is, the former is to be put in this or that number, as the latter is: for the substantive being what is containedly, tho' directly marked by the adjective, should the substantive denote several, there are several subjects of that form signified by the adjective, and consequently this should be in the plural number, as vivi fortet, &c.

Again, as there is a distinction of masculine and feminine in most languages, there hence arises a necessity of putting the substantive and adjective in the same gender; and, in like manner, verbs should agree in number and person with nouns and pronouns: but should any thing, in writing or discourse, be apparently contrary to those rules above-mentioned, this is by some figure or other in grammar, whereby something is implied, or the ideas themselves are considered more than the words that represent them. See the article NECESSITY.

CONCORD, in common law, the agreement between parties, who intend to levy a fine of lands to one another, how and in what manner they shall pass.

CONCORD is also an agreement made between two or more, upon a trespass committed; and is divided into concord executory, and concord executed; the first of which, according to some opinions, does not bind, as being imperfect; but the latter, being absolute, binds the party.

CONCORD, in music, the relation of two sounds that are always agreeable to the ear, whether applied in succession or consonance. If two simple sounds be in such a relation, or have such a difference of tone, as that, being sounded together, they make a mixture or compound sound, which affects the ear with pleasure, that relation is called concord; and whatever sounds make an agreeable compound in consonance, the same will always be pleasing in succession, or will follow each other agreeably. The reverse of concords are what we call discords, which is a denomination of all the relations or differences of tone, that have displeasing effects. See the article DISCORD.

Concord and harmony are, in fact, the same thing, though custom has applied them differently; as concord expresses the agreeable effects of two sounds in consonance, fo harmony expresses the agreement of a greater number of sounds in consonance.

Unisonance being the relation of equality
lity between the tyme of two sounds, all unisons are concords in the first degree; but an interval being a difference of tyme, or a relation of inequality between two sounds, becomes a concord or discord, according to the different circumstances of that relation.

The differences of tyme take their rise from the different proportions of the vibrations of a sonorous body; that is, from the velocity of those vibrations in their recourses: the more frequent these recourses are, the more acute is the tyme, and vice versa. But the essential difference between concord and discord lies more remote. There does not appear any natural aptitude in two sounds of a concord, to give a pleasing sensation, more than in two of a discord; these different effects must be resolved into the divine will.

We know from experience, what proportions of tymes are pleasing, and what not; and we know, likewise, how to express the difference of tyme by the proportion of numbers. We know what is pleasing, though we do not know why; for instance, we know that the ratio of 1:2 constitute a concord, and 6:7 a discord; but on what original system, pleasing or displeasing ideas are connected with those relations, and their proper influence upon one another, is entirely above our reach.

We know that the following ratios of the length of chords, are concord, viz. 3:4, 4:5, 5:6, 6:7, 7:8; that is, by taking any chord for a fundamental, represented by 1, the following divisions thereof will be all concords with the whole, as 1 2 3 4 5 6 7 8; so that the characteristic of concords and discords must be looked for in these numbers expressing the intervals of sound, not abstracdy, but as exhibiting these numbers of vibrations.

The nearer the vibrations of any two strings approach to a coincidence as frequent as possible, the nearer they should approach to that condition, and consequently the agreement of unisons (which are in the first degree of concord, or have the most perfect agreement in tyme) as is confirmed from experience. If we take the natural series 1, 2, 3, 4, 5, 6, and compare each number to the next, as expressing the number of vibrations of two chords, in the same time, whose lengths are reciprocally as those numbers, the rule will be found exact; for 1:2 is best,

then 2:3; after 6 the consonance is insufferable, as the coincidences are too rare; though there are no other ratios that are agreeable, besides those found in that continued order, namely, 3:5 and 5:8, which, with the preceding five, are all the concording intervals within, or leis than an octave, or 1:2, that is, whole acutest term is greater than half the fundamental. On this principle, 3:5 will be preferable to 4:5, because being equal in the number of vibrations of the acuter term, there is an advantage on the side of the fundamental, in the ratio 3:5, where the coincidence is made at every third vibration of the fundamental; and every fifth of the acute term. In like manner, the ratio 5:8 is leis perfect than 5:6, because, though the vibrations of each fundamental, that go to one coincidence, are equal, yet in the ratio 5:6, the coincidence is at every fixth of the acute term, and only at every eighth in the other.

Thus we have a rule for judging of the preference of concords from the coincidence of their vibrations, as in the following table.

<table>
<thead>
<tr>
<th>Ratios or Vibrations</th>
<th>Coincid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grave Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Term.</strong></td>
<td><strong>Term.</strong></td>
</tr>
<tr>
<td>Unison 1:1</td>
<td>60</td>
</tr>
<tr>
<td>Octave, 8ve 3:1</td>
<td>30</td>
</tr>
<tr>
<td>Fifth, 4th 4:3</td>
<td>20</td>
</tr>
<tr>
<td>Fourth, 4th 5:4</td>
<td>15</td>
</tr>
<tr>
<td>Sixth, greater 6:5</td>
<td>12</td>
</tr>
<tr>
<td>Third, greater 8:5</td>
<td>12</td>
</tr>
<tr>
<td>Sixth, leffer 8:5</td>
<td></td>
</tr>
<tr>
<td><strong>Grave Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lengths.</strong></td>
<td></td>
</tr>
</tbody>
</table>

Mr. Carre, in the Memoirs of the Royal Academy of Paris, lays down a general proposition to determine the proportion of cylinders that are to form the concords of music, namely, that the solid cylinders, whose sounds produce those concords, are in a triplicate and inverse ratio of that of the numbers, which denote the same concords.

Concords are divided into original or simple, and compound. An original or simple concord is that whose extremes are leis remote than the sum of any other two concords. A compound concord is equal to two or more concords.

Other musical writers state the division thus: an octave 1:2, and all the inferior
The octave is not only the first concord in point of perfection, the agreement of whose extremes is greatest, and the nearest to union, so that when founded together, it is impossible to perceive two different sounds; but it is likewise the greatest interval of the seven original concords, and, as such, contains all the lesser, which derive their sweetness from it, as they more or less directly rise out of it, and which gradually decrease from the octave to the lesser sixth, having but a small degree of concord.

The manner in which these concords are found in the octave, shews their mutual dependencies: for taking an harmonical and arithmetical mean between each extreme and the most distant of the two means last found; to wit, between the lesser extreme and the first arithmetical mean, and between the greater extreme and the first harmonical mean, we have the lesser concords. Thus, if between 360 and 180, the extremes of the octave, you take an arithmetical mean, it is 270, and an harmonical mean is 240. Then between 360, the greatest extreme, and 240, the harmonical mean, take an arithmetical mean, it is 300; and an harmonical mean is 288. Again, between 180, the lesser extreme of the octave, and 270, the first arithmetical mean, it is 225, and an harmonical one 216.

Thus we have a series of all the concords, both ascending towards acuteness, from a common fundamental 360; and descending toward gravity, from a common acute term 180: which series has this property, that taking the two extremes, and any other two at equal distances, the four will be in a geometrical proportion.

The octave, by immediate division, becomes a fourth and fifth; the fifth, again, by immediate division, produces the two thirds; the two thirds are therefore found by division, tho' not immediately, and the same is true of the two sixths. Thus all the original concords arise from the division of the octave; the fifths and fourths immediately, the thirds and sixths mediatly. From the perfection of the octave, it may be doubled, tripled, &c. and yet preserve a concord; that is, the sum of two or more octaves is concord, tho' the more compound will be gradually less agreeable: but it is not so with any other concord less than an octave, the doubles, &c. whereof are all discord.

Again, whatever found is concord to one extreme of the octave, is concord to the other also; and, if you add any other simple concord to an octave, it agrees to both its extremes; to the nearest, being a simple concord, and to the failest, a compound one.

The greatest number of the vibrations of the fundamental, it is to be further observed, cannot exceed five, or there is no concord where the fundamental makes more than five vibrations to one coincidence of the acute term.

CONCORDANCE, a sort of dictionary of the bible, explaining the words thereof in alphabetical order, with the several books, chapters, and verses quoted, in which they are contained.

Cardinal Hugo, who lived in the thirteenth century, is said to be the first author of those concordances. Frithemius says, that, during the council of Bari, John of Ragusa, and afterwards Walter the Scotman, and last of all John of Se­govia, finished the work of concordances, and put them into the condition where­in we now see them finished. We for­bear to mention the concordances pub­lished in several languages, they being almost numberless.

As to the composition and relations of original concords, by applying to them the rules of addition and subtraction of intervals, they will be divided into simple and compound, according to the first and more general notion; as in the following table.

<table>
<thead>
<tr>
<th>Simple concords</th>
<th>Compound concords</th>
<th>Octave composed</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 : 6 a 3d less</td>
<td>5th. 3d gr. and 3d less</td>
<td>5th. 4th. or 6th.</td>
</tr>
<tr>
<td>4 : 5 a 3d gr.</td>
<td>6th less. 4th and 3d less</td>
<td>3d less, or</td>
</tr>
<tr>
<td>3 : 4 a 4th.</td>
<td>6th gr. 4th and 3d gr.</td>
<td>4th.</td>
</tr>
</tbody>
</table>

As to the composition and relations of original concords, by applying to them the rules of addition and subtraction of intervals, they will be divided into simple and compound, according to the first and more general notion; as in the following table.

<table>
<thead>
<tr>
<th>Simple concords</th>
<th>Compound concords</th>
<th>Octave composed</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 : 6 a 3d less</td>
<td>5th. 3d gr. and 3d less</td>
<td>5th. 4th. or 6th.</td>
</tr>
<tr>
<td>4 : 5 a 3d gr.</td>
<td>6th less. 4th and 3d less</td>
<td>3d less, or</td>
</tr>
<tr>
<td>3 : 4 a 4th.</td>
<td>6th gr. 4th and 3d gr.</td>
<td>4th.</td>
</tr>
</tbody>
</table>

As to the composition and relations of original concords, by applying to them the rules of addition and subtraction of intervals, they will be divided into simple and compound, according to the first and more general notion; as in the following table.

<table>
<thead>
<tr>
<th>Simple concords</th>
<th>Compound concords</th>
<th>Octave composed</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 : 6 a 3d less</td>
<td>5th. 3d gr. and 3d less</td>
<td>5th. 4th. or 6th.</td>
</tr>
<tr>
<td>4 : 5 a 3d gr.</td>
<td>6th less. 4th and 3d less</td>
<td>3d less, or</td>
</tr>
<tr>
<td>3 : 4 a 4th.</td>
<td>6th gr. 4th and 3d gr.</td>
<td>4th.</td>
</tr>
</tbody>
</table>
CONCORDANT VERSES, are such as have several words in common, but which by the addition of other words convey an opposite or at least a very different meaning; as,

Et caus ipsis in illo [concurit] nutritur.

CONCORDAT, in the canon law, a covenant or agreement in some beneficiary matter, as relating to a resignation, permutation, or other ecclesiastical cause. This word is used, absolutely, among the French for an agreement between pope Leo I. and Francis I. of France, for regulating the manner of nominating to benefices.

CONCORDAT GERMANIC, is that made between pope Nicholas V. and the emperor Frederic III. and the princes of Germany, relating to beneficiary matters.

CONCORDAT also serves instead of the pragmatic function, which had been abrogated; or rather, it is the pragmatic function, softened and reformed.

CONCORDIA, in geography, a town of the duchy of Mantua, in Italy, about fifteen miles south east of the city of Mantua; east long. 11° 20', and north lat. 45°.

CONCORDIA, in botany, a name sometimes used for agrimony. See Agrimony.

CONCOURSE, or CONCURRENCE, the reciprocal action of various persons or things, co-operating towards the same effect.

Thus some hold that the concourse, or concurrence of the sun and stars, are necessary for the production of all sublunary things; and most divines maintain, that the actions and operations of all creatures, are continually dependent on the immediate concurrence of the divine mind, who concurs to give second causes their efficacy, which without his influence they are deficient of. See Cause.

Concourse is, by scholmen, distinguished into two kinds, act, mediate, which consists in giving a power or faculty to act; and immediate, which is a contemporary influence of the cause, along with another, to produce an effect: thus the grandfather concurs mediately to the production of a grandson, but the father concurs immediately with the mother, to the production of the same child.

Point of Concours. See Focus.

CONCRETE, in the school-philosophy, an assemblage or compound. See the article Compound.

CONCRETE, in natural philosophy and chemistry, signifies a body made up of different principles, or any mixed body: thus soap is a falsitious concrete, or a body mixed together by art; and antimony is a natural concrete, or a mixed body, compounded in the bowels of the earth.

Concrete, in logic, is used in contradistinction to abstract; for example, when we consider any quality, as whiteness, inhering in any subject, as, suppose, in snow; if we may say the snow is white, then we speak of whiteness in the concrete; but if we consider whiteness by itself, as a quality that may be in paper, in ivory, and in other things, as well as in snow, we are then said to consider, or to take it in the abstract. See the article Abstract.

Concrete numbers, are those which are applied to express or denote any particular subject, as two men, three pounds, two thirds of a shilling, &c. whereas if nothing be concreted with the number, it is taken abstractly, or universally. Thus three signifies an aggregate of three unites; let these unites be men, pounds, or whatever else you please.

Concretion, the uniting together several small particles of a natural body into sensible masses, or concretes, whereby it becomes so and so figured and determined, and is induced with such and such properties. See Concrete.

Concretion is also the act whereby soft bodies are rendered hard; or an insensible motion of the particles of a fluid, or soft body, whereby they come to a consistency. It is indifferently used for induration, condensation, congelation, and coagulation. Chausinus.

Concubination, denotes sometimes a criminal or prohibited commerce between the sexes; in which sense it comprehends adultery, incest, and simple furnication: but, in a more limited sense, it signifies the cohabitation of a man and a woman in the way of marriage, without having passed the ceremony thereof.

However concubinage might be dispensed with among the Jews, Turks, and Heathens; among Christians, if polygamy be prohibited, this practice must be prohibited too; and yet it is observable, that the clergy in this kingdom, and other parts of Christendom, who submitted to the jurisdiction of the pope, were for some time indulged in keeping concubines,
CONCUBINAGE is concupiscence, according to divines, an irregular appetite, or lust after carnal things, inherent in the nature of man ever since the fall. Concupiscence, according to Malebranche, is a natural effort made by the traces of the brain on the mind, in order to attach it to sensible things: the origin of concupiscence he ascribes to those impressions made on the brain of our first parents at their fall, which are still transplanted and continued to those of their children; and he ascribes the dominion or prevalence of concupiscence to original sin.

CONCURRENCE, or CONCOURSE. See the article CONCOURSE.

CONCURRING, or CONGRUENT FIGURES, in geometry, those which being laid upon one another, exactly correspond and cover each other, and therefore are equal.

COND, CON, or CONN, in the sea-language, to guide or direct the ship to her right course, by giving directions to the man at the helm how to steer. See the article STEERING.

The man that consists the ship directs at helm in their terms: starboard, or port the helm; that is, put the helm to the right or left of the ship, and then the ship will go to the larboard or starboard; for the ship always falls contrary to the helm. Right the helm, or helm a midship; that is, keep it right up, or in the midships, when it is required the ship should go right before the wind. Ease the helm, no near, bear up; that is, let her fall to leeward, or fail more large, or more before the wind. Steady as you go; that is, keep her upon the same point. Keep thus! thus! that is, let her go just as she is. Other directions, much to the same purpose, importing chiefly to keep the ship near the wind, are, aloof; keep your loof, fall not off, veer no more, keep her to, touch the wind, have a care of the lee tack.

CONDAMIN, in botany, the name with the cinchona, or tree that produces the peruvian or jesus's bark. See the articles CINCHONA and QUININA.

CONDE, a town of the French Netherlands, in the province of Hainault, situated on the river Scheld, about twelve miles west of Mons: ealt long. 3° 40', and north lat. 50° 35'.

CONDECEDO, or Cape CONDECEDO, a promontory of north America, in the province of Yucatan, about 100 miles west of Merida: west long. 93°, and north lat. 21°.

CONDEMAINATION, the act of giving judgment, passing or pronouncing sentence against a person, subjected the aby to some penalty or punishment, either in respect
CON [ 702 ] CON

respect of life, reputation, or fortune. See Sentence, and Punishment.

CONDENSATION, the act whereby a body is rendered more dense, compact, and heavy.

Hence condensation stands opposed to dilatation, or rarefaction; which latter renders the body lighter and looser, by setting the parts farther asunder; whereas the former brings them closer to each other, and increases their contact.

Condensation is, by most writers, distinguished from compression, in regard the latter is performed by some external violence, whereas the former is the action of cold. See the articles Cold and Compression.

There has been no body yet found, however dense and compact, but cold renders still denser, not even excepting diamonds, the hardest of all known bodies; and as the degree of cold increases, this contraction is also increased; the former contraction still decreasing, as the cold is less. Water alone seems to expand by cold, inomuch that, when congealed, the ice takes up more space than the water did before: but this is attributed to the intromission of some foreign matter, such as the particles of the ambient air, rather than to any proper expansion of the water, by the action of cold.

If air be condensed upon water in a bottle, it will cause it to spout through the tube of communication to a very great height, viz. 30 feet, if only one atmosphere be injected, 60 if two, and so on. A bladder that will sustain the spring of common air, will be broke by condened air. See the next article.

CONDENSER, a pneumatic engine, or syringe, whereby an uncommon quantity of air may be crowded into a given space; so that sometimes ten atmospheres, or ten times as much air as there is at the same time, in the same space, without the engine, may be thrown in by means of it, and its effects prevented by valves properly disposed. See plate XLII. fig. 8.

It consists of a brass cylinder, wherein is a moveable piston; which being drawn out, the air rushes into the cylinder through a hole provided on purpose; and when the piston is again forced into the cylinder, the air is driven into the receiver through an orifice, furnished with a valve to hinder its getting out.

The receiver or vessel containing the condensed air, should be made very strong, to bear the force of the air's spring thus increased; for which reason they are generally made of brass: its orifice is fitted with a female screw to receive the male screw at the end of the condenser.

If glass be used for a condenser, it will not suffer so great a degree of condensation; but the experiment will be more entertaining, since the subject may be viewed in the condensed air.

CONDENSERS, a term used in the herring fishery, for people who stand on cliffs or eminences near the sea-coast, to direct the fishermen which way the shoal of herrings passes; their course being more conspicuous to those who stand on high cliffs, than to them on board the vessels.

CONDITION, in the civil law, a clause of obligation stipulated as an article of a treaty or contract; or in a donation of testament, legacy, &c. in which last case a donee does not lose his donative, if it be charged with any dishonest or impossible conditions.

The conditions under which a donation can be made, are distinguished into three kinds, 1. The casual, which depends merely on chance. 2. The potestative, which is absolutely in our power; and, 3. The mixed condition, which is compounded of the other two.

CONDITION, in common law, a restriction annexed to an act, qualifying or suspending the same, in rendering its effect precarious and uncertain.

There are various kinds of conditions, viz. condition in deed, condition precedent and subsequent, condition in law, &c.

CONDITION in deed, the bridle annexed to a feament, lease, or grant, either in writing or without.

CONDITION precedent gains the thing, or cleftate made upon condition, by the performance of it.

CONDITION subsequent, keeps and continues the thing made upon condition, by the performance of it.

CONDITION in law, or CONDITION implied, is when a person grants an office to another, as keeper of a park for life; tho' there be no condition expressed in the grant, yet the law makes one covertly, which is, that if the grantee does not execute all things belonging to his office, it shall be lawful for the granter to discharge him.

CONDITIONAL, something not absolute but
but subject to conditions. See the preceding article.
Conditional legacies are not due till the conditions are accomplished.

CONDITIONAL CONJUNCTIONS, in grammar, are those which serve to make propositions conditional. As, if, unless, provided, &c.

CONDITIONAL PROPOSITIONS, in logic, such as consist of two parts connected together by a conditional particle.

CONDITIONAL SYLLOGISM, a syllogism where the major is a conditional proposition. Thus,
If there is a God, he ought to be worshipped.
But there is a God;
Therefore he ought to be worshipped.
The Arabian divines maintain, that all the decrees of God relating to the salvation and damnation of man, are truly conditional; and the calvinists, that they are absolute.

Science of conditionals, that is, of conditional truths, is the knowledge which God has of things considered not according to their essence, their nature, or their real existence, but under a certain supposition which imports a condition never to be accomplished.

CONDOM, the capital of the Condominois, in the province of Gascony, in France, about 60 miles south-east of Bourdeaux. It is a bishop's see, and situated in 40° east long. and 44° 5' north lat.

CONDORE, or PULO CONDORE, a little isleland in the Indian ocean, about sixty miles south of Cochin China: east long. 106° 30', and north lat. 6° 30'.

CONDORIENTES, in church-history, religious sectaries, who hold their name from lying all together, men and women, young and old. They arose in the thirteenth century near Cologne, where they are said to have worshiped an image of Lucifer, and to have received answers and oracles from him.

Another species of condorientes, were a branch of anabaptists in the sixteenth century; so called, because they lay several of both sexes in the same chamber on pretence of evangelical charity.

CONDUCIMENTO, in music. See Usus.

CONDUCT, or safe Conduct, a deed or security granted to an enemy, under the great seal of a prince, that he may pass and repass without being molested.

CONDUCTOR, in surgery, an instrument which serves to conduct the knife in the operation of cutting for the stone, and in laying up sinuses and fistulas. It is also called a gorget. See the article Stone.

CONDUCTORS, in military affairs, are affiliates given to the commissary of the stores to receive or deliver out stores to the army, to attend at the magazines by turns when in garrison, and to look after the ammunition-waggons in the field. They bring their accounts every night to the commissary, and are immediately under his command.

CONDUCTOS AD PROFICISCENDUM. See Capias conductos, &c.

CONDUIT, a canal or pipe for the conveyance of water, or other fluid.
There are several subterraneous conduits through which the waters pass that form springs. Artificial conduits for water are made of lead, stone, cast-iron, potters earth, timber, &c.

Conduits for conveying away the suillage of a house, Sir H. Wotton says, should be placed in the most remote and lowest part of the foundation, with secret vents passing up through the walls, like a funnel, to the wide air, which all Italian artificers commend for the discharge of noisome vapours.

CONDYLOMA, or Condylus, in anatomy. See the article Condylus.

CONDYLOMA, in medicine, a tubercle or callous eminence which arises in the folds of the anus, or rather a swelling or hardening of the wrinkles of that part. Condylomata proceed from a redundant and vitiated blood stagnating in the hemorrhoidal vessels, and are often the effect of venereal ailments. Their cure depends on mercurial unctions and proper escharotics to consume them; though extirpation either by ligature or incision, if the nature of the part will admit, is the most expeditious. It very often happens that a salivation is necessary, in order to facilitate and complete the cure.

CONDYLUS, a name given by anatomists to a knot in any of the joints formed by the epiphysis of a bone. In the fingers it is called a knuckle.

CONDYLYUS, in botany, signifies the joints of plants.

CON, in geometry, a solid figure, having a circle for its base, and its top terminated in a point or vertex.
A cone may be conceived to be generated in the following manner. Take an immoveable point A (plate XLIX. fig. 5. n°. 1.) elevated above the plane of a circle BCDE, and suppose a straight line XZ drawn through the point and extended
Thus, find the solidity of a prism or cylinder, having the same base with the cone or pyramid, which found divide by 3, the quotient will be the solidity of the cone or pyramid. Or the solidity of any cone is equal to the area of the base multiplied into one third part of its altitude. As for the surfaces, that of a right cone, not taking in the base, is equal to a triangle whose base is the periphery and altitude the side of the cone; therefore the surface of a right cone is had by multiplying the periphery of the base into half of the side, and adding the product to that of the base.

2. The altitudes of similar cones are as the radii of the bases, and the axes likewise are as the radii of the bases, and form the same angle with them. 3. Cones are to one another in a ratio compounded of their bases and altitudes. 4. Similar cones are in a triplicate ratio of their homologous sides, and likewise of their altitudes. 5. Of all cones standing upon the same base, and having the same altitude, the supercificies of that which is most oblique is the greatest, and of the supercificies of the right cone is the least; but the proportion of the supercificies of an oblique cone to that of a right one, or which is the same thing, the comparison thereof to a circle, or the conic sections, has not yet been determined.

To measure the surface and solidity of a truncated cone $ABCD$, (ibid. n°. 5.) the altitude $CH$ and the diameters of its bases being given. The diameters of the bases $AB$ and $CD$ being known, find their circumferences. To the square of the altitude $CH$, add the square of the same difference of the radii $AH$, and from the aggregate extract the square root, which will give the side $AC$, and the semi-sum of the peripheries, multiplied by the side $AC$, gives the supercificies of the truncated cone.

For the solidity, say, As the difference of the semidiameters, $AH$, is to the altitude of the truncated cone, $CH$, so is the greater semidiameter, $AF$, to the altitude of the entire cone, $FE$. This being found, subtract the altitude of the truncated cone $GF$, which will leave that of the cone taken off, $GE$. Find the solidity of the cones $CED$ and $AEB$; subtract the former from the latter, and the remainder will be the solidity of the truncated cone $ACDB$.

For the sections of the cone, see the article Conic Section.
Center of gravity and oscillation of a cone. See the article Center.

Cones of the higher kinds, those whose bases and sections parallel to the bases, are circles of the higher kinds. They are generated by supporting a right line fixed in a point, on high, but conceived to be capable of being extended more or less on occasion, and moved round the periphery of a circle. See Circle.

Cone of rays, in optics, includes all the several rays which fall from any radiant point on the surface of a glass. See the article Ray.

Cone and Key, among the antient Saxons, was when a woman at the age of 14 or 15, took upon her the charge of her house, and received cone and key; she being then held of competent years to keep the accounts and keys of the house.

Conessi, a sort of bark of a tree which grows on the Coromandel-coast in the East-Indies. It is recommended in a letter to Mr. Monro, in the Medical Essays, as a specific in diarrhoeas. It is to be pounded into a fine powder, and made into an electuary with syrup of oranges; and the bark should be fresh, and the electuary new made every day, or second day, otherwise it looses its antient virtue but grateful bitterness on the palate, and its proper effects on the intestines.

Confection, in antiquity, a ceremony observed by the Romans in certain nuptial solemnities. Ulpian says, it consisted in the offering up some pure wheaten bread, rehearsing at the same time a certain formula, in presence of ten witneses. According to Servius, the Pontifex Maximus and Flamen Dialis, joined the man and woman by making them eat of the fame cake of tailed bread. Confection was the most fairest of the three manners of contriving marriage among the Romans.

Confection, in pharmacy, signifies in general any thing prepared with sugar: in particular it imports something preferred, especially dry substancies.

Confection also signifies a liquid or soft electuary, of which there are various sorts directed in dispensatories, but those ordered in the London dispensatory are the following. 1. The confection of Ham-mech, the ingredients of which are poppydoly, myrobolanis, garic, fenna, tamarinds, red roves, mamma, colocynth. It is applied as a druffie in purging the bitter humours and choler.

Cordial confection, which is a substitute for the operose confection raleignana, composed of a tincture drawn with proof spirit from the leffer cardamom seeds, zedoary and affion, fresh rosemary tops, and juniper berries, to which is afterwards added the compound powder of crab’s claws, cinnamon, nutmeg, cloves and double refined sugar. 3. The confection called pulvina, confines of colo­ tus, cinnamon, long pepper, black pepper, strained florax, strained galbanum, strained opium, Ruffia-caftor. 4. Confection Damocritus. See the article Mithridatium.

5. Confection Fracatorii. See the article Diascordium.


Confectio, in medicine, signifies a sort of gladiator hired to fight in the amphitheatre against beasts, thence also denominated belsarius. According to some, the confectior did not fight with beasts like the belsarius, but was sent on purpose to dispatch them wherever they became so wild (which was often the case) as to threaten the lives of the spectators.

Confectis, a denomination given to fruits, flowers, herbs, roots, &c. when boiled and prepared with sugar or honey, to dilute them to keep, and render them more agreeable to the taste. Solid saccharine simple confectis, are prepared after the following manner. The sugar being first well clarified with pure water and the white of an egg, is boiled to a consistence a little thicker than that of a syrup. Then the thing which is to be prepared is put into a large copper-vessel, flat bottomed, placed upon a gentle fire; and when it is moderately heated, together with its contents, the artist sprinkles some of the liquid sugar, before prepared, somewhat warm upon the things in the vessel, just enough to moisten them, and immediately stirs them to and fro, shakes them, and toffes the vessel in such a manner as to prevent the seeds, or whatever else it may be, from cluttering together. Then they are to be totally dried by a gentle coal-fire under the vessel. After this, as much dissolved sugar is to be added to the thing as is sufficient to moisten it moderately, and continuing the agitation, &c. it is to be dried. This operation is to be repeated, moistening and drying the materials by turns, till they are sufficiently covered with sugar. Confectioris, however, prepare things with
with greater ease, and in order to be able to tell them at a lower rate, they add starch to the dissolved sugar, by which means they not only dry them sooner, but also render them sufficiently large at a small expense.

To make confects red, infuse some red sauunders in the water, or cochineal, or syrup of mulberries. If you would have them green, boil the juice of spinach with the sugar; if yellow, put saffron in the water you mix with the sugar.

Confects are reduced to eight kinds, viz. 1. Dry confects. 2. Sugar-plums. 3. Liquid confects, those whole fruits, either whole, in pieces, in seeds, or in clusters, are connected in a fluid, transparent syrup, which takes its colour from that of the fruits boiled in it. 4. Marmalades. 5. Jellies. 6. Palettes. 7. Conferences. 8. Candies. See MARMALADE, JELLY, PATSE, &c.

CONFEDERACY, in a general sense, a league or alliance between several princes and states, to carry on a common cause.

CONFEDERACY, in law, is when two or more combine together, to do some damage or injury to another, or to commit some unlawful action.

Confederacy is punishable if nothing be put in execution; but this must be declared by some matter of protestation, as entering into bonds or promises the one to the other: the confederacy must also be malicious, and against an innocent person.

CONFERVA, in botany, a genus of water-plants, of the cryptogamia class, and order of mofies; consisting of oblong, capillary filaments, divided into joints of a globular figure.

CONFESSION, in a legal sense, an acknowledgment of some truth, tho' in prejudice of the person that makes the declaration. A confession, according to law, must never be divided, but always taken entire: nor must a criminal be condemned upon his own single confession, without other concurring proofs. A person is not admitted to accuse himself, whence a voluntary extrajudicial confession is never allowed of as any proof.

CONFESSION, among divines, the verbal acknowledgment which a christian makes of his sins. Among the Jews, it was a custom, on the annual feast of expiation, for the high priest to make confession of sins to God in the name of the whole people: be-

fides this general confession, the Jews were enjoined, if their sins were a breach of the first table of the law, to make confession of them to God: but violations offered the second table, were to be acknowledged to their brethren. The confessions of the primitive christians were all voluntary, and not imposed on them by any laws of the church; yet private confession was not only allowed, but encouraged. The roman church requires confession not only as a duty, but has advanced it to the dignity of a sacrament: this confession is made to the priest, and is private and auricular; and the priest is not to reveal them under pain of the highest punishment.

CONFESSION of faith, a list of the several articles of belief in any church, as the Augsburg confession is that of the lutheran church.

CONFESSO, or PRO-CONFESSO. See the article PRO-CONFESSO.

CONFESSOR, in the roman church, a priest who is empowered to receive the confession of penitents, and to give them absolution. See CONFESION.

In the primitive times, those christians, in general, who had suffered for the sake of their religion, and, in particular, those who had made a public confession of their faith before the heathen magistrates, were honoured with the name of confessors.

CONFIGURATION, the outward figure which bounds bodies, and gives them their external appearance; being that which, in great measure, constitutes the specific difference between bodies.

CONFIGURATION of the planets, in astrology, a certain situation of the planets in the zodiac, whereby they are supposed to aid or oppose each other.

CONFIRMATION, in a general sense, the act of ratifying or rendering a title, claim, report, or the like, more sure and indisputable.

CONFIRMATION, in law, a conveyance of an estate, or right in eje, from one man to another, whereby a voidable estate is made sure and unavoidable, or a parti-


card
cular estate is increased, or a possession made perfect. It is also the strengthening of an estate formerly made, which is avoidable, though not pretently void: as if a bishop was to grant his chancellorship by patent, for term of the patentee’s life; this is no void grant, but voidable by the bishop’s death, except it be strengthened by the confirmation of the dean and chapter.

**CONFIRMATION**, in rhetoric, the third part of an oration, wherein the orator undertakes to prove the truth of the proposition advanced in his narration; and is either direct or indirect. Direct, confirms what he has to urge for strengthening his own cause. Indirect, properly called confutation, tends to refute the arguments of his adversaries.

**CONFIRMATION**, in theology, the ceremony of laying on of hands, for the conveyance of the holy ghost. The antiquity of this ceremony is, by all antient writers, carried as high as the apostles, and founded upon their example and practice. In the primitive church, it used to be given to christians immediately after baptism, if the bishop happened to be present at the solemnity. Among the Greeks, and throughout the East, it still accompanies baptism: but the romanists make it a distinct and independent sacrament. Seven years is the stated time for confirmation: however, they are sometimes confirmed before, and sometimes after that age. The person to be confirmed has a god-father and god-mother appointed him, as in baptism. The order of confirmation in the church of England, does not determine the precise age of the persons to be confirmed.

**CONFLATION**, in law, the adjudication of goods or effects to the public treasury, as the bodies and effects of criminals, traitors, &c. Merchandises that are prohibited, or brought aboard, or abroad, without paying the duties when seized, are confiscated.

He who is condemned to lose his life, must also lose his goods: yet the widows of criminals do not lose their doweries, nor their share in the goods of the community, by the forfeiture of their husbands. The title to goods, which are not claimed by any other, is given by law to the king.

**CONFLATION**, the general burning of a city, or other considerable place.

This word is commonly applied to that grand period or catastrophe of our world, when the face of nature is to be changed by a deluge of fire, as formerly it was by that of water.

The sentiments of authors are various in regard to the causes whence the conflagration is to arise, and the effects it is to produce. Divines will have it take its rise from a miracle, as a fire from heaven; but philosophers contend for its being produced from natural causes: some think an eruption of the central fire sufficient for the purpose; others look for the cause in the atmosphere. The astrologers account for it from a conjunction of all the planets in the sign Cancer, as they say the deluge was occasioned by the conjunction in Capricorn: but others assure themselves that the world is to undergo its conflagration from the near approach of a comet in its return from the sun; as these huge bodies, by the intensity of their heat, and their wandering transverse motion across the earth’s orbit, threaten to produce the most signal changes and revolutions in the system of things. See the article Comet.

**CONFLUENCE** or **CONFLUX**, among geographers, the place where two rivers unite their streams. See River.

**CONFLUENT**, among physicians, &c. an appellation given to that kind of small-pox wherein the pustules run into each other. See the article Pox.

**CONFORMATION**, the particular confluence and texture of the parts of any body, and their disposition to compose a whole.

**CONFORMATION**, in medicine, that make and construction of the human body, which is peculiar to every individual. Hence those diseases called morbi male conformationis, or organical diseases, are those which depend upon the bad conformation of the parts. Hence, in external, may admit of chirurgical cure; and proper exercise, regimen, and medicine, may sometimes contribute much to the relief even of those which are internal, or, at least, may render them supportable.

**CONFORMITY**, among schoolmen, the relation of agreement between one thing and another; as that between any thing and the division thereof, the object and the understanding, &c. Chauvinus.

**Occasional Conformity**. See the article **Occasional conformity**.

**CONFRONTATION**, the confronting or bringing
CONGEBLABLE, among lawyers, a term denoting the same with lawful, or done with leave and permission.

CONGELATION, freezing, or such a change produced by cold in a fluid body, that it quits its former state, and becomes congealed.

We must observe, that the word congelation is only applied to homogeneous fluids, such as water, oils, or pingous substances, and fused metals, in which, besides a concretion in the cold air, no change is observed. We must also observe that, by congelation, some bodies, such as water, are rarified and expanded: whereas others are condensed, or rendered more compact, such as fixed metals, and pingous bodies. In the hops, the condenstion of any liquor in a cold place, is also called congelation. The fomes produced in some caverns, from the drops of petrifying water, are also called congelations: for one method in which nature forms stones, is by such a congelation as does not suffer any thing of an earthly nature to be separated, or precipitated from the whole mass, either spontaneously, or by the action of fire; but produces an uniform driness and induration of the whole mass.

CONGER, in zoology, the name of a species of muræna, with the upper edge of the back in black, called in English the sea-eel. See the article MURÆNA.

The conger resembles the common eel, but is much larger, being frequently met with five or six feet long, and of the thickness of a man’s thigh. Some give it the name of congrus, and others that of gryillus.

CONGERIES, a collection or aggregate of several particles, or bodies united into one mass.

CONGESTION, in medicine, a collection of humours, formed gradually; whereby it differs from defluxion, which is made on a sudden. See DEFLUXION.

CONGRIUM, congularum, in Roman antiquity, a kind of donative of wine or oil, bestowed on that people by their emperors, and so called from the congius, wherewith it was measured out to them. Sometimes, indeed, the congurium was made in money or corn; and the medals struck on such occasions, are known by the same name.

CONGIUS, a liquid measure of the antique Romans, containing the eighth part of the amphora, or the fourth of the urna, or six sextarii. The congius in English...
CONGREGATION OF IMMUNITIES, oftentimes called the pope's court, on which the judgment of pernicious and heretical books: the third is the congregation de propaganda fide: the fourth is the congregation for explaining the council of Trent: the fifth is the congregation of the holy office, or the inquisition: the third is the congregation for the examination of churchmen: the seventh is the congregation of bishops and regulars: the eighth is the congregation for the examination of the order itself; as the congregation of Cluny, &c. among the benefices. Congregation is likewise used for assemblies of pious persons, in manner of fraternities.

CONGREGATION, in physics, is a term used by Dr. Grew for the lowest degree of mixture; or that wherein the parts of the mixture do not adhere to each other, but only touch in a single point; that author being of opinion, that the particles of all fluids touch only in this manner; or that their cohesion amounts only to a congregation. See Cohesion and Fluid.

CONGREGATIONALISTS, in church-history, a sect of protestants who reject all church-government, except that of a single congregation. In other matters, they agree with the presbyterians. See the article PRESBYTERIANS.

CONGRESS, in political affairs, an assembly of commissioners, envoys, deputies, &c. from several courts meeting toconcert matters for their common good.

CONGRESS, in a judicial sense, the trial made by appointment of a judge, before surgeons and matrons, in order to prove whether or no a man be impotent, before sentence is passed for the dissolution of a marriage, solicited upon such a complaint. The trial of virility by congress had its origin in France, from the assurance of a man, who, being hard pressed by his wife, demanded the congress in open court. The judge finding it could not be denied, as it was the direct evidence after the manner of our offices and courts; the first whereof is the pope's congregation, whose business it is to prepare the most difficult beneficiary matters to be afterwards debated in the conhitory: the second is the congregation of the holy office, or the inquisition; the third is the congregation de propaganda fide: the fourth is the congregation for explaining the council of Trent: the fifth is the congregation of the holy office, or the inquisition: the third is the congregation for the examination of churchmen: the seventh is the congregation of bishops and regulars: the eighth is the congregation for the examination of the order itself; as the congregation of Cluny, &c. among the benefices. Congregation is likewise used for assemblies of pious persons, in manner of fraternities.

CONGREGATION, in physics, is a term used by Dr. Grew for the lowest degree of mixture; or that wherein the parts of the mixture do not adhere to each other, but only touch in a single point; that author being of opinion, that the particles of all fluids touch only in this manner; or that their cohesion amounts only to a congregation. See Cohesion and Fluid.

CONGREGATIONALISTS, in church-history, a sect of protestants who reject all church-government, except that of a single congregation. In other matters, they agree with the presbyterians. See the article PRESBYTERIANS.

CONGRESS, in political affairs, an assembly of commissioners, envoys, deputies, &c. from several courts meeting toconcert matters for their common good.

CONGRESS, in a judicial sense, the trial made by appointment of a judge, before surgeons and matrons, in order to prove whether or no a man be impotent, before sentence is passed for the dissolution of a marriage, solicited upon such a complaint. The trial of virility by congress had its origin in France, from the assurance of a man, who, being hard pressed by his wife, demanded the congress in open court. The judge finding it could not be denied, as it was the direct evidence after the manner of our offices and courts; the first whereof is the pope's congregation, whose business it is to prepare the most difficult beneficiary matters to be afterwards debated in the conhitory: the second is the congregation of the holy office, or the inquisition; the third is the congregation de propaganda fide: the fourth is the congregation for explaining the council of Trent: the fifth is the congregation of the holy office, or the inquisition: the third is the congregation for the examination of churchmen: the seventh is the congregation of bishops and regulars: the eighth is the congregation for the examination of the order itself; as the congregation of Cluny, &c. among the benefices. Congregation is likewise used for assemblies of pious persons, in manner of fraternities.

CONGREGATION, in physics, is a term used by Dr. Grew for the lowest degree of mixture; or that wherein the parts of the mixture do not adhere to each other, but only touch in a single point; that author being of opinion, that the particles of all fluids touch only in this manner; or that their cohesion amounts only to a congregation. See Cohesion and Fluid.

CONGREGATIONALISTS, in church-history, a sect of protestants who reject all church-government, except that of a single congregation. In other matters, they agree with the presbyterians. See the article PRESBYTERIANS.
CONGRUITY, in the schools, a suitableness or relation of agreement between things. The system of congruity in matters of grace consists in this, that God who knows perfectly the nature of grace, and the dispositions of the will in all the circumstances that shall befall a man, gives graces with which, by virtue of their congruity with the will of man considered in those circumstances, man will always infallibly, but not necessarily, do what God would have him do.

CONGRUITY, in geometry, is applied to figures, lines, &c. which being laid upon each other, exactly agree in all their parts, as having the very same dimensions.

CONGRUITY, among naturalists, a property relative to a fluid body, whereby any part of it is readily united with any other part, either of itself, or of any other similar fluid, or solid body. And incongruity is a property by which it is hindered from uniting with the solid or fluid body dissimilar to it. Thus quicksilver will stick to gold, silver, lead, tin, &c. and unite with them, but will roll off from wood, stone, glass, &c. and water, which will wet and dissolve it, will flip off from tallow without adhering to it, as also from a dusty surface, and from the feathers of water fowls.

CONI, a strong town of Piedmont, in Italy, situated upon the river Stura, thirty-two miles south of Turin, in 7° 30' east long., and 44° 25' north lat.

Coni was besieged by the French in 1744, but they were obliged to raise the siege on account of the great numbers of troops they lost in the attacks, and by the badness of the feation.

CONIC-SECTIONS, curves formed from the section of a cone by a plane.

The curves that generally pass under the name of conic sections are three, viz. the ellipsis, parabola, and hyperbola; for tho' the triangle and circle are formed from the section of a cone, yet they are not usually considered in that capacity.

If a right cone be cut directly through its axis, the plane or superficies of that section will be a plain isosceles triangle as HVG, (plate XLIX. fig. 6. n°. 1.) to wit, HV and VG, the sides of the cone will be the sides of the triangle, HG the diameter of the cone's base will be the base of the triangle, and its axis VC will be the perpendicular height of the triangle. See TRIANGLE.

If a right cone be cut any where off by a right line parallel to its base, the plane of that section will be a circle, because the base of the cone is a circle. Such is h g, ibid. See CIRCLE.

If a right cone be any where cut by a right line that cuts both its sides, but not parallel to its base as T S (ibid. n°. 2.) the plane of that section will be an ellipsis, commonly called an oval; that is, an oblong or imperfect circle, having several diameters, and two particular centers. See ELLIPSI S and DIAMETER.

If any cone be cut into two parts by a right line parallel to one of its sides, as SA (ibid. n°. 3.) the plane of that section, namely, Sb Ba Bb, is called a parabola. See the article PARABOLA.

If a cone be any where cut by a right line either parallel to its axis, as SA (ibid. n°. 4.) or otherwise, as xN, in such a manner that the intersecting line when continued through one side of the cone, as at S or x, will meet with the other side of the cone if it be continued beyond the vertex V, as at T, then is the plane of that section, namely, Sb Ba Bb called an hyperbola. See HYPERBOLA.

These five sections, namely, the triangle, circle, ellipsis, parabola, and hyperbola, are all the planes that can possibly be produced from a cone. But of them the three last, as we said above, are only called conic sections, both by ancient and modern geometers.

From the genesis of these sections, it may be observed how one section degenerates into another. For an ellipsis being that plane of any section of the cone which is between the circle and parabola, it will be easy to conceive that there may be great variety of ellipses produced from the same cone; and when the section comes to be exactly parallel to one side of the cone, then the ellipsis degenerates into a parabola. Now a parabola being that section whose plane is always exactly parallel to the side of the cone, cannot vary as the ellipsis may; for so soon as ever it begins to move out of that position of being parallel to the side of
of the cone, it degenerates either into an ellipsis or hyperbola. That is, if the section inclines towards the plane of the cone's base, it becomes an ellipsis; but if it incline towards the cone's vertex, it then becomes a hyperbola, which is the plane of any section that falls between the parabola and the triangle: and therefore there may be as many varieties of hyperboles produced from one and the same cone, as there may be ellipses.

In short, a circle may change into an ellipsis, the ellipsis into a parabola, the parabola into an hyperbola, and the hyperbola into a plain isosceles triangle. And the center of the circle, which is its focus, divides itself into two focus's, so soon as ever the circle begins to degenerate into an ellipsis; but when the ellipsis changes into a parabola, one end of it flies open, one of its focus vanishes, and the remaining focus goes along with the parabola when it degenerates into an hyperbola. And when the hyperbola degenerates into a plain isosceles triangle, this focus becomes the vertical point of the triangle, namely, the vertex of the cone. So that the center of the cone's base may be truly said to pass gradually through all the sections until it arrive at the vertex of the cone, still carrying its latus rectum along with it. For the diameter of a circle being that right line which passes through its center or focus, and by which all other right lines drawn within the circle are regulated and validated, may be called the circle's latus rectum; and tho' it lose the name of diameter when the circle degenerates into an ellipsis, yet it retains the name of latus rectum with its first properties in all the sections, gradually shortening as the focus carries it along from one section to another, until at last both it and the focus become coincident, and terminate in the vertex of the cone. For the nature and properties of the ellipsis, parabola, and hyperbola, see each under its proper head.

The most celebrated treatises on conic sections, are those of Apollonius Pergaeus, Mydorgius de Sectionibus Conicis, Gregory St. Vincent's Quadratura Circuli & Sectionum Coni, De la Hire's Opus de Sectionibus Conicis, De Witt's Elementa Curvarum, Dr. Wallis's Conic Sections, De l'Hospital's analytical Treatise of conic sections and their use, Milne's Elementa Sectionum Conicarum nova methodo demonstrata, Mr. Simpson's and Mr. Muller's conic sections, &c.

CONICHTHYODONTES, or PLEC-TRONITÆ, in natural history, one of the three names the fossil teeth of fishes are known by. Tho' authors assure us that these are the teeth of a fish, the jaws having been found with these bodies in them, yet they do not pretend to know to what fish they belong. They are generally of an elongated conic figure, broad at the base, and narrower at the point, where they are usually a little crooked: they are hollowed at the root, and are from the tenth of an inch to two inches long, commonly of a chestnut colour, and are found in the strata of clay, but most usually in those of stone; and seen more frequent in England, than in any other part of the world.

CONIFEROUS TREES, in gardening, such as bear hard, dry seed-vessels, of a conical figure, consisting of several woody parts, being mostly scaly, adhering closely together, and separating when ripe. Of this sort is the cedar of Lebanon, fir, pine, &c.

CONINGSECK, the capital of a county of the same name in the circle of Swabia, in Germany, about twenty miles north of Constance: east long. 9° 23', north lat. 47° 55'.

CONJOINT, or CONJUNCT, is applied, in the antique music, in the fame sense as consonance. See the article CONSONANCE.

CONJOINT DEGREES, two notes which follow each other immediately in the order of the scale, as ut and re. See the article SCALE.

CONJOINT TETRACHORDS, two tetrachords, or fourths, where the same chord is the highest of one, and the lowest of the other. See the article CHORD.

CONIRA, a name used by some botanists for the myrrhis. See MYRRHIS.

CONISOR, or COGNISOR, in law, is used in the paling of fines for him that acknowledges the fine. See FINE.

He to whom the fine is acknowledged, is the cognizee.

CONISSALÆ, in natural history, a class of fossils, naturally and essentially compounded, not inflammable, nor soluble in water, found in detached masses, and formed of crystalline matter debated by earth.

Of this class there are two orders, and of each of these only one genus. Coni- form of
CONJUGATE HYPERBOLA’s. If there be two opposite hyperbolas $A M$, $a m$, plate XLIX. fig. 7, whose principal axis is the line $A a$, and conjugate axis the line $B b$; and if there be two other hyperbola’s whose principal axis is the line $B b$, and conjugate one the line $A a$; then these four hyperbola’s are called conjugate hyperbola’s: the two former opposite ones being conjugates to the latter. See Axis, Hyperbola, and Conic-section.

CONJUGATION, in grammar, a regular distribution of the several inflexions of verbs in their different voices, moods, tenses, numbers and persons, so as to distinguish them from one another.

The Latins have four conjugations, distinguished by the terminations of the infinitive are, ere, ire, and ire; the vowels before re of the infinitive in the first, second, and fourth conjugations being long vowels, and that before re in the infinitive of the third being a short one. See the article Vowel.

The English have scarce any natural inflexions, deriving all their variations from additional particles, pronouns, &c.; whence there is scarce any such thing as strict conjugations in that language. See the article Mood.

The French grammarians reduce the number of conjugations in their language to that in the Latin, and these terminating in er, re, ir, and or.

CONJUGATION, in anatomy, is applied to a pair of nerves arising together, and serving the same operation, sensation, and motion. See Conjoint.

CONIUM, in botany, a genus of the pentandra-digynia class of plants, the flower whereof is compound; the particular ones consisting of five unequal and cordated petals: the fruit is roundish, frisated, and divisible into two parts, containing two seeds, plain on the one side, and convex on the other.

This is the cicuta, or hemlock of authors, a fatal poison if taken internally, but is used with safety in plasters and other external applications.

CONJUNCT, or Conjoint. See the article Conjoint.

CONJUNCTION, in astronomy, the meeting of two stars or planets, in the same degree of the zodiac.

This conjunction is either true, or apparent. The true conjunction is when a right line, drawn from the eye thro’ the center of one of the bodies, would pass through that of the other: in this case the bodies are in the same degree of longitude and latitude; and here the conjunction is also said to be central, if the same line, continued from the two centers thro’ the eye, do also pass thro’ the center of the earth.

Apparent conjunction, is when the two bodies do not meet precisely in the same point, but are joined with some latitude. In this case a right line, drawn through the center of the two bodies, would not pass through the center of the earth, but through the eye of the spectator: this conjunction is also called particle.

The moon is in conjunction with the sun, when they meet in the same point of the ecliptic, which happens every month; and eclipses of the sun are always occasioned by the conjunction of the sun and moon in or near the nodes of the ecliptic.

For the character of conjunction, see the article Character.

CONJUNCTION, in grammar, an undeclinable word, or particle, which serves to join words and sentences together, and thereby shews their relation or dependence one upon another. The conjunction, which is usually placed last in the eight parts of speech, is of great use to render the discourse smooth and fluent, and serves many good purposes in the argumentative or narrative style; but should ever be omitted where a per-
CONNARUS, in botany, a genus of the monadophila-decandria class of plants, the fruit of which is a capsule formed of two valves, and containing one cell, wherein is lodged a single seed.

CONNARUS is also a name sometimes given to a large kind of jujube. See the article JUJUBE.

CONNECTICUT, a British colony of North America, bounded by the Massachusetts colony on the north-east; by the sea, on the south; and by New York, on the west; being about 300 miles in length, and 80 in breadth.

This colony constitutes a distinct government, of a different form from that of New England.

CONNECTION, or CONNESSION, the relation whereby one thing adheres to, or depends upon, another. Such is the relation between Euclid's propositions, that the latter cannot subsist but by its connection with the former.

CONNECTION, or CONTINUITY, in the drama, consists in the joining of the several scenes together. See DRAMA.

The connection is said to be observed, when the scenes of an act succeed one another immediately, and are so joined, as that the stage is never left empty.

CONNOR, or ALE-CONNER. See the article ALE-CONNER.

CONNIVENT VALVES, in anatomy, those wrinkles, cellules, and vacuoles, which are found in the inside of the two great intestines, the ileum and jejunum:

The inner tunic of the guts, being longer than the middle or the outward tunic, does frequently wrinkle, or bag out, in many places, by which means the passage for the contents become straitened, and the matter through the guts then descends more slowly, so that the faecula have the more time to imbibe the chyle.

CONNOISSEUR, a French word much used of late in English, to signify a person well versed in any thing: whence it is used for a critic, or a person who is a thorough judge of any subject.

CONNOR, a city of Ireland, in the county of Antrim, and province of Ulter, situated about six miles north of Antrim, in 6° 30' west longitude, and 54° 50' north latitude.

CONOCARPODENDRON, in botany, the name by which Bœnhave calls the leucadendron of Linnaeus. See the article LEUCADENDRON.

CONOCARUS, the button-tree, in botany, a genus of the pentandra-monogynia class of plants, having no corolla, but

CONN, or CON, in the sea-language. See the article CON.

CONNA, a name used by fome for the tree which produces the caffia fistula.

CONNAUGHT, the moft westerly province of Ireland.
nor any pericarpium distinct from the feed, which is naked and single, having on each side a prominent, membranaceous margin.

**CONOID** in geometry, a solid body, generated by the revolution of a conic section about its axis. See the article CONIC SECTION.

**Elliptical Conoid**, a solid formed by the revolution of an ellipse about one of its diameters, and more generally called a spheroid. See the article SPHEROID.

**Parabolical Conoid**, is generated by the revolution of a parabola about its axis. See the article PARABOLA.

**Hyperbolic Conoid**, is generated by the revolution of an hyperbola about its axis. See the article HYPERBOLA.

**CONIDES**, in anatomy, a gland found in the third ventricle of the brain called pinealis, from its resemblance to a pineapple. Descartes fixed the seat of the rational soul in this gland. See the article PINEAL GLAND.

**CONQUERNA**, a port-town of Brittany, in France, forty-miles south-east of Brest; west long. 5° 30', north lat. 47° 55'.

**CONQUER**, a port-town of Brittany, in France, about eight miles west of Brest; west long. 4° 46', north lat. 48° 26'.

**CONSANGUINITY**, the relation subsisting between persons of the same blood, or who are sprung from the same root. Consanguinity terminates in the fifth and seventh degree, excepting in the succession of the crown, in which case it is continued to infinity.

Marriage is prohibited by the church to the fourth degree of consanguinity inclusive; but by the law of nature, consanguinity is no obstacle to marriage, except it be in the direct line.

The civilians call frates consanguinei, those born of the same father, in opposition to frates uterini, who are only born of the same mother. It is the common opinion that the former was not allowed to complain of an injurious testament, that is, of being dismembered without cause; excepting from the turpitude of the person, appointed heir in their place.

**CONSCIENCE**, in ethics, a secret testimony of the soul, whereby it gives its approbation to things that are naturally good, and condemns those that are evil. When it judges of an act to be performed, it is called in the schools an antecedent confidence; and when it passes sentence on an action which is performed, it is called a subsequent confidence. When the mind is ignorant or uncertain about the moment of an action, or its tendency to good; or when there are several circumstances in the case, some of which being doubtful, render the mind dubious concerning the morality of an action, this is called a doubtful or scrupulous conscience; and if it mistakes concerning the act, it is called an erroneous conscience. If the error or ignorance is involuntary or invincible, the act proceeding from that error, or from that ignorance, is reckoned innocent. But if they are the effect of negligence, or of affection, the conduct flowing from such error is criminal. Not to follow one's conscience, the erroneous and ill-informed, Mr. Huthefon likewise reckons criminal, as it is the guide of life, and to counterfeit it shows an incorrigible spirit; yet to follow an erroneous conscience is likewise criminal, if the error which misled the conscience was the effect of inattention, or of any criminal passion.

Some divines maintain that conscience is infallible, and hold it to be that immutable law by which God will judge men. They deny that the understanding can be the source of errors, and lay them all at the door of the will.

**CONSCRIBED**, a term used by some geometers for circumscribed. See the article CIRCUMSCRIBED.

**CONSCRIPT, conscriptus**, in Roman antiquity, an appellation given to the senators of Rome, who were called conscript-fathers, on account of their names being entered all in one register.

**CONSECRATION**, the act of devoting anything to the service and worship of God. The mofalical law ordained, that all the first-born, both of man and beast, should be sanctified or consecrated to God. We find also, that Joshua consecrated the Gibeonites, as Solomon and David did the Nethimins, to the service of the temple; and that the Hebrews sometimes consecrated their fields and cattle to the Lord, after which they were no longer in their power.

The new testament furnishes us with instances of consecration. Christians in general are consecrated to the Lord, and bishops and other ministers of the gospel are in a peculiar manner set apart for his service.

Among the ancient Christians, the consecration of churches was performed with a great
a great deal of pious solemnity. In what manner it was done for the three first ages is uncertain, the authentic accounts reaching no higher than the fourth, when, in the peaceable reign of Constantine, churches were everywhere built and dedicated with great solemnity. Some think the consecration consisted in setting up the sign of the cross, or in placing a communion-table in the church; and others, that no more was done than preaching a panegyric sermon in commemoration of the founder, and that then they proceeded to prayers, one of which was composed on purpose for the church to be consecrated. The romans had a great deal of pious foppery in the ceremonies of consecration, which they bestowed on almost every thing, as bells, candles, books, water, oil, ashes, palmis, swords, banners, pictures, croffes, agnus dei's, roves, children's clouts, &c.

In England, churches have been always consecrated with particular ceremonies, the form of which was left to the discretion of the bishop. That observed by bishop Laud, in consecrating St. Catharine Creed church, in London, gave great offence.

Consecration is particularly used for the benediction of the elements in the eucharist. There is a great controversy between the latin and greek churches, touching the words of consecration: the romans, following St. Thomas and the schoolmen, believe that the consecration of the bread and wine consists in these words, This is my body, this is my blood. The greeks, on the contrary, attribute the change of the elements to a certain prayer which they call the invocation of the Holy Ghost, rehearsed after these words, this is my body, &c.

Consecration, among medalists, is the ceremony of the apotheosis of an emperor, the process of which see under the article Apothesis.

The consecration on medals is represented thus: on one side is the emperor's head, crowned with laurel, and sometimes veiled, and the inscription gives him the title divus; on the reverse is a temple or altar, or an eagle taking flight toward heaven; and sometimes the emperor is seen in the air, borne up by the eagle; the inscription always consecratio.

Consecratia, in botany, a name by which the iris palustris, or marsh flag-flower, is sometimes called. See the article Iris.

Conseorary, a dedution, or consequence, drawn from a preceding proposition. Some rather choose to call it a consequence, and others a corollary. See the article Corollary.

Consecutively, in the school-philosophy, is sometimes used in contradistinction to antecedently; and sometimes to effectively, and causally.

Thus, say the schoolmen, the corruption of one thing is the generation of another, not effectively, but consecutively; that is, since matter cannot, in the nature of things, be without form, the generation of one thing must necessarily follow the corruption of another.

Consent, in a general sense, denotes much the same with assent. See Assent.

Consent of parts, in the animal economy, an agreement or sympathy, whereby when one part is immediately affected, another, at a distance, becomes affected in the same manner.

It can hardly be imagined what a consent there is between the brain and its membranes, between the stomach and the adjoining intestines; these being very nervous, and ended with an exquisite sense: whence many students are troubled with a bad digestion, cadiveness, and the hypochondriac passion.

The harmony and sympathy of the nervous parts is of great use in physic, for without an accurate knowledge of this, many symptoms of diseases can scarcely be explained.

It is to be observed, that the nervous membraneous parts are, first, the membranes of the brain, and spiral marrow; then the nervous membranes which invest the organs of the senses: to these may be added those which cover the bones, head, teeth, joints, and muscles. Likewise the ccelophagus, stomach, and the whole volume of intestines, which is entirely nervous and membraneous. The same consent obtains also in the whole system of the bilious and urinary ducts; the bladder, glands, &c. skin. In all these parts there is a wonderful connection, consent, sympathy, and communication of motions, as well as hurts, when they are affected by any violent cause, all which is owing to the nerves; for when they are molested, there arises a sense of pain, and a shriveling of the adjacent parts, especially of the vessels.

Consequence, in logic, the conclusion, or what results from reason or argument. See Conclusion.
CONSERVATORY, a term sometimes used for a green-house, or ice-house. See GREEN-HOUSE and ICE-HOUSE.

CONSERVE, in pharmacy, a form of medicine, contrived to preserve the flowers, herbs, roots, pills, or fruits, of several simples, as near as possible to what they are when fresh gathered.

All the things which come under this division are to be regarded pretty much as the syrups, more for the sake of mixing and rendering palatable other things of greater efficacy, then to answer any intention of cure, in regard there is so much sugar made use of in a conserve, that a dote of the simple, to answer any intention of moment, is rendered inconvenient to take.

Converes are made by beating up the thing to be preferred, with sugar, viz. a triple quantity thereof to those that are most moist, and a double quantity to those that are least so.

CONSIDERATION, in law, the material cause or ground of a contract, without which the party contracting would not be bound.

This consideration is either expressed, as where a person agrees to pay $1. for a house; or it is implied, when the law itself enforces a consideration, as in the case of a person's coming to an inn, and taking meat, drink, and lodging for himself and his horse; the law here presumes he intends to pay for them, though there is no express contract between him and the innkeeper: wherefore, if he do not discharge the house, the host may flay his horse.

CONSIGNMENT, in law, the depositing any sum of money, bills, papers, or commodities in good hands; either by appointment of a court of justice, in order to be delivered to the persons to whom they are adjudged; or voluntarily, in order to their being remitted to the persons they belong to, or sent to the places they are designed for.

CONSIGNMENT of goods, in commerce, is the delivering or making them over to another: thus, goods are said to be configned to a factor, when they are sent to him, to be sold, &c. or when a factor sends back goods to his principal, they are said to be consigned to him.

CONSILI CASU. See the article CASU CONSILI.

CONSISTENCE, in physics, that state of a body wherein its component particles are so connected or entangled among themselves,
CONSISTENCY, when used relative to age or a disease, imports the state or acme thereof: thus we distinguish three states or stages of a tree, its growth, constancy or age, beyond which it does not grow, and return. The constancy of oaks is from fifty to one hundred and sixty years. Some, however, hold that their constancy only commences from one hundred years, affecting that they grow till that time, and that they continue in that state of perfection to two hundred years of age.

CONSISTENT BODIES, a term frequently used by Mr. Boyle, to signify such bodies whose parts are firmly united together, so that they do not so easily slide over one another's surfaces as the parts of fluid bodies do.

That author has an Essay of the Atmosphere of Consistent Bodies, wherein he shews that all, even solid, hard, fixed bodies emit effluvia to a certain space all around them. See Effluvia.

CONSISTENTES, in church-history, an appellation given to such penitents as were permitted to assist at prayers, but not to partake of the sacrament.

CONSISTORIAL, something belonging to a consistory. See the next article.

CONSISTENCY, at Rome, is an ecclesiastical assembly held in the presence of the pope, for the reception of princes, or their ambassadors, for the canonization of saints, for the promotion of cardinals, and other important affairs.

When a public consistory is to be held, the pope's throne is erected in the great hall of the apostolic palace: the pope is seated on cloth of gold, under a canopy of the same, and the foot of the throne is covered with red cloth. The cardinal bishops and priests sit on the right, below the throne, and the deacons on the left, but so as to have their faces towards the pope. The archbishops, bishops, protonotaries, and other prelates, sit on the steps of the throne: on the lowest step are the subdeacons, auditors, clerks of the chamber, and acolyths with woollen cloaks: and the ecclesiastical officers of the pope's court on the ground. The nephews of the reigning pope, and other Roman princes are ranged on each side of the throne; and the entrance of the passage leading to the throne is occupied by the pope's guard.

Besides the public consistory there is also a private one, held in a retired chamber, called the chamber of papegay, into which none are admitted but cardinals: here the pope appears in a white silk caffock, and a red velvet cap laced with silver; and here are first proposed and passed all bulls for bipomacy, abbies, &c. which from thence are called consistorial benefices.

The bishop's courts in England, held before their chancellors or commissaries, are called consistory courts.

CONSISTORIES, among the Jews, courts of judicature, consisting of twenty-three persons, who were appointed to sit in judgment upon the lives and fortunes of the people, and decided all causes, a few only excepted. These consistories always sat in the gates of the cities. Their session began after morning-prayers, and continued to the end of the sixth hour.

CONSOLATION, a figure in rhetoric, wherein the orator endeavours to moderate the grief of another. A principal regard is always to be had to the circumstances and relations of the parties: thus, a superior may interpose his authority, and even chide: a wife may dispute: sentences will become him: an inferior is to show respect and affection, and own that he
he had this from some wise or learned person: and an equal is to appeal to their common friendship.

**CONSOLIDE, in architecture, an ornament cut upon the key of an arch, which has a projecture, and, on occasion, serves to support little cornices, figures, busts, and vases. They are also called mutules and modillions, according to their form: some of them are striated, others in form of cartouches, others have drops in form of triglyphs. Those made at the end of a plank of wood, cut triangularwise, are called ancones. See ANCOME.**

Mr. Le Clerc is of opinion that a consonant should always have something massive to suffitio, and serve it as a rest.

**CONSOLIDA, CONSOUND, in botany, a name given to different plants, as the Symphytum, bogle, bells, and salidago; the first whereof is called the great consonant, the second the middle consonant, the third the leaf consonant, and the last Faracen's consonant. See SYMPHYTUM, BUGLE, &c.**

**CONSOLIDATION, in medicine, the motion of uniting broken bones, or the lips of wounds, by means of conglutinating medicines.**

**CONSOLIDATION, in the civil law, signifies the uniting the possession or profit of land with the property, and vice versa. Thus, if a man have by legacy usufructum fundi, and afterwards buy the property, or fee simple, of the heir, this is called a confolidation.**

**CONSOLIDATION, in our law, is the uniting two benefits into one by assent of the ordinary, patron, and incumbent.**

**CONSONANCE, in music, is ordinarily used in the same sense with concord, vis. for the union or agreement of two sounds produced at the same time, the one grave and the other acute; which mingling in the air in a certain proportion, occasion an accord agreeable to the ear. See the article CONCORD.**

Most authors confound consonance and concord together, though some of the more accurate distinguish them, making consonance a mere founding of two notes together, or in the same time, in contradistinction to the motion of those sounds in succession, or one after the other. In effect the two notions coincide; for two notes thus played in consonance, constitute concord; and two notes that please the ear in consonance, will please it in succession. See SUCCESSION. Notes in consonance constitute harmony, as notes in succession constitute melody. See the articles HARMONY, MELODY, and also TUNE.

In the popular sense, consonances are either simple or compound. The most perfect is union; though many authors, both among the ancients and moderns, discard it from the number of consonances, as conceiving consonances an agreeable mixture of grave and acute sounds, and not a repetition of the same sound. The first consonance is the octave, then the fifths, the fourths, the thirds, and sixths: the rest are multiples, or repetitions of these.

**CONSONANTS SYNCOPE, CONSONANTS DESOLATA, and CONSONANTS AQUIVALENTS.** See the article SYNCOPE.

**CONSONANCE, in grammar, signifies a like cadence of words and periods; a fault to be avoided in English, though the ancients make a figure of them, which they call _mesenps.)._**

**CONSONANT, a letter that cannot be founded without some single or double vowel before or after it.**

Consonants are first divided into single and double; the double are $x$ and $z$; the rest are all single: and these are again divided into mutes and liquids; eleven mutes, $b, c, d, f, v, g, j, k, p, q, t$; and four liquids, $l, m, n, r$. But the most natural division of consonants is that of the Hebrew grammarians, who have been imitated by the grammarians of other oriental languages: They divide the consonants into five classes, with regard to the five principal organs of the voice, which all contribute, it is true, but one more notably than the rest, to certain modifications, which make five general kinds of consonants. Each class comprehends several consonants, which result from the different degrees of the same modification, or from the different motions of the same organs: these organs are the throat, palate, tongue, teeth, lips, whence the five classes of consonants are denominated guttural, palatal, lingual, dental, and labial.

The abbe Dangeau thinks the nature of the division of the Hebrew grammarians very reasonable, but he does not acquiesce in the distribution they have made of them. In order to find a natural and just division of the consonants, he observes, no regard must be had to the characters that represent them, nor any thing to be considered but their sound, or the modification they give the sound. On this principle the same author
author finds in the French five labial consonants \( b, p, \alpha, f, m \); five palatal ones, \( d, f, g, k, n \); four hissers, \( f, \alpha, j, ch \); two liquids, \( l \) and \( r \); two that mix with each other, \( h, gn \); and the \( b \) aspirate. He adds, 1. That \( m \) and \( n \) are properly two nasal consonants; the \( m \) sounding like a \( b \) passed through the nose, and the \( n \) like a \( d \) pronounced through the nose.

2. That among the consonants forms are weak, others strong; their difference consisting in this, that the former are preceded by a small emision of the voice, that softens them, which the latter have not: the weak are \( b, c, d, g, \alpha, j \); the strong are \( p, f, k, t, j, ch \); hence we may conclude that the excess of consonants in one language above another only consists in this, that there are more modifications of sound established in the one than in the other. For all men having the same organs, may form the same modifications; so that it is entirely owing to custom, nothing to nature, that the English have not the \( v \) of the Greeks, the \( y \) and \( j \) of the Hebrews, the \( ch \) of the German, the \( ge \) of the French, the \( gl \) of the Italians, and the \( ll \) of the Welch. Also that the Chinese have no \( r \), the Iroquois no labial consonants, the Hurons abundance of aspirates, and the Arabs and Georgians abundance of double consonants. Lastly, to find all the consonants that may be formed in any language, there needs nothing but to observe all the modifications that the sounds of speech will admit of, by which we shall have all the consonants practicable.

CONSONANTE, in the Italian music, the same with consonance. See the article CONSONANCE.

CONSORT, or CONCERT, in music. See the article CONCERT.

Queen-CONSORT is said in contradistinction to a sovereign prince or queen invested with supreme authority. See the article QUEEN.

CONSCOUND, confolida, in botany. See the article CONSOLIDA.

CONSPIRACY, in law, signifies an agreement between two or more, falsely to indite, or procure to be indicted, an innocent person of felony. The punishment of a conspiracy upon an indictment of felony at the king's suit, according to our old law, was, that the parties attainted shall lose their frank law, whereby they become disabled to be impanneled on juries, or to give evidence in court; that their lands, goods, and chattels shall be seized into the king's hands, and their bodies committed to prison. At this day, fine and imprisonment is usually inflicted, where one is found guilty on an indictment for conspiracy. A conspiracy to maintain suits and quarrels, of victuallers to sell their victuals at a certain price, and of labourers and artisans to raise their wages, is also punishable by statute.

CONSPIRATIONE, in law, a writ lying against conspirators. See the next article.

CONSPIRATORS are, by statute, defined to be such as bind themselves by oath, covenant, or other alliance, to affit one another, falsely and maliciously to indict persons, or falsely to maintain pleas. Likewise those that retain men in the countries with livresses or fees, in order to support their malicious enterprises, which extends as well to the takers as the givers, and to stewards and bailiffs of lords, who, by their office or power, take upon them to maintain quarrels. Conspirators in treason are those that plot against the king and government.

CONSPIRING POWERS, in mechanics; those acting in directions not opposite. See the article POWER.

CONSTABLE. Lord high constable, an antient officer of the crowns both of England and France, whose authority was so very extensive, that the office has been laid aside in both kingdoms, except upon particular occasions, such as the king's coronation. The constable of France had his person privileged, and, during the king's minority, was named next to the princes of the blood. The army obeyed him next the king; he managed all that belonged to war, either for punishment of delinquents, distribution of booty, surrender of places, &c. The jurisdiction and functions of this office are now in the mariefsals of France. The function of the constable of England consisted in the care of the common peace of the land, in deeds of arms and matters of war. By a law of Richard II. the constable of England has the determination of things concerning wars and blazonry of arms, which cannot be diffused by the common law. The first constable was created by the Conqueror; the office continued hereditary till the thirteenth of Henry VIII. when it was laid aside, as being so powerful as to become troublesome to the king. We have also constables denominated from particular places,
as constable of the Tower; of Dover-castle, of Windsor-castle, of the castle of Caernarvon, and many other of the castles of Wales, whose office is the same with that of the castellani, or governors of castles.

From the lord high constable are derived those inferior ones, since called the constables of hundreds or franchises, who were first ordained in the thirteenth of Edward I. by the statute of Winchester, which, for the conservation of peace and view of armour, appointed that two constables should be chosen in every hundred. These are what we now call high-constables, on account that the increase of people and offences has made it necessary to appoint others under these, in every town, called petty-constables, who are of the like nature, though of inferior authority to the other. The high-constable over the whole hundred is usually chosen and sworn into his office by the justices of the peace, in their sessions: and as to petty-constables in towns, villages, &c. the right of choosing them belongs to the court-leet, though they may be elected by the parishioners. They are appointed yearly, and ought to be men of honesty, knowledge, and ability; and if they refuse to serve, or do not perform their duty, they may be bound over to the sessions, and there indicted and fined. Any constable, without a warrant from a justice, may take into his custody any persons that he sees committing felony, or breaking the peace; but if it be out of his fight, as where a person is seized and retained, both because he cannot do it without a warrant.

CONSTANCE, a city of Swabia, in Germany, situated on the western shore of a lake, to which it gives name, in 9° 12′ east long. and 47° 37′ north latitude. It is the see of a bishop, who is a prince of the german empire.

CONSTANT, in general, an appellation given to things which remain in the same state, without changing their nature or circumstances; thus we say, constant quantities, constant winds, &c. See the articles Quantity, Wind, &c.

CONSTANTINA, the capital of a province of Algiers, in Africa: east longitude 7°, and north latitude 35° 30′.

CONSTANTINOPLE, the metropolis of the turkish empire, called by the Turks themselves Stamboul, and by many Europeans the Port, being one of the best harbours in Europe: east long. 29° 13′, and north lat. 41° 36′.

It is built on the western shore of the Bosphorus, in the form of a triangle; the palace, occupying that angle which runs out between the Propontis and harbour; and underneath the palace are the gardens, which extend to the waterside.

CONSTAT, in law, a certificate, that the clerk of the pipe and auditors of the exchequer grant at the request of any person who intends to plead or move in that court, for the discharge of any thing. A constat is superior to an ordinary certificate, because it contains nothing but what is evident on record.

CONSTELLATION, in astronomy, a system of several stars that are seen in the heavens, near to one another. Astronomers not only mark out the stars, but, that they may better bring them into order, they distinguish them by their situation and position in respect to each other; and therefore they distribute them into a number of sections, or constellations, allowing several stars to make up one constellation: and for the better distinguishing and observing them, they reduce the constellations to the forms of animals, as men, bulls, bears, &c. or to the images of some things known, as of a crown, a harp, a ballance, &c. or give them the names of those, whole memories, in consideration of some notable exploit, they had a mind to transmit to future ages. The venerable Bede, indeed, out of a vain zeal, instead of the names and figures of the twelve constellations, substituted those of the twelve apostles; Julius Schillerius, in 1627, completed the reformation, and gave scripture-names to all the constellations in the heavens. But as these innovations could serve no purpose, but that of introducing quarrels into astronomy, the old constellations are still retained, both because better could not be substituted, and likewise to keep up the greater correspondence and uniformity between the old astronomy, and the new. The division of the stars by images and figures is of great antiquity, and seems to be as old as astronomy itself; for in the most ancient book of Job, orion, arcturus, and the pleiades are mentioned; and we meet with the names of many of the constellations in the writings of the first poets Homer and Hesiod. The antients, in their division of the firmament, took in only so much as came under their notice, distributing it into forty-eight
Riding Pest, eating medlars, quinces, &c., and several preparations of milk, constitute the belly: and most persons of a hot dry constitution are afflicted with a constipation; the proper remedy for which is a styptor and lenient catharticks; but when these fail, other medicines of a more powerful nature must be administered.

CONSTITUENT PART, in physiology, an essential part in the composition of any thing, differing little from what is otherwise called element or principle. See the articles ELEMENT and PRINCIPLE.

CONSTITUTION, in matters of policy, signifies the form of government established in any country or kingdom.

CONSTITUTION also denotes an ordinance, decision, regulation, or law, made by authority of any superior, ecclesiastical or civil. The constitutions of the Roman emperors make a part of the civil law, and the constitutions of the church make a part of the canon law. See the articles CIVIL LAW and CANON LAW.

CONSTITUTION, by way of eminence, is an appellation given to that bull of pope Clement XI. which begins with the word Unigenitus. See the article BULL.

Apostolical CONSTITUTIONS, a collection of regulations attributed to the apostles, and supposed to have been collected by St. Clement, whose name they likewise bear. It is the general opinion, however, that they are spurious, and that St. Clement had no hand in them. They appeared first in the IVth age, but have been much changed and corrupted since that time. They are divided into eight books, consisting of a great number of rules and precepts, relating to the duties of christians, and particularly the ceremonies and discipline of the church. Mr. Whiston, in opposition to the general opinion, afferts them to be a part of the sacred writings, dictated by the apostles in their meetings, and wrote down from their own mouth by St. Clement, and intended as a supplement to the New Testament, or rather as a system of christi'an faith and polity. The reason why the Constitutions are suspected by the orthodox, and, perhaps, the reason also why their genuineness is defended by Mr. Whiston, is, that they seem to favour arianism.

CONSTITUTION, in a physical sense, is that particular disposition of the human body, which results from the properties and mutual actions of the fluids and solids, and which renders them capable of exercising the functions proper and conformable.
able to nature. An equal constitution is that wherein the four humours, blood, phlegm, bile, and melancholy, are mixed in a due proportion; and according as one or other of these predominates, the constitution is denominated sanguine, phlegmatic, bilious, or melancholy and ataribious.

CONSTRUCTION, the binding or drawing of the parts of a thing close together.

CONSTRICCTOR NASI, an appellation given to several muscles on account of their constricting or closing some of the orifices of the body. Thus,

CONSTRICCTOR LABORIUM, called also orbicularis, because its fibres are of an arched figure, is a muscle which constitutes the very substance of the lips, and draws them up as in kissing; whence it is also called labiator and oculatorius.

CONSTRICCTOR NASI, a muscle arising above the dentes inciories of the upper jaw, and terminating in the alve of the nose. It is but single, tho' Santorini will have it that it is double, and is not orbicular in human subjects as in many of the quadrupeds. Properly speaking, indeed, there is in the human frame no such muscle as the constrictor orbicularis of beasts, but this serves in some degree in its office. The use is to draw the alve downwards, and at the same time to draw the upper lip downwards, in which action it is very much assisted by the constrictor of the lips.

CONSTRUCTION, in geometry, is the drawing such lines, such a figure, &c. as are previously necessary for the making any demonstration appear more plain and undeniable.

CONSTRUCTION of equations, in algebra, the method of drawing a geometrical figure whose properties shall express the given equation, in order to demonstrate the truth of it geometrically. Construction of simple equations is performed by resolving the fractions to which the unknown quantity is equal, into proportional parts. Thus if \( \frac{da}{b} = x \), then it will be as \( b \) to \( d \) as \( a \) to \( x \). Whence \( x \) will be determined by the method of finding a fourth proportion. Suppose the equation to be \( \frac{a+b}{r-s} = x \), first find a mean proportional between \( a \) and \( b \), which supposes to be \( p \), also another mean proportional between \( m \) and \( n \), which supposes to be \( q \), then the equation will stand thus \( pp + qq \) to \( r-s \). Which may be constructed in the following manner. Let the base \( AB \) (plate L. fig. 1. no. 1.) of the right angled triangles \( APB \) be made equal to \( q \), and the perpendicular \( AP \) equal to \( p \); then will \( PB^2 \) be equal \( pp + qq \), which according to the equation is to be divided by \( r-s \). Therefore it will be as \( r-s \) to \( PB \) (\( \sqrt{pp + qq} \)) as \( PB \) to a third proportional, which will give \( x \) required.

Construcction of quadratic equations. In order to render the construction of quadratic equations more easy to be understood, it is necessary to shew the nature of the curves of the second order, which are made use of in constructing equations of this kind. See the article Curve.

The general equation expressing the nature of the lines of the second order, having all its terms and coefficients, will be in this form.

\[
y^2 + axy + cx^2 + by + dx + e = 0
\]

Where \( a, b, c, d, e \) represent any given quantities with their proper signs prefixed to them. If a quadratic equation is given, as \( y^2 + py + q = 0 \), and by comparing it with the preceding, if you take the quantities \( a, b, c, d, e, \) and \( x \) such, that \( ax + b = p \), and \( cx^2 + dx + e = q \), then will the values of \( y \) in the first equation be equal to the values of it in the second; and if the locus be described according to the first equation, the two values of the ordinates, when \( ax + b = p \) and \( cx^2 + dx + e = q \), will be the two roots of the equation \( y^2 + py + q = 0 \). See Locus.

And as four of the given quantities \( a, b, c, d, e \) may be taken at pleasure, and the fifth with the absciss \( x \) determined so, that \( ax + b = p \) may be still equal to \( p \), and \( cx^2 + dx + e = q \); hence there are innumerable ways of constructing the same equation. But these loci are to be preferred which are described most easily; and therefore the circle of all conic sections is to be preferred for the resolution of quadratic equations.

Let \( AB \) (ibid. no. 2. z.) be perpendicular to \( AB \), and upon \( AB \) describe the semicircle BMA. If \( AP \) be supposed equal to \( x \), \( AB = a \), and \( PM = y \), then making \( MR \) perpendiculars to the diameter \( AB \), since \( AR \times RB = RM^2 \), and \( AR = y \), \( RB = a - y \), \( RM = x \), it follows that \( a - y \times y = x^2 \), and \( y^2 = \).
CONSTRUCTION of cubic and biquadratic equations. The roots of any equation may be determined by the intersections of a straight line with a curve of the same dimensions as the equation, or by the intersections of any two curves whose indices multiplied by each other, give a product equal to the index of the proposed equation. Thus the roots of a biquadratic equation may be determined by the intersections of two conic sections; for the equation by which the ordinates from the four points in which these conic sections may cut one another can be determined, will arise to four dimensions; and the conic sections may be assumed in such a manner, as to make this equation coincide with any proposed biquadratic: so that the ordinates from these four intersecions, will be equal to the roots of the proposed biquadratic. If one of the intersections of the conic section falls upon the axis, then one of the ordinates vanishes, and the equation by which these ordinates are determined will then be of three dimensions only, or a cubic, to which any proposed cubic equation may be accommodated. So that the three remaining ordinates will be the three roots of that proposed cubic. 

Thse conic sections ought to be preferred for this purpose that are most easily described. They must not, however, be both circles; for their intersecions are only two, and can serve only for the resolution of quadratic equations. Yet the circle ought to be one, as being most easily described, and the parabola is commonly assumed for the other. Their intersections are determined in the following manner. Let APE be the common apollonian parabola, (ibid. n°. 5.) Take on its axis the line AB half of its parameter. Let C be any point in the plane of the parabola, and from it, as a center, describe with any radius CP a circle meeting the parabola in P. Let PM, CD be perpendiculars on the axis in M and D, and let CN parallel to the axis meet PM in N. Then will always CP² = CN² + NP² (by 47 of Euclid, book I.). Put CP = σ, the parameter of the parabola = b, AD = ε, DC = δ, AM = x, PM = y. Then CN² = x² + ε², NP² = y² + d²; and x + ε² + y² + d² = σ². That is x² + 2cx + c² + y² ± 2dy + d² = a². But from the nature
nature of the parabola, \( y^2 = bx \), and \( x^2 = \frac{y^2}{b^2} \); substituting therefore these values for \( x^2 \) and \( x \), it will be \( \frac{y^2}{b^2} = \frac{2cy}{b} + y^2 \)

\[ \pm 2dy + c^2 + d^2 - a^2 = 0. \]

Or multiplying by \( b^2 \), \( y^4 \pm \frac{2bc}{b} + y^2 \pm 2d 

\[ b^2 + y^4 + c^2 + d^2 - a^2 \times b^2 = 0. \]

which may represent any biquadratic equation that wants the second term; since such values may be found for \( a, b, c \), and \( d \) by comparing this with any proposed biquadratic as to make them coincide. And then the ordinates from the points \( P, P \), \( P, P \), on the axis, will be equal to the roots of that proposed biquadratic; and this may be done tho' the parameter of the parabola, \( bx \), \( by \) be given: that is, if you have a parabola already made or given, by it alone you may resolve all biquadratic equations, and you will only need to vary the center of your circle and its radius.

If the circle described from the center (ibid. n°. 6.) passes through the vertex \( A \), then \( CF^2 = CA^2 = CD^2 + AD^2 \), that is \( a^2 = d^2 + e^2 \), and the last term of the biquadratic \( (e^2 + d^2 - a^2) \) will vanish; therefore dividing the result by \( y \), there arises the cubic \( y^3 \times \pm 2bc + b^2 \times y \pm 2db^2 = 0. \)

Let the cubic equation proposed to be resolved be \( y^3 \times \pm p \times y \pm r = 0. \) Compare the terms of these two equations and you will have \( \pm 2bc + b^2 = \pm p \), and \( \pm 2d \)

\[ b^2 = \pm r, \text{ or } \pm e = \frac{b}{a} \pm \frac{p}{b} \], and \( \pm \frac{r}{2b^2} \). From which you have this construction of the cubic \( y^3 \times \pm p \times y \pm r = 0. \) by means of any given parabola \( APE. \)

From the point \( B \), take in the axis (forward if the equation has \( -p \), but backwards if \( p \) is positive) the line \( BD = \frac{p}{2b} \); then raise the perpendicular \( DC = \frac{r}{2b^2} \), and from \( C \) describe a circle passing through the vertex \( A \), meeting the parabola in \( P \); so shall the ordinate \( PM \) be one of the roots of the cubic \( y^3 \times \pm p \times y \pm r = 0. \)

The ordinates that stand on the same side of the axis with the center \( C \), are negative or affirmative, according as the last term \( p \) is negative or affirmative; and those ordinates have always contrary signs that stand on different sides of the axis. The roots are found of the same value; only they have contrary signs when \( r \) is positive, to what they have when it is negative, the second term of the equation being wanting. Maclaurin. We have now shown how the roots of cubic and biquadratic equations may be constructed by the parabola and circle; but whoever is curious to know how other conic sections may be determined, by whose inteructions the fame roots may be discovered, is desired to consult Mr. Maclaurin’s Algebra, Renatus Shuus in Mefolubium, De la Hire’s Construction des Equations Analytiques, Sir Isaac Newton at the end of his Algebra, Dr. Halley’s Construction of cubic and biquadratic equations, Mr. Colton’s in the Philosophical Transactions, and Del’Hospital’s Traité Analytique des Sections Coniques.

**CONSTRUCTION**, in grammar, the connecting the words of a sentence according to the rules of the language.

Construction is either simple or figurative, according as the parts of the discourse are placed in their natural order; or receded from that simplicity, when shorter and more elegant expressions are used than the nature affords.

The construction of words, called **syntax**, is distinguished into two parts, concord and regimen. See **Syntax**, **Concord**, and **Regimen**.

**CONSUALIA**, in roman antiquity, a festival instituted by Romulus, who at the time of the rape of the Sabine virgins found an altar under ground dedicated to the god **Conus**, that is Neptune. They were introduced with a magnificent cavalcade, and during the celebration, the horses and asics were crowned with flowers, and a mule was sacrificed to that god.

Servius says the consualia fell on the 15th of August. Plutarch places them on the 15th, and the old roman calendar on the 21st of that month.

**CONSUBSTANTIAL**, among divines, a term denoting something of the same substance with another. Thus the orthodox believe the son of God to be consubstantial with the father. The word **equivocal**, consubstantial, was first adopted by the fathers of the councils of Antioch and Nice, to express the orthodox doctrine more precisely, and to serve as a barrier and precaution against the errors and
and subtleties of the Arians, who owned every thing except the consubstantiality.

**CONSUBSTANTIATION**, a tenet of the lutheran church with regard to the manner of the change made in the bread and wine in the eucharist.

The divines of that profession maintain, that after consecration, the body and blood of our Saviour are substantially present, together with the subsance of the bread and wine which is called consubstantiation or impanation. See the articles LUTHERANISM and IMPANATION.

**CONSURTUDINIBUS and SERVITIUS**, in law, is a writ which lies against a tenant that defroces a lord of his rent and service due.

**CONSUL**, the chief magistrate of the roman commonwealth. They were two in number, chosen every year in the campus martius, by the people assembled in the comitia centuriata. In the first times of the commonwealth, no man could pretend to this dignity, but such as were of a patrician family; but afterwards the people obtained, that one of the consuls should be chosen from among them. A consul was commonly chosen at 43 years of age, but this was not always observed: besides, it was requisite he should have exercised other offices, as that of questor, seile and pretor: and yet this condition was no better observed than the first; for Pompey had never been pretor nor questor when he obtained the consulship. Their authority and power was of very great extent, so long as the commonwealth subsisted. They were the head of the senate: they commanded the armies, and were supreme judges of the differences between the citizens; but as they had made some abuse of this power, it was allowed by the valerian law for the party aggrieved to appeal from their tribunal to the people, especially in cases where the life of a citizen was concerned. Under the emperors, consul was little more than an honourable title, and at last it became absolutely extinct in the time of Justinian. From the establishment of the republic to the consulate of Bafil, that is, from the year of Rome 244, to the year of Rome 1294, the years were accounted by the consuls; but after that period, the time was computed by the years of the emperors reigns and the indictments.

In the middle age, we find the word consul used for comes, and proconsul or vicconsul, for vicount, as is observed by Spelman and De Marca. See the article Consul.

**Consul**, at present, is an officer established by virtue of a commissiion from the king and other princes, in all foreign countries of any considerable trade, to facilitate and dispatch business, and protect the merchants of the nation. The consuls are to keep up a correspondence with the ministers of England residing in the courts whereon their consulate depends. They are to support the commerce and the interest of the nation; to dispose of the sums given and the presents made to the lords and principals of places, to obtain their protection, and prevent the insults of the natives on the merchants of the nation.

By the treaty of Utrecht between Great Britain and Spain, the consul residing in the king of Spain's dominions shall take inventories of the estates of the English dying intestate in Spain; and these estates shall be intrusted with two or three merchants, for the security and benefit of the proprietors and creditors.

The statute of 9 Geo. II. enacts, that it shall be lawful for persons appointed by the consuls at the ports of Cadiz and St. Mary's in Spain, with the majority of the british factors and merchants there, to receive from all english and irish ships trading there, any sums of money not exceeding one rial plate per ducat on the freight of goods and merchandise there imported, and on all tonnage goods not exceeding two rial plates per ton, and all their bills of lading shall specify to pay the same under denomination of contribution. And all british and irish commandors trading to the said ports, and delivering there, shall, within ten days after their arrival, deliver a manifest upon oath, specifying the particulars of the cargo, and to whom configned; which oath is to be administered by the consul, or whom he shall appoint, and the clearances outwards detained by him till payment of the money is made; and any departing without his clearances, the consul, on such master's return to any port in the king's dominions, may have an action at law against him for the said money. All monies raised to be applied to the relief of shipwrecked mariners or other distressed persons his majesty's subjects, and other charitable uses, are appointed by the consul.

**Consuls in France**, are judges elected among merchants in ports and trading towns,
CONSULAR, something belonging to a consul. See the article Consul.

CONSULTATION, in law, a writ by which a cause being removed from the spiritual court to the king's court, is returned thither again; and the reason is, that if the judges of the king's court, by comparing the libel with the suggestion of the party, find the suggestion false or not proved, and on that account the cause to be wrongfully called from the ecclesiastical court, then upon this consultation or deliberation they decree it to be returned. This writ is in the nature of a proceeding; yet properly a consultation ought not to be granted, only in cases where a person cannot recover at the common law. In causes of which the ecclesiastical and spiritual courts have jurisdiction, and they are not mixed with any temporal thing; if suggestion is made for a prohibition, a consultation shall be awarded. See the article Prohibition.

CONSUMMATION, the end or completion of a work. Thus we say, the consummation of all things, meaning the world.

Consummation of marriage, the last act of marriage which makes its accomplishment, or the most intimate union between the married pair.

CONSUMPTION, in medicine, a word of very extensive signification, implies all disorders that bring any decay or waste upon the constitution.

Physicians divide it into several kinds, according to the variety of its causes, as universal or scrophutic consumption, where it arises from a cachexyemia or scrophutic habit; and pulmonic consumption, where it arises from some cause in the lungs, properly called a phthisis. See the articles Scrophutus and Phthisis.

A consumption may either be hereditary, natural, or accidental. In the first case, the taint is originally fixed in the constitution of the embryo, and interwoven with its first principles of life. A natural consumption may proceed from the trainness of the thorax, or a particular ill formation in some of the principal viscera; and the last species, called also symptomatonic consumptions, derive their origin, or in some sort depend upon various distempers; as, 1. A consumption arising from a gonorrhoea, or a fluor albus, if it be confirmed, and hath been of a long standing, is very difficult to cure: if it be recent, the running is to be stopt with great caution; and the hectic heat, if any, are to be allayed by means of a milk diet, or the chalybeate mineral waters. 2. A consumption from abceses and ulcers, in which case the ulcer must be feasonably healed with the use of internals as well as externals; internal balfamcs must be prescribed, and the greatest care taken after the cure of the ulcer, lest a pulmonary consumption should follow, wherefore ifuses are to be made, and the use of balsamcs continued, with a milk diet and mineral waters. 3. A consumption from giving suck. The infant is to be drain'd in time, and the nurse to use a diet that yields good nourishment; and if a hectic disposition requires it, a milk diet and chalybeate waters. 4. A scrophulous consumption, which is known by the glandulous tumours in the outward parts of the body, and from the frequent returns of false eyes and the itch. For the cure, unless there is an obstruction of the liver attended with a dropsy, chalybeate waters must be drank a considerable time in summer. In winter, gums and balsamcs must be taken; and in the spring, a diet-drink with millepedes and antifcorbutics and pectoral ingredients. Opiates should not be given but in cases of necessity. 5. A scrophutic consumption, the principal diagnostics of which are an eruption of spots disposed here and there throughout the whole skin, almost a continual discharge of a vivid saline pus from the jugular glands, especially in the morning; and an exulceration and extenuation of the jaws. The cure of this disease differs from the general method in the following particulars. Opiates are always noxious: the pectoral medicines should be such as incide and cleanse: they should likewise be blended with antifcorbutics, as water-creles, &c. and steel is also useful, unless the disease is too far advanced. 6. An athmatic consumption, for which there is nothing better than a fine, thin, wholesome air; and when this disease proceeds from a convulsive
convulsive asthma, hartshorn drops will be beneficial. 7. A consumption proceeding from hypochondriac and hysterical affections, in which, besides the general method of cure, antihysterials must be given. 8. A consumption proceeding from the green-sickness, and a suppression of the menphis, with many others, as a consumption from a diarrhoea, a dysentery, a diabetes, a salivation, a dropsy, &c. which have nothing peculiar in the manner of their cure but what relates to the primary diseases and a phthisis in general. See the articles PHTHISIS, DIARRHOEA, DIABETES, &c.

CONTENT, in geometry, the area or quantity of matter or space included in certain bounds.

The content of a tun of round timber is 43 solid feet. A load of hewn timber contains 50 cubic feet; in a foot of timber are contained 1728 cubic or square inches; and as often as 1728 inches are contained in a piece of timber, be it round or square, so many feet of timber are contained in the piece.

For the contents of cylindrical vessels, and vessels of other figures, see the article GAUGING.

CONTENTIOUS JURISDICTION, in law, denotes a court which has power to decide differences between contending parties. The lords-justices, judges, &c. have a contentious jurisdiction; but the lords of the treasury, the commissioners of the customs, &c. have none, being merely judges of accounts and transactions.

CONTESSA, a port-town of Turkey, in Europe, in the province of Macedonia, situated on a bay of the Archipelago, about 200 miles west of Constantinople: east long. 25°, and north lat. 41°.

CONTEXT, among divines and critics, that part of scripture or of a writing that precedes and follows the text. See TEXT. In order to have the full sense of the text, the context should be regarded.

CONTI, a town of Picardy, in France, about fifteen miles south-west of Amiens: east long. 2° 20', north lat. 49° 40'.

CONFLAGRATION, in the ancient architecture, the art of laying rafters together, and particularly flooring. See the articles FLOORING and RAFTER.

CONTIGUITY, in geometry, is when the surface of one body touches that of another.

CONTIGUOUS ANGLES, in geometry, are such as have one leg common to each angle, and are sometimes called adjoining angles, in contradistinction to those produced by continuing their legs through the point of contact, which are called opposite or vertical angles. See ANGLE. The sum of any two contiguous angles is always equal to two right angles.

CONTINENT, in general, an appellation given to things continued without interruption; in which sense we say, continent fever, &c. See the article FEVER.

CONTINENT, in geography, a great extent of land not interrupted by seas, in contradistinction to island, peninsula, &c. According to what relations we have of the disposition of the globe from late navigators,
CONTINUITY, is defined by some schoolmen the immediate cohesion of parts in the same quantum; by others, a mode of body whereby its extremities become one; and by others, a state of body resulting from the mutual implication of its parts. There are two kinds of continuity, mathematical and physical. The first is merely imaginary, since it made for that purpose upon the records there.

CONTINUANCE of a writ or action, is its continuing in force from one term to another, where the sheriff has not returned a former writ issued out in the same action. With respect to continuances, the court of king’s bench is not to enter them on the roll till after issue or demurrer, and then they enter the continuance of all on the back, before judgment.

CONTINUANDA ASSISSA. See the article ASSISA.

CONTINUANDO, a term used in a special declaration of trespasses, where the plaintiff would recover damages for several trespasses in one and the same action. To avoid multiplicity of suits, a person may in one action of trespass, recover damages for many trespasses committed, by laying the same to be done with a continuando.

CONTINUANDO PROCESSUM. See the article PROCESSUM.

CONTINUANDO PUNCTUM. See the article PUNCTUM.

CONTINUATION of motion. See the articles Motion and Projectile.

CONTINUATIVE CONJUNCTIONS. See the article CONJUNCTION.

CONTINUATO, in music, signifies, especially in vocal music, to continue or hold on a sound in an equal strength or manner, or to continue a movement in an equal degree of time all the way.

CONTINUED FEVER, a fever attended with exacerbations and flight remissions, but no intermissions.

CONTINUED PROPORTION. See the article PROPORTION.

CONTINUED only or quality. See the article CONTINUITY.

CONTINUED proportion, in arithmetic, is that where the consequent of the first ratio is the same with the antecedent of the second; as 4 : 8 : 8 : 16, in contradistinction to discrete proportion. See the article DISCRETE.

CONTINUED thorubgh bass, in music, that which continues to play constantly, both during the recitations, and to sustain the chorus. See the article CHORUS.
supposes real or physical parts where there are none.

Physical continuity is that state of two or more particles, in which their parts are so mutually implicated, as to constitute one uninterrupted quantity or continuum. The schoolmen again divide it into two other sorts of continuity, as, 1. Homogeneous continuity, that where our senses cannot perceive the bounds or extremes of the parts; and this agrees to air, water, metals, &c. 2. Heterogeneous continuity, where the extremities of certain parts are indeed perceived by the senses, yet, at the same time, the parts are observed to be linked closely to each other, either in virtue of their fixation or figure, &c. and this is chiefly attributed to the bodies of plants and animals.

In medicine and surgery, wounds, ulcers, fractures, &c. are expressed by the phrase soluto continu, or solution of continuity.

CONTINUO, in music, signifies the thorough bass, as basso continuo is the continual or thorough bass, which is sometimes marked in music books by the letters B. C.

CONTINUO is also a species of harmony or mode, mentioned by Julius Pollux, and which, says Zarlin, answers to the perpetual burden of our bagpipes, which now and then must be harmonious.

CONTINUOUS FEVERS, those otherwise called continent. See CONTINUUM.

CONTINUUM, among philosophers, a continued quantity. See CONTINUED and CONTINUITY.

CONTABABDITES, in church-history, a sect of heretics in the sixth century, who allowed of no bishops.

CONTORSION, in medicine, has many significations. 1. It denotes the iliac passion. 2. An incomplete dislocation, when a bone is in part, but not entirely, forced from its articulation. 3. A dislocation of the vertebra of the back side-ways, or a crookedness of these vertebrae. And, 4. A disorder of the head, in which it is drawn towards one side, either by a spasmodic contraction of the muscles on the same side, or a palsy of the antagonistic muscles on the other.

CONTOUR, in painting, the out-line, or that which defines a figure. A great part of the skill of the painter lies in managing the contours well. Contour, with the Italian painters, signifies the lineaments of the face.

CONTOURNE, in heraldry, is used when a beast is represented standing or running with its face to the finifter side of the escutcheon, they being always supposed to look to the right, if not otherwise expressed.

CONTOURNIED, a term among antiquaries applied to medals, the edges of which appear as if turned in a lathe. This sort of work seems to have had its origin in Greece, and to have been designed to perpetuate the memories of great men, particularly those who had bore away the prize at the solemn games. Such are those remaining of Homer, Socrates, and several athletes.

CONTRAFORMAM COLLATIONIS, a writ that lies to recover lands which being given in perpetual alms to a religious house, hospital, school, or the like, have been alienated by the governors or managers.

CONTRAFORMAM FEOFFAMENTI, is a writ which lies for the heir of a person enfeoffed of lands or tenements, who is disfrowned by the lord for more services than are contained in the charter of feoffment.

CONTRAFORMAM STATUTI, is the usual conclusion of every indictment laid for an offence created by statute.

CONTRABAND, in commerce, a prohibited commodity, or merchandise bought or sold, imported or exported, in prejudice to the laws and ordinances of a state, or the public prohibitions of the sovereign. Contraband goods are not only liable to confiscation themselves, but also subject all other allowed merchandise found with them in the same box, bale or parcel, together with the horses, waggons, &c. which conduct them. There are contrabands likewise, which, besides the forfeiture of the goods, are attended with several penalties and disabilities.

The principal goods prohibited to be imported into Great Britain are: * ammos and luftrings, except in the port of London, and by licence; * ammunition, without licence from the king; * arms, without licence from the king; * beef; * bits for bridle; * poplin books; * brandy in casks less than 60 gallons, or in ships less than 15 tons burden; * buttons of all sorts; * printed, painted, stained or dyed callicoes; * cards for wool, and playing cards; * cattle; * chocolate ready made, or cocoa-paste; * cinnamon, without licence, except from India; * woollen cloths; * cloven, without licence, except from
CONTRACT, in common law, an agreement to bring things, that

from India; * cheese and butter from Ireland; rice; east-India, perlia, and china wrought filks, bengals, stuffs mixed with silk, or herba, except into the port of London, and under special regulations; fish of all sorts taken by foreigners, and imported in foreign ships, except flock-fish, live eels, flurgeon, botargo, or caviar, and anchovies; * fringes of silk or thread; gold or silver thread, lace, fringe, or other works made thereof; * malt from beyond sea; * mutton; salt in ships under twenty tun or not in bulk; * sheep; silk embroidered, raw, and mohair yarn, of the product or manufacture of Asia, from any ports or places on the Straights or Levant seas, except such as are within the dominions of the grand signior; thrown filk, except from Italy, Naples, or Sicily; twined filk; wrought filk mixed with gold, silver, or other materials; * wine; tea, except from the place of its growth; all tobacco-talks and items; all tobacco, wine, brandy, east-india or other commodities, other than the growth or manufacture of the isle of Man, prohibited to be brought from thence into Great Britain or Ireland, on any pretence whatsoever; * utensils of war, without licence from the king; * cut whalebone; wire of iron or lattin for wool; cards and all iron wire smaller than fine and superfine, and all wares made of iron wire.

Goods prohibited to be exported, are boxes, casks, or dial-plates for clocks and watches without the movement and makers names; bullion, without proper certificates, oaths, &c. frames for stockings; raw hides; unwrought horns; metal not of britsh ore, except copper-bars; wool; scowring and fullers clay; sheep and sheepkins with the wool; tallow; utensils used in the silk and woolen manufactory; white ashes, &c.

N.B. Such goods in the foregoing list as have an alterfish prefixed before them, besides the forfeiture in common with the rest, are attended with several penalties.

CONTRACT, in a general sense, a mutual consent of two or more parties, who voluntarily promise and oblige themselves to do something, pay a certain sum, or the like. All donations, exchanges, leaves, &c. are so many different contracts.

CONTRACT, in common law, an agreement or bargain between two or more persons with a legal consideration or cause; as where a person sells goods, &c. to another for a sum of money; or covenants, in consideration of a certain sum, or an annual rent, to grant a lease of a mefluage, &c.

These are good contracts in law, because there is one thing in consideration for another: but if a person promises to give or pay 20s. which afterwards, on being demanded, he refuses to pay, no action lies to recover it; because such a promise will not amount to a contract, it being no more than a bare promise, termed in law mutum pactum: yet, if any thing was given in consideration of such a promise, were it but to the value of a penny, it is deemed a good contract, and consequently will be binding. In contracts the time is to be regarded, in and from which they are made; and there is a difference where a day of payment is limited thereon, and where not: for when it is limited, the contract is good presently, and an action lies on it without payment; but, in the other case, it is otherwise.

Uxorious Contract, is an agreement to pay more interest for money than the laws allow.

It is a devaftavit in executors to pay a debt upon an uxorious contract. In marriage, the romanists distinguish the civil contract, which is the consent of the parties, from the sacrament, which is the benediction of the priest: those contracts are said to be null and void, which the law prohibits the making of.

CONTRACT is also used for the instrument in writing which serves as a proof of the consent granted, and the obligation passed between the parties.

CONTRACTILE force, that property or power inherent in certain bodies, whereby, when extended, they are enabled to draw themselves up again to their former dimensions.

CONTRACTION, in grammar, is the reducing of two syllables into one, as can't for cannot, should'd for should'd, &c. The greek language, both in its verbs and nouns, abound in contractions, as Baw is contracted into baw, when contracted into bow, &c.

The french language has in its pronunciation, at least, something like it, as when they pronounce faulder, basiller, paan, &c. in this manner, fouler, basiller, paan, &c.

CONTRACTION, in logic, a sort of reduction, whereby things are abridged, or brought into less compass.

The use of contraction is to bring things, that
that before were too lax and diffusive, nearer together, so that their mutual relation may appear the more distinct, and that they may strengthen and support one another the better: thus, in the following argumentation, *Ex ffa enunciatione, erga nunc sum flans, sequitur ffa enunciation, erga nunc sum existens: id est, ex ffa sequitur sum.* Or in English thus, *From the proposition, therefore now I am standing, follows this other, therefore now I am existing; which may be contracted into, standing implies existing.*

To this head are referred the arguments of poems and orations, the titles and summaries of chapters, &c. Chauvin.

**CONTRACTION**, in physics, the diminishing the extent or dimensions of a body, or the causing its parts to approach nearer to each other, in which sense it stands opposed to dilatation or expansion. See **DILATATION** and **EXPANSION**.

Hence contraction is frequently used by anatomists to express the shrinking up of a fibre, or an affemblage of fibres, when extended. As paralytic disorders generally proceed from too great a laxness of the fibres in the part affected; *id est,* on the other hand, convulsions and spasms proceed from a preternatural contraction of the muscles of the part convulsed. See the articles **MUSCLE** and **FIBRE**.

**CONTRADICENTENEMINE CONTRADICENTE.** See **NEMINE.**

**CONTRADICTION**, a sort of direct opposition, wherein one thing is found directly contrary to another.

It is usually defined in the schools, *oppositio inter ens & non-ens, medio carens;* where by *ens & non-ens,* are meant any two extremes, one whereof affirns and the other denies; and it is said to be *medio carens,* in order the better to distinguish it from other species of oppositions: for the extremes here neither agree in subject, as is the case in form and privation, nor in essence and kind, as in contrariety. Chauvin. See **CONTRARIETY** and **PRIVATION**.

**CONTRADICTORY,** in a legal sense, a person that has a title to contradiect or gainfast.

An inventory of the goods of a minor should be made in presence of his guardian, or trustee, he being the legal contradictor. A decree against a farmer has no effect on the landlord, the first not being the legitimate contradictor.

**CONTRADICTORY PROPOSITIONS,** in logic, are such as differ both in quality and quantity, one being universal, and the other particular, which constitutes the opposition of quantity; one affirmative and the other negative, which makes the opposition in quality: thus, *A. Every vine is a tree.* 0. *Some vine is not a tree.* These can never be both true, and both false at the same time. To this it is necessary that the one deny, and the other affirm, the same thing of the same subject, considered in the same circumstances, every thing having always its own essence. This logicians express by *affirmare & negare ideam, de eodem secundum ideam.* If two universals differ in quality, they are contradictory; as, *A. Every vine is a tree.* 0. *Some vine is not a tree.* These can never be both true together, but they may be both false. If two particular propositions differ in quality only, they are sub-contradictory; as, *J. Some vine is a tree.* 0. *Some vine is not a tree.* These may be both true together, but they can never be both false. There are likewise contradictory propositions on an individual, which are called single contradictions; as, *Peter is just, Peter is not just.* Now in such a case, Peter must be considered at the same time, without which they may be both true; since there was a time wherein Peter was just, and wherein he was not.

Seeming contradictions is when the members of a period quite disagree in appearance and found, but perfectly agree and are consistent in sense: thus,

"Cowards die many times before their death;"
"The valiant never taste of death but once.”

*Shakspeare.*

**CONTRA-FISSURE,** in surgery, a kind of fracture, or fissure, in the cranium, which sometimes happens on the side opposite to that which received the blow; or, at least, at some distance from it. The most certain symptoms of a contra-fissure are vehement pains, vomiting, vertigo, noise in the ears, &c. If these happen, and no fracture or depression of the cranium be found, where the wound was received, there is a suspicion of a contra-fissure, especially if the patient is apt to point to that part. If the symptoms be by intervals, or not to a great degree, or there be reason to believe the fissure to have reached only thro' one of the tables, it is sufficient to bore down to the diploe, and dress with bal- fancic medicines: but where any violent symptoms come on, which demonstrate an...
CONTRA-HARMONICAL PROPORION, in arithmetic, is that relation of three terms, wherein the difference of the first and second is to the difference of the second and third as the third is to the first: thus, 3, 5, and 6 are numbers contr-harmonically proportional, for 2:1:6:3.

CONTRA-INDICATION, in medicine, an indication which forbids that to be done, which the main scope of a diæase points out: as if, in the cure of a diæase, a vomit was judged proper; if the patient be subject to a vomiting of blood, it is a sufficient contra-indication as to its exhibition. See INDICATION.

CONTRALTO, in music, a term used by the Italians for two haut contres, because they play contrary to the contrary.

CONTRAMANDATI0 PLACITI, in ancient law-books, seems to signify a re-spitting, or giving the defendant further time to answer; or an impeachment, or countermanding what was formerly ordered.

CONTRAMANDATUM is said to signify a lawful excuse, which the defendant in any suit, by his attorney, alludes for himself, to shew that the plaintiff has no reason to complain.

CONTRAMURE, in fortification, is a wall built before another partition-wall, to strengthen it, so that it may receive no damage from the adjacent buildings. See WALL and RAMPART.

CONTRAPosition, among logicians, the same with conversion. See the article Conversion.

CONTRARIUM ROTULUS. See ROTULUS CONTRARIUM.

CONTRARIETY, an opposition between two things, which imports their being contrary to one another; and consists in this, that one of the terms implies a negation of the other, either mediate, or immediately; so that contrariety may be said to be the contrant, or opposition of two things, one of which imports the absence of the other, as love and hatred. Chauvin.

CONTRARY, a positive opposite, which, fulfilling by turns in the same subject with its opposite, is as remote from it as possible, expels it, and is mutually expelled by it. Blackness and whiteness, cold and heat, are such contraries. See OPPOSITES and CONTRARIETY.

Hence qualities alone can, strictly speaking, be contraries; contrariety, in effect, only agreeing to qualities per se: to other things it agrees per accident.

Contrary is, however, often used in a more extensive and general sense, that is, for any opposition or difference between the nature of things. It is a maxim in philosophy, that contraria sunt sita e contrario, i.e. that contraries let off one another.

CONTRARY, in rhetoric. F. de Colonia lays down three kinds of contraries in oratory, viz. adverdatives, privatives, and contradictories. Adverdatives are those that differ much in the same thing, as virtue and vice, war and peace, as in this of Cicero, *Si fullittium fugimus, fapientiam sequamur*; & bonitatem, *si malitiam*; and in this of Quintilian, *Malorum cauza bellum off, erit emendatio pacis*.

Drances, in Virgil, argues thus, *Nulla bello; pacem te poscimus omnem*. Privatives are habits, and their privations. Contradictories are those, one wherever affirms and the other denies the same thing of the same subject. Trewaux.

CONTRAST, in painting and sculpture, expresses an opposition or difference of position, attitude, &c. of two or more figures, contrived to make variety in a painting, &c. as where, in a group of three figures, one is shewn before, another behind, and another sideways, they are said to be in contrast.

The contrast is not only to be observed in the position of several figures, but also in that of the several members of the same figure; thus, if the right arm advance farthest, the right leg is to be hindermost; if the eye be directed one way, the arm to go the contrary way, &c. the contrast must be pursued even in the drapery.

CONTRAST, in architecture, is to avoid the repetition of the same thing, in order to please by variety.

CONTRA-THREE, in watch-work, that next to the crown, the teeth and hoop whereof lie contrary to those of the other wheels, from whence it takes its name. See the article Clock.

CONTRAVALLATION, or the line of contravallation, in fortification, a trench guarded with a parapet, and usually cut round about a place by the besiegers, to secure themselves on that side, and to stop the sallies of the garrison. See the article FORTIFICATION.
CONTRAVENION, in law, a man's failing to discharge his word, obligation, duty, or the laws or customs of the place. The penalties imposed in cases of contravention only pass for comminatory. See the article COMMINATORY.

CONTRAVENION, in a more limited sense, signifies the non-execution of an ordinance or edict. It is supposed to be the effect of negligence, or ignorance.

CONTRAYERVA, in the materia medica, the name by which the roots of the dorstenia plant are known in the shops. See the article DORSTENIA. It is an irregular shaped root, knotty and uneven on the surface; its usual length being from one inch to an inch and a half: it is to be chosen in large and fair roots, firm, found, and of a good colour, full of knobs, not easily broken, and of a pungent acrid taste. The antients knew nothing of this root. It is brought from New Spain, and is an excellent styptic; it disperses flatulences, and strengthens the stomach, disperses flatulences, and helps digestion. It is greatly used in fevers of many kinds, and is even by some recommended against the plague, and other malignant distempers, as one of the greatest known remedies, on account of its antiseptic virtue. It is given in powder and decoction; but with us principally in the form of the lapis contrayerva of the shops: its dose is from ten grains to half a dram. The lapis contrayerva is composed of crab's claws, prepared, one pound; prepared pearls, and red coral, of each three ounces; powder of contrayerva, five ounces: this used to be wetted into a paste, and made up into balls, whence it has its name. But the new Dispensatory orders it to be kept in powder, under the name of pulvis contrayervae compositus.

CONTRE', in heraldry, an appellation given to several bearings, on account of their cutting the shield contrary and opposite ways: thus we meet with contre-bend, contre-chevron, contre-pale, &c. when there are two ordinaries of the same nature opposite to each other, so as colour may be opposed to metal, and metal to colour. See COUNTER.

CONTRE-BARRE'. See COUNTER-BARRED.

CONTRE-BEND'. See COUNTER-BEND.

CONTRE-CHEVRON'. See COUNTER-CHEVRONED.

CONTRE-COMPONE'. See COUNTER-COMPOSED.

CONTRE-ERMINE'. See ERmine.

CONTRE-ESCARTALE', &c. See the article COUNTER-QUARTERED, &c.

CONTRIBUTION, in a general sense, the payment of each person's quota, or the share he bears in some imposition or common expense. Contributions are either voluntary, as those of expenses for carrying on some undertaking for the public interest; or involuntary, as those of taxes and imposts.

CONTRIBUTION, in a military sense, an imposition or tax paid by frontier-countries to an enemy, to prevent their being plundered and ruined by him.

CONTRIBUTIONE FACIENDA, in law, a writ that lies where tenants in common are bound to do the same thing, and one or more of them refuse to contribute their part; as where they jointly hold a mill, pro indiviso, and equally share the profits thereof, if the mill fails to decay, and one or more of the persons refuse to contribute to its reparation, the rest shall have this writ to compel them.

CONTRITION, in theology, a sorrow for our sins, resulting from the reflexion of having offended God, from the sole consideration of his goodness, without any regard to the punishment due to the transgressions, and attended with a sincere resolution of reforming them. The scripture never uses this term in this sense; but there are several passages which prove that, without contrition, there is no repentance, and without repentance no remission of sins.

CONTROL, COMPTROL, or CONTROLE, is properly a double register kept of acts, issues, &c. of the officers or commissioners in the revenue, army, &c. in order to perceive the true state thereof, and to certify the truth, and the due keeping of the acts subject to the enregistrement.

CONTROLLER, an officer appointed to control or oversee the accounts of other officers, and, on occasion, to certify whether or no things have been controlled or examined. In England we have several officers of this name, controller of the king's house, controller of the navy, controller of the customs, controller of the mint, &c.

CONTROLLER OF THE HANAPER, an officer that attends the lord chancellor daily, in term and in seal-time, to take all things, sealed
CONTUSION, CONTUMACY, CONTROVERSY, CONTROVER;

Circumstances, the injury, and the nature of the party in sequence: this influences external canters; Some may wounds. Contusions may be surgeries of an infinite number of small instruments; a blunt and fibres are injured and broken, a contusion such offence. The man seems to occasion a controversy for property, when he prohibits any body from the possession of his natural right.

CONTUMACY, in law, a refusal to appear in court, when legally summoned; or the disobedience to the rules and orders of a court, having power to punish such offence. In a criminal sense, the contumacious is condemned, not because the crime is proved on him, but because he is absent. In England, contumacy is to be prosecuted to outlawry. In France, all contumacies are annulled, if the accused make his appearance in five years; if he die in that time, his relations are permitted to purge his memory.

CONTUSION, in medicine and surgery, any hurt of the body that is inflicted by a blunt instrument; and since, in this case, an infinite number of small vessels and fibres are injured and broken, a contusion may properly be said to be a congeries of an infinite number of small wounds.

Contusions may be distinguished into several sorts: 1. Some may be called simple contusions; that is, when only the loft external parts are injured; some are compound, when the internal or bony parts also partake of the injury. 2. Some contusions are slight, others of great consequence: this depends upon the cause of the injury, and the nature of the part injured. 3. Lastly, some contusions are so circumstanced, which is very wonderful, that the internal parts shall be violently affected, whilst the external remain whole and unhurt.

When the small vessels and fibres have been broken by a contusion, the fluids that were contained in them will be forced out: this will occasion obstructions, corruptions, inflammations, and ulcers, and even a gangrene, and several other mischiefs, in proportion to the violence of the cause, and the nature of the part affected. When the external parts are contused, the skin at the same time remaining whole, the blood will flaginate under it, and occasion red, black, and livid spots, &c. and if this happens near a bone, a caries. Contusions may be examined by the eye; for when inflicted upon the external parts of the body, tumours are formed, and the injured part discoloured. When the contusion is not within the reach of the eye, it must be felt for; an unnatural softness of the limb, or a fluctuation of the extravasated blood under the finger, will point out the injured part; pains and rigidity of the contused part will make the same discovery; and lastly, a judgment may be formed of the degree of the contusion, from the manner in, and the instrument with, which it was given. Slight contusions are attended with little or no inconvenience, besides discolouring the skin; and even that deformity is of a very short duration; but in larger contusions, where there it a great collection of flagnating blood in the muscular parts, an abscess, gangrene, or phaceous will easily follow. Contusions of the internal parts are extremely dangerous, in proportion to the violence of the hurt, and the consequence of the part in performing the necessary offices of life. If inanimate death does not happen in this case, it is usually attended with such dangerous inflammations, that the patient consumes away by degrees, and rarely escapes. Contusions of the bones, particularly of their medulla, and of the joints or ligaments, are very dangerous, which will make it necessary to cut off the limb, to preserve the life of a patient: but the contusion of the cranium, from the vicinity of the brain, exceeds the rest in the mischiefous consequences which attend it; and lastly, if the eye is contused, a tumour and inflammation will succeed, and frequently the loss of sight. The principal care in the cure of contusions, should be to divide the inflamed fluids, and, at the same time,
time to prevent the parts from suppurring and being afflicted with a gangrene. There are several methods successfully used for the cure of slight contusions, as when a tumour arises in the forehead from a fall, it may be cured by fomenting with warm wine, with the spirit of wine, by hungarian water, or by applying cold vinegar, mixed with salt, to the part; or by clapping a broad piece of money, or a plate of milled lead upon the tumour, and fastening it on with a very tight bandage. Larger contusions may be dried with decoctions ex scordio, fabina, abrotono, vel fetcim, vel junctim, in vino vel aqua falfa. Great benefit will be found by applying a sponge dipped in decocto faponis veneti, in urina recenti; or by the applications of aqua calcis cum admipto spiritu vini camphorato; vel juncim, vel acetum, semine carvi cocutum. These remedies are to be applied warm.

When the contusion is so violent that it is impossible to divide the stagnating fluids, and return them into the circulation, and the parts are fastening to become gangrenous, they must be scarified without delay; which being done, there must be proper fomentations applied, before which the tumour must be rubbed well with hot cloths. See Scarification.

Where the contusion is of any consequence, the administration of internal medicines should not be neglected, and these must be such as promote the discharge of sweat and urine. In plethoric habits a vein should be opened, and that repeated as often as the patient is threatened with an abscess or gangrene.

The cure of the wound is easily performed, by filling it up with pledges spread with a digestive medicine, and laying on a warm plaster over the dressings. The patient must abstain from flesh and strong liquors, living wholly upon broths and thin spoon-meat.

**CONVALLILLY, convallaria, in botany.** See the next article.

**CONVALLARIA, in botany, a genus of the hexandra-monogynia class of plants, comprehending the conval-lilly, or lily of the valley, lilium convallium, solomon's-seal, polygonatum, the unifolium, and a species of simlax.** In the lily of the valley, the flower-petal, which is single in all of them, is globose, campanulated, and patent; in solomon's-seal, it is tubulato-campanulated, and pointed; in the unifolium, the third part of the fructification is wanting: and in the simlax the flower-petal is divided into five very acute and patent segments; in all of them the fruit is a trilocular, globose berry, containing fingle and roundish seeds.

**CONVENT, in church-history, the same with monastery.** See Monastery.

**CONVENTA PACTA.** See the article PACTA CONVENTA.

**CONVENTICLE, a private assembly or meeting, for the exercise of religion.** The word was first attributed as an appellation of reproach to the religious assemblies of Wickliffe, in this nation, in the reigns of Edward III. and Rich. II. and is now applied to illegal meetings of non-conformists. There were several statues made in former reigns, for the suppression of conventicles; but by Will. and Mary, it is ordered, that dissenters may assemble for the performance of religious worship, provided their doors be not locked, barred, or bolted.

**CONVENTION, a treaty, contract, or agreement between two or more parties.** Every convention among men, provided it be not contrary to honesty, and good manners, produces a natural obligation, and makes the performance a point of conscience. Every convention has either a name and a cause of consideration; or it has none: in the first case it obliges civilly and naturally, in the latter only naturally. See the article Contract.

**CONVENTION, in ancient and modern pleadings, is used for a covenant, or agreement; as in the book of rolls of the manor of Hatfield, in Yorkshire, we have a record of a plesant convention in the reign of Edward III. between Robert de Ruderham and John de Ithen, the latter of whom sold the devil in a string, for three pence half penny, to the former, to be delivered the fourth day after the convention: when the purchaser making his demand, the seller refused to give him livery; but it appearing to the court that such a plea does not lie among christians, the parties were adjourned to hell for judgment.

**CONVENTION is also a name given to an extraordinary assembly of parliament, or the states of the realm, held without the king's writ; as was the convention of estates, who, upon the retreat of king James II. came to a conclusion that he had abdicated the throne, and that the right of succession devolved to king William and queen Mary; whereupon their assembly expired as a convention, and was converted into a parliament.**
CONVENTION of Rouen, the burse or exchange of that city.

CONVENTION FACIENDA, in law, a writ of covenant, which lies in case of any breach of contract, to oblige the party to stand to his agreement.

CONVENTUAL, in general, denotes something belonging to a convent, or monastery: thus, monks who actually reside in a convent, are called conventuals, in contradistinction to those who are only guests, or in possession of benefices depending on the house.

CONVENTUAL PRIOR. See Prior.

CONVERGING, or CONVERGENT LINES, in geometry, are such as continually approach nearer one another; or whose distance becomes still less and less. These are opposed to divergent lines, the distance of which becomes continually greater: those lines which converge one way, diverge the other.

CONVERGING HYPERBOLA, is one whose concave legs bend in towards one another, and run both the same way. See HYPERBOLA and CURVE.

CONVERGING RAYS, in optics, those rays that, issuing from divers points of an object, incline towards another, till, at last, they meet and cross, and then become diverging rays.

Thus the rays A B and C B (plate L, fig. 2.) converge till they come to the point B; and then they diverge, and run off from one another, in the lines B E, B F.

CONVERGING SERIES. See Series.

CONVERSE, in mathematics. One proposition is called the converse of another, when, after a conclusion is drawn from something supposed in the converse proposition, that conclusion is supposed; and then, that which in the other was supposed, is now drawn as a conclusion from it: thus, when two sides of a triangle are equal, the angles under these sides are equal; and, on the converse, if these angles are equal, the two sides are equal. See TRIANGLE.

CONVERSE DIRECTION, in astrology, is used in opposition to direct direction; which last carries the promoter to the significator, according to the order of the signs; but the former carries it from east to west, contrary to the order of the signs.

CONVERSION, in a moral sense, implies a repentance for a temper and conduct unworthy our nature, and unbecoming our obligations to its author, and a resolution to act a wiser and a better part for the future.

CONVERSION, in rhetoric, &c., is understood of arguments which are returned, retorted, and shewn on opposite sides, by changing the subject into the attribute, and the attribute into the subject. See ATTRIBUTE, &c.

CONVERSION, in war, a military motion whereby the front of a battalion is turned where the flank was, in case the battalion is attacked in the flank. See the article QUARTER-WHEELING.

As this may often be the case in action, this motion is accounted a most useful and necessary one.

CONVERSION of equations, in algebra, is when the quantity sought, or any part or degree thereof, being in fractions, the whole is reduced to one common denomination, and then omitting the denominators, the equation is continued in the numerators only. Thus suppose $a - b = \frac{a}{d} + \frac{c}{d} + b + b$; multiply all by $d$, and it will stand thus, $da - dc = \frac{a}{d}c + db + db$. See EQUATION.

CONVERSION of propositions, in logic the changing of the subject into the place of the predicate, and the predicate into the place of the subject; and yet always retaining the same quality of both propositions: as, Every right-lined triangle has the sum of its angles equal to two right ones: Every right-lined figure, that has the sum of its angles equal to two right ones, is a triangle.

Conversion is usually defined a due change of the order of the extremes: i. e. under such a habitus and coherence, with respect to each other, that the one is rightly inferred from the other.

CONVERSOS, CONVERTS, a title formerly given to a society of converted Jews. See the next article.

CONVERT, a person who has undergone conversion. See CONVERSION. Convert is more frequently used in respect of changes from one religion, or religious sect, to another.

These, with regard to the religion they have relinquished, are designated apostates, and converts only with relation to the religion turned to. Henry III. built a house in London, for such Jews as turned christians, called Domus conversionis, where the profelytes, being obliged to regular customs, had a handfome support allowed them for life.

Converts,
CON VERTS, in a monastic sense, are lay friars, or brothers, admitted for the service of the house, without orders, and not allowed to sing in the choir.

CONVEX, an appellation given to the exterior surface of gibbous or globular bodies, in opposition to the hollow inner surface of such bodies, which is called concave: thus we say, a convex frieze, lens, mirror, superficies, &c. See the articles FRIEZE, LENS, &c.

CONVEXITY, that configuration or shape of a body, on account of which it is denominated convex. See CONVEX.

CONVEYANCE, in law, a deed or instrument that passes land, &c. from one person to another. The most usual conveyances are deeds of gift, bargain and sale, lease and release, fines and recoveries, &c. The words give and grant, are necessary in a conveyance at common law; but though some maintain that conveyances shall operate according to the words; yet, of late, the judges have a greater regard to the passing of the estate, than to the manner by which it is passed.

CONVICT, in common law, a person that is found guilty of an offence by the verdict of a jury. The law implies that there must be a conviction before punishment for any offence, though it be not mentioned in any statute. On a joint indictment, or information, some of the defendants may be convicted and others acquitted.

CONVICT RECUSSANT, a person who has been legally presented, indicted, and convicted for refusing to come to church to hear the common prayer, according to the statutes 1 and 25 Eliz. and 3 Jac. I. CONVICTION, in theology, expresses the first degree of repentance, wherein the sinner becomes sensible of his guilt, of the evil nature of sin, and of the danger of his own ways. See CONTRITION.

CONVICTION, in law. See Convict.

CONVIVIUM, BANQUET, in our old customs, a kind of tenure whereby the tenant was obliged to provide an entertainment for his lord, once, or oftener, every year. It corresponded with the procuration of the clergy. See PROCURATION.

CONULUS, in the history of shell-fish, a name by which some call those echini which are of a conical shape: they are frequently found fosile, in which state they are known by the names of scolopendrite, bufonite, and print; in English cap-tilones.

CONVOCATION, an assembly of the clergy of England, by their representatives, to consult of ecclesiastical matters. It is held during the session of parliament, and consists of an upper and a lower house. In the upper fit the bishops, and in the lower the inferior clergy, who are represented by their proctors, consisting of all the deans and archdeacons, of one proctor for every chapter, and two for the clergy of every diocese, in all one hundred and forty-three divine, viz. twenty-two deans, fifty-three archdeacons, twenty-four prebendaries, and forty-four proctors of the diocefean clergy. The lower house chooses its prolocutor, whose business it is to take care that the members attend, to collect their debates and votes, and to carry their resolutions to the upper house. The convocation is summoned by the king's writ, directed to the archbishop of each province, requiring him to summon all bishops, deans, archdeacons, &c.

The power of the convocation is limited by a statute of Henry VIII. They are not to make any canons or ecclesiastical laws, without the king's licence; nor, when permitted to make any, can they put them in execution, but under several restrictions. They have the examining and cenfuring all heretical and schismatical books and persons, &c. but there lies an appeal to the king in chancery, or to his delegates. The clergy in convocation, and their servants, have the same privileges as members of parliament. See PARLIAMENT.

CONVOLUTION, a winding motion, proper to the trunks of some plants, as the convolvulus or bindweed, the clasps of vines, bryony, &c.

CONVOLVULUS, BINDWEED, in botany, a genus of the pentandria-monogyia class of plants, the corolla of which consists of a single, patent, campanulated petal, plicated and very lightly divided at the rim: the fruit is a capsule, of a roundish figure, contained within the cup, and formed of one, two, or three valves: the seeds are two, roundish, and often acute: the corolla is usually cut in ten places, but there are species in which these crene are but five. See plate LI. fig. 1.

To this genus belong scammony, mechoacan, jalap, and turbith; for the virtues of which see the articles SCAMMONY, MECHOACAN, &c.
CONVOY, in marine affairs, one or more ships of war, employed to accompany and protect merchant-ships, and prevent their being infulted by pirates, or the enemies of the state in time of war.

CONVOY, in military matters, a body of men that guard any supply of men, money, ammunition, or provisions, conveyed by land into a town, army, or the like, in time of war.

CONUSANCE. See CONVULSION.

CONUSOR. See CONVULSION.

CONVULSION, /pajnus/, in medicine, a preternatural and violent contraction of the membranous and muscular parts, arising from a spasmodic stricture of the membranes surrounking the spinal marrow, and the nerves distributed from it, and an impetuous influx of the nervous fluid into the organs of motion.

Convulsions attack the patient variously; for in some they happen suddenly, without any signs of the approaching disorder; whilst in others, they may be foreseen by various signs. During the convulsive paroxysm, the limbs are surprisinglv agitated; sometimes the arms are forced towards the back, that the patient seems to sit upon them; sometimes they beat the air; at other times, the legs are drawn into various directions; sometimes they flamp; sometimes the spine of the back is incurvated so as to form an arch, whilst the breast is raised: and at other times the whole body is as stiff as a stone. These agitations seize many in the very posture in which they are, without throwing them on the ground; whilst others, like epileptic patients, fall suddenly down, weep, laugh, grind their teeth, gape, hang out their tongue, and are vertiginous.

After the paroxysm many patients retain an incredible languor of the whole body, many fall into deliriums, and a profound sleep; in others, the disorder is terminated by eruptions, an explosion of flatus, lencies, vomiting, a copious discharge of the lymph, &c. These are most subject to convulsions, whose nervous systems are either naturally, or by any other cause, weak, especially if their juices be impure. Among the mediate causes which dispose to this constriction of the spinal marrow, the most considerable are violent passions, especially if the patient be exposed to cold, or commits any error in regimen.

Though convulsions are very terrible, they are not suddenly mortal; when they are recent, the patient young, and the constitution found, an easy and short cure is to be hoped for.

In the cure of convulsive motions, we are first to correct the material causes which support the disorder; prepare them for an elimination, and commodiously evacuate them: then the violent and irregular commotions of the nervous parts must be allayed, and the nervous system corroborated, to prevent a relapse: the cure is not to be obtained by a great variety of drastic remedies: but rather by mild medicines, and such as are friendly to nature. If the disorder arises from a redundancy of humours, or a thickness of the blood, Hippocrates advises venefection, either in the foot or arm, to be used; or lacerifications to be interposed: but these motions are rarely removed without a proper air, exercise, and regimen. Warm baths for the feet, prepared of river-water and chamomile-flowers, has a singular efficacy; and also large draughts of cold simple water. If convulsions arise from excess of venery, the patient is by all means to abstain from anything that produces commotions. If they arise from a supputation of the menses, &c. they must be removed by recalling the evacuations. See the next article.

CONVULSIVE, in medicine, a term applied to those motions which naturally should depend on the will, but are produced involuntarily by some external cause, as a contraction of the muscles, &c. See the preceding article.

Hence convulsive may be applied to any thing that occasions a convulsion, of which there are a great variety. Wounds of the nerves are said to be convulsive: white hellebore is convulsive; and the cramp is a convulsive contraction of some muscular part of the body. Children are much liable to convulsive disorders, arising from various causes, as retention, curdling of the milk in the stomach or intestines,
COO [ 739 ]

COO

intestines, worms, &c. St. Vitus's dance is a sort of convulsive disorder boys and girls are subject to: it discovers itself by a kind of lameness: this disorder Dr. Brookes takes to be a paralytic one, and to proceed from a relaxation of the muscles, which, being unable to perform their functions in moving the limbs, shake them irregularly by jerks. This disorder, as several convulsive disorders do, and particularly epilepsies, keeps pace with the phases of the moon, or with the tides. The doctor recommends purging and blood-letting, according as the age of the patient will bear it, for a cure in this disease. Convulsive motions, occasioned by worms, are to be cured by destroying the worms: for the convulsive asthma, see the article Asthma.

CONWAY, a market-town of Carnarvonshire, in north Wales, situated near the mouth of a river of the same name, fifteen miles west of St. Asaph: west long. 4° 50', and north lat. 53° 20'.

CONYZA, FLEA-BANE, in botany, a genus of the diencephala-polygama-superficialis class of plants, the compound flower of which is tubulose, consisting both of hermaphrodite and female ones; these last have no flower-petals; but the hermaphrodite ones consist of one indistinguishable petal, divided into five petalous segments at the limb: the stamens are five very short capillary filaments: the seeds are solitary, oblong, and crowned with simple downy filaments, and stand in the cup.

The common flea-bane is recommended in the jaundice, to promote the menses, and in the strangury. Some also make an ointment of its leaves and root, which is said to cure the itch.

CONYZOIDES, or CONYZELLA, in botany, names by which some authors call the erigeron of Linnaeus.

CONZA, a town of the kingdom of Naples, in Italy, situated in the farther Principate, on the river Ospanto, fifty miles south-east of the city of Naples; east long. 16°, north lat. 41°.

It is the see of an archbishop.

COOK, a person whole business it is to dress and deliver out victuals.

A ship's cook has an assitant, commonly nominated the cook's mate.

COOK-ROOM, in a ship, the place where victuals are dressed.

The cook-room in ships is sometimes situated in the hold, but generally in the forecastle, where there are furnaces contrived, and other necessaries for the purpose. See the article SHIP.

COOLER, among brewers, distillers, &c. a large vessel wherein certain liquors are cooled, after having been boiled.

COOLERS, in medicine, those remedies which affect the organs of feeling with an immediate sense of cold, being such as have their parts in left motion than those of the organs of feeling; as fruits, and all acid liquors: or they are such as, by a particular viscosity, or grossness of parts, give the animal fluids a greater constancy than they had before, and consequently retard their motion; having less of that intire force on which their heat depends.

Of this sort are cucumbers, and all substances producing viscosity.

We find little prescribed in the shops under the intention of coolers, but great variety may be made by the good housewife: such are lemonade with wine, wine and water, and several juleps, consisting of syrup of lemons or oranges, with wine, rose-water, and the like. Several cooling decoctions may also be made of lemons, pearl-barley, liquorice, &c. in spring water, adding a little cochineal, finger, or rose-water.

COOM, a term applied to the foot that gathers over an oven's mouth; also for that black, greasy substanct, which works out of the wheels of carriages.

Coom or foot is often used in medicine, infused in wine, with other ingredients, as an anthyptic, and against palpitations of the heart, &c. The spirit of foot is also used for the same purposes, and is accounted of great use in cephalic cafes.

COOMB, or COB OF CORN, a dry measure containing four bushels, or half a quarter. See the article MEASURE.

COOMINGS, or COAMINGS. See the article COAMINGS.

COOPER, in geography, the name of a river in Carolina, in north America.

COOPER, on board a ship, he that looks to the casks, and all other vessels for beer, water, or any other liquor. He has a mate under him.

CO-ORDINATE, something of equal order, rank, or degree with another. See the article ORDER.

CO-ORDINATION, in regard of cause, imports an order of causes, wherein a variety of the same kind, order and tendency
tendency concur, in the production of the fame effect.

COOS, or LONGO, an island of the Archipelago, situated near the south-west coast of Natalia, and subject to the Turks: east long. 27° 30', north lat. 35°.

COPAIBA, or balsam of Copaiiba. See the article BALSAM.

COPAL, in the materia medica, is a true resin, being inflammable and soluble in oil, tho' it, as well as the anime, and some other bodies of this class, is miscalled a gum. The true copal is a resin of a considerably firm texture, brought to us from South America in large masses, or in single lumps or drops. The copal greatly resembles amber in appearance; it is of a fragrant smell; its taste is subaltringent and somewhat aromatic. The Americans use copal as they do anime, for disorders of the head, by way of fumigations. We do not use it at all in medicine, but an excellent yamhill is made of it.

COPARCEIIARY-SHARE, in law, that of coparceners. See the next article.

COPARCEIIERS, otherwise called parceiiers, such as have equal portions in the inheritance of their ancestor. Coparceners are such, either by law or custom: coparceners by law are the female issue, who, in default of heirs male, come equally to the lands of their ancestor. They may be obliged to make partition of the lands thus descended, but should be made by coparceners at full age. Coparceners by custom, are those who, by some custom of the country, challenge equal parts in such lands, as in Kent, by the custom of gavel-kind.

COPE, among ecleliscial writers, an ornament usually worn by chantors and subchantors, when they officiated in the church solemnity. It is also worn by rōmish bishops, and other ordinaries; and reaches from the shoulders to the feet.

COPE, among miners, a duty of six-pence for every load of ore. See LOAD.

COPEL, or COPPEL. See COPPEL.

COPENHAGEN, the capital of the kingdom of Denmark, situated on the eastern shore of the island of Zealand, upon a fine bay of the Baltic sea, not far from the strait called the Sound: east long. 13°, and north lat. 55° 30'.

It is a strong town, about five miles in circumference, fortified after the modern way; and the harbour is surrounded by forts and platforms, its en-

COPERNICAN-SYSTEM, or HYPOTHESIS, that system of the world, wherein the sun is supposed at rest in the center, and the planets, with the earth, to move in ellipses round him.

The sun and stars are here supposed at rest, and that diurnal motion which they appear to have from east to west, is imputed to the earth's motion from west to east, round its axis. See the articles EARTH, and PLANET.

This system was received of old by Philolaus, Archias, and Pythagoras, from which last it had the name of the pythagoric system: it was also held by Archimedes; but after him it became neglected, and even forgotten for many ages, till it was revived by Copernicus, about the year 1500, and from him named the copernican system.

According to this hypothesis, the sun is supposed very near the center of gravity of the whole system, and in the common focus of every one of the planetary orbits: next him mercury performs his revolution around him; next mercury is the orbit of Venus; next to Venus, our earth, with its attendant or secondary the moon, performing a joint course, and in their revolution measuring out the annual period. Next the earth is mars, the first of the superior planets; next him Jupiter, and last of all Saturn. See plate L. fig. 3.

These and the comets are the constituent parts of the solar system, which is now received and approved as the only true one, for the reasons following. See the articles COMET, VENUS, MARS, &c.

1. It is most simple, and agreeable to the tenor of nature in all her actions; for by the two motions of the earth, all the phenomena of the heavens are resolved, which, by other hypotheses, are inexplicable, without a great number of other motions contrary to philosophical reasonings. See the articles PROLEMAIC and TYPHONIC.

2. It is more rational to suppose that the earth moves round the sun, than that the huge bodies of the planets, the apen-
dous body of the sun, and the immense firmament of stars, should all move round the inconceivable body of the earth, every twenty-four hours.

3. But that harmony which, upon this supposition, runs through the whole solar system, wonderfully confirms this hypothesis, viz. that the motions of all the planets, both primary and secondary, are governed and regulated by one and the same law, which is, that the squares of the periodical times of the primary planets, are to each other as the cubes of their distances from the sun; and likewise the squares of the periodical times of the secondaries of any primary, are to each other as the cubes of their distances from that primary. Now the moon, which, in the copernican system, is a secondary of the earth, in the other hypothesis is a primary one; and so the rule cannot take place, because the periodical time, considered as that of a primary one, does not agree therewith. See the article Period, &c.

4. Again, this single consideration, Mr. Whilton thinks enough to establish the motion of the earth for ever, viz. If the earth does not move round the sun, the sun must move, with the moon, round the earth. Now the distance of the sun, to that of the moon, being as 10,000 to 46, and the moon's period being less than 28 days, the sun's period would be found no less than 242 years, whereas, in fact, it is but one year.

5. The sun is the fountain of light and heat, which it irradiates through all the system, and, therefore, it ought to be placed in the center, so that the planets may, at all times, have it in an uniform and equable manner.

6. For, if the earth be in the center, and the sun and planets revolve about it, the planets would then, like the comets, be scorched with heat, when nearest the sun, and frozen with cold in their aphelion, or greatest distance, which is not to be supposed.

7. If the sun be placed in the center of the system, we have then the rational hypothesis of the planets being all moved about the sun, by the universal law or power of gravity arising from his vast body, and every thing will answer to the laws of circular motion and central forces; but otherwise, we are wholly in the dark, and know nothing of the laws and operations of nature.

8. But happily we are able to give not only reasons, but demonstrative proofs, that the sun does possess the center of the system, and that the planets move about it at the distance and in the order assigned in this and in other places. See the article Distance.

The first is, that mercury and venus are ever observed to have two conjunctions with the sun, but no opposition, which could not happen unless the orbits of these planets lay within the orbit of the earth.

9. The second is, that mars, jupiter, and saturn, have each their conjunctions and oppositions to the sun alternate and successively, which could not be, unless their orbits were exterior to the orbit of the earth.

10. In the third place, the greatest elongation or distance of mercury from the sun, is about 20°, and that of venus 45°; which answers exactly to their distance in this system, though in the ptolemean system they might, and would, sometimes, be seen 180° from the sun, viz. in opposition to him.

11. Fourthly, in this disposition of the planets, they will all of them be sometimes much nearer to the earth than at others; the consequence of which is, that their brightness and splendor, and also their apparent diameters, will be proportionally greater at one time than another; and this we observe to be true every day. Thus the apparent diameter of venus, when greatest, is near 66', but when least, not more than 9' and a half; of mars, when greatest, it is 21', but when least no more than 2' and a half; whereas, by the ptolemean hypothesis, they ought always to be equal.

12. The fifth is, that when the planets are viewed with a good telescope, they appear with different phases, or with different parts of their bodies enlightened. Thus venus is sometimes new, then horned, and afterwards dichotomized, then gibbous, afterwards full, and so increases and decreases her light in the same manner as the moon, and as the copernican system requires.

13. The sixth is, that the planets, all of them, do sometimes appear direct in motion, sometimes retrograde, and at other times stationary. Thus, venus, as she passes from her greatest elongation westward, to her greatest elongation eastward, will appear direct in motion, but retrograde as she passes from the latter to the former; and when she is in those points
COPERNICUS, the name of an astronomical instrument, invented by Mr. Whiston, to exhibit the motion and phenomena of the planets, both primary and secondary. It is built upon the copernican system, and for that reason called by this name. It consists of several concentrical circles of wood, upon which are inscribed numbers, transferred hither from the astronomical tables, by the various disposition of these circles, which are made so as to slide within each other, by which questions are solved so as to give long calculations. To exhibit eclipses there is a particular apparatus, consisting of a terrestial globe, so disposed, as that, being turned round its axis, the light of the sun, or a candle projected through a glass plane, marked out into concentrical circles, expresses the digits of the eclipse: and thus is the path of the eclipse, with its degree or quantity in any part of the path, represented with great accuracy. The inventor of this instrument has wrote a treatise purposely to explain it.

COPHOSIS, among antient physicians, a term used to denote deafness.

COPHTS, COPHTI, or COPTS, a name given to such of the christians of Egypt as are of the sect of jacobites. The cophts have a patriarch, who is elected the patriarch of Alexandria, having eleven or twelve bishops under him, but no archbishop. The rest of the clergy, whether secular or regular, are of the order of St. Anthony, St. Paul, and St. Macarius, each of whom have their monasteries. The coptists have seven sacraments, viz. baptism, the eucharist, confirmation, ordination, faith, fasting, and prayer. They deny the holy ghost to proceed from the son; they only allow of three oecumenical councils, that of Nice, Constantinople, and Ephesus. They only allow of one nature, will, and operation in Jesus Christ, after the union of the humanity with the divinity. With regard to their discipline, they circumcise their children before baptism; they ordain deacons at five years of age; they allow of marriage in the second degree, and put away their wives, and espouse others, while the first are living; they forbear to eat blood, and believe in a baptism by fire, which, according to some, they confer by applying a red hot iron to their cheeks or forehead.

COPHTIC, or Coptic language, is that spoke by the Coptists, being the antient language of the Egyptians, intermixed with the greek, and the characters of it being those of the greek. The antient cophtic is now a dead language, to be met with nowhere but in books, and those only translations of the scriptures, and of ecclesiastical offices, or others that have a relation thereto; the language now used over all the country being that of the arabic.

Coptic monks, religious, among the christians of Egypt, who have the highest veneration for a monastic life, considering it as the philosophy of the law of Jesus Christ, the monks as terrestrial angels, or celestial men. They are obliged to part with their possessions, to renounce marriage for ever, to live in desarts, to be clothed in wool, and to eat no meat.

Copia libelli deliberranda, a writ that lies where a person cannot get the copy of a libel from a judge of the spiritual court.

Copia, a port-town of Chili, in south America, situated on the pacific ocean at the mouth of a river of the same name, in 25° west long, and 25° south lat.

Copiata, a man of a particular order in the primitive church, whose business it was to bury the dead, by preparing the graves, wrapping up the dead bodies, &c. being accounted a work of piety; wherefore the copiata were considered as having a relation to the clergy.

Coping, or Copping of a wall, in architecture, the top or covert of a wall, made sloping, to carry off the yet.
COPING over, in carpentry, a sort of hanging over, not square to its upright, but bevelling on its under side, till it end in an edge.

COPIOUS STYLE, in rhetoric. See the articles STYLE, DICTION, &c.

COPIVII, or balifam of Copivi. See the article BALSAM.

COPORIA, a town of the ruffian empire in Ingria, situated at the mouth of a river of the same name, in 30° 25' east long., and 59° 36' north lat.

COPOS, a term used by some physicians for latitude or weariness.

COPPEL, COPEL, or CUTPEL, a chemical vessel made of earth, pretty thick, and of the form of a platter or dish. See plate LIII. fig. 3.

It sustains the highest degree of fire, and retains all fused metals: but in it all the softest portions of any metal, when mixed with fused lead, are carried off, except gold and silver, which are left behind in small globules. See ASSAYING.

This vessel has a small cavity, which is a kind of obtuse, spherical segment; with a canal at its margin, through which the surface of the cappel is somewhat like a colour. This vessel is of some materials for this purpose, the calxes and marcasites frequently contain large quantities of this metal. There is also a rich kind of copper-ore of a reddish-grey colour; and another of a dull purple, or blackish colour. But besides all these, there are two other appearances of copper-ore, known by the names of lapis lazuli, and the turcois, or turquoise. See the article LAZULI, &c.

In Germany and Sweden there are very good mines of copper-ore, and we have some in England little inferior to the finest Swedish ones.

In order to discover whether the pyrites contains any copper, let it be roasted in an open fire, and a solution made by pouring upon it a quantity of warm water: into this solution let iron plates, perfectly clean and free from grease, be immerged; and if the pyrites contains any copper, it will stick to these iron plates, in form of a fine yellow powder.

As to the method of obtaining copper from the ore, this last being previously washed and powdered, is smelted by means of a black flux, and the metal is found at the bottom of the vessel when cold, in the form of a solid and malleable mass; which may be farther refined, by repeating the operation.

Physicians condemn the internal use of copper, in any form; all its preparations being accounted poisonous. However, as it is a very strong emetic, in cases of poison, where vomits are highly beneficial,
to throw it up again, nothing is more efficacious: for it frequently happens that even foods, by standing long in copper vessels, acquire an emetic quality, which has very bad effects; in which case milk, oil, and butter are accounted good antidotes.

Preparations of Copper, are, 1. Flowers of copper, flores aris, said to be a medicine much used externally amongst the ancients, but now disregarded; and it is prepared by melting a quantity of common, pure copper, and throwing water upon it, just as it begins to cool, which makes the whole mass of the metal break into small granules, called flores aris. 2. Verdigrase, argo aris. 3. Calcined copper, or asuthum. 4. Flakes or scales of copper, squame aris, being a preparation of much the same nature with calcined copper. 5. The blue eyewater, aqua saphirina. And, 6. Mr. Boyle's ens veneris: each of which articles see under their several heads.

COPPERAS, a name given to the pungent green vitriol. See Vitriol. The English copperas is made at Deptford, in the following manner, from pyrite. See the article Pyrite. A heap of these stones, two or three foot thick, is laid in a bed well rammed, where being turned once in six months, in five or six years, by the action of the air and rain, they begin to dissolve, and yield a liquor which is received in pits, and thence conveyed into a cistern, in a boiling-house. The liquor at length being pumped out of the cistern into a leaden boiler, and a quantity of iron added thereto, in two or three days the boiling is completed; care having been taken all along to supply it with fresh quantities of iron, and to restore the boiling, whenever it seems to abate. When boiled sufficiently, it is drawn off into a cooler, with ficks aeros, where it is left 14 or 15 days to shoot. The uses of coppertas are numerous. It is the chief ingredient in the dying of wool, cloths, and hats, black; in making ink, in tanning and dreffing leather, &c. and from hence is prepared oil of vitriol, and a kind of spanish brown for painters. In medicine, it is rarely prescribed under the name of copperas, but it is a truesalt of iron, and often preferred under that name, and used instead of the genuine preparation; our chemists in general giving themselves no further trouble about the making of that salt, than to disolve and purify the common copperas, and shoot it again into crystals. It is a noble deodorant, and is a great medicine in the suppression of the menses, but should be used with caution. In large doses it proves emetic, and, in small, is found a good remedy against worms.

COPPICE, or Copse, a little wood consisting of under woods, or such as may be raised either by sowing or planting. When they are intended to be raised from maft or feed, the ground is ploughed, in the same manner as it is for corn: and either in autumn or in spring, good store of such mafts, nuts, feeds, berries, &c. are to be sown with the grass, which crop is to be cut, and then the land laid for wood. They may also be planted about autumn, with young fets, or plants, in rows about ten or fifteen feet distance. If the copies happen to grow thin, the best way of thickening them is to lay some of the branches or layers of the trees, that lye nearest to the bare places, on the ground, or a little in the ground: this detained with a hook or two, and covered with fresh mould, at a competent depth, will produce a world of suckers, and thicken a copse speedily.

COPROCRIPTICA, among physicians, medicines which purge off the faces.

COPROPHAGUS, in zoology, the name by which authors call the dung-fly.

COPULA, in logic, the verb that connects any two terms in an affirmative or negative; as riches makes a man happy; where make is the copula; no weakness is any virtue; where is is the copula.

COPULATION, the act of generation, or the congress of the male and female, otherwise called coition. See the articles Coition and Generation.

COPULATIVE PROPOSITIONS, in logic, those where the subject and predicate are so linked together, by copulative conjunctions, that they may be all severally affirmed or denied one of another. For example, Riches and honours are apt to jate the mind, and increase the number of our desires.

COPULATIVE CONJUNCTION. See the article Conjunction.

COPY, in a law sense, signifies the transcript of any original writing, as the copy of a patent, charter, deed, &c. A common deed cannot be proved by a copy or counterpart, where the original may be procured. But if the deed be inrolled, certifying an attested copy, is proof:
COQ T 743] COR

Proof of the enrolment, and such copy may be given in evidence.

Copy is also used for the imitation of an original work, more particularly in painting, draught, figure, &c.

Copy, among printers, denotes the manuscript, or original of a book, given to be printed.

Copy-hold, a tenure for which a tenant has nothing to shew but the copy of the rolls made by the steward of the lord's court.

It is called a base tenure, because the tenant holds the land at the will of the lord. However it is not simply at the will of the lord, but according to the custom of the manor by which such estate is defeasible, and the tenant's heirs may inherit it; and a copy-holder, so long as he does his services, and does not break the custom, cannot be ejected by the lord; and if he be, he shall have trepads against him.

Some copyholds the tenants hold by the verge in ancient demesne; and those held by copy, yet they are a kind of freehold: and other copyholds are such as tenants hold by common tenure, called mere copyhold.

If a person would devise a copyhold estate, he cannot do it by his will, but he must surrender to the use of his lord will and testament, and in his will declare his intent; and here the lands do not pass by the will, but by the surrender thus made.

Copyhold inheritances have no collateral qualities, which do not concern the descents, as to make them affeets to bind the heir, or whereof the wife may be endowed, &c. They are not extendible in execution, but are within the acts against bankrupts, and the statutes of limitation.

Copy-holder, one who is admitted tenant of lands or tenements within a manor, which, time out of mind, by use and custom of the manor, have been demisable and demised to such as will take them in fee-simple or fee-tale, for life, years, or at will, according to the custom of the manor by copy of court-roll. But it is generally where the tenant has such estate either in fee or for three lives.

COQ. AD. MED. CONSUMPT. among physicians, is an abbreviation for copia ad medietatis consumptionem. i.e. Boil it till half of it be consumed.

COQ. IN S. Q. AQ. COQUE in sufficiente quantitate aquae. i.e. Boil in a sufficient quantity of water.

COQ. s. A. COQUE fecundum artem, i.e. Boil according to art.

COQUIMBO, a port-town of Chili, in south America, situated at the mouth of a river of the same name, which discharges itself into the Pacific Ocean: west long. 75° 10', and south lat. 30°.

COR, the heart, in anatomy. See Heart.

COR CAROLI, in astronomy, an extra-confellated star in the northern hemisphere, situated between the comae berox and ura major, so called by Dr. Halley in honour of king Charles.

COR HYDRAE, a fixed star of the first magnitude, in the constellation of Hydra. See the article Hydra.

COR LEONIS, OF REGULUS, in astronomy, a fixed star of the first magnitude, in the constellation Leo. See Leo.

COR MARINUM, in natural history, a name given to the heart-fashioned echinina-marinum. See the article Echinus.

COR VENERIS, the name of a beautiful kind of heart-shells, called also cor bovis. See the article Cardia.

CORACIUS, in ornithology, the name with the pyrrhocorax, or cornithouchow.

CORACIAS, in natural history, a name used by some for the bejennites.

CORACINUS, in ichthyology, the variegated black fish, with the belly-fins jet black. See the article SCIENA.

CORACOBRACHIALIS, in anatomy, a muscle that has its origin at the coracoide processes of the scapula, and its termination about the middle part of the arm. It serves to lift the arm obliquely upwards.

CORACOHYOIDÆUS, in anatomy, a muscle which having its origin from the upper edge of the scapula, near its neck, ascends obliquely under the mastoides, and is inserted in the os hyoides, which it serves to pull obliquely downwards. See the article Hyoïdes.

CORACOIDES, in anatomy, a small, sharp process of the scapula, so called from its resembling a crow's bill.

The coracoïdes process in infants, is but a cartilage, afterwards it becomes an epiphysis; and, after this, about the age of sixteen, it is perceived to be a separate bone. It serves to strengthen the articulation of the shoulder, and gives origin to one of the muscles of the arm.

CORACOMANTES, in antiquity, persons who foretold events from their observations on crows.

CORACO-RADIALIS, in anatomy, the same with biceps. See Biceps.
CORAL, in natural history, a production of the sea, usually marked among the number of marine plants. See plate LI. fig. 2.

It has been doubted by some authors of great credit, whether coral were properly a plant or not; some, with Dr. Woodward, make it a fossil production, formed as crystals and spars are; others refer it to the animal tribe, of which opinion many of the French naturalists are at present. But as it is found to grow and to take its nourishment in the manner of plants, and to produce flowers and seeds, or at least a matter analogous to seeds, there requires no farther argument to prove that it truly and properly is of the vegetable kind. Boccone discovered its nutritious juice lodged in cells under the bark or rind, and count Marigli, the flowers and seeds.

The coral plant, called corallum by Tournefort, and iris by Linnaeus, and ranked by this last author among the cryptogamic-lithophyton, is of the same hardness and stony nature throughout, and that as well while growing under the water, as when it has been ever so long exposed to the air. All that has given occasion to the vulgar opinion of coral’s being soft while in the sea, is that it has a soft and thin coat of a crustaceous matter, covering it while it is growing, and which is taken off before it is packed up for use. It grows to stones, or any other solid substances without a root, or without any way penetrating them as plants do the earth; and not only to rocks and stones, but to shells, old iron instruments, broken glass, earthen vessels, and even to the bones of men lying at the bottom of the sea; all these having been found with regular and fine plants of red coral growing from them. The red coral is met with in apothecaries’ shops in small branched pieces of the thickness of a packthread, of a pale red colour, and usually fibrated longitudinally on the surface. These are the small branches of the plant, the larger and finer pieces being used for beads and other toys, where a larger price is paid for them. Medical authors give us receipts for a great many preparations of coral, as magisteries, tinctures, syrups and pots. At present, however, they are disused, and we know it in the shops in no other form but that of the powder finely levigated, which is preferred as an astringent and absorbent in diarrhœas, the fluor albus, &c. with other medicines of the same intention. We hear also of a white coral, and many suppose it to possess greater virtues than the red; but what we meet with in the shops under this name, is a species of another sea-plant, the madrepore. See the article Madrepora.

There is a black coral, of the same stony substance with the red, and as glossy as the blackest marble; but we see no such thing in the shops: what is kept under this name, is a plant of a quite different genus, not of a stony but a tough and horny texture, and is the lithophyton described by authors under the name of lithophyton nigrum arboreum, and corallum nigrum officinarum.

CORAL fishery. Red coral is found in the Mediterranean, on the shores of Provence, from cape de la Couronne to that of St. Tropez; about the isles of Majorca and Minorca; on the south of Sicily; on the coasts of Africa; and, lastly, in the ethiopic ocean, about cape Negro. The divers say, that the little branches are found only in the caverns whose situation is parallel to the earth’s surface, and open to the south. The manner of fishing being nearly the same wherever coral is found, it will suffice to instance the method used at the basin of France, under the direction of the company established at Marseilles for that fishery. Seven or eight men go in a boat commanded by the patron or proprietor; and when the net is thrown by the caffer, the rest work the vessel, and help to draw the net in. The net is composed of two rafters of wood tied cross-wise, with leads fixed to them: to these they fasten a quantity of hemp twisted loosely round, and intermingled with some large netting. This instrument is let down where they think there is coral, and pulled up again when the coral is strongly intangled in the hemp and netting. For this purpose, six boats are sometimes required; and if in hauling in, the rope happens to break, the fishermen run the hazard of being lost. Before the fishers go to sea, they agree for the price of the coral, which is sometimes more, sometimes less a pound; and they engage, on pain of corporal punishment, that neither they nor their crew shall embezzle any, but deliver the whole to the proprietors. When the fishery is ended, which amounts one year with another to twenty-five quintals for each boat, it is divided into thirteen parts, of which the proprietor hath
COR

CORALLUM is also used by some for the pyrites. See the article PYRITES.

CORAM non JUDICE, in law, is a term used where a cause is brought and determined in a court of which the judges there have not any jurisdiction.

CORAN, or ALCORAN. See the article ALCORAN.

CORANA, a kind of phaeolous, or kidney-bean, the down of whole pod is the common cowitch.

CORAX, in ichthyology, a fish of the trigla-kind, otherwise called corvus.

CORBAN, a scripture term for an offering which had life, in opposition to the minchab which had no life. See the article MINCHAB.

CORBAN is also a ceremony which the mohomets perform at the foot of mount Ararat, in Arabia, near Mecca. It consists in killing a great number of sheep, and distributing them among the poor.

CORBEILS, in fortification, the fame with what we call baskets. See BASKET.

CORBEL, in architecture, the representation of a basket, sometimes seen on the heads of the corydites. It is sometimes used to signify the vase of a tambour of the corinthian column.

CORBEL, or CORBEIL is also used in building, for a short piece of timber, placed in a wall, with its end fitching out fix or eight inches, as occasion serves, in the manner of a shouldering piece. The under part of the end thus sticking out, is sometimes cut in the form of a boulint, sometimes of an ogee, and sometimes of a face,"&c. according as the workman fancies.

CORBIE, a little city of France, in the province of Picardy, situated upon the river Somme, in 20° 45' east long. and 50° north lat.

CORBY, a town of Germany, thirty miles east of Paderborn, in Westphalia; east long. 9° 20', north lat. 51° 40'.

CORCHORUS, JEWS-SALAD, in botany, a genus of the polyandria-monogynia clafs of plants; the corolla of, which consists of five oblong, obtuse petals; narrower at the bottom, erect, and of the length of the cup: the fruit is a very large, cylindrical, acuminate pod, composed of five valves, sometimes only of two, and contains five cells: the seeds are numerous, angular, and acuminate.

CORD, or CHORD, several threads, cabled or twisted together, by means of a wheel. See the article ROPE.
Cord of St. Francis, a sort of rope, adorned with knots, worn by the brothers of the fraternity of St. Francis. The cordeliers, capuchins, minorites, and nuns, wear a white rope: but others, as the pique-puces, wear it black. The design of it is to commemorate the bands where-with Christ was bound. The society of the cord includes a great number of people besides religious. To obtain indulgences they are only obliged to say five Paters, five Ave Mary's, and five Gloria patri's, and to wear this rope, which must first have been blessed by the superiors of the order.

Cord of wood, a certain quantity of wood for burning, so called because formerly measured with a cord. The dimensions of a statute cord of wood are eight feet long, four feet high, and four feet broad.

Cord-wood, new wood, and such, when brought by water, comes on board a vessel, in opposition to that which is floated.

Cordage, a term used, in general, for all sorts of cord, whether small, middling, or great, made use of in the rigging of ships. See the article Rigging.

Cordage, cable-laid, as the seaman terms it, is made with nine strands, i.e. the first three strands are laid slack, and then three of them, being closed together, make a cable, or cablet. See Cable.

The same for tacks, but they are laid tapering.

Cordage, hawser-laid, is made only with three strands.

Cordage-flays, are cable-laid, but made with four strands, as cables are with three; with the addition of an heart, which goes through the center of them.

The price of cordage and cable at Peterburgh, in 1742, was one rouble, twenty copces the poudre.

Cordage stuffed, is that which, having been put in a tub in a very warm place, has call out its moisture.

White cordage, is that which has not yet been tarred.

Cordage tarred in spinning, is that which is made of rope-yarn ready tarred.

Cordage tarred in the stove, is that which has passed through hot tar, in coming out of the stove. Every quintal of cordage may take about twenty pounds of tar.

Cordage re-made, is that which is made of ropes used before.

Cordage, when very old, is used for oakum to chaulk the seams of ships. See the article Oakum.

Change cordage, that which is kept in reserve, in case what is in use fails.

When a rope is said to be six inches, it is understood of its circumference. A rope of sixty threads, is one composed of so many rope yarns.

Cordage is usually made of spun hemp: the great number of vessels built and fitted out at Amsterdam, either for war or trade, occasion a great commerce of all sorts of cordage necessary for them, all which falls by the shipponent of three hundred pounds. The shipponent of cordage of neat hemp costs usually fifty-five florins; that of Moscow, from thirty to forty-seven. Deductions for weight and prompt payment are one per cent on each.

The quantity of cordage used in rigging a vessel, is almost inconceivable. Every rope hath its name and particular use. As the quantity of cordage is very extraordinary that is used in our own vessels and shipping, both at home and abroad, and as also the quantities used by all the Europeans, Americans, and Asiatics is immensely great, too much encouragement cannot be given to the growth of hemp in our own colonies and plantations, to the end that we might, by that means, at least, amply supply ourselves, if we could not obtain any flare in the supply of other nations.

Cordated, an appellation frequently given by naturalists to things somewhat resembling a heart.

Corded, in heraldry. A cross-corded some authors take for a cross wound or wreathed about with cords. See the article Cabled-cross.

Others, with more probability, take it for a cross made of two pieces of cord.

Cordeleras, mountains of South America, otherwise called Andes. See the article Andes.

Corderie, in church-history, a franciscan or religious of the order of St. Francis. See the article Cord.

The cordeliers are enjoined to live in common: those who are admitted into the order, are first to sell all they have and give it to the poor. The priests are to fast from the feast of all saints till the nativity.

Cordia, in botany, a genus of the hexandria-monogynia class of plants, the corolla of which is formed of a single petal; of an infundibuliform shape: the fruit is a dry, globose, accumulated drupe, covered with the cup: the seed is a falcated nut, containing two cells.
CORDIAL, in medicine, whatever stirs the spirits, and gives them a sudden strength and cheerfulness.

In order to understand the operation of this upon a human body, it is necessary to consider that a languor, or faintness, must either be the consequence of too much exercise, too long watching, or to great a hurry of the animal functions, and in some distempers; all which do so far dissipate the nervous fluid, or animal spirits, as that the solids cannot repeat, with wonted vigor, their necessary motions: or such depressions must arise from the obstruction of some natural evacuation, and generally that of perpiration; from external cold, which lays a load upon the constitution. In both these cases the manner in which a cordial acts is the same, since it must produce its effects by adding to the springiness and force of the fibres; and as this change is most remarkable from spirituous liquors, it may be of use to examine how they come to obtain such a denomination; and this must arise from their fulbility and fineness of parts; so that the more spirituous any thing is that enters the stomach, the sooner is it mixed throughout the system; whereas a spirituous substance enters into the nerves as such a degree, as to get the appelation of cordial, since it must pass through several comminations before it arrive to such a fineness as to be diffused to the nerves; whereas a spirituous substance enters into the nerves as soon as it touches them, whereby their vibrations are invigorated, and all sense of faintness removed. In like manner volatiles, the effluvia of flowers, fruits, and all things deemed cordials, operate upon the organs of smelling.

CORDIS CAPSULA, FOVEA, MUCRO, SEPTUM, &c. See the articles HEART, CAPSULA, FOVEA, MUCRO, &c.

CORDON, in fortification, a row of stones, made round on the outside, and set between the wall of the fortres, which lies aloof, and the garret which stands perpendicular, after such a manner, that this difference may not be offensive to the eye: whence the cordons serve only as an ornament, ranging round about the place, being only used in fortification of stone-work. For in those made with earth, the void space is filled up with pointed flakes.

CORDOULA, or CORDOVA, a city of Andalusia, in Spain, situated on the river Guadalquivir, twenty-two miles north-east of Seville, and seventy-five north of Malaga: west long. 40° 45', and north lat. 37° 45'.

It is a large city, said to contain 14,009 families, and has a good trade in wine, silk, and leather: it is likewise a bishop's see.

CORDOUMAN TOWER, a remarkable high house at the mouth of the river Garonne, in France: west long. 1° 15', and north lat. 45° 35'.

COREA, an island or peninsula on the north-east coast of China, between 36° and 40° of north latitude.

CORDWAINERS, a term whereby shoemakers are denominated in statutes. By a statute of Jac. I. the master and wardens of the cordwainers company, &c. at to appoint searchers and tryers of leather; and no leather is to be sold, before searched, sealed, &c.

COREYLA, or CORDYLYS, a name given to a tunny fish, while young.

CORYLINA, CORDYLINE, in botany, the lane with the yucca. See YUCCA.

CORDUS, a species of lizard, with five toes to each foot, and a taper tail, covered with denticulated squamæ, or scales.

CORDYLS, or CORDYLA. See the article CORDIA.

CORED ERRINGS, those caught in autumn off the coast near Yarmouth; which, being rolled in salt, are afterwards bought on shore to be made red-errings.

COREGONIDES, a species of coregonus, with thirty-four rays in the pinna ani.

COREGONIS, in ichthyology, a genus of malacopterigious fishes, with eight or ten offices or little bones in the branchiotege membrane, and extremely small teeth. Under this genus are comprehended the lavaretus, allula-minor, thymallus, coregonoids, and wimba.

COREIA, in antiquity, a festival in honour of Proserpine.

COREOPSIS, in botany, a genus of the genena-polygama-fruticans class of plants, the compound flower of which is radiated, and consists both of hermaphroditic and female ones; the former are numerous, situated on the disk, and tubulose; and the latter ligulated, and only eight in number: add to this, that the former are divided into five, and the latter only into four segments at the limb: the
the stamina are five very short, capillary filaments; and the seeds are solitary, orbiculated, and contained in the cup.

CORINTH, in ichthyology, an east-indian fish of the tunny kind, said to grow to fix or seven feet in length.

CORFE-CASTLE, a borough-town of Dorsetshire, near about twenty miles east of Dorchester, near the sea: west long. 2° 30' and north lat. 50° 36'. It sends two members to parliament.

CORFU, an island subject to the Venetians, situated in the Mediterranean, near the entrance of the gulf of Venice.

CORFU is also the capital of the above island: east long. 20° 34'; and north lat. 39° 40'.

CORIA, a city of Estremadura, in Spain, thirty-five miles north of Alcabas: west long. 6° 40'; and north lat. 39° 35'. It is a bishop's see.

CORIANDER, coriandrum, in botany, a genus of the pentandria-digynia class of plants, the general corolla of which is form and radiated; the proper powers of the disk are hermaphrodite, an composed of five unequal, inflexo-corded petals; the stamina are five filicate filaments; and the fruit is a spherical, flattened berry, containing two linspherical seeds.

Coriander-seeds are accounted demachic and good in flatulencies; and head-aches occasioned thereby: they are also said to difcuss struma, and stop hemorrhages and fluxes.

CORIANDRUM, in botany, a genus of the decandria-integyma class of Linnaeus, whose corolla consists of five petals, very like the cup. It has no pericarpium: the seeds are five, kidney-shaped, and inclosed in the petals.

CORIDOR, or CORRIDOR in fortification, the same with covertway. See the article COVERT-WAY.

CORIDURUM, in botany, the same with the veficaria of Rivenus, and cardiospermum of Linnaeus. See the article CARDIOSPERMUM.

CORINTH, a city of european Turkey, situated near the isthmus into the Morea, about fifty miles west of Athens, in 23° east long. and 37° 30' north lat.

CORINTHIAN, in general, denotes something belonging to Corinth: thus we say, corinthian brafs, corinthian order, &c.

CORINTHIAN ORDER, in architecture, the fourth order of architecture, according to Scamozzi; but Mr. Le Clerc makes it the fifth, being the most noble, rich and delicate of all the other five. See plate XIII.

Most authors ascribe the invention of this order to Callimachus, a corinthian sculptor. Vilalpandus, however, opposes this opinion, and will have the corinthian capital to have been derived from an order in Solomon's temple, the leaves whereof were those of the palm-tree. The corinthian order has several characters by which it is distinguished from the rest. Its capital is adorned with two rows of leaves, between which arise little flalks, or caulicoles, of which the volutes are formed, which support the abacus, and are fifteen in number. See ABACUS.

It has no ovalo, nor even abacus, properly speaking; for the member which goes by that name, is quite different from the abacus of the other orders, being cut with a sweep, in the middle of which is carved a rofe, or other ornament. See ARCHITECTURE and ORDER.

Vitruvius observes, that the corinthian order has no particular ordonnance for its corniche, or any of the other ornaments of its entablature; nor does he give it any other proportions than those of the ionic order: so that if it appears higher than the ionic, it is purely owing to the excess of the height of its capital. See the article IONIC and CAPITAL.

He also makes the rest of the entablature the same; and likewise uses the attic base indifferently for the one and the other. But Vitruvius differs widely in this order from all the examples of antiquity now remaining, the most beautiful of which have a particular base, and the whole order twenty modules high, whereas the ionic has but eighteen.

Again, its capital is higher than that of Vitruvius, by one third of a module; and its entablature, which has modillions and sometimes dentils together with the modillions, is very different from the ionic entablature.

Most modern architects pass by Vitruvius's corinthian order, and follow that of the ancient buildings; and select from them, according to their several tastes: so that the modern corinthian is a kind of composite, differing from many of the ancient buildings, and much more from Vitruvius. Vignola and Mr. Le Clerc made the corinthian order twenty modules in height, yet Serlio makes it but eighteen; and M. Perrault eighteen two thirds, retrenching something from the nineteen
CORINTHIAN ORDER.

Origin of the Capital
a being the Abacus.
b the Acanthus.
c the Vase.

Order entire.

Cornice
Frieze
Architrave
Capital
Shaft
Base
Cornice
Dye
Base
CORINTHIAN column by equal parts.

The corinthian pedestal, being in height three diameters, is divided into four, allowing one to the base, half of plinth is two thirds of it; the other part is divided into nine, allowing two and a half to the torus, a half part to the fillet, three to the cimicium, a half part to the fillet, and two and a half to the ogee; and the breadth of the dye is a diameter, and two thirds.

The height of the base of the column is a diameter, which is divided into six, allowing three fourths to the plinth, one to the lower torus, one fourth to the fillet, a half part to the scotia, one to the astragal and fillets, a half part to the scotia, one fourth to the fillet, and the other three fourths to the torus.

For the corinthian capital, divide the diameter into six parts, and take seven such parts for the height, allowing two to each height of the leaves, whose heads turn down half a part of it; allow another part for the stalks, whose heads turn down one third of it; three fourths to the small volutes, and one fourth to the fillet; the large volute is as high as the said fillet; a half part to the hollow, and a half part to the ovolo, whose fillet has one third of it.

The architrave is divided into nine parts, allowing one and a half to the first face, one and one fourth to the small bead, two to the second face, three fourths to the small ogee, two and a half to the third face, a half part to the bead, one to the ogee, and a half part to the fillet. The height of the entablature is two diameters, and is divided into six parts, two of which go to the architrave, one and a half to the frieze, and two and a half to the cornice.

The cornice is divided into twelve parts, allowing one and one fourth to the ogee, one fourth to the fillet, one and one fourth to the dentils, one fourth to the fillet, one fourth to the ovolo, one fourth to the fillet, two to the modillions, a half part to the ogee, and one fourth to the fillet; one and three fourths to the corona, three fourths to the cima reversa, one fourth to the fillet, one and a half to the cima recta, and a half part to the fillet.

The projection of the base of the corin-

The upper fillet has three of these parts, and the lower fillet seven; the height of its cornice is half the base, being one eighth of the whole height; and is divided into eleven, by allowing one and an half to the ogee, a half part to the fillet, three to the cimicium, three to the corona, two to the ogee, and one to the fillet. The projection of the fillet has two of these parts; the bimicium, four and a half; the corona, six and a half; and the whole, eight and a half.

The projection of the base of the column is one fifth of the diameter; and the upper fillet has one of these six parts; the upper torus, and the lesser fillets have one and a half; and one and three fourths are allowed to the astragals and lower fillet.

For the projection of the capital, make a square, each side being a diameter and half, and draw diagonals; and towards each angle, mark a diameter from the center, and draw the cants at right angles with the said diagonals. Then from the curvature of the abacus, make an equilateral triangle (the part of the square cut off by the cants being the base) and the opposite angle the center. In the circumference of the column are eight leaves, each leaf having four plants, and each plant five ruffles. The projection of their head is found by a straight line from the abacus to the collarino. The role is as high as the volute, and projects to the side of the foresaid square.

In the projection of the architrave; the second face has one fourth of a part; the third face, one of those parts; and the whole, two.

As for the projections of the cornice, the ogee is one half of these parts, and the dentiles two and a half; the dentiles are in breadth two thirds of their height, and the spaces two thirds of their breadth. The modillions project three and three fourths, and its breadth is one fifth of the diameter, and one being in the center gives the spaces. The returned modillions, eight and a half; the cap, nine; the corona, nine and a half; the cima reversa; ten and a half; and the whole, twelve, being equal to the height. See the figure.

CORION, in botany, the same with the coriander. See CORIANDER.

CORIS, in botany, a genus of the pentan-

...
CORK, [752] CORK

limb is plane, and divided into five oblong, obtuse, emarginated segments; the two upper ones short, and more distant from one another; the fruit is a globose capsule, formed of five valves, and situated in the bottom of the cup; the seeds are small, numerous, and oval. See plate LI. fig. 4.

CORTOS, or COWRIES, in commerce. See the article COWRIES.

COR:SPERMUM, in botany, a genus of the monandria-digynia class of plants, whose corolla consists of two compressed, crooked, pointed petals, equal in size, and placed opposite one another; its fruit is a roundish capsule, compressed, biconvex, and having a furrowed edge; the seeds are of an oblong figure, and stand single.

CORIZIOLA, in botany, a name used for some foricammony.

CORK, or CORK-TREE, sabur, in botany, makes a distinct genus of trees according to Tournefort, but is comprehended under quercus by Linnaeus. See the article QUERCUS.

In order to peel off the bark, which is the only part that constitutes the substance known by the name of cork, they make an incision round both the top and root of the tree, and another longitudinally; and when it is thus got off, they unwar it before the fire, and press it even with weights. This they do once in two or three years, without any prejudice to the tree; provided, however, it be done in a dry season, as rainy weather is accounted extremely prejudicial.

The cork should be chosen in fine board, all of a piece, not full of knots or chink, of a moderate thickness, yellowish without and within, and that which cuts even.

Its use is too well known to need any account of it: in medicine it is of service to stop bleeding, being reduced to powder, or put into some astringent liquor: burned and mixed with the unguentum popelnun, it is very proper for the pils.

The Spaniards burn cork into an extraordinary fine black, called spanish black, which is used for several sorts of work.

CORK, or CORKING of a saddle, the pieces to which the boltlers are made fast; is called as having formerly been made of cork.

CORK, in geography, the capital of a county of the same name, in Ireland, and province of Munster, situated on the river Lee, about fifty miles south of Limerick: west longit. 8° 25', and north lat. 51° 45'.

It is a port-town, and equals any town in Ireland, except Dublin, in trade; and is a bishop's see.

CORMANDEL-COAST, comprehends the easterly part of the hither India, bounded by Colconda on the north, the bay of Bengal on the east, Madura on the south, and Binasgar on the west: it lies between 10° and 20° north lat.

CORMORANT, in ornithology, the English name of a species of pelican, with fourteen long feathers in the tail, and the under part of the body whifh: it is a sea-fowl, almost equal to a goose in size, and feeds on fish. All the writers on birds have described it under the names of carbo aquaticus, or curvus aquaticus. See plate LI. fig. 5.

CORN, in country affairs, the grain or feeds of plants, separated from the epica, or ear, and used for making bread. There are several species of corn, such as wheat, rye and barley, millet and rice, oats, maize and lentils, peas, and a number of other kinds, each of which has its usefulnes and propriety. See the articles WHEAT, RYE, BARLEY, &c.

Corn is very different from fruits, with respect to the manner of its preservation, and is capable of being preferred in public granaries, for preserving occasions, and of being kept for several centuries. See the article GRANARY.

The first method is to let it remain in the spick; the only expedient for conveying it to the islands and provinces of America. The inhabitants of those countries have it in the ear, and raise it to maturity by that precaution: but this method of preserving it, is attended with several inconveniences among us; corn is apt to rot or sprout, if any the least moisture is in the heap, the rats likewise infet it, and our want of straw also obliges us to separate the grain from the ear. The second is to turn and winnow it frequently; or to pour it through a trough or mill-hopper, from one floor to another; being thus moved and aired every fifteen days, for the first six months, it will require less labour for the future, if lodged in a dry place: but if, through neglect, mites should be allowed to slide into the heap, they will soon reduce the corn to a heap of dust: this must be avoided by moving the corn anew, and rubbing the places adjacent with oils and herbs, whose strong
Strong odour may chafe them away; for which garlic and dwarf elder are very effectual: they may likewise be expelled to the open fun, which immediately kills them. When the corn has been preserved from all impurities for the space of two years, and has exhaled all its fires, it may be kept for fifty or even a hundred years, by lodging it in pits, covered with strong planks, closely joined together: but the safer way is to cover the heap with quick lime, which should be divided by sprinkling it over with a small quantity of water; this causes the grains to shoot to the depth of two or three fingers, and inclines them with an incrustation, through which neither air nor insects can penetrate.

Corn not exceeding the under-mentioned prices, shall have the following bounties per quarter, viz.

<table>
<thead>
<tr>
<th>Price per Qt.</th>
<th>Bounty per Qt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat 1 8</td>
<td>s. d.</td>
</tr>
<tr>
<td>Rye 1 12</td>
<td>5 0</td>
</tr>
<tr>
<td>Barley and malt 1 4</td>
<td>3 6</td>
</tr>
<tr>
<td>Oatmeal 0 15</td>
<td>2 6</td>
</tr>
</tbody>
</table>

In France, corn of the growth of the kingdom is reckoned a contraband commodity.

**CORN-MILL**, a water-engine for grinding of corn. See MILL and GRINDING.

CORN likewise makes the first part of the English name of several plants, on account of their growing among corn: thus we call the *cyanus*, corn-bottle; the *gladiolus*, corn-flag; the *chrysanthemum*, corn-marigold; the *fium*, corn-parley; the *waterlilla*, corn-sallet; the *campanula*, corn-violet, &c. See the articles *Cyanus*, *Gladiolus*, &c.

CORN, in medicine and surgery, a hard tubercle like a flat wart, growing in several parts of the feet, especially upon the joints of the toes. This disorder is not unjustly attributed to the wearing of too stiff or narrow-toed shoes, which never fail to produce these tubercles, especially if the person is obliged to stand or walk much, and in the summer-time.

Various are the methods used for removing these callosities of the skin and cuticle; some by knife, and others by application of emollient and caustic or eroding medicines; but which way, sooner they are removed, it is certainly the best to let their hard substance be first sufficiently mollified, and this may be obtained by frequently macerating them for a considerable time in warm water, and afterwards paring off their uppermost surface with a pen-knife: or if this does not suffice, let a platter of green wax, gum ammoniac, de fapon. &c. or a leaf of houfe-leek be applied, and renewed every day; when these applications have been continued for some time, peel them away with your nails, or scrape them with a scalpel, but with great caution, to avoid injuring any of the subjacent tendons of the extensor muscle, which might occasion violent pains, inflammation, convulsions, a gangrene, and even death; all which have also been frequently the consequences of caustics penetrating to those parts.

**CORNACHINE-Powder**, the same with what is sometimes called the earl of Warwick's powder, and pulvis de tribus. This is a purging powder, and made thus: take of scammmony, prepared with the fumes of sulphur, two ounces; diaphoretic antimony, one ounce; the crystals of tartar, half an ounce: make them altogether into a powder. It is a smart purge, and frequently given to children, against worms, from five to fifteen grains; and to adults from fifteen grains to half a dram.

**CORNAGE**, an antient tenure, the service whereof was to blow a horn, when any invasion of the Scots was perceived. This tenure was very frequent in the northern counties near the Picts wall.

**CORNÉA TUNICA**, in anatomy, the second coat of the eye, so called from its sub stance, which resembles the horn of a lathorn. See the article EYE.

The cornea is convex, pellucid, and divisible into various lambs. It is situated in the fore part of the eye, and surrounded by the sclerotics. It has a most exquisite sense, to the end that the tears, upon the least pain, may be squeezed out of the lachrymal gland, to wash off any filth, which, by sticking to the cornea, might render it dim.

**CORNEL-TREE**, *cornus*, in botany. See the article *Cornus*.

**CORNELIAN**, *farda*; the same with carnelian. See *Carnelian*.

**CORNELIAN-CERRY**, a name sometimes given to a species of cornel-tree.

**CORNER**, *angulus*, in a general sense, the same with angle. See *Angle*.

**CORNERS**, or *Angles*, of the voile, in the manage, the extremities of the four lines of the voile, when you work in a figure. See *Corner teeth of a horse*, the four teeth placed between the middling teeth and the roots,
tufhes, being two above and two below, in each side of the jaw, which shoot forth when the horse is four years and a half old.

CORNER-STONES, among builders, the two stones which stand one in each jaumb of a chimney. The breadth of each stone ought to be equal to that of the jaumb, and its face to be hollowed in the sweep of a circle; their height ought to reach from the hearth to the mantle-tree: they are commonly made of Ryegate or firestone.

CORNET, in the military art of the antients, an instrument much in the nature of a trumpet, which when it only sounded, the ensigns were to march alone, without the soldiers; whereas, when the trumpet only sounded, the soldiers were to move without the ensigns. The cornets and bucchiae furnished the charge and retreat, and the cornets and trumpets founded during the course of the battle.

CORNET, in the military art of the moderns, the third commissiion-officer in a troop of horse or dragoons.

This is a very honourable post: he commands in the lieutenant's absence; his principal duty being to carry the standard, near the middle of the first rank of the squadron.

CORNEUS, the name by which Linnaeus calls a kind of tin-ore, found in black columns, with irregular sides, and terminating in prisms. See Tin.

CORNICH, CORNISH, or CORNICE, in architecture, the uppermost member of the entablature of a column, as that which crowns the order. The cornice is the third grand division of the tabeation, commencing with the frieze, and ending with the cymation. The cornice is different in different orders, there being as many kinds of cornices as there are different orders of columns. It is most plain in the tuscan order. Vignola makes it consist of an ovum or quarter-round, an alfragal or baouette, the reglet or fillet, the larmier, and the talon. See the article Tuscan ORDER.

In the Ionic, the members are in most respects the same as in the dorick, except that they are frequently enriched with carvings, and have always dentils. See the article Ionic ORDER.

In the dorick, Vignola makes the capitals of the triglyphs of the frieze, with their bandelettes, a talon, mutules or dentils, a larmier with its gutta underneath, a talon, fillet, cavetto, and reglet. See the article Doric ORDER.

The corinthian cornice is the richest and is distinguished by having both modillions and dentils, contrary to the opinion of Vitruvius, who looks upon these two ornaments as incompatible; and of Mr. Le Clerc, who accounts the dentils as peculiar to the Ionic. See Corinthian ORDER and Modillion.

In the composite there are dentils, its mouldings carved, and there are channels under the soffit. See the article Composite ORDER.

For the height and projections of the cornices in the several orders, Goldman makes the height of the tuscan 1 3/4, and its projection 2 3/4 modules; the height of the dorick 1 7/8, and its projection 2 1/4; height of the ionic 1 3/8, its projection 2 3/8; height of the corinthian 1 1/8, its projection 2 1/16; height of the composite 1 1/4, its projection 2 1/16.

Cornice is also used, in general, for all little projections in masonry or joinery, even where there are no columns, as the cornice of a chimney, beaulet, &c.

Architrave-Cornice, that immediately contiguous to the architrave, the frieze being retrenched.

Mutilated Cornice, one whose projection is cut, or interrupted to the right of the larmier: or reduced into a flatband, with a cimuation.

Cantaliber-Cornice, a term used by workmen for a cornice that has cantalibers underneath. See Cantaliver.

Coving-Cornice, that which has a great cymation or hollow in it, ordinarily lathed and plastered upon compass-sprechets, or brackets.

Modillion-Cornice, one with modillions under it. See the article Modillion.

Cornice is also used for the crownings of pedestals. See the article Pedestal.

Corniche-ring, of a piece of ordnance, is that next from the muzzle-ring, backward. See the article Cannon.

Cornicularis processus, the process or knob of the shoulder-bone, called thus because it resembles the figure of a crow's beak.

CORNICULARIUS, in roman antiquity, an officer of the army, appointed to aiff the military tribune in quality of lieutenant.

They went the rounds instead of the tribune, visited the watch, and were mostly the same with what the aids-major are in the french army: they had their name from a little horn they made use of, in giving their orders to the soldiers.

CORNICULATE,
CORNICULATE, or CORNICULATED FLOWER, one with a sharp-pointed-appendage, resembling, in some degree, a cock's spur.

CORNICULATE PLANTS, the same with fissional plants with horned pods, or seed-vessels.

CORNISH, or CORNICE, in architecture, See the article CORNICE.

CORNISH CROUCH. See CROUCH.

CORNISH DIAMOND. See DIAMOND.

CORNISH RING, the same with astragal. See the article ASTRA.

CORNIX, in ornithology, the name by which authors call several species of corvas, viz. the common crow, the rooster crow, the bluish crow or roller, and the rook. See CURVUS and CROW.

CORNON, a town of Auvergne, in France, situated on the river Allier, about three leagues west of Clermont.

CORNU, HORN, in physiology. See the article HORN.

CORNU AMMONIS, or HAMMONIS, in natural history, a genus of fossil shells, called serpent-stones, or snake-stones, by the vulgar. They are found of all sizes, from a breadth of a six-pence to more than two feet in diameter; some of them rounded, others greatly compressed, and lodged in different strata of stones and clays; some again are smooth, and others ridged in different manners, their frize and ridges being either straight, irregularly crook-ed, or undulated. See plate LI. fig. 6.

The cornua ammonis undoubtedly belong to the cocklea-kind of shells. See the article COCLEA.

CORNU CERVI, HART'S HORN, in the materia medica. See HART'S HORN.

CORNUCOPIA, or HORN of plenty, among painters, &c. is represented under the figure of a large horn, out of which issue fruits, flowers, &c. Upon medals the cornucopia is given to all deities, genii, and heroes, to mark the felicity and plenty, that was due to the goodnes of the former, or the care from the latter, to supply the deficiency of such of his servants as thought proper to bestow it upon.

CORODIO HABENDO, a writ to exact a corody of an abbey, or religious house.

COROLLA, among botanists, the most conspicuous part of a flower, surrounding the organs of generation, and composed of one or more flower-leaves, most commonly called petals, to distinguish them from the leaves of the plant: according as there is one, two, or three of these petals, the corolla is said to be monopetalous, dipetalous, tripetalous, &c. See the articles FLOWER, PETAL, &c.

COROLLARY is a useful consequence drawn from something already advanced or demonstrated; thus, it being demonstrated that a triangle which has two equal sides, has also two angles equal; this corollary will follow, that a triangle which...
COROLLISTS, corollia, an appellation given by Linnaeus to those botanists, who have arranged plants under distinct classes according to the different form of their corolla or flowers; such is the celebrated Tournefort and Rivinus. See Botany.

COROLLULA, a term used by botanists, to express the little partial flowers, which together make up the compound ones. These corollula are of two kinds, the tubulated and ligulated; the former whereof are always furnished with a campanulated limb, divided into four or five segments; and the latter have only a flat linear limb, terminated by a single point, or by a broader extremity, divided into three or five segments. See Flower.

CORONA, CROWN, or CROWNING, in architecture. See Crowning.

CORONA, among anatomists, denotes that edge of the glans penis where the prepuce begins. See Penis, &c.

CORONA, among botanists, expresses any thing growing on the head of a seed. These coronas are of various kinds: sometimes simple, consisting only of a dentated membrane; sometimes pappose, consisting of downy matter; which, in some cases, is immediately affixed to the seed; in others it has a pedicle growing from it; and it sometimes is composed of simple filaments, and sometimes is pappose. Hence, in the description of the seeds of plants, they are frequently said to be crowned or winged with down: the use of this part being evidently to scatter and disperse the seeds, when ripe.

CORONA ETHIOPICA, ETHIOPIAN CROWN. See Ethiopian.

CORONA BOREALIS, the northern crown, or Garland, in astronomy, a constellation of the northern hemisphere, whose stars in Ptolemy's catalogue are 8, in Tycho's as many, and in Mr. Flamstead's 21.

CORONA CLERICALIS, the name with coif. See the article Coif.

CORONA IMPERIALIS, in natural history, a beautiful shell of the voluta-kind, distinguished by certain eminences forming a sort of crown. See Voluta.

CORONA IMPERIALIS, CROWN IMPERIAL, in botany, makes a distinct genus of plants, according to Tournefort, but is ranged under frictillaria by Linnaeus.

CORONA SOLIS, SUN-FLOWER, in botany, the same with helianthus. See the article Helianthus.
COROMET. See the article CROWN.
CORONET, or CRONET of a horse, the lowest part of the pofllen, which runs round the coffin, and is distinguished by the hair joining and covering the upper part of the hoof.
CORONILLA, HATCHET-VETCH, in botany, a genus of the diadephila-decandria class of plants, whose corolla is papilionaceous; the vexillum cordated, bent backwards, and scarcely longer than the ala, flanding in clusters at the top of the branch: the fruit is a very long, slender pod, contracted between each seed, and formed of two valves, with only one cell; the seeds are numerous, and of a round figure. See plate LIV. fig. 4.
CORONOPUS, BUCKSHORN-PLANTAIN, in botany, makes a distinct genus of plants, according to some, but is ranged by Linnaeus under plantago. See the article PLANTAGO.
COROPITÆ, the same with the agonistic. See the article AGONISTICI.
COROPRA CAVERNOSA, in anatomy. See the article CAVERNOSE.
COROPRA OLIVARIA, two protuberances of the medulla oblongata. See the articles BRAIN and OLIVARIA CORPORA.
COROPRA PYRAMIDALIA, two protuberances of the under-part of the cerebellum, so called from their resemblance of a pyramid. See CEREBELLUM.
COROPRA STRIATA, two protuberances in the lateral ventricles of the brain. See the article BRAIN.
COROPRA HABEAS, in law. See the article HABEAS.
COROPRAL, an inferior officer under a serjeant, in a company of foot; who has charge over one of the divisions, places and relieves sentinels, and keeps good order in the corps de garde; he also receives the word from the inferior rounds, which passes by his corps de garde. This officer carries a fife, and is commonly an old soldier; there are generally three corporals in each company.
COROPRAL of a ship, an officer who has the charge of setting and relieving the watches and centuries, and who fees that the soldiers and sailors keep their arms neat and clean; he teaches them how to use their arms, and has a mate under him.
COROPRAL, CORPORAL, in the christian church, a name for the linen cloth thrown over the consecrated elements at the celebration of the eucharist. See the article Eucharist.
CORPORATE, or INCORPORATE, is said of corporations. See the article CORPORATION.
CORPORATE COUNTY. See COUNTY.
CORPORATION, a body politic, or incorporate, so called because the persons or members are joined into one body, and are qualified to take and grant, &c.
Corporations are either spiritual or temporal: spiritual, as bishops, deans, archdeacons, parsons, vicars, &c. Temporal, as mayor, commonalty, bailiff, burgesses, &c. And some corporations are of a mixed nature, composed of spiritual and temporal persons, such as heads of colleges and hospitals, &c. All corporations are said to be ecclesiastical or lay: ecclesiastical are either regular, as abbies, priories, chapters, &c. or secular, as bishoprics, deaneries, archdeaconries, &c. lay, as those of cities, towns, companies, or communities of commerce, &c. See ABBEY, COMPANY, &c.
Corporations may be established three different ways, viz. by prescription, letters patent, or act of parliament; but are most commonly established by patent or charter. London is a corporation by prescription: but though corporations may be by prescription, yet it shall be intended, that it did originally derive its authority by a grant from the king.
A corporation may be dissolved; for it is created upon a trust, and if it be broken, it is forfeited. No person shall bear office in any corporation but such as have received the sacrament, taken oaths,
CORPORIFICATION, CORPOREAL, CORPS.

Ordinances made by corporations, to be observed on pain of imprisonment, for the breach of laws, are contrary to Magna Charta. Actions arising in any corporation, may be tried in the corporation courts: but if they try actions not within their jurisdiction, and encroach upon the common law, they are liable to be punished for it. The corporation of the city of London is to answer for all particular misdemeanors committed in any of the courts of justice within the city, and for all other general misdemeanors committed in the city.

CORPOREAL, those qualities which denominate a body. See QUALITY, BODY, and INCORPOREAL.

CORPORIFICATION, or CORPORATION, in chemistry, the operation of recovering spirits into the same body; or, at least, into a body nearly the same with what they had before their spiritualization.

CORPS DE GARDE, a post in an army, sometimes under covert, sometimes in the open air, to receive a number of soldiers, who are relieved from time to time, and are to watch in their turns, for the security of some more considerable post.

Corps de garde is frequently used for the men who watch in this post.

CORPS DE BATAILLE, the main body of an army, drawn up in order of battle. See the articles ARMY and GUARD.

Corps, in architecture, a term to signify any part that projects or advances beyond the naked of a wall, serving as a ground for some decoration, or the like.

CORPULENCY, in medicine, the state of a person too much loaded with flesh or fat. See FLESH and FAT.

An excessive degree of corpulence or fatness becomes a disease, when the whole body, as well as the belly, is grown into such a bulk, that the actions, especially with respect to motion and respiration, are greatly impaired if not entirely impeded. Boerhaave observes, that corpulence does not consist in the folid of the body's being increased, but in their being distended to a greater pitch by the abundance of humours collected in them.

Corpulence arises from a laudable, copious, oily, soft blood, containing less than its share of salt; and is promoted by any thing that tempers and softens the blood, and renders it less sharp and saline; such are want of exercise and motion, an indolent life, too much sleep, nourishing foods, &c.

There is not a better remedy to reduce a corpulent habit, than acetum fclilliticum drunk upon an empty stomach. Semen frazini, or bird's tongue, as it is called, ad 3 j. drank in a morning in a glass of wine, is very much commended as an effectual diuretic, and, on that account, abates corpulency. Borellus commends the chewing of tobacco; but it is not safe for all persons to use it, lest it should throw them into a consumption. Those that are naturally gross and fat oftener die suddenly than other people. The most extraordinary instance of corpulency perhaps ever known, was that of Edw. Bright of Malden, in Efix, who, dying in Nov. 1750, at the age of twenty-nine years, weighed six hundred and sixteen pounds; his waistcoat, with great care, was buttoned round seven men of ordinary size.

CORPUS, body, in physiology. See the article BODY.

CORPUS, in anatomy, a term applied to several parts of the animal structure, as corpus callosum, corpus cavernosum, corpus highmori, corpus laeuteum ovarii, corpus pampiniforme, &c.

CORPUS CALLOSUM, a medullary part of the brain, which covers the whole lateral ventricles. See the articles BRAIN and CALLOSUM CORPUS.

CORPUS CAVERNOUSUM, a cavernous substance, surrounding the vagina, which swells in the time of coition. See VAGINA and CAVERNOSO.

CORPUS PAMPINIFORME, a body formed a little above the testicles, by the division and reunion of the spermatic veins. See the article SPERMATIC.

CORPUS RETICULARE. See RETICULARE CORPUS.

CORPUS is also used in matters of literature, for several works of the same nature, collected together in the form of a system of any art or science. See BODY.

CARCOPUS CUM CAUSA, in law, a writ issuing out of the chancery, to remove both the body and record, touching the cause of any man lying for execution, upon a judgment for debt, into the king's bench, there to lie till he has satisfied the judgment.

COPUS CHRISTI, a festival of the church, kept on the next Thursday after Trinity-funday.
COR [ 759 ]

CORPUSCLE, instituted in honour of the eucharist; to which also one of the colleges in Oxford is dedicated.

CORPUSCULAR PHILOSOPHY, that way of philosophizing which endeavours to explain things, and to account for the phenomena of nature by the motion, figure, real, position, &c. of the corpuscles, or the minute particles of matter. See ASTRONOMICAL PHILOSOPHY.

This philosophy is so very ancient, that, both before Epicurus and Democritus, and even before Leucippus taught in Greece, there was a phcenician philosopher, who explained natural phenomena by the motions and affections of the minute corpuscles of matter, as very old writers inform us: and, therefore, it should rather be called phcenician philosophy, than epicurean.

Mr. Boyle sums up the chief principles of the corpuscular hypothesis, which now flourishes under the mechanical philosophy, in these particulars:

1. They suppose that there is but one catholic or universal matter, which is an extended, impenetrable, and divisible substance, common to all bodies, and capable of all forms. 2. That this matter, in order to form the vast variety of natural bodies, must have motion in Some or all its assignable parts; and that this motion was given to matter by God the creator of all things, and has all manner of directions and tendencies. 3. Matter must also be actually divided into parts, and each of these primitive particles, fragments, or atoms of matter, must have its proper magnitude, or size, as also its peculiar figure or shape. 4. They suppose also, that these differently sized and shaped particles may have as different orders and positions, whereof great variety may arise in the composition of bodies.

CORRECTION, in printing, the pointing out or discovering the faults in a printed fleet, in order to be amended by the compositor, before it be printed off. See the article PRINTING.

The corrections are placed on the margin of every page, right against the line wherein the faults are found; and there are different characters used to express different corrections; thus $J$ is put for dele, to intimate that something, as a point, letter, word, $&c.$ dashed in that line, is to be taken out. If any thing is to be inserted, the place is to be marked thus $\ddag$ and the thing to be inserted, added in the margin. When there are two or more corrections in the same line, then they are all separated in the margin by little bars, thus $\mid$. If a space be omitted, its place is marked with a caret, and the margin thus $\ddag$. When a letter is inverted, it is expressed in the margin thus $\ddag$. When any thing is to be transferred, it is directed thus, Extraordinary fearc ever fail of exciting enzy, for Extraordinary attainments scarce ever fail of exciting envy, and in the margin is added $\ddag$. If italic characters are to be changed for roman, or vice versa, a line is drawn thus — under the letters, and rom. or italic, is written in the margin. If a space, or an m or n quadrant, flick up, and print black, it is marked in the margin with a daff, thus $\ddag$. If a word, sentence, or paragraph is entirely omitted, the place is marked with a caret, and in the margin is put the word out. If the letters of a word stand too far alonder, a line is drawn under them, and in the margin is put a crooked line or hook, thus $\ddag$. There are many other marks used in correcting, as $\ddag$ for superior, cap. for capital, l. c. for lower-case, $&c.$

CORRECTION, in the manage, denotes aids given with severity. See the articles AID and CHASTISEMENT.

CORRECTION, in pharmacy, the adding some ingredient to a composition, in order to check or moderate the violence of operation: thus, for instance, some carminatives, such as the seed of fennel, or anise, are added to sena-leaves, which when exhibited alone, generally produce flatulencies and gripes. See CORRECTOR.

CORRECTION, in rhetoric, the same with epanorthosis. See EPANORTHOSIS.

CORRECTOR, in general, denotes something that mends the faults or bad qualities of others.

CORRECTOR of the staple, a clerk belonging to the staple, whose business is to
COR [760] COR

write down and record the bargains that merchants make there.

CORRECTOR, in medicine and pharmacy, an ingredient in a composition, which guards against or abates the force of another. Thus the lixivial salts prevent the grievous convulsions of reinos purges, by dividing their particles, and preventing their adhesion to the internal membranes, whereby sometimes they occasion intolerable gripings: and thus spices and carminative seeds also assist in the easier operation of some cathartics, by dissipating collections of wind. In the making a medicine, such a thing is also called a corrector, as destroys or diminishes a quality in it, that could not otherwise be dispelled with: thus turpentine may be called the corrector of quicksilver, by detroying its fluidity, and making it thereby capable of mixture; and thus rectified spirit of wine breaks off the points of some acids, so as to make them become safe and good remedies which before were destructive. Quincy.

CORRELATIVE, something opposed to another in a certain relation. Thus, father and son are correlates. Light and darkness, motion and rest, are correlative and opposite terms.

CORRIDOR, or CORRIDOR. See the article CORRIDOR.

CORRIGOLA, in botany, a genus of plants called by Linnaeus illecebrum. SeeILLECEBRUM.

CORRIVAL, a term sometimes used in a synonymous sense with rival. See the article RIVAL.

CORROBORANTS, or CORROBATIVE MEDICINES, the same with strengtheners. See STRENGTHENERS.

CORODY, or Corody. See the article CORODY.

CORROSION, in a general sense, the action of gnawing away, by degrees, the continuity of the parts of bodies. Acids corrode most natural bodies.

CORROSION, in chemistry, an action on bodies, by means of proper menstruums, that produces new combinations, and a change of their form, without converting them to fluidity. See the article MENSTRUUM.

The subject of this operation, as it is used in pharmacy, is principally metals; and the manner in which it is performed is commonly of two kinds: the first and most simple is, when the body to be corroded is put into a fluid menstruum, and either taken out instantly, and put into a moist place, as in the method generally practiced in making a cerus; or continued therein till the whole of the matter be corroded, as in the preparation of turblith or vitriol and mercury. This may properly be called corrosion by immersion. The other, called in domestic chemistry, cementation, is performed by expelling the body to be corroded, to the action of a vapour or steam, expelled by heat, from what is used as the menstruum, as in the processes given by the Edinburgh Dispensatory for the making ceras.

There are, nevertheless, other methods by which corrosions are, in most instances, made; as in the rubigo chalybis, of the London Dispensatory, where sprinkling or rubbing of the body over with a menstruum are ordered in the place of dipping, which the form of steel-flings made inconvenient: and some others, which from the particular texture of the matter become necessary; thus in the corrosion of mercury by sulphur, in the preparation of ethiops mineral, triturating, or sometimes fusion, is employed; and in the chalybis cum sulphure prep. the heated steel is only touched with the sulphur.

CORRUGATOR, in anatomy, a muscle which arises fleevily from the processes of the os frontis, next the inner or great angle of the orbit, above the joining of the os nasi and the superior process of the os maxillare with this bone; from thence it runs obliquely outwards and upwards, and is inserted into the fleevy part of the occipito-frontalis, some of its fibres passing through into the skin, a little higher than the middle region of the eyebrows.

Its use is to smooth the skin of the forehead, by pulling it down after the action of the occipito-frontalis; and when it acts most forcibly, it serves to wrinkle the skin of the front between the supercilia, as it happens when we frown, or knit the brows.

CORROSIVES, in surgery, are medicines which corrode whatever part of the body they are applied to: such are burnt alum, white precipitate of mercury, white vitriol, red precipitate of mercury, butter of antimony, lapis internalis, &c.

CORRUPTICOLÆ, in church-history, a sect of heretics, so called from their maintaining that the body of Christ was corruptible, that the fathers had owned it, and
CORRUPTION, the destruction, extinction, or, at least, cessation for a time, of the proper mode of existence of any natural body. See Putrefaction.

Whenever any body loses all or any of those accidents, which are essentially necessary to the constituting of such a particular kind, it is then said to be corrupted, or destroyed, and loses its former denomination: but nothing can be destroyed of its substance, or materiality; for as in generation, nothing of matter is produced that did not before exist, so in corruption, nothing more is lost besides that particular modification which was its form, and constituted it of such a species.

Dr. Drake accounts for the corruption of animal and vegetable bodies thus: the principle of corruption is, perhaps, the same which in a state of circulation, is the principle of life, viz. the air, which is found mixed in considerable quantities with all sorts of fluids, as necessary to vegetable as to animal life. Now this air has two motions, viz. an expansive one, from its natural elappiness, by means whereof it communicates that infinite motion which all juices have, and by which the containing parts are gradually extended, and grow; and a circulatory or progressive motion, which is not essential to it, but is occasioned by the resistance of the solid parts of those bodies, which obliges it to take that course that is most free and open, which is through the vessels of animals and plants. Now this course being stopped, the expansive motion still remains, and continues to act till, by degrees, it has so far overcome the including bodies, as to bring itself to an equal degree of expansion with the external air, which it cannot do without destroying the texture and continuity, or specific degree of cohesion, of those solids, which is what we call a state of corruption.

The expansive or destructive quality of the air in bodies may be promoted two ways, and therefore corruption accelerated by as many ways, viz. either by weakening the tone or cohesion of the including parts; and so facilitating the work of the air, as is the case when fruit is bruised, which is found to corrupt sooner than in any other part; or by intending the expansive force of the air itself by heat, or some other co-operating circumstance, and so helping it to overcome the resistance the sooner.

Corruption of blood, in law, an infec-

tion accruing to a man's estate, attained of felony and treason, and to his issue; for as he loses all to the prince, &c., his issue cannot be heirs to him, or to any other ancestor by him: and if he were noble, his heirs are rendered ignoble.

CORSICA, in architecture, the same with plat-band. See Plat-band.

CORSAIL, a pirate, or person who scours the sea for plunder, with an armed vessel, without commission from any prince or power. A corsair differs from a privateer, in that the latter acts under a commission, and only attacks the vessels of those at war with the state whence he had his commission.

CORSLET, a little cuirass; or, according to others, an armour or coat made to cover the whole body, antiently worn by the pike-men, usually placed in the front and flanks of the battle, for the better resisting the enemy's assaults, and guarding the soldiers placed behind them.

CORSLEAF, in our old writers, the same with mortuary. See Mortuary.

CORSICA, an island in the Mediterranean, between 3° and 10° east long., and between 41° and 43° north latitude, about one hundred miles south of Genoa, and subject to that republic; though the natives have for many years disputed their right, and are still in arms against them.

CORSNED BREAD, a certain superstitious trial made use of among our saxon ancestors, by taking a piece of bread, and eating it, with solemn oaths and executions, that it might prove poisin, or their last morsel, if what they atterted or denied was not true.

The bread was first accused by the priest, and then offered the suspected criminal, to be swallowed by way of purgation, it being believed that it would choke him, if he was not innocent.

CORSIDES, a kind of greyish white agat found in Germany. See Agat.

Cortex, bark, in physiology and dermatology. See the article Bark.

Cortex, or Cortex peruvianus, is more particularly used for the quinquina, or jfeuits-bark. See Quinquina.

Cortex Winteranus, in botany, &c., a name given to the wild cinnamon-tree, See the article Cinnamon.

Cortex cerebris, the cortical part of the brain, so called on account of its greyish colour. See the article Brain.

Cortical, in general, something consisting of, or resembling bark. Hence the

5 E  COR

and that to deny it was to deny the truth of our Saviour's passion.

CORRUP

CORR
CORTICAL PART OF THE BRAIN, is the exterior part, so called on account of its invasing the internal or medullary part, as the bark of a tree does the wood; part. See the article BRAIN.

CORTIN, CURTAIN, or CURTIN, in fortification. See CURTIN.

CORTONA, a city of Tuscany, in Italy, about thirty-five miles south-east of SIENNA; east long. 13°, and north latitude 43° 11'.

CORTUSA, in botany, a genus of the pentandra-mongynia class of plants, the flower of which consists of one rotated petal; the fruit is an oval-oblong acuminate capsule, furrowed longitudinally on each side, with two valves having their sides involuted, and one cell containing numerous oblong, obtuse, small seeds. The leaves, says Dale, promote expectoration.

CORTUSA is also the name by which Plu- nier calls the thalia of LINNAEUS. See the article Thalia.

CORVET, or CURVET, in the manege. See the article CURVET.

CORVINA, in ichthyology, the same with the quaticula of the BRAZILIANS.

CORVINDUM, or NELLA CORVINDUM, in natural history. See the article NELLA CORVINDUM.

CORVINUS LAPIS, a name sometimes given to the belemnites. See Belemnites.

CORVIFETA, in ornithology, a bird, otherwise called guittuit. See the article GIUTGUIT.

CORUNNA, or GROYNE, a port-town of Galicia, in Spain, situated on a fine bay of the Atlantic ocean, about thirty-two miles north of Compostella; west longit. 9°, and north lat. 43°.

It is to this port that the English packet-boat always goes, in time of peace.

CORVO, in ichthyology, the same with the coracinus. See Coracinus.

CORVO, in geography, the most weftlyer of the Azores. See Azores.

CORUS, in Jewish antiquity, the same with the homer. See the article Homer.

CORUS, in our old writers, denotes eight bushels, or a quarter. See the articles Bushel and Quarter.

CORUS is also a wind, so called by the Jews, rising in the summer in the west; and is that present called the north-east wind.

CORUSCATION, a glittering, or gleam of light shining from any thing. It is chiefly used for a flash of lightning darting from the clouds in time of thun-

der. See the articles Lightning and Thunder.

CORUSCATULA, in natural history, a kind of fossiliferous fern, so called as being covered with a shining incrustation.

CORVUS, in ornithology, a genus of birds, of the order of the pica, the distinguishing characteristic of which is, that the beak is of a convex and cultrated figure, the chaps nearly equal, and its baie beaie with hairs. To this genus belong the raven, the crow, rook, jackdaw, &c. See the article Raven, Crow, Rook, &c.

CORVUS, in ichthyology, a name used for two very different fishes, viz. the tub-fish, and the doree. See Tub-Fish and Doree.

CORVUS AQUATICUS, the Cormorant. See the article Cormorant.

CORVUS CORNUTUS, the Rhinoceros-Bird. See Rhinoceros.

CORVUS, the Raven, in astronomy, a constellation of the southern hemisphere, wherein, according to Ptolemy and Tycho's catalogue, are seven stars; whereas the Britannic catalogue reckons no less than ten.

CORVUS, in Roman antiquity, a military engine, or rather gallery, movable at pleasure by means of pulleys, chiefly used in boarding the enemy's ships, to cover the men.

CORYBANTES, in antiquity, priests of the goddess Cybele, who, inspired with a sacred fury, danced up and down, tolling their heads and beating on cymbals or brazen drums. They inhabited mount Ida, in the island of Crete, where they nourished the infant Jupiter, keeping a continual rattling with their cymbals, that his father Saturn, who had resolved to devour all his male offspring, might not hear the child's cries.

CORYBANTICA, in Grecian antiquity, a festival kept in honour of the corybantes.

CORYCEUM, in antiquity, the same with the apodyterium. See Apodyterium.

CORYCOMACHTA, among the antients, was a sort of exercise in which they pushed forwards a ball, suspended from the ceiling, and at its return either caught it with their hands, or suffered it to meet their body. Orbifius informs us it was recommended for extenuating too gross bodies.

CORYDALIS, in botany, a name sometimes used for the sumaria, or fumitory. See the article Fumaria.

CORYLUS,
CORYLUS, the hazel, in botany, a genus of the monoecea-polyandria class of plants, the male flowers of which are disposed in form of a long amenum; the female ones are remote from the males, on the same plant, sessile, and included in a gem; there is no corolla nor pericarpium; the fruit is a subovated nut, with a naked base, and top a little compressed and a little acuminate. See plate LIV. fig. 7.

The kernels of filberts and Spanish nuts, though commonly eaten, are difficult of digestion, and consequently bad for the stomach, and the husks have a compound discous flower, but their seeds have no down adhering to them. They bear their flowers in clusters, and spreading round in the form of an umbrella. Of this kind are the corn-marygold, common ox-eye, the daisy, camomile, mugwort, feverfew, &c.

CORYMBIFEROUS PLANTS are such as have a compound discous flower, but their seeds have no down adhering to them. They bear their flowers in clusters, and spreading round in the form of an umbrella. Of this kind are the cornmarygold, common ox-eye, the daisy, camomile, mugwort, feverfew, &c.

CORYMBIUM, in botany, a genus of plants belonging to the fyngeena-monomagia class, the flower of which is monopetalous and equal; the limb being divided into five lanceolated segments; there is no pericarpium; the immutated cup contains one oblong seed, covered with a wool-like down.

CORYMBUS, a genus of botanists, clusters of berries, as those of ivy. See the article Corymbiferous. Jungius uses it to signify the extremity of a talk, subdivided and loaded with flowers, or fruits, as to compose a spherical figure. It is also, by modern botanists, used to signify a compound discous flower, which does not fly away in down, the chrysanthemum, daisy, chrysocomes, &c. for this kind of flowers, being spread into breadth, resemble an umbrella, or bunch of ivy-berries.

CORYPHA, in botany, a genus of plants the characters of which are not perfectly ascertained: the general spatha is compound; the spadix ramose; and the corolla is divided into three oval, obtuse, patent segments; the stamens are five fimbriated filaments, longer than the corolla; the antheres are adnate; the germen is roundish; the style is fimbriated and short; the stigma isimple; the fruit is a large, globose, unilocular berry; the seed is single, obovate, large and globose.

CORYPHENA, in ichthyology, a genus of malacoeytous fishes, which have five gill-arches, or little bones, in the branchiostegale membrane, and their back-fin reaches from the head to the tail.

To this genus belong the hippurus, novacula, and pompious. See the articles Hippurus, Novacula, &c.

CORYPHA, among physicians, the crown of the head; also the interior extremity of the fingers, next the nails.

CORYZA, in medicine, a catarrh of the nose. See the article Catarrh.

CORZOLA, or CURSCOLA, an island in the gulf of Venice, divided from Ragusa, in Dalmatia, by a narrow strait east long. 18°, and north lat. 42° 35'.

COS, the white-stone, in natural history, a genus of vitreous stones, consisting of fragments of an indeterminate figure, sub-opake and granulated. Of this genus there are several species, some consisting of rougher and others of finer particles, or even of altogether impalpable particles; and used not only for whitestones, but also for mill-stones and other like purposes.

COSCINOMANCY, a name by which the ancients, the art of divination by means of a sieve. It was generally practiced to discover thieves, or others suspected of any crime. In this manner: they tied a thread to the sieve, by which it was suspended; or else placed a pair of shears, which they held up by two fingers; then prayed the gods to direct and assist them: after that they repeated the names of the persons under suspicion, and he, at whose name the sieve whisked round, or moved, was thought to have committed the fact. This practice must have been very ancient, being mentioned by Theocritus, in his third Idyllion.

COSCYLIUM, a name by which some call the kermes. See Kermes.

CO-SECANT, in geometry, the secant of an arch which is the complement of another to 90°. See the articles Secant and Complement.

COSENAGE, or Cognition, in law, a writ that lies where the great-grandfather is seized in his demesne, as of fee, at the day of his death, of certain lands and tenements, and dying, a stranger enters and abates: then shall the heir have this writ of cozenage.

COSENA, the capital of the hither Calabria, in the kingdom of Naples: east long. 16° 35', and north lat. 39° 15'. It is an archbishop's see.

COSHERING, or Cochering, in the feudal law, a grievous exaction imposed by a lord of prerogative, or signorial authority.
COS

authority of the lords upon their tenants,
in lying and feasting, with all their re-
tinue, for some time at their houses.
COSTARUM LEVATORES,
COSTES, in trigonometry, the sine of an
arch, which is the complement of an-
toher to 90°. See SINE.
COSMOLABE, in physic, any medicine or
preparation which renders the skin soft
and white, or helps to beautify and im-
prove the complexion, as lip salves, cold
creams, cerufs, &c.
COSMETIC, among
COSSE,
COSSEBA, in botany, the
COSMICAL ASPECT, among astrologers,
COSMICAL QUALITIES are, by Mr. Boyle,
used in the fame sense with systematical
ones, or those resulting from the system
of the universe.
COSMOGRAPHY, κατασειρα, a descrip-
tion of the several parts of the visible
world; or the art of delineating the fe-
veral bodies according to their magni-
tudes, motions, relations, &c.
Cosmography conflits of two parts, astro-
my and geography. See the articles
ASTRONOMY and GEOGRAPHY.
COSMOLABE, the name of an antient
mathematical instrument, resembling the
astrolabe, and serving to measure distances
both in the heavens and on the earth.
See the article ASTROLABE.
COSMOPOERIA, the fame with the cre-
ation of the world. See WORLD and
CREATION.
COSMOPOLITAN, in geography. See the
article FORTO-FERAJO.
COSMOPOLITE, a term denoting a ci-
tizen of the world, or one who has no
fixed residence any where.
COSSACKS, people inhabiting the banks
of the river's Nieper and Don, near the
Black sea and fronties of Turky. Their
country is commonly called the Ukraine,
and is mostly subject to Russia.
COSSE, or COSSE, terms used in old
writers for algebra. See ALGEBRA.
COSSET, among farmers, a colt, calf,
lamb, &c. brought up by hand, with-
out the dam.
COSSET, in botany, the same with
COSSET, in botany, the same with
COSTILAGO, in botany, the fame with
COSTAL, an appellation given by anato-
mists to several parts belonging to the
fides; thus we meet with cotital muscles,
vertebrae, &c.
COSTA-RICA, a province of Mexico,
bounded by the North sea on the north-
calf, and by the Pacific ocean on the
south-west. Its chief town is New-
Carthage.
COSTARUM DEPRESSORES, in anato-
my, that part of the intercostal muscles
which lies next the ribs. See the article
INTERCOSTALS.
COSTARUM ELEVATORES, the same with
the supracostals. See SUPRACOSTALS.
COSTIVENESS, obflucretio alvi, in medi-
cine, a preternatural detention of the fi-
ces, with an unusual drinefs and hard-
nes thereof, and thence a suppression of
their evacuation. See COLIC.
If costiveness proceeds from dry hard ex-
crements, a moistening slippery diet of
plums, cherries, or scalded apples, with
or without raifins, fhould be taken; cof-
fee fhould be also drank with milk; but
the moft effectual mean to remove these
obftuctions, to raife the spirits, and the
landui fibres of the intestines, are gentle
puftes, fuch as purging mineral waters,
purging faIts, falmifable Glauber, warm
water, and the common purging potion,
as well as the lenitive electuary, and
emollient Clyffers.
Hoffman fays an obfinate costiveness is
owing generally to fpafts in the intelle-
tines themselves, or in the lower part of
the colon and rectum; or, as propagat-
ed by confent from the more remote parts.
The suppression of this evacuation pro-
cures feysials, generates flatulencies and
other grievous Symptoms, especially in
hypochondria and hysteric perrons: but
when this difeafe is constitutional, it may
be borne a long while without danger.
For costiveness in children, Boerhaave
recommends abfofents, and orders seven
grains of the teafeoues powders, three
times a day. The nurfe muft forbear
feeding upon any thing that is four or
acid. Harris believes an acid to be fo pre-
dominant in infants as to caufe all their
difeaes.
COSTMARY, the english name of a spe-
cies of Tanzy. See TANACETUM.
COSTRANGULA,
COTSTRANGULA, in botany, the same with the scrophularia. See the article SCROPHULARIA.

COSTS, in law, signifies the expenses of a suit recovered by the plaintiff, together with damages.

COSTUME; a term among painters: thus, a painter must observe the costume; that is, he must make every person and thing sustain its proper character, and not only observe the story, but the circumstances, the scene of action, the country or place, and make the habits, arms, manners, proportions, and the like, to correspond.

COSTUS, in botany, a genus of the monandria-monogyLLia class of plants, the flower of which consists of three lanceolated, concave, equal petals, placed pretty erect; the fruit is a roundish, coronated, trivalvular capsule with three cells, containing several triangular seeds. The root of this plant, containing feveral triangular seeds, and make the habits, arms, manners, leather. The root of this plant, containing several triangular seeds, and make the habits, arms, manners, leather.

It pays on importation a duty of 3 87½ d. per pound, and there is a drawback on exportation of 3 86 d.

COTTAGE. See the article COTTAGE.

CO-TANGENT, the tangent of an arch, which is the complement of another to 90°. See the article TANGENT.

CO-E-GARE, a term found in our old statutes for refuse-wool, so clotted together as not to be easily pulled afunder.

COTHURNUS, the buskin, in the ancient stage. See the article BUSKIN.

COTICE, or COTISE, in heraldry, is the fourth part of the bend, and with us seldom if ever borne but in couples, with a bend between them. See BEND. The bend thus bordered, is said to be noticed; as, he bears sable, on a bend noticed argent, three cinquefoils. See plate LXII. fig. 1.

COTICULA, in natural history, a name given to a very hard kind of cos. See the article COS.

COTICULA is also sometimes used for the touch-stone. See the article TOUCH-STONE.

COTINUS, in botany, a genus of the pentandria-trigynia class of plants, the flower of which consists of five ovated petals, scarce larger than the cup; the fruit is an oval berry, with one cell containing a single triangular seed. See plate LIV. fig. 5. The whole plant is thought to be extremely drying and astringent; the wood is used in the southern parts of France to dye woollen cloth yellow; and the leaves are used by the tanners for preparing their leather. See the article SUMACH.

COTINUS, arbores, was also a name antiently used for the wild olive-tree. See the article OLEA.

COTON, or COTTON. See COTTON.

COTONASTER, in botany, the same with the crataegus with oblong serrated leaves. See the article CRATEGUS.

COTRONA, a town of the further Calabria, in the kingdom of Naples, situated on the Mediterranean, about fifteen miles south-east of St. Severino: east lon. 17° 40', and north latitude 38° 50'. It is the seat of a bishop.

COTTAGE a little house without lands belonging to it.

COTTON, in commerce, a soft downy matter found on the gossypium of botany. See GOSSYPIUM.

Cotton is separated from the seeds of the plant by a mill, and then spun and prepared for all sorts of fine works, as stockings, waistcoats, quilts, tapestry, curtains, &c. With it they likewise make muslin, and sometimes it is mixed with wool, sometimes with silk, and even with gold itself. The finest sort comes from Bengal and the coast of Curneandel. Cotton makes a very considerable article in commerce, and is distinguished into cotton-wool and cotton-thread. The first is brought mostly from Cyprus, St. John d'Acce, and Smyrna: the most esteemed is white, long, and soft. Those who buy it in bales should see that it has not been wet, moisture being very prejudicial to it. The price of the finest is usually from six to seven piastras the quintal of forty four ocos.

Of cotton thread, that of Damas, called cotton d'once, and that of Jerusalem, called bazas, are the most esteemed; as also that of the Antilles islands. It is to be chosen white, fine, very dry, and evenly spun. The other cotton-threads are the half bazas, the rames, the beledin, and gondevel; the payas and montuhir,
GNAPHALIUM

COT

[ 766 ]

tafri, the genequins, the baquins, the jofelaffars, of which there are two sorts. Those of India, known by the name of Tuttucorin, Java, Bengal, and Surat, are of four or five sorts, distinguished by the letters A, B, C, &c. They are sold in bags, with a deduction of one pound and a half on each of those of Tuttucorin, which are the dearest, and two pounds on each bag of the other sorts. For those of Fielebas, Smyrna, Aleppo, and Jerusalem, the deduction at Amsterdam is eight in the hundred for the tare, and two in the hundred for weight, and on the value one per cent. for prompt payment.

Cotton of Siam, is a kind of silky cotton in the Antilles, so called because the grain was brought from Siam. It is of extraordinary fineness, even surpassing silk in fineness. They make hole of it there preferable to silk ones, for their luftre and beauty. They fell from ten to twelve and fifteen crowns a pair, but there are very few made, unless for curiofity.

The manner of packing COTTON, as practiced in the Antilles. The bags are made of coarse cloth, of which they take three ells and a half each: the breadth is one ells three inches. When the bag has been well soaked in water, they hang it up, extending the mouth of it to crofs pieces of timber nailed to poles fixed in the ground seven or eight feet high. He who packs it goes into the bag, which is fix feet nine inches deep, or thereabouts, and presses down the cotton, which another hands him, with hands and feet; obferving to tread it equally every where, and putting in but little at a time. The best time of packing is in rainy moist weather, provided the cotton be under cover. The bag should contain from 300 to 320 pounds. The tare abated in the Antilles is three in the hundred. Cotton being imported applicable to a great variety of manufactures, it cannot be too much cultivated in our own plantations that will admit of it.

Cotton-wool, not of the British plantations, pays on importation 2s. d. the pound, and draws back 5s. d. Cotton yarn the pound, not of the East Indies, pays 4l. 6s. d. and draws back 4l. 2s. d.

Lavender COTTON, a name by which some call the fantolina of authors. See the article SANTOLINA.

Philofophic COTTON, a name given to the flowers of zinc, on account of their white colour, and refemblance to cotton.

Silk-COTTON, in botany, the same with the xylon of authors. See XYLON.

Cotton-weed, a name sometimes given to the gnaphalium, or cudweed, of the generality of authors. See the article GNAPHALIUM.

COTUS, in ichthyology, a genus of acanthopterygious fishes, distinguished by having fix offices, or little bones, in the branchiostegal membrane: add to this, that the head is prickly, and broader than the body of the fish.

To this genus belong the cottus, called gobio fluviatilis, in English the miller’s thumb, the quadricornis, scorpana, captharactus, and dracunculus. See the articles Gobio, Quadricornis, &c.

COTULA, in botany, a genus of the fyngeenefa-polygama-superflua class of plants, the compound flower of which is a little convex, and radiated: the hermaphrodite partial flowers stand on the disk, and are very numerous and tubulofe, with the limb divided into four or five segments: the flamina are four very small filaments; and the seeds, contained in the cup, are solitary, and of a trigonal or cordated figure. See plate LIII. fig. 4.

Cotula foetida, the flinking chamæmile of authors. See Chamæmile. Physicians ascribe to it all the virtues of caffor. See the article Castor.

Cotula, or COTYLA, in antiquity, a liquid measure among the Greeks, equal to the hemina of the Romans, containing half a fextary, or four acetubula: hence it appears that it contained ten ounces of wine, and nine of oil.

It is observed that the cotula was used as a dry measure as well as liquid one, from the authority of Thucydides, who in one place mentions two cotulae of wine, and in another two cotulae of bread.

COTURNIX, the Quail, in ornithology, a species of tetrao, with the line of the eye-brows white, said to be the left bird of the whole order of the gallinæ. See the article Gallinæ.

It is about the size of the fieldfare, and is esteemed at table.

COTUY,
COUCHANT, in heraldry, is understood of a lion, or other beast, when lying down, but with his head raised, which distinguishes the posture of couchant from dormant, wherein he is supposed quite stretched out and asleep. See plate LIV. fig. 2.

COUCHANT ET LEVANT, in law, see the article LEVANT.

COUCHE', in heraldry, denotes any thing lying along; thus, chevron couched, is a chevron lying sidewise, with the two ends on one side of the shield, which should properly rest on the base.

COUCHEr, in our old statutes, denotes a factor. See the article FACTOR.

COUCHING, among sportmen, denotes the dodging of a boar. See BOAR.

COUCHING of a cataract, in surgery, one of the two chief methods of curing a cataract, by couching with the needle. See the article CATARACT.

Under the article cataract, the internal and external remedies for the cure of that disorder, have been prescribed. Now when recourc'd must be had to couching, the method of treating it is as follows: having placed the patient in a convenient light and posture, let the other eye be covered to prevent its rolling: then let the superior eye-lid of that eye affected be lifted up, and the inferior one depressed: this done, strike the needle through the tunica conjunctiva, something less than one tenth of an inch from the cornea, even with the middle of the pupil, into the posterior chamber; and gently endeavour to depress the cataract with the flat surface of it. If after it is dislodged it rises again, it must again and again be pulled down. If it is membranous, after the discharge of the fluid, the pellicle must be the more broken and depressed. If it is uniformly fluid, or exceedingly elastic, they should not endanger an inflammation by a vain attempt to succeed.

Taylor has described a new method of couching the cataract by the needle: he securing the affected eye by a speculum oculi, and with a knife, bistory, or lancet, makes a longitudinal incision, through the membranes of the eye, to the vitreous humour, about half a line below the ordinary place: then he directs defiles a slender plano-convex needle into the eye, through the incision, with the convex part of it turned upwar'ds, to the inferior part of the crystalline humour; after which he gently elevates the point of the needle a little.
a little, till he perceives a faint resistance from the crystalline humour lying above it, and observes its motions through the pupil. When, from these signs, he knows that the apex of the needle is immediately under the capilla of the crystalline humour, he thrusts it downwards to the bottom, in order to divide the vitreous humour, and prepare a space for the reception of the crystalline humour, which is afterwards to be depressed. After this he withdraws about two lines of the needle, and introduces it into the inferior part of the coat of the crystalline humour, the situation of which he carefully observes, &c.

Heister remarks upon Taylor's treatise of couching, that it is swelled and oculated with frivolous cautions and circumstances; and that his method of operation is necessarily followed with excruciating pains, violent inflammations, and a fupputation of the eye, instead of recovering the patient's sight.

After couching, it is thought proper immediately to defend the eye with a compress dipid in some collyrium, secured by a bandkerchief, that the retina may not be injured by a too strong action of the light; and let, by the patient's training his eye too soon, the cataract be elevated again. It will also be convenient to bleed the patient a few hours after the operation. With regard to the subsequent dressings, it will be convenient to repeat the former four or five times a day.

The needles used in this operation are represented in plate LV. and marked 1, 2, 3, 4, 5, 6, 7, 8, 9. The speculum is marked io, and the method of performing the operation, may.

COVADINA, a town of Italy, in the venetian territories, upon the banks of the Livenza. It is called on account of its agreeable situation, the garden of the republic.

COVENANT, a compact or agreement, made between two or more persons, to perform something. A covenant is either in fact or in law. A covenant in fact, is that which is expressly agreed upon between the parties. In law, it is that covenant which the law intends and implies, though it be not expressed in terms; as where a person grants a lease of a house, &c. for a certain term, the law will intend a covenant on the lessor's part, that the lessee shall quietly enjoy the premises during the term against all incumbrances.

There is also a covenant real, and a covenant merely personal. A covenant real, is when a person binds himself to pass some real thing, as lands or tenements, or to levy a fine of lands, &c.

A covenant personal, is when the same is altogether personal; as if a person, by deed, covenants with another to build him a house, or to do him some other service, &c.

COVENANT to stand seized to use, is where a man who has a wife, children, brother, sister, or other kindred, does by deed in writing, under hand and seal, covenant and agree, that for their provision or preferment, he and his heirs shall stand seized of the land to their use, either in fee simple, fee tail, or for life.

COVENTRY, a city and bishop's see in Warwickshire, situated 80 miles northeast of London, and io miles north of Warwick: west long, 1° 26', and north lat. 52° 25'.

The city, and territory about it, makes a county of itself, and sends two members to parliament; and from it, the noble family of Coventry takes the title of earl.

COVENTRY-BELLS, in botany, a name sometimes used for the campanula. See the article CAMPANULA.

COVERDEN, a town of the united provinces, situated in that of Overijssel, near the confines of Westphalia: east long. 6° 45', and north lat. 52° 50'.

It is a strong fortress, as well by nature as by art, being situated in the marshes.

COVERED FLANK. See FLANK.

COVERED FOUNTAIN. See FOUNTAIN.

COVERED MEDAL. See MEDAL.

COVERING, or ROOFING, in architecture. See the article ROOF.

CO-VERSED SINE, in geometry; the remaining part of the diameter of a circle, after the vered line is taken from it. See the article VERSED SINE.

COVERT, in law, see COVERTURE.

COVERT WAY, or CORRIDOR, in fortification, a space of ground, level with the field, on the edge of the ditch, three or four fathoms broad, ranging quite round the half moons, and other works toward the country. It has a parapet raised on a level, together with its banquetts and glacis.

The greatest effect in sieges, is to make a lodgment on the covert-way, because the beleaguered usually palliate it along the middle, and undermine it on all sides.

COVERTURE, in law; is applied to the state and condition of a married woman, who
COUCHING INSTRUMENTS
who is under the power of her husband, and therefore called femme covert; and disabled to contract with any person to the detriment either of herself or husband, without his consent and privy; or allowance and confirmation thereof. If the husband alien the wife’s lands, during the marriage, the cannot gain any, while he lives; so that every thing belonging to the wife is in the power of the husband, inasmuch as she is said to have no power over her own person, but is also in that sense sub jussiva viri.

COUGH, tussis, in medicine, a convulsive motion of the diaphragm, muscles of the larynx, thorax, and abdomen, violently shaking, and expelling the air that was drawn into the lungs by inspiration. Of these convulsive and spasmic disorders there are several kinds, called coughs, proceeding from various causes. If the cause is in the lungs, there is a difficulty of breathing, which is increased upon motion, or agitation of the body; likewise there is often a shrill voice, a preffing pain in the breast, and a hoarseness. If it be dry, and continues long, there are generally hard tubercles, and mucus, full of matter, and the cough is confumptive: but if it be moist, and great plenty of viscid matter brought up, it is a sign there is a great collection of matter in the cavity of the lungs: in this disorder there is a difficulty of lying on the affected side, and pure matter, or matter mixed with blood, is brought up, which leaves no room to doubt that the lungs are affected.

Tussis stomachalis, or a stomach-cough, is sometimes moist, and sometimes dry; if moist, a thick and copious spittle is brought up after meals, generally with vomiting; the cough is more violent after pectorals and sweet things, and is most troublesome in a morning. In a convulsive or hooping-cough, that is violent and dry, the caufe is chiefly in the nervous coats of the stomach, and there is a violent concussion of the thorax, with a deep sound. This is greatly increased after cold drink, or acids. In this obstinate cough, the hypochondria generally are disordered, or there is a scorbutic, or a faint diathesis mixt with the blood; wherefore this cough is not unfrequently attended with a military fever. See the article Chin-cough.

If there is a thick coagulated mucus in the bronchia, the root of florentine-orris is proper to be taken: or five or six grains of powder of squills, with a little nitre, or precipitated sulphur, flowers of sulphur, and sperma ceti. When there is a thin salt defluxion, jellies are proper, and decoctions made with barley, flavings of hawthorn, viper-grass root, and liquorice: or the decoction of turpentine with sugar, and above all things oil of sweet almonds, fresh drawn. When a tussis catarrhalis affects the whole habit of body, with a loss of appetite, and a tabes, the cure must be attempted with affes-milk, or whey, or milk with equal parts of Seltzer water. In a moist, lafting, pituitous cough, the body must be kept open with manna, two ounces, at least, dissoved; to which may be added two drams of terra solita tartari, and a few drops of oil of aniseed. If the stomach will not bear laxatives, clysters must be used.

When the cough is outrageous, saffron, mixt with bezoardics is very friendly to the breast; nor are florax-pills, mixt with the aromatic pills, less beneficial. In the tussis ferina, or cough of the moist violent kind, arising from the stricking in of exanthemata, that is, spots or breakings out of the skin, skeyrops mineral is an admirable remedy; or flowers of sulphur taken inwardly, in the evening, with diaphoretic antimony: likewise fritings of the feet and pediluvia are more useful to draw humour from the breast than blisters. The patient should, as much as possible, breathe a temperate air, fluming all salted and smoke-dried meats, poigniant sauces, malt-liquors, and more especially acid wines. The drink should be hydromel, or, if the patient is scorbutic, water alone, the cold being first taken off with toasted bread. The vulgar, not without success, pour hot water upon wheat bran, and drink the infusion cold. As to bleeding in this diseafe, it is necessary for those who are full of blood. See the article COLD.

Blisters may be used in obstinate cases.

COVIN, among lawyers, a deceitful compact between two or more to deceive or prejudice another person. It is generally used in and about conveyances of land by fine, feoffment, &c., wherein it tends to defeat purchasers of the land they pur- chase, and creditors of their just debts. It is sometimes made use of in suits at law, and judgments therein had. But wherever covin is, it shall never be in- tended
tended unless it be particularly found by the jury.

COVING, in building, is when houses are built projecting over the ground-plot, and the turned projection arched with timber, lathed and plastered.

COVING corniche. See Corniche.

COUL, or COWL. See the article Cowl.

COULTER, in husbandry, an non-instru-

ment, fixed in the beam of a plough, and serving to cut the edge of each fur-
row. See the article PLOUGH.

COULTER-NEB, in ornithology, the name by which some call a species of duck, smaller than the common kind, and with the beak flatted on both sides.

COUNCIL, or COUNSEL, in a general sense, an assembly of divers considerable persons to concert measures relating to the state.

Aulic Council. See the article Aulic.

Cabinet Council. See the article Privy-
council, infra.

Common Council, in the city of London, is a court wherein are made all bye-laws which bind the citizens. It confids, like the parliament, of two houses, an upper, conposed of the lord mayor and alder-

men; and a lower, of a number of com-

mon-council-men chosen by the several wards, as representatives of the body of the citizens.

Privy Council, the primum mobile of the civil government of Great Britain, bearing part of that great weight in the go-

vernment which otherwise would be too heavy upon the king.

It is composed of eminent persons, the number of whom is at the sovereign's pleasure, who are bound by oath to ad-

vice the king to the best of their judg-

ment, with all the fidelity and secrecy that becomes their station. The king may declare to, or conceal from, his pri-

vy-council whatever he thinks fit, and has a select council out of their number commonly called the cabinet council, with whom his majesty determines such matters as are most important, and require the utmost secrecy. All proclamations from the king and the privy-council, ought to be grounded on law, otherwise they are not binding to the subject.

'Privy-councillors, tho' but gentlemen, have precedence of all the knights and younger sons of barons and viccounts, and are filled right honourable.

Council of war, an assembly of the prin-
cipal officers of an army or fleet, occa-

sionally called by the general or admiral to concert measures for their conduct with regard to sieges, retreats, engagements, &c.

In the French polity, councils are very numerous. They have their council of state, council of finances, council of dispatches, council of directions, grand council, council of the regency, council of conscience, &c.

Council, in church-history, an assembly of prelates and doctors met, for the re-

gulating matters relating to the doctrine, or discipline, of the church.

National Council, is an assembly of pre-

lates of a nation under their primate or patriarch. See Primate, &c.

Occasional or general Council, is an as-

sembly which represents the whole body of the universal church. The romanists reckon eighteen of them; Bullinger, in his treatise de Conciliis, fix; Dr. Pri-
deaux, seven; and bishop Beveridge has increased the number to eight, which, he says, are all the general councils which have ever been held since the time of the first christiant emperor. They are as follows. 1. The council of Nice, held in the reign of Conftantine the great, on account of the herefy of Arius. 2. The council of Conftantineople, called under the reign and by the command of Theodo-

fius the great, for much the same end that the former council was summoned. 3. The council of Ephefus, convened by Theodorus the younger, at the suit of Neftorius. 4. The council of Chal-
cedon, held in the reign of Martinus, which approved of the Eutychian herefy. 5. The second council of Conftantineople, assembled by the emperor Justinian, con-
demned the three chapters taken out of the books of Theodorus of Mopfuefia, having first decided that it was lawful to anathematize the dead. Some authors tell us, that they likewise condemned the several errors of Origen about the trinity, the plurality of worlds, and the pre-exis-
tence of souls. 6. The third council of Conftantineople, held by the command of Conftantine Pogonatus the emperor, in which they received the definitions of the five first general councils, and par-
ticularly that against Origen and Theo-
dorus of Mopfuefia. 7. The second Nicene council. 8. The fourth coun-

cil of Conftantineople, assembled when Lewis II. was emperor of the west. The regulations which they made are contain-
ed
COUNTER, a term which enters into the composition of divers words of our language, and generally implies opposition; but when applied to deeds, means an exact copy kept by the contrary party, and sometimes signed by both parties.

COUNTER ALLEY, in gardening. See the article ALLEY.

COUNTER APPROACHES, in fortification, lines and trenches made by the besieged in order to attack the works of the besiegers, or to hinder their approaches.

Line of COUNTER APPROACH, a trench which the besieged make from their covered way to the right and left of the attacks, in order to scour the enemies works. This line must be perfectly enfiladed from the covered way and the half moon, that it may be of no service to the enemy, in case he get possession of it.

COUNTER-BARRY, or CONTRE-BARRE', in heraldry, is the same as our bendy sinister per bend counterchanged. See the article BARRY.

COUNTER BATTERY, is a battery raised to play upon another to dismount the guns. See the article BATTERY.

COUNTER BOND, a bond of indemnification given to one who has given his bond as a security for another's payment of a debt, or the faithful discharge of his office or trust.

COUNTER BREAST-WORK, in fortification. See Fausse-Braye.

COUNTER CHANGED, in heraldry, is when any field or charge is divided or parted by any line or lines of partition, confiding all interchangeably of the same tinctures. See plate LXII. fig. 2. n°. 2.

COUNTER CHARGE, a reciprocal charge or recrimination brought against an accuser.

COUNTER-CHEVRONED, a shield chevrony, parted by one or more partition lines.

COUNTER-COMPONED, in heraldry, is when the figure is compounded of two panes, as in plate LXII. fig. 2. n°. 2.

COUNTER DEED, a secret writing either before a notary or under a private seal, which defroys, invalidates, or alters a public one.

COUNTER-DRAWING, in painting, is the copying a design, or painting, by means of a fine linnen-cloth, an oiled paper, or other transparent matter, where the strokes appearing through are followed with a pencil with or without colour. Sometimes it is done on glass, and with frames or nets divided into squares with

COUNTER, in law, signifies another. Thus we say, a counsellor advises another. Thus we say, a counsellor at law, a privy counsellor, &c.

COUNT, comes, a nobleman who possesses a domain erected into a county. The dignity is a medium between that of a duke and a baron. See EARL.

Counts were originally lords of the court, or of the emperor's retinue, and had their name comites a comitudo. Eusebius tells us, that Constantine divided them into three classes, of the two first the senate was composed: those of the third had no place in the senate, but enjoyed several other privileges of senators. There were counts that served on land, others at sea; some in a civil, and some in a legal capacity. The quality of count is now no more than a title which a king grants upon erecting a territory into a county, with a reserve of jurisdiction and sovereignty to himself. A count has a right to bear on his arms a coronet adorned with three precious stones, and surmounted with three large pearls, whereof these in the middle and extremities of the coronet advance above the rest. See CROWN.

COUNT, in law, signifies the original declaration of complaint in a real action, as a declaration is in a personal one.

COUNT-WHEEL, in the striking part of a clock, a wheel which moves round once in twelve or twenty-four hours. It is sometimes called the locking wheel. See the article CLOCK.
COUNTER, or with thread, and also by means of instruments invented for the purpose, as the parallelogram.

COUNTER-ERINE, in heraldry, is the contrary to ermine, being a black field with white spots. See plate LXII. fig. 2. no. 3.

COUNTERFEIT ARCHITECTURE. See the article ARCHITECTURE.

COUNTERFEITS, in our law, are persons that obtain any money or goods by counterfeit letters or false tokens, who being convicted before justices of assize or of the peace, &c. are to suffer such punishment as shall be thought fit to be inflicted under death, as imprisonment, pillory, &c.

COUNTER-FISSURE. See the article CONTRAFISSURE.

COUNTER-FACED, or CONTRE-FACE, in heraldry, is the same that we call barry per pale counterchanged; but then the number of panels into which the field is divided, is always specified. See the article BARRY.

COUNTER-FOIL, or COUNTER-STORE, in the exchequer, that part of a tally which is kept by an officer of the court. See the article TALLY.

COUNTER-FORTS, spurs or buttresses serving as props to a wall subject to bulge or be thrown down.

COUNTER-FUGUE, in music, is when the fugues go contrary to one another. See the article FUGUE.

COUNTER-GAGE, in carpentry, a method used in measuring the joints. For example, they transfer the breadth of a mortise to the place in the timber where the tenon is to be, in order to make them fit each other.

COUNTER-GUARD, in fortification, is a work raised before the point of a bastion, consisting of two long faces parallel to the faces of the bastion, making a fallant angle: they are sometimes of other shapes, or otherwise situated. See the article ENVELOPE.

COUNTER-HARMONICAL. See the article CONTRA-HARMONICAL.

COUNTER-INDICATION. See the article CONTRA-INDICATION.

COUNTER-LIGHT, or CONTRE-JOUR, a light opposite to any thing, which makes it appear to disadvantage. A single counter-light is sufficient to take away all the beauty of a fine painting.

COUNTERMARCH, in military affairs, a change of the face or wings of a battalion, by which means those that were in the front come to be in the rear. It also signifies returning, or marching back again.

COUNTER-MARK, a mark put upon goods that have been marked before. It is also used for the several marks put upon goods belonging to several persons, to shew that they must not be opened but in the presence of them all or their agents.

In goldsmiths works, the counter-mark is the mark punched upon the work at the hall, to shew that the metal is standard. With horse-jockies, the counter-mark is an artful hole made in the teeth of old horses, to make them pull for horses of five years old. Counter-mark of a medal, is a mark added to it a long time after its being struck. It is sometimes an emperor's head, sometimes a cornucopia, &c. Counter-marks are distinguished from the monograms in this, that being struck after the medal, they are indented; whereas the monograms being struck at the same time with the medals, have a little relievo.

COUNTER-MINE, in war, a well and gallery drove and sunk till it meet the enemy's mine, to prevent its effect.

COUNTER-MURE, a wall built close to another, that it may not receive any damage from the contiguous buildings.

COUNTER-MURE, in fortification. See the article CONTRA-MURE.

COUNTER-PALED, contre-pale, in heraldry, is when the escutcheon, is divided into twelve pales parted per selle, the two colours being counterchanged; so that the upper are of one colour, and the lower of another.

COUNTERPART, in music, denotes one part to be applied to another. Thus the bass is said to be a counterpart to the treble. In law, it is the duplicate or copy of any indenture or deed.

COUNTER-PASSANT, is when two lions are in a coat of arms, and the one seems to go quite the contrary way from the other.
COUNTER-PLEA, in law, a cross or contrary plea, particularly such as the demandant alleges against a tenant in courtely or dower, who prays the king's aid, &c. for his defence.

COUNTER-POINT, in music, the art of composing harmony, or of disposing several parts in such a manner as to make an agreeable whole or a concert. In general, every harmonious composition, or composition of many parts, is called counter-point. It took its name from hence: to be ured in the accented parts of the

COUNTER-POINTED, contre-pointé, in heraldry, is when two chevrons in one escutcheon meet in the points, the one rising as usual from the base, and the other inverted falling from the chief; so that they are counter to one another in the points. They may also be counter-pointed when they are founded upon the sides of the shield, and the points meet that way, called counterpointed in rele.

COUNTER-POISE, in the manage, is the liberty of the action and seat of a horseman; so that in all the motions made by the horse, he does not incline his body more

that were harmony in the preceding fifth must be continued on the fourth; thirds and fifths may follow one another, as often as one has a mind.

Figurative counterpoint is of two kinds. In one, discords are introduced occasionally as passing notes, serving only as transitions from concord to concord: in the other, the discord bears a chief part in the harmony. See Discord.

For the first, nothing but discords are to be used in the accented parts of the measure: in the unaccented parts, discords may pass without any offence to the ear. This is called by most authors supposition. See Supposition.

For the second, in which the discords are used as a solid and substantial part of the harmony, the discords that have place are the fifth, when joined with the sixth, to which it stands in relation of a discord; the fourth, when joined with the fifth; the ninth, which is the effect of the second and seventh, and the second and fourth. These discords are introduced into harmony with due preparation, and are to be succeeded by concords, which is called the resolution of discords. Now to introduce discords into harmony, it must be considered what concord may serve for their preparation and resolution. The fifth then may be prepared either by an octave, fifth, or third, and resolved either by third or sixth. The fourth may be prepared in all concords, and may be resolved into the sixth, third, or octave. The ninth may be prepared in all concords except an octave, and may be resolved into third, sixth, and octave. The seventh may be prepared in all concords, and resolved into third, sixth, or fifth. The second and fourth are used very differently from the rest, being prepared and resolved into the bass. See Harmony, Concord, Discord, Key, Clef, Modulation, &c.

COUNTER-POINTED, contre-pointé, in heraldry, is when two chevrons in one escutcheon meet in the points, the one rising as usual from the base, and the other inverted falling from the chief; so that they are counter to one another in the points. They may also be counter-pointed when they are founded upon the sides of the shield, and the points meet that way, called counterpointed in rele.
COUNTERPOISE is also a piece of meat called by some the pear, on account of its figure, and the maus, by reason of its weight, which sliding along the beam, determines the weight of bodies weighed by the slatera romana. See the article Bal lance.

COUNTER-POISON, an antidote or medicine which prevents the effects of poison. See the article Poison.

COUNTER-POTENT, contre-potence, in heraldry, is reckoned a fur as well as vair and ermine, but composed of such pieces as represent the tops of crutches, called in french potences, and in old English potent.

COUNTER-PROOF, in rolling-pres printing, a print taken off from another fresh printed; which by being passed thro' the press, gives the figure of the former, but inverted. To counter-prove, is also to pass a design in black-lead, or red-chalk, through the press, after having moistened with a spunge both that and the paper on which the counter-proof is to be taken.

COUNTER-QUARTERED, contre-ec. rtel, in heraldry, denotes the escutcheon, after being quartered, to have each quarter again divided into two.

COUNTER-ROLLS, are the rolls that sheriffs of counties have with the coroners of their proceedings, as well of appeals as of inquests.

COUNTER-ROUND, a body of officers going to inspect the rounds.

COUNTER-SALIENT, is when two beasts are borne in a coat leaping from each other directly the contrary way.

COUNTER-SCARP, in fortification, is properly the exterior talus or flop of the ditch; but it is often taken for the covered way and the glacis. In this sense weakly, the enemy have lodged themselves on the counter-scarp.

Angle of the COUNTER-SCARP, is that made by the two sides of the counter-scarp meeting before the middle of the curtin.

COUNTER-SIGNING, the signing the writing of a superior in quality of secretary. Thus charters are signed by the king, and counter-signed by a secretary of state or lord chancellor.

COUNTER-SWALLOW-TAIL, in fortification, an out-work in form of a single tenaille, wider at the gorge than the head.

COUNTER-TALLY, one of the two tallies upon which any thing is scored.

COUNTER-TEAR, called by the French beau-contre, one of the middle parts of music opposite to the tenor. See the article Tenor.

COUNTER-TIME, in the military art, is the defence or refistance of a horse that interrupts his cadence, and the measure of his manage, occasioned either by a bad horseman, or by the malice of the horse. See CONTRA-APP.ROACHES.

COUNTER-TRENSH, in fortification. See the article COUNTER-APPROACHES.

COUNTER-TIPPING, is when two beasts are borne in a coat in a walking posture, the head of the one being next the tail of the other.

COUNTER-VALLATION, in the military art, a ditch made round a besieged place, to prevent the garrison from making fallies. See CONTRAVALLATION.

COUNTER-WORKING, the raising of works to oppose those of the enemy.

COUNTER is also the name of a counting-board in a shop, and of a piece of metal with a stamp on it, used in playing at cards.

COUNTER of a horse, that part of a horse's forehead which lies between the houlders and under the neck.

COUNTERS IN A SHIP, are two. 1. The hollow arching from the gallery to the lower part of the straight piece of the stern, is called the upper counter. 2. The lower counter is between the tranmion and the lower part of the gallery.

COUNTER is also the name of two prisons in the city of London, viz. the Poultry and Woodstreet.

COUNTERS, such sergeants at law as a person retains to defend his cause, and speak for him in any court for their fees; being antiently called sirjeants-counters.

COUNTING, or ACCOUNTING. See the article Accounting.

COUNTRY, among geographers, is used indifferently to denote either a kingdom, province, or lefter district. But its most frequent use is in contradistinction to town: thus it is said, that such a man went down into the country. Among miners, the term countries is an appellation given to works under ground. See the article Mine.

COUNTRY-WAKE. See WAKE.

COUNTY, in geography, originally signified the territory of a count or earl, but now it is used in the same sense with shire. See the article SHIRE.

England.
England, for the better government there-of, and the more early administration of justice, is divided into fifty-two counties, each whereof is subdivided into rapes, lathes, wapentakes, hundreds; and these again into tythings. For the execution of the laws in the several counties, excepting Cumberland, Westmoreland, and Durham, every Michaelmas term officers are appointed, called sheriffs: other officers of the several counties are lord-lieutenants, custodes rotulorum, justices of the peace, bailiffs, high constables, coroner, clerks of the market, &c.

Of the fifty-two counties in England and Wales, there are four termed counties-palatine, viz. Lancaster, Chester, Durham, and Ely: these counties are reckoned among the superior courts, and are privileged as to pleas, so that no inhabitant of such counties shall be compelled by any writ to appear, or answer the same, except for error, and in cases of treason, &c.

The counties-palatine of Durham and Chester are by prescription, where the king's writs ought not to come, but under the seal of the counties-palatine, unless it be a writ of proclamation. There is a court of chancery in the counties-palatine of Lancaster and Durham, over which there are chancellor. See the article CHANCELOR.

Scotland is divided into thirty-three counties, the government of which is committed to sheriffs. See SHERIFF.

COUNTY-CORPORATE, a title given to several cities on which the English monarchs have thought proper to bestow extraordinary privileges, annexing to them a particular territory of land, or jurisdiction, as the county of Middlefex annexed to the city of London, the county of the city of York, the county of the city of Bristol, &c.

COUNTY-COURT, a court of justice, held every month in each county, by the sheriff or his deputy. See COURT.

This court has the determination of debts and trespasses under forty shillings.

COUP DE BRIDE, in the manage, the same with ebrillade. See EBRILLADE.

COUP DE GRACE, in music, the same with the tronco per grazia of the Italians. See the article TRONCO.

COUPED, coupé, in heraldry, is used to express the head, or any limb, of an animal, cut off from the trunk, smooth; distinguishing it from that which is called eraffed, that is, forcibly torn off, and therefore is ragged and uneven.

COUPERED is also used to signify such crostes, bars, bends, chevrons, &c. as do not touch the sides of the escutcheon, but are, as it were, cut off from them.

COUPER, COOPER or COOPER, the name of two towns of Scotland, the one situated about twelve miles north-east of Perth, in the shire of Angus, west long. 2° 30', and north lat. 56° 30'; and the other in the county of Fife, about ten miles west of St. Andrews: west long. 2° 40', and north lat. 56° 20'.

COUPLE-CROSS, in heraldry, the fourth part of a chevron, never borne but in pairs, except there be a chevron between them, faith Guillim, though Bloom gives an instance to the contrary.

COUPLETS, a division of a line, ode, song, &c. wherein an equal number, or equal measure, of verses is found in each part; which division, in odes, are called strophes. See the article STROPHÉ.

Couplet, by an abuse of the word, is frequently made to signify a couple of verses.

COURANT, or CURRANT, in a general sense, expresses the present time, as we say, the year 1754, is the current year; the 20th day of this current month, that is, this present year and month.

COURANT, in a commercial sense, any thing that has a course, or is received in commerce; as the courant coin, &c. allo the ordinary and known price of goods, &c. in which labour we say, the price courant.

COURANT, in music and dancing, is used to express the air and tune, and the dance to it.

With regard to music, courant is a piece of musical composition in a triple time, and is ordinarily noted in the triple of minimis, the parts to be repeated twice. It begins and ends when he, who beats the measure, falls his hand with a small note before the beat; in contradistinction from the faraband, which ordinarily ends when the hand is raised.

With regard to dancing, it consists of a time, a step, a balance, and a coupé; admitting also of other motions.

COURBARIL, in botany, the same with the hymenæa. See HYMENÆA.

COURIER, a messenger sent post, or express, to carry dispatches. See Post.

Couriers are distinguished into four kinds, viz. those on horseback, those in chariots, those in boats, and those on foot; which
which last kind is used in Italy, Turkey, and Peru: they were called by the Greeks hemerodromi: several of the ancient writers mention, that some of these would go thirty, thirty-six, and, in the circus, even forty leagues a day; but it does not appear, that either the Greeks or Romans had any regular couriers till the time of Augustus.

COURLAND, a dutchy situated between 21° and 26° of east longitude, and between 56° 30', and 57° 30' north latitude. It is bounded by the river Dwina, which divides it from Livonia, on the north; by Lithuanis, on the east; by Samogitia, on the south; and by the Baltic sea, on the west; being 130 miles long, and 50 broad.

It is usually reckoned a part of Poland; but, it is to be observed, that the Courlanders not only elect their own princes, but are governed by their own laws. Its Capital is Miftau.

COURSE, in navigation, that point of the compass, or horizon, on which the ship sails: or the angle between the horizon and the meridian. See the articles SAILING, RUMB, and MERIDIAN.

COURSE, in architecture, a continued range of stones, level, or of the same height throughout the whole length of the building, without being interrupted by any apperture.

COURSE of plinths, the continuance of a plinth of stone, or plaine, in the face of a building, to mark the separation of the stones.

COURSES, in a ship, the main-fail and foresail: when the ship falls under them only, without lacing on any bonnets, she is then said to go under a pair of courfes. To fail under a main course and bonnets, is to fail under a main-fail and bonnet.

COURSE is used for a collection or body of laws, canons, or the like. As, the civil course is the collection of the roman law compiled by order of Justinian: canonical course, the collection of the canons law, made by Gratian. See the articles CIVIL-LAW and CANON-LAW.

COURSE is also made to express the elements of an art, explained either by experiment or writing.

COURSE is also applied for the time spent in learning the elements of a science; as a student is said to go through his courses of philosophy, divinity, mathematics, &c. at the university.

COURSE of the moon. See MOON.

Complement of the Course. —See the article COMPLEMENT.

COURSE of a river. See RIVER.

COURSING, among sportsmen, is of three sorts, viz. at the deer, at the hare, and at the fox. These courings are with greyhounds; for the deer there are two sorts of courings, the one with the pad-dock, the other, either in the forest, or pursieu. See the article PADDOCK, &c. In courting the hare, the best way is to find one fitting, and when she is first started, to give her ground, or law, which is generally twelve-score yards. In courting a fox, you are to stand close, and on a clear wind.

COURT, curia, in a law sense, the place where judges distribute justice, or exercise jurisdiction: also the assembly of judges, jury, &c. in that place.

Courts are divided into superior and inferior, and into courts of record and base courts: again, courts are either such as are held in the king's name, as all the ordinary courts, or where the precepts are issued in the name of the judge, as the admiral's court.

The superior courts are those of the king's-bench, the common-pleas, the exchequer, and the court of chancery. See KING'S-BENCH, COMMON-PLEAS, EXCHEQUER, and CHANCERY.

A court of record, is that which has a power to hold plea, according to the course of the common law, of real, personal, and mixt actions; where the debt or damage is forty shillings, or above, as the court of king's-bench, &c.

A base court, or a court not of record, is where it cannot hold plea of debt, or damage, amounting to forty shillings, or where the proceedings are not according to the course of the common law, nor enrolled; such as the county-court, courts of hundreds, court-baron, &c.

The rolls of the superior courts of record are of such authority, as not to admit of any proof against them, they being only triable by themselves; but the proceedings of base courts may be denied, and tried by a jury. Some of the courts may fine, but not imprison a person, such as the leet; and some can neither fine nor inflict punishment, and can only amerce, as the county-court, court-baron, &c. But the courts of record at Westminster-hall, have power to fine, imprison, and amerce; and in those courts the plaintiff need not shew, in his
declaration, that the cause of action arises within their jurisdiction, being general; though, in inferior courts, it must be shewed at large, on account they have particular jurisdictions.

COURT of admiralty. See Admiralty-Court.

COURT of arches. See Archers-court.

COURT of attachment. See the article Attachment.

COURT of augmentation. See the article Augmentation.

COURT-BARON, a court that every lord of a manor has within his own precincts. This court must be held by prescription, and is of two kinds, viz. by common law, and by custom: the former is where the barons or freeholders, being suitors, are the judges: the other is, that where the lord, or his steward, is the judge.

COURT of chevalry, or the marshall’s COURT, that whereof the judges are the lord high constable, and the earl marshal of England.

This court is the fountain of martial law, and the earl marshal is not only one of the judges, but is to see execution done. See the article Chivalry.

COURT of conciliation, a court in the cities of London, Westminster, and some other places, that determines matters in all cases, where the debt or damage is under forty shillings.

COURT of delegates, a court where delegates are appointed by the king’s commission, under the great seal, upon an appeal to him from the sentence of an archbishop, &c. in ecclesiastical causes; or of the court of admiralty, in any marine cause.

COURT of h u f f i n g s, a court of record held at Guildhall, for the city of London, before the lord mayor and aldermen, sheriffs and recorder, where all pleas, real, personal, and mixt, are determined; where all lands, tenements, &c. within the said city, or its bounds, are pleadable in two h u f f i n g s; the one called the h u f f i n g s of p e a a of lands, and the other the h u f f i n g s of common pleas. The court of h u f f i n g s is the highest court within the city, in which writs of exigent may be taken out, and out-laveries awarded, wherein judgment is given by the recorder. To the lord mayor and city of London belong several other courts, as the court of common-council, consisting of two houses, the one for the lord mayor and aldermen, and the other for the commoners; in which court are made all by-laws which bind the citizens. The chamberlain’s court relates to the rents and revenues of the city, to the affairs of servants, &c. See Chamberlain.

To the lord mayor belongs the court of coroner and escheator; another court for the confirmation of the river of Thames; another of goal delivery, held eight times a year at the Old Bailey, for the trial of criminals, where the lord mayor himself is the chief judge.

There are also other courts called ward-motes, or meeting of the wards; and courts of holyment, or assemblies of the guilds and fraternities.

COURT-LEFT, a court ordained for the punishment of offences under high treason against the crown.

COURT-MARTIAL, a court appointed for the punishing offences in officers, soldiers, and sailors, the powers of which is regulated by the mutiny-bill.

COURT of piepowders. See Piepowders.

COURT of request, was a court of equity, of the same nature with the chancery, but inferior to it. It was chiefly instituted for the relief of such petitioners as in fashionable cafes addressed themselves to his majesty: the lord privy-seal was the chief judge of this court.

COURT of the lord-ward of the king’s house. See the article Steward.

COURT of the star-chamber. See the article Star-Chamber.

COURT of the university. See University.

Bishop’s Court. See Bishops.

Christian Court. See Christian.

County Court. See County.

Dutchy Court. See Dutch.

Honour Court. See Honour.

Lawless Court. See Lawless.

Prerogative Court. See Prerogative.

COURT is also an appendage to a house or habitation, consisting of a piece of ground, enclosed with walls, but open at top. The court before the house is called the fore-court, and that behind, the back-court.

COURT is also used for the palace or place where a king or sovereign prince resides. See Curtin.

COURTAIN, or Curtin. See the article Curtin.

COURTENAI, a town of the isle of France, about fifty-five miles south-east of Paris: east long. 3°, and north lat. 48°.

COURTESY, or Courtesy of England, a certain tenure whereby a man marrying an heiress seized of lands of fee simple, or fee tail general, or feized as heir of
the tail special, and get thee a child by her that cometh alive into the world, tho' both it and his wife die forthwith; yet if the were in pollution, he shall keep the land during his life, and is called _tenant per legem Angliae_, or tenant by the curiosity of England; because this privilege is not allowed in any country except Scotland, where it is called _curialitas Scotiae_.

COURTISAN, a woman who prostitutes herself for hire, especially to people of superior rank.

The Venetians, who had expelled the cortisans their city, were obliged to recall them, to provide for the security of women of honour, and to prevent the nobles from meddling too much in affairs of state.

COURTRAY, a town of the Austrian Netherlands, situated on the river Lys, about twenty-three miles south-west of Ghent, and fourteen east of Ypres: easterly. 3° 10', and north lat. 50° 48'.

COUSIN, a term of relation between the children of brothers and sisters, who in the first generation are called cousin-germans, in the second generation, second cousins, &c.

COUSINAGE, or _Cosenage_. See the article COUSINAGE.

COUSSINET, in architecture, the stone that crowns a pedastal, or pier, the under side of which is level, and the upper curved to receive the first spring of an arch or vault. It is also the face on the side of the volutes in the ionic capital, which the French artists call balustre and oreiller.

COUSU, in heraldry, signifies a piece of another colour or metal placed on the ordinary, as if it were sewed on, as the word imports. This is generally of colour upon colour, or metal upon metal, contrary to the general rule of heraldry.

COUTANCES, a port-town and bishop's see in Normandy, in France, about one hundred miles west of Rouen: west long. 1° 32', and north lat. 49° 16'.

COUTRAS, a town of Guienne, in France, about twenty miles north-east of Bourdeaux: west long. 16', and north lat. 44° 5'.

COVERT, in heraldry, denotes something like a piece of hanging, or a pavilion falling over the top of a chief or other ordinary, so as not to hide but only to be a covering to it.

COW, in zoology, the female of the ox-kind. See the articles Bos and Ox.

The marks of a good cow, according to some, are these: the forehead should be broad, the eyes black, the horns large and clean, and the neck long and straight. The belly also should be large and deep, the thighs thick, the legs round, with short joints, and the feet broad and thick. As to colour, the red cow is said to give the best milk, and the black to bring forth the best calves; but the cow that gives milk longest, is the most beneficial both for breeding and profit; and the most proper time to calve in, is March or April. Before calving, she should be put into good pasture, or, if it happen in winter, should be well fed with hay; and the day and night after she has calved, her drink should be a little warmed. See the articles Calf, Milk, Butter, Cheese, &c.

Sea-Cow, in zoology, the same with the manat. See the article Manat.

COW-ITCH, in botany, the English name of the hairy phaseolus. See Phaseolus.

COW'S LIP, _primula veris_, in botany. See the article Primula.

COW'S LIP OF JERUSALEM, the same with the pulmonaria of authors. See the article Pulmonaria.

French Cow's lip, a name given to the auricula of botanists. See Auricula.

COWALE, a town of Poland, upon the Vistula.

COWARD, in heraldry, a term given to a lion borne in an escutcheon with his tail doubled, or turned in between his legs.

COWES, a town and harbour on the northern coast of the Isle of Wight, situated about eight miles south of Plymouth: west long. 1° 24', and north lat. 50° 45'.

COWL, or COUL, a habit worn by the bernardines and benedictines, of which
there are two kinds, one white, very large, worn in ceremonies; the other black, worn on ordinary occasions in the streets, &c. The author of the apology of the emperor Henry IV. distinguishes two forms of cowls, the one a gown reaching to the feet, having sleeves and a capuchin; the other a kind of hood to work in, called a scapulary, because it only covers the head and shoulders.

Frier's Cowl, in botany, the same with the arifarum. See Arisarum.

COWPER, or CouPER, in geography. See the article CouPER.

COWRING, in falconry, a term used when a young hawk quivers and flakles her wings in token of obedience to the old ones.

COXÆ, ossa, in anatomy, called alfo osa innominata. See INNOMINATA.

COXENDIX, in anatomy, a general term for the hip. See the article Hip.

COXSWAIN, or CockSWAIN, in the sea-language. See CockSWAIN.

COXWOLD, a market-town in the north riding of Yorkshire, about fourteen miles north of the city of York: west long. 50°, and north lat. 54° 20'.

COYOLCOZQUE, in ornithology, a species of coturnix, or quail, frequent in New Spain.

COZCACOAUHTLI, a Mexican bird of the engle-kind, described by authors.

COZUMEL, an island near the western coast of Yucatan, where Cortez landed and refreighted his troops, before entering upon the conquest of Mexico: west long. 85°, and north lat. 15°.

CUILAQUIL, a very large species of parrot, all over green. See Parrot.

CRAB, in zoology, the englifh name of the short-tailed squillie, more usually called cancers, or canceri. See the articles Cancer and Squilla.

Crab's claws, chela cancrorum, in the materia medica, are the tips of the claws of the common crab broken off at the verge of the black part, so much of the extremity of the claws only being allowed to be used in medicine as is tinged with this colour. The blackness however is only superficial: they are of a greyish white within, and when levigated, furnish a tolerably white powder.

Crab's claws are of the number of the alkaline absorbents, but they are superior to the generality of them in ions degree, as they are found on a chemical analysis to contain a volatile liminous frit. They are always kept in the shops levigated to a fine powder, and are sometimes prescribed singly, tho' rarely, because of the want of the beautiful white colour of some of the others. They are the base however, of the famous gascoign-powder, the lapis contrayerva, and many other of the compound medicinal powders.

Crab's eyes, oculi cancrorum, in phasacy, are a strong concretion in the hea of the cray-fish. They are rounded c one side, and deprefed and flattened o the other, considerably heavy, moderate hard, and without smell. We have ther from Holland, Maliczov, Poland, Denmark, Sweden, and many other place found of them probably taken out of tll heads of the animals, but the rar great part picked up on the shores of the Ba tic, and of other seas and large river. They pay 5 days. the pound on impoA tion, and draw back 8 days. on expor tation.

Crab's eyes are much used both in the shop-medicines and extemporaneous preAcriptions, being accounted not only at forbeft and drying, but alfo diffusive and a diuretic. Fictitious and adulterated crab eyes are sometimes sold by impostors who prepare them of tobacoo-pipe clay but the fraud is easily detected, because they want the lamellated contexture of the others, which is discovered in ca mining them, and are heavier than tho' of the genuine kind.

Crab, an engine of wood, with three claw placed on the ground like a capitan, or ufed at launching or heaving ships in the dock. See plate LVIII. fig. 2.

CRABBING, in falconry, is when hawl stand too near and fight with each other.

CRABRO, the HORNET, in zoology, makes a species of apis. See the article Apis and Hornet.

CRACCA, in botany, a name ufed by Rivinus for a kind of vicia, or vetch. See the article Vicia.

CRACCÆ SPECIES, the name by which Rivinus calls the gizer, or chick-pea. See the article Cicer.

CRACK, or CLEFT. See CLEFT.

CRACKER, in ornithology, the englifh name of a species of duck, called also th sea-pheant, and the anas caudacut. See the article Anas. It is about the size of the common wigeon.

CRACOW, by some accounted the capital city of Poland, is situated in the provin of little Poland, and palatinate of Craco, is a fine plain near the banks of the Vistul.
CRA [ 780 ] CRA

It has an university, and is the see of a bishop, and the seat of the supreme courts of justice: it stands about 140 miles south-west of Warsaw, in 19° 30' of east long. and 50' north lat.

CRADLE, a well-known machine in which infants are rocked to sleep. It denotes also that part of the flock of a crook bow where the bullet is put.

CRADLE, in surgery, a table in which a broken leg is laid after being set.

CRADLE, among shipwrights, a timber frame made along the outside of a ship by the bilge, for the convenience of launching her with ease and safety. See plate LXIII. fig. 3.

CRANK, in the sea-language, signifies all manner of nets, lines, hooks, &c. used in fishing. Hence all such little vessels as ketches, hoy, and smacks, &c. used in the fishing trade, are called small craft.

CRAIL, or CAREIL, a parliament-town of Scotland, situated on the sea-coast of the county of Fife, about seven miles south-east of St. Andrews: west long. 2° 20', and north lat. 56° 17'.

CRAMASPARAGUS, the name with aparagus. See the article ASPARAGUS.

CRAMBE, wild sea-cabbage, in botany, a genus of the tetradynamia-filgouia class of plants, the flower of which is tetrapetalous and cruciform: the fruit is a roundish capsule, with one cell and two valves, containing a single roundish seed. This plant is used as an aliment like other cabbage, when very young, but is esteemed more hot and dry. Dale tells us, the leaves heal wounds, and diffus inflammations and other tumours.

CRAMP, in medicine, a convulsive contraction of a muscular part of the body, being either natural, as in convulsive convulsions, or accidental, from living in cold places, under ground, &c. It affects all parts indiscriminately, but the hum, calves, feet and toes, oftener than the arms and hands: it is seldom mortal, tho' its returns are often, quick, and continual long, with great pain and diltenion of some parts, as appears from the knots and ganglions it occasions. If it be natural, observe the cure as in an epilepsy or convulsions: if accidental, it is removed by rubbing the part affected.

CRAMP-FISH, the english name of the torpedo. See the article TORPEDO.

CRAMP-IRON, or CRAMPS, a piece of iron bent at each end, which serves to fasten together pieces of wood, stones, or other things.

CRAMPER, in ichthyology, the same with the brama ferox. See BRAMA.

CRAMPONE'E, in heraldry, an epitet given to a crook which has at each end a cramp or square piece coming from it; that from the arm in chief towards the sinister angle, that from the arm on that side downwards, that from the arm in base towards the dexter side, and that from the dexter arm upwards. See plate LXII. fig. 3.

CRAPPOONS, pieces of iron hooked at the ends for the pulling up of timber, stones, &c.

CRANAGE, the liberty of using a crane at a wharf, and also the money paid for drawing up wares out of a ship, &c. with a crane. See the article CRANE.

CRANE, in ornithology, the English name of the grus. See the article GRUS.

In plate LXI. are represented two tall and flatly crowned African cranes, which, when their heads are raised, seem more than a yard in height.

CRANE, in mechanics, a machine used in building and commerce for raising large stones and other weights.

A crane is an instrument of such general use, that we cannot avoid giving its description at large. It is of two kinds, in the first, only the gibbet moves upon the axis; and in the second kind, called the rat-tailed crane, the whole crane with its load turns upon a strong axis.

The first sort of crane is represented plate LVII. fig. 1, seen in profile. LB ED, is a section of that part of the wharf on which it is fixed, LB being the horizontal line. AC is a strong horizontal piece of timber making the upper part of the crane, into which are framed the three upright pieces X, Y, Z, with its cill IE, and braces HI and I E. To the above-mentioned horizontal piece is fastened, with strong iron pins, a short piece PP, having a bell-metal collar to receive the iron pivot of the upright shaft RF, which is an axis in peritrochio, whose lower end is also of iron, turning in another bell-metal collar let into the firm piece of wood F. This upright wooden axle with its bars e, f, b, called the captane of the crane, and the rope R r r, which goes first over the pulley T, then between the pulleys P and Q, and lastly over the pulley r, has at its ends a double iron hook called a ram's-head, to which the goods W to be crane up are fastened. The gibbet G VB is moveable upon its axis CB, so that when the weight is raised
Fig. 1. Crowfoot.

Fig. 2. Crowned African Cranes.
up sufficiently high, it may be easily brought from over the ship or barge to any carriage on the wharf to the right or left of the piece Z. No. 2. shews the plane of the upper part of the crane, where we are to obvieve the position of the pullies P and Q, and of the place of the center of the gibbet, which must be at C, in a line touching the circumference of both pullies; because if the center of motion of the gibbet were in a line with the center of the pullies, the loaded gibbet would require a force to bring its end g over the wharf, and that force ceasing to act, the weight and gibbet would turn back, and rest over W. This crane is very expeditious with many hands, it being always requisite that some should stand at the bars to keep the weight from running down again, which might be of dangerous consequence.

The rat-tailed crane, which is represented ibid. No. 3, is not only useful on a wharf to crane up heavy goods, but also of great service, in building, to raise great stones, and bring them round to any defined place. It consists of the following parts. On the crofs ground eills L L L L L L is fixed by oblique braces the strong upright piece K called the gudgeon of the crane, on whose spindle S, sometimes made wholly of iron, the whole machine turns, being easily moved when it is charged with its load H. C A is the counter wheel with its axis D B, bearing only on the iron ends of the said axis in two hanging perpendicular pieces at B and b; so F is the brace and ladder whose top F carries the pully above the weight, the other pulleys being in the ends of the pieces M, N, E. The power is sometimes applied by means of a rope on the outer circumference of the wheel A, but moit commonly men, a horse, or an ass turn the wheel round by walking in it. Various improvements have been made on the rat-tailed crane: thus, in plate LVIII. fig. 1. No. 4, is represented one with a double axis in peritrochio and two handles, whereby four men may raise very great weights; and being capable of turning about upon the upright shaft, may be fixed in any position to let them down into barges, boats, or the like. It differs from the preceding one, not only as the long neck is here of one piece, but the power differently applied. Here too the many accidents that happen by the carelessness of workmen, are prevented by

a peculiar contrivance: AB (ibid. No. 2.) is the great wheel, moveable on the center pin a; by means of handles fixed at C to the leffer or pinion-wheel, upon the axis of which is the catchet-wheel D d: the teeth of this last wheel successively receive the iron catch F f (moveable on a pin F on the standard G, and occasionally raised by the upright iron H b) to hinder the weight from going back when the handles are loosened. Upon the same axis, and behind the wheel D d, is a wooden wheel E p, over which stands the half ring of iron O P p, with a groove in it to fit the circumference of the said wheel, so as to regulate the motion of the pinion C, and consequently of the great wheel A B, and rope V A. The lever K L regulates all these motions; for when the string Q g K is pulled, this lever, moveable on its center M, raises the piece H b by a horizontal pin at I, whereby the catch F f is freed from the teeth: hence a strong pull by the guide at Q, stops the whole motion, and a more gentle one regulates the deficient.

Chimney Crane, a kitchen utensil for hanging a pot, or the like, on; and being moveable, wafts it off and on the fire at pleasure. See plate LVIII. fig. 4. For the principles by which cranes act, see the articles Axis in Peritrochio, Pulley, &c.

Crane is also a name given to the siphon. See the article Siphon.

Crane’s Bill, among surgeons, a kind of forceps, so called from its figure.

Crane’s Bill, in botany, the English name of the geranium. See Geranium.

Crane-fly, in zoology, the same with the tipula terrestris, sometimes also called father-long-legs. See Tipula.

Crane-lines, in a ship, are lines going from the upper end of the sprit-fall-top-mast, to the middle of the fore-stays. They serve to keep the sprit-fall-top-mast upright and steady in its place, and to strengthen it.

Crangonor, a Dutch factory on the Malabar-coast, in the hither India, about thirty miles north of Cochin: east long. 75° 15', and north lat. 10°.

Craniolaria, in botany, a genus of the dicyoninae-angiospermia: chals of plants, the flower of which consists of one unequal petal: the pericarpium is coriaceous, ovated, acute on both fides, and bivalvular: the fruit is a woody depressed nut, acuminated on both fides, and marked with dentated furrows.

Cranium,
CRANIIUM, in anatomy, denotes the skull. See the article SKULL.

CRANIIUM, in natural history, the same with the brissus. See BRASSUS.

CRANK, a contrivance in machines, in manner of an elbow, only of a square form, projecting from a spindle, serving by its rotation, to raise and fall the pittons of engines.

CRANK, likewise denotes the iron support for a lantern, or the like; also the iron made fast to a flock of a bell for ringing it.

In the east language, a ship is said to be crank-fid when she can bear but small sail, for fear of overfetting; and when a ship cannot be brought on the ground without danger, she is said to be crank by the ground.

CRANNY, in glass-making, an iron-instrument, wherewith the necks of glasses are formed.

CRAPACK, the same with Carpathian mountains. See CARPATHIAN.

CRAPAUDINE, or TREAT upon the coronet, an imperfection in a horse's foot. See the article CORONET.

CRAPE, in commerce, a kind of fluff, made in the manner of gauze, with raw fik, gummed and twisted on the mill.

CRAPULA, among physicians, the same with surfeit. See SURFEIT.

CRASIS, among physicians, is used to signify such a due mixture of qualities in a human body, as constitutes a state of health.

CRASIS, in grammar, the contraction of two letters into one long one, or a diphthong. Thus sextus is contracted into sextus.

CRASPEDARIA, in zoology, a genus of animals, without any tail or limbs, but with an apparent mouth, and a series of firmbriz round it in the manner of a ring; some species of craspedaria are roundish, others oval, and others cylindrical.

CRASSAMENTUM, in physics, the thick red, or fibrous part of the blood, otherwise called cruris, in contradistinction to the ferum, or aqueous part. See BLOOD.

CRASSENA, a term used by Paracellus, to express certain filane, putrefactive and corrosive particles, which produce ulcers and tumours.

CRASSIROSTRAE, a name given to the sparrow, and the like birds, on account of their short and thick beaks.

CRASSULA, in botany, a genus of the pentandria-pentagynia class of plants, the flower of which is of the infundibuliform shape, composed of five petals, with long, linear, straight, convolvent ungules; the fruit is composed of five oblong, acuminate, straight, compressed capsules, opening longitudinally inwards; the seeds are numerous and small.

CRATÆGUS, in botany, a genus of plants belonging to the ioandria-digynia class, the flower of which consists of five roundish, concave, sessile petals, inserted into the cup; the fruit is a fliebhy, roundish, umbilicated berry, containing two distinct nearly oblong cartilaginous seeds. The fruit of this plant is astringent and binding, and is commended in fevers attendant with a diarrhoea.

CRATCHES, in the manage, a swelling on the pattern, under the fetlock, and sometimes under the hoof; for which reason it is distinguished into the new cratches, which affect the finew, and those upon the cronet, called quitterbones.

CRATER, in astronomy, a constellation of the southern hemisphere, consisting of 7 stars, according to Ptolemy's catalogue, of 8 in Tycho's, and 11 in the British catalogue.

CRATER, in falconry, a line on which hawks are fastened when reclaimed.

CRATERITES, in natural history, a name given, by the ancients, to a species of chrysolite, of a yellowish colour, resembling amber.

CRATEVA, in botany, a genus of the polyanthra-monogynia class of plants, the flower of which consists of four ovated petals, bent upwards towards the same side, and furnished with small ungules of the length of the cup; the fruit is a fliebhy, globosely, very large berry, with one cell, containing several roundish, emarginated, nodulatory seeds.

CRATICULA, a kind of gridiron, or chemical instrument, made of square pieces of iron, of the thinnest of one's finger, placed in acute angles, about half a finger's space distant from one another. It serves in making fires to keep up the coals.

CRATO, a town of Alentejo, in Portugal, situated about seven miles south of Portalegre; West long. 8°, and north lat. 38° 10'.

CRAVANT, in ornithology, the same with bernicle. See BERNICLA.

CRAVEN, in geography, a division of the west riding of Yorkshire, situated on the river Aire.
CRAVEN, or CRAVENT, in our old customs, a term of reproach, used in trials by battle. See the article Trial.

CRAX, in ornithology, a genus of birds, of the order of Gallinae, the characters of which are, that they have four toes on each foot, and their head is ornamented with a crest, or crown of feathers bending backwards. To this genus belong, 1. The black crax, or Indian cock, with a black and white crest. 2. The black Indian cock, with a black crest. 3. The spotted crax, or Indian cock, with a black crest.

CRAY, a distemper in hawks, proceeding from long feeding upon cold stale meat. CRAY-FISH, the English name of the larger long-tailed squilla. See Squilla.

CRAYER, a small kind of whip, mentioned in our old statutes.

CRAYON, a name for all coloured stones, earths, or other minerals used in designing or painting in pastel. Crayons may be made of any colour, and adapted for the faces of men, women, landscapes, clouts, fun-beams, buildings, and shadows, in the following manner. Take plaister of Paris, or alabaster calcined, and of the colour of which you intend to make your crayons, a sufficient quantity: grind them first atander, and then together, and with a little water make them into a paste: then roll them with your hand upon the grinding-stone into long pieces, and let them dry moderately in the air: when they are to be used, scrape them to a point like a common pencil.

CREAM, the fat part of the milk that swims upon the surface. See Milk.

CREAM of Tartar, called also chryftals of tartar, in pharmacy, a preparation of tartar performed in the following manner. Take any quantity of crude tartar, boil it in water, till the parts which are capable of solution be entirely dissolved; filter the liquor whilst hot through a flannel bag, into an earthen pan, and evaporate till a pellicle appears, then set it in a cold place, and suffer it to stand quietly two or three days: afterwards decant the fluid, and the chryftals will be found adhering to the pan: scrape them off, and evaporate the fluid as before, and set it again to chryf tallize, and repeat the operation till all the chryftals are formed. Cream of Tartar is a gentle purge. It attenuates and resolves tough humours, and is good against obstructions of the viscera, and in ca-

CHESTIC COMPLAINTS. It is also a good adjunct to chalybeate medicines.

CREAT, in the manege, an usher to a riding-master; or, a gentleman bred in the academy, with intent to make himself capable of teaching the art of riding the great horse.

CREATION, the producing something out of nothing, which first and properly is the effect of the power of God alone, all other creations being only transformations, or changes of shape. Creation (say the schoolmen) from no pre-existing subject, may be understood in different senses. 1. That is said to be created out of no pre-existing matter, in the production of which no matter is employed, as an angel. 2. Although matter may be employed in the production of a thing, it may be so produced as that both its matter and form are caused by the same agent at the same time. In this manner were the heaven and earth created in the opinion of those who deny that God made the chaos. 3. Although matter may be the subject in producing a thing, yet that thing may not depend on matter either with respect to its future or present existence. Such is the human soul, for although it is created in pre-existing matter, it is not created out of pre-existing matter, but of nothing, and therefore is no ways dependent on matter for existence. See the article World.

Epocha of the Creation. See the article Epocha.

CREATION, in the romish church, the reproduction of the humanity of Jesus Christ in the eucharist, by the words of the consecration.

CREDENTIALS, letters of recommendation, and power, especially such as are given to embassadors, or public ministers, by the prince or state that sends them to foreign courts.

CREDIBILITY, a species or kind of evidence, lefs indeed than abolute certainty or demonstration, but greater than mere possibility: it is nearly allied to probability, and seems to be a mean between possibility and demonstration. See the article Evidence.

CREDIT, in commerce, a mutual trust or loan of merchandise, or money, on the reputation of the probity and sufficiency of a dealer. Credit is either private or public. Every considerable trader ought to have some estate, stock, or portion, of his own,
own, sufficient to carry on the traffic he is engaged in: they should also keep their dealings within the extent of their capital, so that no disappointment in their returns, may incapacitate them to support their credit: yet traders of worth and judgment may sometimes lie under the necessity of borrowing money for the carrying on their business to the best advantage; but then the borrower ought to be so just to his own reputation, and to his creditors, as to be well assured, that he has sufficient effects within his power, to pay off his obligations in due time: but if the trader should borrow money to the extent of his credit, and launch out into trade, so as to employ it with the same freedom as if it was his own proper flock, such a way of management is very precarious, and may be attended with dangerous consequences. Merchants ought never to purchase their goods for exportation upon long credit, with intent to discharge the debt by the return of the same goods, for this has an injurious influence upon trade several ways; and if any merchant has occasion to make use of his credit, it should always be for the borrowing of money, but never for the buying of goods: nor is the large credit given to wholesale traders a prudential or justifiable practice in trade.

The public credit of a nation is said to run high, when the commodities of that nation find a ready vent, and are sold at a good price, and when dealers may be fairly trusted with them; also when lands and houses find ready purchasers; and money is to be borrowed at low interest: when people think it safe and advantageous to venture large flocks in trade, and when notes, mortgages, &c. will pass for money.

Credit, was antiently a right which lords had over their vassals, confisting herein, that, during a certain time, they might lend them money.

CREDITON, a market-town in Devonshire, considerable for a good woolen manufactury: it is situated about 9 miles north-west of Exeter, in 3° 50' west long, and 50° 50' north lat.

CREDITOR, a person to whom any sum of money is due, either by obligation, promise, or otherwise. See DEBT. Creditors shall recover their debts of executors or administrators, that waste or convert to their use the estate of the deceased. The laws of the twelve tables, which were the foundation of the roman jurisprudence, permitted the creditor to tear or cut his debtor to pieces, in case he proved insolvent.

CREDITOR, in book-keeping. See the article BOOK-KEEPING.

CREED, a brief summary of the articles of a christian's belief.

The most antient form of creeds is that which goes under the name of the apostolic creed; besides this, there are several other antient forms, and scattered remains, of creeds to be met with in the primitive records of the church. The first is a form of apostolical doctrine, collected by Origen; the second is the fragment of a creed, preferred by Tertullian; the third remains of a creed, is in the works of Cyprian; the fourth, a creed compiled by Gregory Thaumaturgus, for the use of his own church; the fifth, the creed of Lucian the martyr; the sixth, the creed of the apostolical constitutions. Besides these scattered remains of the antient creeds, there are extant some perfect forms, as those of Jerusalem, Caesarea, Antioch, &c.

The most universal creeds are the apostolical, the athianafian, and the nicene creeds.

CREEK, the part of a haven where any thing is landed from the sea. It is defined by some to be a shore, or bank, on which the water beats, running in a small channel from any part of the sea.

CREEPER, in ornithology, a name given to several species of lipida, otherwise called certhia, or certhius, and in english, the ox-eye. See the article CERTHIA. The black, white, and red indian creeper, is a curious little bird, figured of its natural bigness in plate XLV. fig. 3. Its upper side is of a deep black, spotted with scarlet; the whole under part of the body is white; only the legs, feet, and claws are black.

CREEPER, at sea, a sort of grapnel, but without floocks, used for recovering things that may be lost over-board. See plate LVIII. fig. 5.

CRENGLES, among feamen, small ropes spliced into the bolt-ropes of the tails of the main-mast, and fore-mast, into which the bowling bridles are made fast.

CREMA, a city and bishop's see of Italy, capital of a district of the Milanese, called from it Cremasco; it stands almost in the middle between Milan and Mantua, in 10° 15' east long, and 45° 50' north lat.
CREMASTER, in anatomy, the name of a muscle of the testicle, of which there is one on each side.

It arises fleshy from the lowest and forepart of the os ilium, and upper part of the ligamentum pubis: its fibres running parallel with those of the oblique ascendens, and almost encompassing the procfs of the peritonæum, descends with it, and is inserted into the tunics vaginales, upon which it spreads in several distinct portions.

CREMATION, crematio, in antiquity, the ceremony of burning the dead. See the article Burning.

CREMONA, a city of Italy, and capital of a district of the Milanese, called from it the Cremonese, is situated 45 miles south east of Milan, in 10° 30' east long. and 45° north lat.

CRENATED, among botanists, is said, Cremona, a Crema, CREMATION, crenella, in a ship, small ropes, spliced into the bolt-ropes of the sails of the main-mast and fore-mast. They are fastened to the bow line-bridles; and are also to hold by, when a bonnet is shaken off.

CRENELLE, or IMBATTED, in heraldry, is used when any honourable ordinary is drawn, like the battlements on a wall to defend men from the enemies before them. Of these some are acute, others obtuse, &c. as represented in plate LIII. fig. 5.

CRENELLES, in a ship, small ropes, spliced into the bolt-ropes of the sails of the main-mast and fore-mast. They are fastened to the bow line-bridles; and are also to hold by, when a bonnet is shaken off.

CREPIS, in botany, a genus of the genus-Papaverïa class of plants, the compound flower of which is uniform and imbibrated; and the proper ones monopetalous, linear, truncated, and divided into five indentures; the flamine are five very short capillary filaments; and the seed is oblong, solitary, and crowned with long down, being inclosed in a roundish cup, that ferves instead of a pericarpium.

CREPITUS LUPI, in botany, a species of Lycoperdon, called in English puff-ball. See Lycoperdon.

CREPUNDIA, in antiquity, a term used to express such things as were exposed along with children, as rings, jewels, &c. called by the Greeks smirkov, serving as tokens whereby they afterwards might be known; or as helps to defray the charges of breeding and educating them.

CREPUSCULUM, the TWILIGHT, in astronomy and optics. See TWILIGHT.

CRESCENT, crescents, the new moon, which, as it begins to recede from the sun, it hews a little rim of light, terminating in points, called horns, that are still increasing, till it is in opposition to the fun, at which time it is full moon, or quite round.

CRESCENT, in heraldry, a bearing in form of a new moon. See plate LVII. fig. 4.

It is used either as an honourable bearing, or as the difference to distinguish between elder and younger families; this being generally assigned to the second son, and those that descent from him. The figure of the crescent is the turkish symbol, with its points looking towards the top of the chief, which is its most ordinary representation, called crescent montant. Crescents are said to be adopted, when their backs are turned towards each other; a crescent is said to be inverted, when its points look towards the bottom; turned crescents have their points looking to the dexter side of the shield; cornuted crescents to the sinister side, and affronted crescents, contrary to the adopted, have their points turned to each other.

CRESCENT is also an order of knights, instituted by Renatus of Anjou, king of Sicily, about the year 1448, so called, from the badge of this order, which was an enamelled crescent of gold.

CRESCENT, a term among farriers. Thus a horse is said to have crescents when that part of the coffin bone which is most advanced falls down and presses the sole outwards, and the middle of her hoof above shrinks, and becomes flat, by reason of the holowness beneath it.

CRESCENTIA, in botany, a genus of the class of plants, whose corolla consists of a single petal, gibbous and unequal; the tube is also gibbous; the limb erect, and divided into five segments. The

CREPUSCULUM, the TWILIGHT, in astronomy and optics. See TWILIGHT.
CREST, among carvers, an imagery, or carved work, to adorn the head, or top of any thing, like our modern corniche.

CREST-FALLEN, a fault of an horse, when the upper part of his neck, called the crest, hangs to one side; this they cure by placing it upright, clipping away the spare skin, and applying platters to keep it in a proper position.

CRESTED, something furnished with a crest. See the article CREST.

CRETA, CHALK, in natural history. See the article CHALK.

CREUX, a French term used among artists, and literally signifies a hollow cavity, or pit, out of which something has been scooped or dug; whence it is used to signify that kind of sculpture, where the lines and figures are cut and formed within the face or plan of the plate, or matter engraved; and thus it stands in opposition to Relievo, where the lines and figures are embossed, and rise prominent above the face of the matter engraved on.

CREW, the company of sailors belonging to a ship, boat, or other vessel. The sailors that are to work and manage a ship, are regulated by the number of lafts it may carry, each laft making two tun. The crew of a Dutch ship, from forty to fifty lafts, is seven sailors and a swabber; from fifty to sixty lafts, the crew consists of eight men and a swabber; and thus it increases at the rate of one man every ten lafts. English and French crews are usually stronger than Dutch, but always in about the same proportion. There are in a ship several particular crews, or gangs, as the gun-room crew, the carpenter's crew, &c.

CREX, in ornithology, a species of ortygometra, known in different parts of the kingdom, by the names daker-hen, and corn-crake. See ORTYGOMETRA. From its note crex, crex, the names crex, as well as corn-crake, are evidently derived: it is frequent in corn-fields.

CRIANCE, or CREANCE, among sportsmen, a fine packthread fastened to a hawk's breast, when he is first lured.

CRIB, a frame of wood wherein moist things, particularly falt, as it is taken out of the boiling-pan, are put to drain.

CRIBBAGE, a game at cards, wherein no cards are to be thrown out, and the fet to make sixty-one; and as it is an advantage to deal, by reason of the crib, it
it is proper to lift for it, and he that has the least card deals. There are only two players at this game, wherein the cards are dealt out one by one, the first to the dealer's antagonist, and the next to himself; and so on, till each have five; the rest being set down in view on the table.

This done, the dealer lays down the two best cards he can for his crib; and his antagonist lays down the other two, the very worst in his hand, by reason the crib is the property of the dealer. They next turn up a card from the parcel left after dealing, and then count their game thus: any fifteen upon the cards is two; any ten and five, nine and six, eight and seven, &c. A pair is also two; a pair royal, or three aces, kings, &c. fix; a double pair royal, or four aces, &c. twelve. Sequences of three cards, as, four, five, and six, is three; sequences of four, four, five, five, &c. and the same holds of a flush. Knife noddy, or of the suit turned up, is one in hand, and two to the dealer. If, after the cards for the crib are laid out, you cannot take any fifteen, then you have twelve, as, four, five, and six, is three; of the kidneys, by which they pretend to be bilked. There are to be marked but holds it forever right;

This done, the dealer lays down the two best cards he can for his crib; and his antagonist lays down the other two, the very worst in his hand, by reason the crib is the property of the dealer. They next turn up a card from the parcel left after dealing, and then count their game thus: any fifteen upon the cards is two; any ten and five, nine and six, eight and seven, &c. A pair is also two; a pair royal, or three aces, kings, &c. six; a double pair royal, or four aces, &c. twelve. Sequences of three cards, as, four, five, and fix, is three; sequences of four, four, five, five, &c. and the same holds of a flush. Knife noddy, or of the suit turned up, is one in hand, and two to the dealer. If, after the cards for the crib are laid out, you cannot take any fifteen, then you have twelve, as, four, five, and six, is three; of the kidneys, by which they pretend to be bilked. There are to be marked but holds it forever right;

This done, the dealer lays down the two best cards he can for his crib; and his antagonist lays down the other two, the very worst in his hand, by reason the crib is the property of the dealer. They next turn up a card from the parcel left after dealing, and then count their game thus: any fifteen upon the cards is two; any ten and five, nine and six, eight and seven, &c. A pair is also two; a pair royal, or three aces, kings, &c. six; a double pair royal, or four aces, &c. twelve. Sequences of three cards, as, four, five, and six, is three; sequences of four, four, five, five, &c. and the same holds of a flush. Knife noddy, or of the suit turned up, is one in hand, and two to the dealer. If, after the cards for the crib are laid out, you cannot take any fifteen, then you have twelve, as, four, five, and six, is three; of the kidneys, by which they pretend to be bilked. There are to be marked but holds it forever right;

This done, the dealer lays down the two best cards he can for his crib; and his antagonist lays down the other two, the very worst in his hand, by reason the crib is the property of the dealer. They next turn up a card from the parcel left after dealing, and then count their game thus: any fifteen upon the cards is two; any ten and five, nine and six, eight and seven, &c. A pair is also two; a pair royal, or three aces, kings, &c. six; a double pair royal, or four aces, &c. twelve. Sequences of three cards, as, four, five, and six, is three; sequences of four, four, five, five, &c. and the same holds of a flush. Knife noddy, or of the suit turned up, is one in hand, and two to the dealer. If, after the cards for the crib are laid out, you cannot take any fifteen, then you have twelve, as, four, five, and six, is three; of the kidneys, by which they pretend to be bilked. There are to be marked but holds it forever right;
and to the lower part of it the aspera arteria adheres.

CRICOTHYROIDÆUS, in anatomy, one of the five proper muscles of the larynx, which arise and terminate in it. It serves occasionally either to dilate, or constrict the glottis.

CRIM, or CRIM-TARTARY, a peninsula in the black sea, between 33° and 37° east long. and between 44° and 46° north lat. It is joined to Little Tartary by a narrow isthmus.

The prince of this country, called Cham, or Ham, is subject to the Turks; being obliged to furnish 30,000 men, whenever the grand signior takes the field.

CRIME, crimen, the transgression of a law, either natural or divine, civil or ecclesiastic.

Civilians distinguish between crimen and delictum. By the first, they mean capital offences, injurious to the whole community, as murder, perjury, &c. The prosecution of which was permitted to all persons, though no ways immediately interested. By the latter, they understand private offences committed against individuals, as theft, &c. By the laws, no body was allowed to prosecute in these, except those interested.

With us, crimes are distinguished into capital, as treason, murder, robbery, &c, and common, as perjuries, &c.

Again, some crimes are cognizable by the king’s judges, as the above-mentioned; and others are only cognizable in the spiritual courts, as simple fornication.

Quasi Crime. See Quasi Crime.

CRIMEN FALSI. See FALSI.

CRIMNOIDES, or CRIMOIDES, among physicians, a term sometimes used for the sediment of urine, resembling bran.

CRIMSON, one of the seven red colours of the dyers.

To dye a lively crimson: First wet the goods well, and for every pound of stuff to make the fuds, use two ounces and a half of tempered aqua fortis, and three ounces and a half of tartar, an ounce and half of cochenail, and eight ounces of alum. Boil the goods with all theie for half an hour; let them cool, and rinse them out. To finish the dye, boil four ounces of cochenail, three ounces of flarch, three ounces of white-wine tartar, and half an ounce of white arsenic together for a quarter of an hour, then put in the goods and let them boil for above half an hour.

or till they have taken the dye well and equally.

CRIMSON GRASS-VETCH, the English name of a plant, called by botanists, nifofilia: See the article NISSOLIA.

CRINITES, or CRINONES, among physicians, small worms that bred in the skin, called also dracunculi. See DRACUNCULI.

They molly infet the muscular parts, as the back, shoulders, legs, and thighs. They occasion a troublesome itching, and are to be destroyed with a mercurial lotion.

CRINUM, in botany, a genus of the hexandria-monogynia class of plants, the flower of which is infundibuliform and monopetalous, the fruit is a subovated capsule, with three cells, containing several seeds.

CRISIS, in medicine, is used in different senses, both by the antient and modern physicians. With some it means frequently no more than the excretion of any noxious substance from the body. Others take the word for a secretion of the noxious humours made in a fever. Others use it for the critical motion itself; and Galen defines a crisis in fevers, a sudden and intermittent change, either for the better or the worse, productive of recovery or death. The doctrine of crises is very obscure; however the following are reckoned the principal symptoms of an approaching crisis, a sudden floror, drowning, waking, delirium, anxiety, dyspepsia, grief, redness, titillation, nausea, heat, thirst, &c. After digestion, and about the critical time, and the symptoms and effects of a present crisis are after the preceding ones, a vomiting, looseness, thick sediment in the urine, bleeding at the nose, hemorrhoids, sweats, abceses, pustules, tumours, buboes, &c.

CRISP, a term given to any thing dried or shriveled up with heat.

CRISP LEAF, among botanists, is one fold over and over, at the edges, which are always serrated, dentated, or lacerated. It is otherwise called curled. See plate LXIV. fig. 3.

CRISTA, a crest. See CREST.

CRISTÉ, in surgery, a term for certain excrescences about the anus and pudenda. See the article CONDYLOMA.

CHRISTA GALLI, in anatomy, a process of the os ethmoides, making the upper part of the septum narium. It takes its name
name from the supposed resemblance to the comb of a cock. See the article
C Ribosum Os.

CRISTA Galli is also the name of a kind of oyster, otherwise called the hog's ear-
shell. See the article Oyster.

CRISTA Galli, cock's comb, in botany, a name used by Rovinus for the rhi-
nanthus of Linnaeus. See the article Rhinanthus.

CRISTA Pavonis, in botany, the same
with the poinciana. See Poinciana.

CRISTA Pavonis likewise denotes the tree
the wood whereof is the logwood.

CRISTATA, a plant otherwise called cy-
noorus. See the article Cynosurus.

CRITERIUM, a standard by which propo-
sitions and opinions are compared, in or-
der to discover their truth or falsehood.

CRITHE, in surgery, commonly called the
flye, is a tubercle that grows in different parts of the eyelids. When it is
small it comes only on the edge of the eye-
lids, or very near it, between the cilia ;
but when it is large it spreads towards the middle of the lid. The cure of this
diseafe must be varied according to the
crithe is attended with an inflammation,
or is hardened and concreted.

CRITHUM, samphire, in botany, a
 genus of the pentandria digynia class of
plants, the universal flower of which is
uniform; the proper one consists of five
ovated, inflected, and nearly equal pe-
tals: there is no pericarpium: the fruit
is oval, compressed, and separable into
two parts: there are two elliptical com-
preSsO-plane seeds, friated on one side.
Samphire is more used as a pickle, than
for any medicinal purposes. However, it
is supposed to strengthen the stomach,
provokc urine, and open obstructions of
the bowels.

CRITHOMANCY, a kind of divination
performed by considering the dough or
matter of cakes, offered in sacrifice, and
the meal fired over the victim to be
killed.

CRITICAL Days and Symptoms, among
physicians, are certain days and sym-
ptoms in the course of acute diseases,
which indicate the patient's state, and de-
termine him either to recover or grow
worse. A careful observation of these
days is of the greatest use towards the
cure of diseases, lest mischief be done by
unfavorable assistance from art, as when
a physician endeavours to expel that which
is not prepared to be evacuated, or else
hinder the evacuation of such humours,
as being subdued and conceived, ende-
vour to escape by some convenient outlet.
According as the violence of the disease
is more swift or slow, the critical days
will be more or less distant from each
other: thus in fevers which do not exceed
the space of three weeks, the quaternary
or septennary days are critical; and besides
these, there are in the two first weeks
many more incidentally critical days, as the
third, fifth, sixth, &c. But if an acute
disease extends itself beyond three weeks,
then the quaternary days no more take
place as critical, but only the septennary
days are so, though the efficacy of these
lait is likewise abolished after the fortieth
day. See the article CRISIS.

CRITICISM, the art of judging with
propriety concerning any discourse or
writing. Though the use of the word is
ordinarily restrained to literary criticism,
we may distinguish divers other branches
of this art, as, 1. Philosophical criticism,
the art of judging of the hypotheses and
opinions of philosophers. 2. Theolog-
cal criticism, the art of judging of ex-
planations of doctrines of faith. 3. Po-
itical criticism, the art of judging of the
means of governing, acquiring, and pre-
serving states. 4. Grammatical criticism,
the art of interpreting the words of an
author, &c. Lord Bacon divides criti-
cism, first, as it regards the exact cor-
correcting and publishing of approved au-
thors, by which the honour of such au-
thors is preserved, and the necessary af-
sistance afforded to the reader; yet the
misapplied labours and industry of some
have in this respect proved highly prejudi-
cial to learning; for many critics have
a way, when they fall upon any thing
they do not understand, of immediately
supposing a fault in the copy, and hence
it happens that the most corrected copies
are often the least corrected. 2. As it
respects the explanation and illufration
of authors by notes, comments, collect-
ions, &c. But here an ill custom has
prevailed, of skipping over the obscure
passages, and expatiating upon such as
are sufficiently clear: as if the design
was not so much to illustrate the author, as
to take all occasions of shewing their own
learning and reading. It were therefore
to be wished, says the noble author, that
every original writer who treats an ob-
scure subject, would add his own expla-
nation to his own work, and thus pre-
vent any wrong interpretation by the notes
of others. 3. There belongs to criticism a
certain
CROCUS, which they are exposed to a sulphur. See CROCIA, CROCI, among CROCHES, among hunters, CROATIA, CROCODILE, CROCODES, CRIZZELING is afraid of CROCEUS, reason what article quality, and to procure thousand miles, falls into the bay of China, is frequently used in phrenies: it is clear, with which its waters are tinged. the kind, growing to twenty-five feet in length, and about the thickness of a man's body. It is a native of the torrid zone, frequenting salt-water rivers, where it lies concealed among reeds or rushes, till it finds an opportunity to seize men or other animals, which it drags into the water, always taking this method of drowning them first, that it may afterwards swallow them without resistance: its general food, however, is fish. The Africans and Indians eat its flesh, which is white, and of a kind of perfumed flavour.

CROCODILUM, in botany, a species of centauria. See Centauria.

CROCODILODES, a plant otherwise called atractylis. See Atractylis.

CROCOTTA, in zoology. See the article Leocrotta.

CROCUS, Saffron, in botany, a genus of the triandria-monogynia class of plants, the flower of which consists of one petal, divided into six oval, oblong, and equal segments; and its fruit is a trilocular capsule, consisting of three valves, and containing a number of roundish seeds. For the medicinal and other virtues of this plant see the article Saffron.

Crocus, in chemistry, denotes any metallic calcined to a red or deep yellow colour: thus we meet with crocus martis aperiens & astringens, or the aperient and astringent crocuses of iron; also with the crocus veneris, or copper calcined to such a reddish powder.

The aperient crocus of iron is thus made: expel a quantity of iron filings to the open air, in the spring, till they are perfectly converted into a reddish dust; or, mix equal quantities of iron filings and sulphur into a paste, and calcine this over the fire till the sulphur is burnt away; the remaining red powder is called crocus martis aperiens cum sulphure. Both these are recommended in obstructions, and may be given in ten grains for a dose; but the first is esteemed the best. The astringent crocus of iron is made by exposing iron filings to air, and sprinkling them at times with vinegar, till they are almost converted into rust; after which they are exposed to a strong reverberatory fire, till they become of a deep purple colour. This powder is found a good medicine in haemorrhages and fluxes, the dose being from ten to thirty grains; and the best way of admini<ref>...</ref>...
They are dispersed in several parts of Europe, particularly in the Low Countries, France, and Bohemia, those in Italy being at present suppressed. These religious follow the rule of St. Augustine. They had in England the name of crouch-ed friers.

CROISSANTE, in heraldry, is said of a cross, the ends of which are fashioned like a crescent or half moon. See CROSS.

CROMARTY, or CROMARTIE, the capital of the shire of Cromartie, in Scotland, with an excellent and safe harbour capable of containing the greatest fleets: west lon. 5° 40', and north lat. 57° 54'.

CRONENBURG, a fortress of Denmark, situated in the island of Zealand, at the entrance of the Sound, where the Danes take toll of ships bound for the Baltic: east lon. 12° 5', and north lat. 56°.

CRONIUS, in chronology, the name with hecatombon. See the article HECATOMBON.

CRONIUS, or CROWN-Castle, a castle and harbour in a little island of the same name, at the mouth of the river Neva, in Russia, about twelve miles west of Peterburgh: east lon. 50°, and north lat. 60°.

Here is a station for the Russian men of war, and a yard for building and refitting them.

CRONSTAT, a town of Transilvania, situated near the frontiers of Moldavia, about fifty miles north-east of Hermanstadt, and subject to the house of Austria: east lon. 30°, and north lat. 47°.

CROOKEDNESS, or DISTORTION, among physicians, &c. See the article DISTORTION.

CROPPER, in ornithology, the English name of a species of pigeon, so called from the large crop or bag under its beak. See the article PIGEON.

CROSETTES, in architecture, the returns in the corners of chambranles, or door-cases, or window-frames, called also ears, elbows, aniones, &c.

CROSIER, or CROZIER, a shepherd's crook; a symbol of pastoral authority, consisting of a gold or silver staff, crooked at the top, carried occasionally before bishops and abbots, and held in the hand when they give the solemn benedictions. The custom of bearing a pastoral staff before bishops is very antient. Regular abbots are allowed to officiate with a mitre and crozier. Among the Greeks none but a patriarch had a right to the crozier.

CROZIER,
CRO | [ '792 ] | CRO

CROFIER, in astronomy, four flat is in the southern hemisphere, in the form of a cross, serving those who sail in south latitudes to find the antarctic pole.

CROSLET, in heraldry, is when a cross is crossed again at a small distance from each of the ends. Upton says it is not so often borne by itself in arms, as other crosses are, but often in diminutives, that is, in small crosses scattered about the field. See plate LXII. fig. 5.

CROSS, croix, in antiquity, a species of punishment, or rather the instrument wherewith it was inflicted, consisting of two pieces of wood, crossing each other. This punishment was only inflicted on malefactors and slaves, and thence called servile supplicium. The most usual method was to nail the criminal's hands and feet to this machine, in an erect posture; though there are instances of criminals so nailed with their head downward.

Invention of the Cross, a festival observed on May 3, by the latin church, in memory of the empress Helena's (the mother of Constantine) finding the true cross of Christ, on mount Calvary, where the caused erect a church for the preservation of it.

Exaltation of the Cross, a grand festival solemnized on September 14, in commemoration of Heracleus's restoring to mount Calvary, the true cross, that had been carried off by Coësses king of Persia, upon taking the city of Jerusalem.

Order of the Cross, an order of ladies instituted in 1668, by the empress Eleanor de Gonzagata, wife of the emperor Leopold, on occasion of the miraculous recovery of a little golden cross, wherein were inclosed two pieces of the true cross, out of the ashes of a part of the palace that had been burnt down: though the fire burnt the edifice wherein it was enclosed, and melted the crystal, it appears that the wood had not received the least damage.

CROSS, in botany. See CRUCIFORM.

CROSS, in dialling. See DIAL.

CROSS, in heraldry, is defined by Guillim, an ordinary composed of fourfold lines, whereof two are perpendicular, and the other two transverse; for so we must conceive of them, though they are not drawn throughout, but meet, by couples, in four right angles, near about the ffee-point of the escutcheon. The content of a cross is not always the same; for when it is not charged, it has only the fifth part of the field; but if it be charged, then it must contain the third part thereof.

This bearing was bestowed on such as had performed, or, at least, undertaken some service for Christ and the christian profession; and is therefore held by several authors the most honourable charge in all heraldry. What brought it into such frequent use was the ancient expeditions into the holy land, the cross being the ensigns of that war.

In these wars, says Mackenzy, the Scots carried St. Andrew's cross; the French, a cross, argent; the English, a cross, or; the Germans, fable; the Italians, azure; the Spaniards, gules.


Columbier makes eighty-two distinct sorts of crosses, of which we shall only mention such as differ from those enumerated above, as, 1. A cross remplee, which is only one cross charged with another. 2. A cross party, that is, one half of one colour, and the other of another. 3. A cross quartered,
CRO [793] CRO


Cross, in surveying, an instrument con- fiting of a brafs circle, divided into four equal parts, by two lines interfeting each other at the center; at the extremity of each line there is a fight fixed, ftanding perpendicularly over the line, with holes below each ftit, for the better discovery of diftant objects.

This instrument is mounted on a ftand, and is but little known, and lefs ufed among us, though abroad it is often ufed in surveying. See Surveying.

Cross-bar-shot, a bullet with an iron- bar paffing through it, and ftanding fix or eight inches out at both fides; it is ufed at fea, for destroying the enemy's rigging.

Cross-battery, in the military art. See the article Battery.

Cross-bill, in ornithology, the english name of the loxia. See Loxia.

Cross-grained, in joinery. Timber is laid to be cross-grained, where a bough, or some branch, shoots out on a part of the trunk of the tree; for the grain of the branch, shooting forward, runs across that of the trunk; and if it be in wood well grown, it will scarce be perceived, except in working.

Cross-jack, in a ship, a yard flung at the upper end of the mizen-maft, without any halliards or ties, and ufed to spread and hale on the mizen-top-fall sheets.

Cross of Jerusalem, in botany, a name sometimes ufed for the lychnis. See the article Lychnis.

Cross-multiplication, in arithmetic. See the article Multiplication.

Cross-staff, the fame with fore-staff. See the article Fore-staff.

Cross-tree, in a ship, four pieces of timber, bolted and let into one another across, at the head of the maff. Their ufe is to keep and bear the top-maft up; for the foot of the top-maft is always fattened in them.

Cross-wort, in botany, the englilh name of the cruciata, or valantia of authors. See the article Valantia.

Crosselet, a little or diminutive cros, ufed in heraldry, where the fhiel is frequently fen covered with croffelets; alfo fefles and other honourable ordinaries, charged or accompanied with croffelets. Crofles frequently terminate in croffelets. See plate LXII. fig. 5.

Crosen, a town of Silefa upon the Oder, ftuated in 15° 30' eaff long. and 52° 55' north lat.

Crotalaria, in botany, a genus of the diadelphia-decandria clafs of plants, whose flower is papilionaceous; the vex- illum is corded, acute, large, and def- preffed at the fides; the alæ are ovated, and only as long as half the vexillum; the carina is acuminated, and of the length of the alæ; the root is a fhort turgid pod, confifting of one cell, and containing two valves; the fead is either one or two, glo- bolide and kidney-shaped.

Crotalophorus, the rattle-snake, in zoology. See the article Rattle-snake.

Crotalum, in antiquity, a kind of caffagnettes, or musical instruments, found on medals, in the hands of the priets of Cybile. The crotulium differed from the fidrum, though authors often confounded the two.
It consisted of two little brass plates, or rods, which were stuck in the hand, and striking against each other, made a noise.

CROTAPHITES, in anatomy, a muscle of the lower jaw, serving to draw it upwards. Its fibres spring from the bones of the forehead, the sinciput, sphenoïdes, and temporale, which meeting, and, as it were, entering under the os jugale, whence also this muscle receives some fibres, proceed to the processus coronoïdes, into which they are inserted.

CROTAPHIMUM, a term used by some authors for the head-ach. See the article HEAD-ACH.

CROTCHES, in ship-building, very crooked timbers in the hold or bread-room, from the mizen-ftp aft, fayed cross the keelJon, to strengthen the ship in the wake of the half-timbers. See plate LVIII. fig. 6. n° 1.

Iron-CROTCHES, crooked pieces of iron, used on board sloops and long-boats, which go with shoulder of mutton-fails, for the boom to lodge on. Ibid. n° 2.

CROTCHET, in music, one of the notes or characters of time, marked thus †, equal to half a minim, and double of a quaver. See the articles CHARACTER, MINIM, and QUAYER.

A dot added to the crotchet thus †, increases its time by one half, that is, makes it equal to a crotchet and a half.

CROTCHET, in printing, a sort of straight or curved line, always turned up at each extreme; serving to link such articles as are to be read together; and used in analytical tables, &c. for facilitating the divisions and subdivisions of any subject.

CROTCHETS are also marks or characters, serving to inclose a word or sentence, which is distinguished from the rest, being generally in this form [ ] or this ( ).

CROTELS, or CROTTENING, among hunters, the ordure or dung of hares.

CROTON, in botany, a genus of plants of the monoecea-polyandra class, the male flowers of which being less than the female flowers, consist of five oblong obolute petals, scarce larger than the cup; the petals of the female flower are the same as in the male; the fruit is a roundish capsule with three cells, each cell having two valves; the seeds are solitary, large, and ovated.

CROTOY, a town of France, situated in the province of Picardy, at the mouth of the river Somme; east long. 1° 30', and north lat. 50° 15'.

CROUP of a horse, in the manege, the extremity of the reins above the hips.

The croup should be large and round, so that the tops of the two hanch-bones be not within view of each other. It should have its compass from the hanch-bones to the very dock or outlet of the tail; and should be divided in two by a channel or hollow all along to the dock.

A rocking croup is when a horse's fore quarters go right, but his croup swings from side to side; when such a horse trots one of the hanch-bone will fall and the other rise, like the beam of a balance; a sign that he will not be very vigorous.

CROUPADE, in the manege, a leap, in which the horse pulls up his hind legs, as if he drew them up to his belly. Croupades differ from caprioles and balotades, in this, that in croupades the horse does not jerk, as he does in the other two airs.

CROUPER, or CROPPER. See the article CRUPPER.

CROW, or CARRION-CROW, in ornithology, the english name of a species of corvus, about the size of the largest tame pigeon, and all over of a fine deep black colour, with large eyes and reflex bristles at the nostrils. See plate LXI. fig. 1. n° A.

Rossion CROW, the english name of another species of corvus, with the body grey, the head, throat, wings, and tail black. See plate LXI. n° B.

Scare CROW, the english name of the black larus, with grey wings and red legs. See the article LARUS.

CROW, in mechanics, a kind of iron-lever with a claw at one end, and a sharp point at the other; used for heaving or purchasing great weights. See plate LVII. fig. 5.

CROW'S BILL, among surgeons, a kind of forceps, for drawing bullets and other foreign bodies out of wounds.

CROW-FLOWERS, in botany, a name given by some to the lychnis. See LYCHNIS.

CROW'S FEET, in the military art, machines of iron, having four points, each about three or four inches long, so made that whatever way they fall, there is still a point up: they are thrown upon breaches or in pavis where the enemy's cavalry are to march, proving very troublesome by running into the horse's feet and laming them.

CROW'S FEET, in a ship, small lines or ropes, sometimes eight or ten, reeved through
through the deadmen's eyes; and scarce
of any other use than to make a flew of
small rigging. They are usually placed
at the bottom of the back-flags of the
fore-top-mast, mizen-top-mast, and gal-
lant-top-mast. See plate LVI. fig. 1.
CROWN, an ornament worn on the head
Latin, vallaris, or
fore-top-mast; mizen-top-mast,
at the bottom of the
long, and three wide, with meshes about.
The Romans
ranunculus. See
purpose. It may be used for pigeons, ed
upon generals, who were entitled to
finall rigging. They
in the
two inches in width, verged on the
derm. qee
ran
indented and embattel-
men, as
a sillet of gold placed upon the forehead, a
a
so
The high
ribbon or sillet, with which the Jews and
graminea, made of grass growing on the
priests, and even common Israelites wore
z. The triumphal crown,
made of gold; proper to such
men, as
A. The triumphal crown, confi-
ing at first of wreaths of laurel, but af-
wards made of gold; proper to such
generals as had the honour of a triumph.
7. The crown called obfidiocals, or
graminea, made of grass growing on the
place; the reward of a general who had
delivered a roman army from a siege.
8. The crown of laurel, given by the Greeks
to their athletes; and by the Romans to
those who had negociated or confirmed a
peace with an enemy; this was the least
honourable of all. We meet also with the
corona aurea, often bestowed on sol-
diers, without any other additional term;
the radial crown, given to princes at
their translation among the gods; ath-
etic crowns, and crowns of laurel, de-

ded to crown victims at the publi
games, poets, orators, &c. All these
crowns were marks of nobility to the
wearers; and upon competitions with vi-

Crow's Foot, the English name of the
ranunculus. See Ranunculus.
Crow-Garlic, a species of onion. See
the article Onion.
Crow-Net, a device for taking wild-fowl
in winter, being a net about ten yards
long, and three wide, with meshes about
two inches in width, verged on the fides
with good strong cord, and extended out
very fliff, upon long poles made for that
purpose. It may be used for pigeons,
crows, and the like, in corn-fields newly
fown, or in stubble-fields.
Crow-Staves, the two upright pieces
inserted into the box of a plough, and bored
with a number of holes, by means of
which they support a transverse piece called
the pillow of the plough. See the articles Plough and Pillow.
Crowland, a market-town of Lincolnshire: welt longit. 10', and north
lat. 53° 40'.
Crown, an ornament worn on the head
by kings, sovereign princes, and noble-
men, as a mark of their dignity.
In scripture there is frequent mention of
crowns, and the use of them seems to have been very common among the Hebrews.
The high priest wore a crown, which was
a fillet of gold placed upon the forehead,
and tied with a ribbon of hyacinth colour,
or azure blue. It seems also as if private
priests, and even common Israelites wore
also a fort of crown, since God commands Ezechiel not to take off his crown,
nor assume the marks of one in mourning.
This crown was no more than a
ribbon or fillet, with which the Jews and
several people in the east girt their heads.
And indeed the first crowns were no more
than a bandelet drawn round the head,
and tied behind, as we still see it repre-
sented on medals round the heads of Jupi-
ter, the Ptolemys, and kings of Sy-
tia. Afterwards they consisted of two
bandelets: by degrees they took branches
of trees of divers kinds; at length they
added flowers, insomuch that Claudius
Saturninus says, there was not any plant
whereof crowns had not been made. The
woods and groves were searched to find
different crowns for the several deities;
and they were used not only on the statues
and images of the gods, by the priests in
sacrificing, and by kings and emperors,
but also on altars, temples, doors of houses,
faced vessels, victins, ships, &c. Some
authors conclude, from passages in Eu-
seius Cæsarenis, that bishops had like-
wise antiently their crowns.
The roman emperors had four kinds of
crowns, still feen on medals; viz. acrown
of laurel, a radial or radiating crown, a
crown adorned with pearls and precious
stones, and the fourth a kind of bonnet or
cap, something like the motter.
The Romans had also various kinds of
crowns, which they distributed as rewards
of military achievements; as, 1. The
oval crown, made of myrtle, and bestowed
upon generals, who were entitled to
the honours of the latter triumph, called
ovation. See the article Ovation.
2. The naval or rostral crown, composed
of a circle of gold, with ornaments reprente-
ning beaks of ships, and given to the
captain who first grappled, or the sol-
dier who first boarded, an enemy's ship.
Lipius believes the corona navalis and
rostrata, to have been two distinct species,
but they are generally thought to have
been the same. 3. The crown called in
latin, vallaris, or castricornis, a circle of
gold railed with jewels or palisades; the
reward of him who first forced the ene-
my's entrenchments.
4. The mural crown,
a circle of gold indented and embattel-
ed; given to him who first mounted the
wall of a beleaguered place, and there lodged
a standard. 5. The civic crown, made
of the branch of a green oak, and given
to him who had faved the life of a citi-
zen. 6. The triumphal crown, con-
fiating at first of wreaths of laurel, but aft-
wards made of gold; proper to such
generals as had the honour of a triumph.
7. The crown called obfidiocals, or
graminea, made of grass growing on the
place; the reward of a general who had
delivered a roman army from a siege.
8. The crown of laurel, given by the Greeks
to their athletes; and by the Romans to
those who had negociated or confirmed a
peace with an enemy: this was the least
honourable of all. We meet also with the
corona aurea, often bestowed on sol-
diers, without any other additional term;
the radial crown, given to princes at
their translation among the gods; ath-
etic crowns, and crowns of laurel, de-

ded to crown victims at the publi
games, poets, orators, &c. All these
crowns were marks of nobility to the
wearers; and upon competitions with vi-
vals for rank and dignities, often determined the preference in their favour. See plate LIX. fig. 1. n° 1, 2, 3, &c.

CROWN, in heraldry, is used for the representation of that ornament, in the mantling of an armory to express the dignity of persons. Radiated or pointed crowns, are those of the antient emperors, which had twelve points, representing, as is thought, the twelve months of the year. Those crowns were called pearled or flowered, which have pearls or leaves of smallage, parley, &c. Such were antiently almost all crowns, even those of sovereign princes, though they were not used on their armories till about two hundred years ago.

The imperial CROWN is a bonnet or tiara, with a semicircle of gold, supporting a globe with a cross at top. See plate LIX. fig. 2. n° 1.

The britifh CROWN is adorned with four crosses, between which there are four fleurs de lis: it is covered with four diadems, which meet at a little globe supporting a cross. Ibid. n° 2.

The french CROWN is a circle of eight fleurs de lis, encompassed with fix diadems, bearing at top a double flour de lis, which is the crest of France. Ibid. n° 3.

The spanish CROWN is adorned with large indented leaves, and covered with diadems terminating in a globe, surmounted with a cross. Ibid. n° 4.

The crowns of almost all other kings are adorned with large leaves, bordered with four, six, or eight diadems, with a globe and cross at top.

The papal CROWN is composed of a tiara and a triple crown encompassing it, with two pendants like the bishop's mitres. These crowns represent the pretended triple capacity of the pope, as high priest, supreme judge, and sole legislator of christians. Ibid. n° 5.

An elecroral CROWN, or coronet, is a scarlet cap turned up with ermine, and cloathed with a semicircle of gold, all covered with pearls, with a globe at top, surmounted with a golden cross. Ibid. n° 6.

Crowns of british princes of the blood. 1. The prince of Wales's crown consists alternately of crosses and fleurs de lis, with one arch, in the middle of which is a ball and cross, as in the royal diadem. 2. That of all the younger sons and brothers of the king, consists likewise of crosses and fleurs de lis alternately, but without any arch, or being surmounted with a globe and cross at top. 3. That of the other princes of the blood consists alternately of crosses and leaves like those in the coronet of dukes, &c. Ibid. fig. 3. n° 1, 2, 3.

Crowns of noblemen are a duke's, composed of leaves of smallage, or parley: that of a marquis, of flowers and pearls placed alternately; an earl's has no flowers about the circle, like the duke and marquis, but only points rising, and a pearl on every one of them: a viscount has neither flowers nor points raised above the circle, like the other superior degrees, but only pearls placed on the circle itself without any limited number: a baron's has only six pearls on the golden border, not raised, to distinguish him from the earls; and the number of them limited to five unless he is inferior to the viscount. Ibid. fig. 4. n° 1, 2, 3, &c.

Crown-royal, an order of knighthood instituted, as is said, by Charlemain, to reward the Frieslanders, who had done him eminent service in his wars against the Saxons. The knights bore an imperial crown embroidered with gold as a badge of their honour. Father Heylot thinks that this order never existed but in the imagination of some modern writers.

CROWN, in commerce, a general name for coins both foreign and domestic, which are of, or very near, the value of five shillings sterling. See COIN.

CROWN, in architecture, denotes the uppermost member of the cornice, called also corona, and larmier. See the articles CORONA and LARMIER.

CROWN, in astrononony, a name given to two constellations, the one called borealis, the other meridionalis. See the article CORONA.

CROWN, in an ecclesiastical sense, is used for the clerical tonsure, which is the mark and character of ecclesiastics of the romish church. It is a little circle of hair shaved from the crown of the head, more or less large, according to the quality of the orders received. That of a mere clerk is the smallest, that of priests and monks the largest.

CROWN, in geometry, is a plane ring included between two concentric perimeters, and is generated by the motion of some part of a right line round a center, the said moving part not being contiguous to the center. The area of a crown will be had by multiplying its breadth by the length of the middle periphery; for a series of terms in arithmetic,
Fig. 1. Ancient Crowns:
- No. 1. Oval
- No. 2. Naval
- No. 3. Castrensis
- No. 4. Mural
- No. 5. Civic
- No. 6. Triumphant
- No. 7. Obsestionalis
- No. 8. Radial

Fig. 2. Royal Crowns:
- No. 1. Imperial
- No. 2. British
- No. 3. French
- No. 4. Spanish
- No. 5. Papal
- No. 6. Electoral

Fig. 3. Crowns of the Blood Royal of Great Britain:
Prince of Wales, Younger Sons, Nephews
- No. 1
- No. 2
- No. 3

Fig. 4. Crowns of Nobility:
- No. 1. Duke's
- No. 2. Marquiss's
- No. 3. Earls
- No. 4. Viscounts
- No. 5. Barons
arithmetic progression being \( n \times \frac{a + \omega}{2} \),
that is, the sum of the first and last multiplied by half the number of terms, the middle
element must be \( \frac{a + \omega}{2} \); wherefore that
multiplied by the breadth, or sum of all
the two terms, will give the crown.

CROWN of colours, certain coloured rings
which like halos appear about the body
of the sun or moon, but of the colours
of the rainbow, and at a less distance
than the common halos. These crowns,
Sir Isaac Newton shews to be made by
the sun's shining in a fair day, or the
moon in a clear night, thro' a thin cloud in the knee, that the hair
smaller; and the more equal these glo-
bules are to one another, the more crowns
so called because the croches are raised

CROWNED, in general, something orna-
mented with a crown. See CROWN.

CROWNED, in the manage; a horse is said
to be crowned, when, by a fall, or any
other accident, he is so hurt or wounded
in the knee, that the hair fades and falls
off, without growing again.

CROWNED HORN-WORK, in fortification,
a horn-work with a crown-work before it. See CROWN-WORK.

CROWNED TOPS, the first of a deer,
so called because the croches are raised
in form of a crown. See CROCHES.

CROWNING, in architecture, is under-
stood of any thing that finishes a deco-
roration. Thus a cornice, a pediment,
acroteria, are called crownings. See the article ACROTERIA.

Thus also the abacus is said to crown the capital. And any member or moulding
is said to be crowned, when it has a
fillet over it. And a niche is crowned
when it is covered with a capital.

CROYDON, a market-town in Surrey,
about ten miles south of London.

CRUCIAL INCISION, in surgery, an in-
cision made in form of a cross.

CRUCIANELLA, in botany, a genus of
the tetrandria-monogynia class of plants.
The flower consists of one single petal:
the tube is of the figure of a cylinder,
larger than the cup, and the limb is qua-
drifid and small. The fruit is two caps-
ules growing together, and containing
oblong solitary seeds.

CRUCIATA, CROSS-WORT, in botany,
the same with valantia. See the article VALANTIA.

It is said to be one of the principal vul-
neraries, and a good expectorant.

CRUCIBLE, a chemical vessel made of
earth, and so tempered and backed as to
endure the greatest fire. They are used
to melt metals, and to flux minerals,
ores, &c.

The figure of a crucible is commonly
that of an obtuse conoid, with its base at
the top, and obtuse apex at the bottom;
whence this conical figure may be varied,
till
From this eggs, or thinking the free body which is secreted by botanists, for flowers consisting of four petals disposed in the form of a cross: such are the flowers of cabbage, rocket, wall-flower, &c. See Flower. From this structure of the flower, Tournefort has denominated one of his classes of plants cruciformes; comprehending all plants with cruciform-flowers, called by Linnaeus tetradyemia. See the articles Tetradynamia and Botany.

CRUCIS EXPERIMENTUM. See the article Experimentum-cruces.

CRUDE, an epithet given to something that has not passed the fire, or had a proper degree of concoction. Crude antimony, is that which comes from the mines without any preparation, except once melting.

CRUDE OR RAW SILK. See Silk.

CRUDE SUGAR. See Sugar.

CRUDITY, among physicians, is applied to undigested substances in the stomach; to humours in the body which are unconceived, and not prepared for expulsion; and to the excrements. There are two remarkable crudities in the stomach, the acid and nidorose. The first is when the aliments turn into a fixed acid liquamen more or less vicid, being not sufficiently attenuated and volatilized, which is the origin of chronic diseases. An acid crudity discovers itself by the heart-burn, by acid eructations in abundance, and by coltivenefs. It is corrected by absorbent and alkaline medicines, by volatile aromatics, &c. after which cathartics may be given; for if this method be not observed, purging medicines will not make their proper evacuations, but only cause gripings and spafs in the bowels. A nidorose crudity is when the aliments are so far corrupted, that they are turned into a putrilaginous liquamen of a very unfavory taste and smell, which is called a nidor. It is attended with fetid eructations something like the smell of fried eggs, or flinking fish; and very often with the heart-burn, and a sort of nauseating rising into the mouth from the stomach.

With relation to the cure, an emetic should be given, or at least the body gently purged with rhubarb and tamarinds, after which acidulated juleps are good.

The crudity of the humours or morbid matter in a diseafè, is discovered chiefly from a fault in the quantity or quality of the circulating as well as the secreted humours, as of sweat, mucus, saliva, urine, pus, blood, &c.
The urine is a bad sign in fevers; in ardent fevers it is a sign of phreny.

**CRUISE**, in the sea-language, signifies to fall back and fore within a certain space of the sea, as well to annoy the enemy, as to protect our own trading vessels.

**CRUISING**, in the British navy, men of war lent upon a cruise. See CRUISE.

**CRUMENTATA**, among zoologists, animals furnished with a pouch, or bag, wherein to receive their young in time of danger. The opolium is the only one, hitherto known, that is so furnished. See the article OPUS.

**CRUOR, among anatomists**, sometimes signifies the blood in general; sometimes only the venous blood; and sometimes extravasated, or coagulated blood.

**CRUPINA**, a name used by some for the far-thistle.

**CRUPPER**, in the manage, the buttocks of a horse, the rump; also a thong of leather put under a horse's tail, and drawn up by thongs to the buckle behind the saddle, so as to keep him from calling the saddle forwards on his neck.

**CRURO CLITORIS**, in anatomy, two legs of the clitoris, which run from the os pubis, and are three times as long as the clitoris in its natural state. See the article CLITORIS.

**CRURO MEDULLAE OBLONGATAE**, the two largest legs or roots of the medulla oblongata, which proceed from the cerebrum. See BRAIN, CEREBRUM, and MEDULLA OBLONGATA.

**CRUSAEUS, or CRUERUS MUSCULUS**, in anatomy, a fleshy mass, covering almost all the foreside of the os femoris, between the two vasti, which likewise cover the edges of this muscle on each side. It is fixed to the foreside of the os femoris, from the anterior surface of the great trochanter, down to the lowest quarter of the bone, by fibres which run down successively over each other, between the two vasti; and are partly united to these two muscles, so that they do not seem to form a distinct muscle.

**CRURAL, in anatomy**, an epithet given to the artery which conveys the blood to the crura, or legs, and to the vein by which this blood returns towards the heart. The crural artery springs from the external branch of the iliac artery, upon which it lies, and is divided into two parts, the external and internal: the external is smaller, and is distributed throughout the external part of the thigh; the internal is larger, and forms the popliteæ, the sartorius, and the tibial artæries, and is afterwards, from the extremities of these, divided into a multitude of branches, to which anatomists have given no name, in the foot. The crural vein, which runs to the feet, and the internal branch of which, towards the internal malleolus, is called the saphenæ; and its external about the knee, poplītæ; in the intermediate part of the leg it is called suralis; and about the great toe of each foot, the cephalic vein of the foot.

**CRUS, in anatomy**, all that part of the body contained between the buttocks and the toes; it is divided into the thigh, leg, and foot. See THIGH, LEG, and FOOT.

**CRUSTACÆA**, an Italian term signifying bran, is in use among us to denote that celebrated academy called della crusca, established at Florence, for purifying and perfecting the Tuscan language.

As this academy took its name from its office, which is to refine the language, and separate it from the bran, its device is a sieve, and the motto, IL PIV BEL FIOR NE COGLIE. That is, it gathers the finest flower thereof. In the apartment where the academy meets, every thing bears allusion to the name and device. The seats are in form of a baker's basket, and the cushions resemble packs.

**CRUSTA VILLOSA**, in anatomy, the fourth tunic, or coat, of the stomach. See the article STOMACH.

Innumerable villi, or fibrillæ, are seen on the inner surface of this coat, rising every where perpendicularly from it, supposed, by Dr. Drake, to be excretory ducts to the subjacent glands.

**CRUSTA LACTEA**, in medicine, the same with acbor, being scabby eruptions with which the heads of children are often troubled. See the article ACBOR.

In the cure, externals, especially such as are repellent, should be avoided; and things should be given inwardly which correct and temperate the blood, and expel the noxious matter by a diaphoresis. After the prime vitæ are purged, both the nurse and child should take alexipharmics in the morning, and the tefaceous powders, with calx antimonii, amber and cinna bar, in the afternoon.

**CRUSTACEOUS, an appellation given to animals covered with thorns made up of several pieces, in contradistinction to those consisting of a single piece; the former are known, among authors, by the name**
CRY [800] CRY

of malacostraca; and the latter, by that of terebrate. See Malacostraca and Testaceae.

Cryysage, a species of shark with a triangular head, somewhat approaching to the figure of that of the zygæa, or hammer-headed shark. See Zygæa.

Cruz, or St. Croix, one of the Caribbeyslands, situated about sixty miles south-east of Porto-Rico, and subject to France: well long, 64°, and north lat. 17° 30'.

Cruzado, the name with croifade. See the article Croisade.

Cruzado, in commerce, a portuguese coin, struck under Alphonius V. about the year 1457, at the time when pope Calixtus sent thither the bull for a croifade infinite varieties in the number of angles, with single pyramids, composed either of twelve or ten planes, in an hexagonal or pentangular column, affixed irregularly, at one end, to some solid body, and terminated, at the other, by an hexagonal or pentangular pyramid.

These are all the general forms into which crystal, when pure, is found concreted: but under these there are almost infinite varieties in the number of angles, and the length, thickness, and other accidents of the columns and pyramids.

When crystal is blended with metallic particles at the time of its formation, it assumes a variety of figures wholly different from these, constituting a fourth order, under the name of mettalline crystals: when that metal is lead, the crystal assumes the form of a cube; when it is tin, of a quadrilateral pyramid, with a broad base; when iron, the crystal is found concreted in rhomboïdal crystals: these crystals are very common about mines; but the common fpars, which are liable to be influenced in the same manner by the metals, and to appear in the very same form, are to be carefully distinguished from them. There is one very easy test for this purpose, which is, that all fpars are subject to be dissolved by aquafortis, and effervescce violently only on its touching it: but it has no such effects on crystal. See plate IX. where n° 1. represents the first order, n° 2. the second, n° 3. the third, and n° 4. the mettalline crystals.

The pebble crystal is common enough in all parts of the world; but that which is formed of hexagonal columns, affixed to a solid base at one end, and terminated by a hexagonal column at the other, is infinitely more so: this is what we call spig or rock crystal, and is the species described by most authors under the name of crystal of the flops, or that kept for medicinal use.

It is to be chosen the clearest, purest, and most transparent that can be had: it should be proved to be no spar, by means of aquafortis, or by drawing a point of it along a pane of glass, which it cuts in the manner of a diamond. It is found in vast abundance in many parts of
CRYSTALS

Order 1.

Order 2.

Order 3.

Order 4.
CRYSTALS of mars, called also falt or vitriol of mars, a preparation of oil of vitriol and filings of iron, of use in opening obstructions of all kinds, and strengthening the vitreous. See SAL MARTIS.

CRYSTAL of venus, called also vitriol of venus, copper reduced into the form of vitriol by spirit of nitre. It is also used as a cautic. See the articles COPPER and VITRIOL.

CRYSTALLI, among physicians, erup tions about the size of a lupin, white and transparent, which sometimes break out all over the body.

CRYSTALLINE, in general, something composed of, or resembling crystal. See the article CRYSTAL.

CRYSTALLINE HEAVENS, in ancient astronomy, two spheres, imagined between the primum mobile and the firmament, in the ptolemaic system, which supports the heavens solid, and only susceptible of a single motion. See the article PTOLEMAIC SYSTEM.

According to Regio Montanus, the first crystalline serves to account for the flow motion of the fixed stars, causing them to advance a degree in seventy years, from west to east, according to the order of the signs, which occasions the precession of the equinoxes: the second serves to account for the motion of trepidation, whereby the celestial sphere vibrates from one pole towards another, occasioning a difference in the sun's greatest declination. The modern astronomers account for these motions in a more natural and intelligible manner. See EQUINOX and DECLINATION.

CRYSTALLINE HUMOUR, in anatomy, a thick, compact humour, in form of a flattish convex lens, situated in the middle of the eye, serving to make that refraction of the rays of light, necessary to make them meet in the retina, and form an image thereon, whereby vision may be performed. See the article EYE.

It is included by the affinities of an extremely fine tunic in the fovea of the vitreous humour, and is suspended by means of the ciliar ligament, between the aqueous and vitreous humour, immediately behind the pupil; in this place it hangs free, and is moveable by means of the ligament just mentioned. It is composed of a multitude of lamelle, like the coats of an onion; and therefore also pellucid and vafulous. There is also a small quantity of the aqueous humour contained within or under its coat. See EYE.
CRYSTALLIZATION, in chemistry, the concretion of a salt, before dissolved in water. See the article SALT.

The intentional end of crystallization, is to render the salts pure and distinguishable, as well by freeing them from feculencies, and giving them their proper form, as by separating each kind from every other with which they may happen to be mixed.

The manner of performing it is to make a saturate solution of the salts, in boiling water, either by adding the salts, if dry, to the water, or by evaporating the redundant water, if they were before dissolved, and then putting the solution into a proper vessel, and suffering it to stand at rest, in a cool place, till the crystals are formed. This is perfected in a longer or shorter time, according to the degree of heat or cold of the weather. It is nevertheless best, not to be too hastily in taking out the crystals, for there will be some continuance of their increase, for a considerable length of time, and the quantity therefore obtained, by each operation, proportionally greater. When the full quantity of crystals is formed, the remaining solution, called, in this case, the mothers, is to be poured off; and what the crystals retain, must be drained off from them, which may be best done by putting them into an earthen colendar, on the surface of filtering paper. The crystals being thus taken from their mothers, they may be again evaporated, or dry salts may be added to them, whilst boiling, till a saturation of the hot solution is again produced, and on their being treated as before, a second quantity of crystals will be obtained. By the same method repeated, nearly the whole quantity of salts may be converted into crystals.

This is all that is necessary, when the salts are pure; but if they are mixed with any feculencies, it is requisite that, before the solution is set to freeze, filtration should be used. See the articles FILTRATION, and DEPURATION.

CRYSTALLOIDES, the crystalline tuınc of the eye; a fine membrane containing the crystalline humour. See the article CRYSTALLINE HUMOUR.

CRYSTALLOMANCY, κρυσταλλομανσία, in antiquity, a kind of divination, performed by means of a mirror, wherein the figures of the things required are said to have been represented.

CUBA, a name used by some for all pelucid gems. See the article CRYSTALLUS LAPIS.

CUANDA, a name sometimes given to the porcupine. See the article FORCUPINE.

CUB, a bear's whelp. Among hunters, a fox and martens of the first year, are called cubs.

CUBA, an island of north America, situated in the Atlantic ocean, between 74° and 87° of west long. and between 20° and 23° north lat. being eight hundred miles and upwards in length from east to west, and generally about seventy miles broad. It lies about fifty miles west of Hispaniola, and seventy-five north of Jamaica.

CUBAGUA, an American island, situated between the islands of Margaratta and Terra Firma, and subject to Spain; west long. 64°, and north lat. 10° 15'.

CUBATURE, of a solid, in geometry, the measuring the space contained in it; or finding the solid content of it.

CUBBRIDGE-HEADS, in the sea language, are the bulk heads of the forecastle, and the half decks, wherein there are placed murdering pieces, &c. to clean the decks, fore and aft, upon occasion.

CUBE, in geometry, a solid body, consisting of six equal square sides. See plate LVII. fig. 3, where ABCD constitutes the top square, AEFB, one of the sides, &c.

The solidity of any cube is found by multiplying the superficial area of one of the sides by the height. Cubes are to one another in the triplicate ratio of their diagonals; and a cube is supposed to be generated by the motion of a square plane, along a line equal to one of its sides; and at right angles thereto; whence it follows, that the planes of all sections, parallel to the bale, are squares equal there-to, and, consequently, to one another.

CUBE, or CUBIC NUMBER, in arithmetic, which is produced by the multiplication of a square number by its root, thus, 64 is a cube number, and arises by multiplying 4, the square of 4, by the root 4.

CUBE, or CUBIC QUANTITY, in algebra, the third power in a series of geometrical proportions continued; as a is the root, a a the square, and a a a the cube. All cubic numbers may be ranged into the form of cubes; as 8 or 27, whose sides are 2 and 3, and their bases 4 and 9; whence it appears, that every true cubic number, produced from a binomial root, consists of three parts,
The cubes of the greater and lesser parts of the root, and of three times the square of the greater part multiplied by the lesser, and of three times the square of the lesser multiplied by the greater, as,

\[ a^3 + 2a^2b + ab^2 = a(a+b)^2 \]

From hence it is easy to understand both the composition of any cubic number, and the reason of the method for extracting the cube root out of any member given. See the following article.

**Cube root of any number, or quantity.** Such a number, or quantity, which, if multiplied into itself, and then, again, the product thence arising, by that number or quantity, being the cube root, this last product shall be equal to the number or quantity whereof it is the cube root, as \( 2 \) is the cube root of \( 8 \), because two times \( 2 \) is 4, and two times \( 4 \) is 8; and \( a + b \) is the cube root of \( a^3 + 2a^2b + ab^2 + b^3 \).

Every cube number has three roots, one real root, and two imaginary ones, as the cube number \( 8 \) has one real root \( 2 \), and two imaginary roots, viz. \( \sqrt[3]{-3} + i \) and \( \sqrt[3]{-3} - i \); and generally if \( a \) be the real root of any cube number, one of the imaginary roots of that number will be \( a + \sqrt[3]{-3} \) and the other \( a - \sqrt[3]{-3} \).

**Duplication of a Cube.** See the article Duplication.

**Cubebis, Cubeba.** Of the shops, in the materia medica, a small dried fruit, resembling a grain of pepper, but often somewhat longer, brought into Europe from the island of Java. They are to be chosen large, fresh, and sound. Cubebis are an aromatic, though not of a very strong smell; and are acid and pungent to the taste, though less so than pepper. They abound in a fine, thin, effential oil, which may be separated from them, in very considerable quantities, by distillation, in an alembic, with water, in the common way; they are warm and carminative, and are esteemed good in vertigoes, palpies, and in disorders of the stomach. The Indians steep them in wine, and esteem them provocatives to venery. The dose is from three grains to fix or eight: but they are seldom given singly.

**Cubic, or Cubical, Equation.** In algebra, one whole highest power consists of three dimensions, as \( x^3 = a^3 - b^3 \), or \( x^3 + rx = p^5 \), &c. See the article Equation.

**Cubic foot of any substance.** So much of it as is contained in a cube, whose side is one foot. See the article Cube.

**Cubic Hyperbola.** See the article Hyperbola.

**Cubic Parabola.** See Parabola.

**Cubidia.** A genus of spar. See the article Spar.

**Cubit.** In the mensuration of the antients, a long measure, equal to the length of a man's arm, from the elbow to the tip of the fingers. Dr. Arbuthnot makes the English cubit equal to 18 inches; the Roman cubit equal to 1 foot, 5, 406 inches; and the cubit of the scripture equal to 1 foot, 9, 888 inches.

**Cubitæus.** In anatomy, the name of two muscles; the one called cubiteus externus, being the first of the extensor muscles of the fingers, arises from the external extuberance of the humerus, and passing its tendon, under the ligamentum annulare, is inserted into the fourth bone of the metacarpus, that sustains the little finger; the other is the cubiteus internus, which arises from the internal extuberance of the humerus, and upper part of the ulna, upon which it runs all along, till it passes under the ligamentum annulare, and is inserted, by a strong and short tendon, into the fourth of the first order of the carpus.

**Cubitus.** In anatomy, a bone of the arm, reaching from the elbow to the wrist, otherwise called the ulna. The cubitus, for the sake of the more easy and varied motion, is composed of a binary number of bones, called the cubitus, or ulna, and the radius. The situation of the ulna is exterior, its length is greater than that of the radius, and has a motion of flexion and extension.

**Cuboides, or Os Cuboides.** In anatomy, the seventh bone of the foot, so called from its resembling a cube. It is situated in the external side of the tarsus, where it receives the outer bone of the metatarus, and is articulated with the neighbouring bones.
CUBUS CUBI, the ninth power of any number or quantity. See Power.

CUCKING-STOOL, antiently called tumbrrel, an engine invented for the punishment of scolds, and unquiet women, by ducking them. This instrument was a sort of chair, in which the offender was fastened, and so ducked: it was formerly made use of to punish bakers, and brewers, upon tranf­gressing the laws made in relation to their several trades; for upon offending in this respect, they were ducked, or plunged in some stinking, muddy pond, by means of this chair.

CUCKOW, in ornithology, the English name of a well known bird, called by zoologists cuculus. See Cuculus.

CUCKOW-FLOWER, in botany, a name sometimes given a plant, more generally called cardamine, or lady's finock. See the article Cardamine.

CUCKOW-SPIT, the fame with froth-spit. See the article Froth-Spit.

CUCKOW-SPIT-INSECT, a species of cicada, so called from its producing the froth-spit. See Cicada.

CUCKSOO, a dish much used by the moors of Africa: it is prepared of wheat-flour, barley, or millet, formed into a kind of paste, or dough, and reduced to small grains; these they place over a colander, covering a pan wherein meat is stewed, so as to receive the fleas of the meat; and by the time that the meat is done, the cuckold is too.

CUCUBALUS, in botany, a genus of Cucularia. See Cucularia.

CUCULARIA, in botany, a genus of plants, whose corolla consists of five petals; the unges of which are of the length of the cup, the limb plain, and the bracteae kind. The fruit is a small, roundish, acuminate capsule; the seeds are numerous and roundish. See plate LXI. fig. 2.

CUCULARIA, in zoology, a species of phalene, or moths, with simple antennæ, a spiral tongue, and the forehead a little prominent. See the article Phalena.

CUCULLARIS, in anatomy, a muscle of the scapula; otherwise called trapezius; it arises from the os occipitis, the spinous apophyses of the neck, and of the seventh and eighth of the back. Its termination is at the spine of the scapula. It has the power of several very different motions; the different course of its several fibres enabling it, as they act differently, to move the scapula upwards, downwards, or backwards.

CUCULLUS, in matters of dress, was formerly a traveller's cap, called also cawl, gaul, or gula; whence the name passed to the monks, among whom it signified their frock and cap, which were of one piece.

CUCULLUS, in the history of shells, a name sometimes used for the voluta. See the article Voluta.

CUCULLUS, the Cuckow, in ornithology, a genus of birds, of the order of the picœ, the character of which are these: the beak is smooth; the nostrils are a little prominent; the tongue is intire, and fagittated; the toes are four in number, two before and two behind.

The common cuckoo is a bird of considerable beauty, which breeds with us, but does not remain all the year. Its head, neck, and back are of a hoary colour, with some dark grey feathers; the wings are of a brownish black, the throat of an undulated flesh colour, and the belly whitish. This is the colour of the female; from which the male differs in some particulars. See plate LXIV. fig. 1.

The great spotted cuckow is about the size of a magpie, or jay, and is the most elegant bird of its kind. See plate LXVI. fig. 1.

The crown of the head is covered with soft feathers, of a bluish ash-colour, somewhat resembling a crest; the upper part of the body is a dark brown; all the quill-feathers of the wings are tipped with white, as are those of the tail.

CUCULUS, in ichthyology, a name given to several species of trigla, known among us by the name of gurnard. See the articles Trigla and Gurnard.

CUCUMBER, cucumis, in botany, a genus of the monoecea-fyngenesia class of plants: the corolla is formed of a single campanulated petal, and divided in five segments; the calyx and corolla of the female flower, are the same as those in the male: the fruit is fleshy like an apple, containing three cells: the seeds are numerous, comprefsed, ovato-acute, and placed in a double row. See plate LIV. fig. 9.

Besides the use of cucumbers as a food, their seed is one of the four greater cold seeds of the shops, and is almost an universal ingredient in emulsions, and is found of great service in fevers and nephritic complaints.
Widt Cucumber, the same with the clat-
aturium, or momordica of botan-
terium, or momordica of botan-
ical writers. See the article Momordica.

Cucupha, in antient medicine, a cap for
the head, with cephalic powders quilted
therein, much worn in dillempers that
affected the head, or against catarrhs,
defluxions, &c.

Cucurbit, in chemistry, an earthen,
or glafs vessel, so called from its refe-
blance to a gourd, arising gradually
from a wide bottom, and terminating
in a narrow neck.

This instrument is of great use in che-
chemical distillations, digestions, and subli-
mations. The more the wideness of
the bottom, at its largest part, surpasses
the narrowness of the neck, and the narro-
er and longer the neck is, with the
greater difficulty is the liquor in the
cucurbit distilled. Upon these circum-
stances depends the choice we ought
to make of cucurbits.

Blind Cucurbit is a small inverted cu-
curbit, adapted to another, in such a
manner, that the neck of the one is in-
serted in that of the other. The vessel
called circulatory, is one of this kind.

Cucurbita, the Gourd, in botany,
a genus of the monoecia-fingerenia class
of plants; the corolla which is formed
of a single campanulateli petal,
divided into five segments. The fruit is apple-
like, and contains three membranaceous
cells: the seeds are numerous, com-
pressed, tumid, obiufe, and placed in
two rows. See the article Gourd.

Cucurbitaceous, an apellation
sometimes given to the gourd, melon,
pomipion, and other plants producing
the greater cold feeds of the shops.

Cucurbitula, denotes a cupping-
glas.

Cucuri, in ichthyology, a species of
the brasilian shark, no wise mithievous,
and about two feet and a half long. See
the article Shark.

Cucurucu, in zoology, an american
ferpent, of a yellowish colour, varie-
gated with black spots, and growing to
ten or twelve feet in length.

Cud, sometimes means the infide of the
throat in beasts, and sometimes the food
that they keep there, and chew over-
again: from whence, to chew the cud
signifies, to ponder, think, or ruminate
upon a thing.

Cud Lost; cattle sometimes lose the cud
by chance, sometimes by sicknes, po-
vety, mourning, &c. to cure which,
take four laven of rye-bread, and salt,
and mixing it with human urine and
barn, beat it in a mortar; then making
a large ball or two thereof, put them
down the beast's throat.

Cuddy, in great ships, a place lying be-
tween the captain-lieutenant's cabin, and
the quarter-deck, under the poop. It is
divided into partitions for the master
and other officers.

Cudweed, the englise name of a genus
of plants called by authors flago and
gnaphalium. See Gnaphalium.

Cue, among stage-players, an item, or
innuendo, given to the actors on the
stage, what, or when to speak.

Cuenca, a city, and bishop's see, of
New Cadile, in Spain, about eig.
five miles east of Madrid, west longi-
2° 40', and north lat. 40° 12'.

Cuguacaranana, in zoology, an
american beast of prey, seemingl
ly of the leopard-kind.

Cuguacurete, a brasilian animal of
the deer-kind, the female whereof has
no horns; with which those of the male
sex are furnished, being divided into
three branches at the bale, from whence
they run up sngle to the tops, where
they are bifid.

Cui ante divorium, a writ that a woman,
divorced from her husband, has to re-
cover her lands and tenements, which,
before her couverture, the held in simple
fee, in tail, or for life, from a person to
whom the husband had alienated them
during the marriage, when it was not in
her power; to gainlay it.

Cui in vita, a writ of entry, which a
widow may have against him to whom
her husband in his life-time did alienate
her lands or tenements, without her con-
ent first had, and lawfully joining
therein.

Cujete, in botany, the name by which
Plumier calls the crescentia of Linneas.
See the article Crescentia.

Cuirasce, a piece of defensive armour,
made of iron plate, well hammered,
serving to cover the body, from the neck
to the girdle, both before and behind:
whence,

Cuirassiers, cavalry armed with cui-
rasseries, as most of the germans are: the
french have a regiment of cuirassiers;
but we have had none in the englise
army, since the revolution.

Cuiriri, in ornithology, a brasilian
bird of the sternus, or firaling-kind. See
the article Sturnus.

Cul
CULM, in architecture, a term used for several decorations, both of masonry and joinery, found in vaults and ceilings, to finish the bottom of works; and wreathed something in manner of a tuftudo, particularly, a kind of pendant in gothic vaults.

CULM de four, a sort of spherical vault, like an oven. See the article VAULT.

CULM de four of a niche, signifies the arched roof of a niche, on a circular plan.

CULDEES, in church history, a sort of monkish priests, formerly inhabiting Scotland and Ireland. Being remarkable for the religious exercises of preaching and praying, they were called, by way of eminence, cultores Dei; from whence is derived the word culdees. They made choice of one of their own fraternity to be their spiritual head, who was afterwards called, the Scots bishop.

CULEUS, in roman antiquity, the largest measure of capacity for things liquid, containing twenty amphorae, or forty urnæ. It contained one hundred forty-three gallons, three pints, English wine measure; and was 11.095 fold inches.

CULEX, in zoology, a genus of two-winged flies, the mouth of which is tubular, like a siphon, but exceeding slender, and filiform. Under this genus are comprehended the gnats, and humble-bees. See the article GNAT, &c.

CULIACAN, the capital of a province of the same name in Mexico, opposite to the southern end of California. West long. 115°, and north latit. 24°.

CULLIAGE, a barbarous and immoral practice, whereby the lords of manors antiently assumed a right to the first night of their vassals' brides.

CULLEMBACK, or CULLEMBERG, a marquisate in the north-east part of the circle of Franconia, in Germany.

CULLEN, a parliament town in Scotland, situated on the sea-coast of Berwickshire, west long. 2° 12', and north lat. 57° 38'.

CULLION, one of the many names for orchis. See the article ORCHIS.

CULLIS, in cookery, a strained liquor made of any sort of meat, and other things, pounded in a mortar, and passed through a sieve.

CULM, among botanists, a term used to denote the stalk of grasses, hence called culmiferous plants. See the next article.

CULMIFEROUS PLANTS, in botany, such plants as have a smooth jointed stalk, usually hollow, and at each joint, wrapped about with siphone, narrow, sharp-pointed leaves, and their seeds contained in chaffy husks, as wheat, barley, &c.

CULMINATION, in astronomy, the passage of any heavenly body over the meridian, or its greatest altitude for that day. The culmination of any star may be found by the globe. See GLOBE.

As in the horizon all stars first appear and disappear, so, in the meridian circle, they all arrive to their greatest height: and likewise, they are at the greatest depression, below the horizon, when they arrive at the same meridian. Now, since the meridian makes right angles, both with the equator and the horizon, it will divide the segments of the equator, and all its parallels, as well those that lie above the horizon, as those which are below it, into equal portions, and therefore the time between the rising of a star, and its culmination, or arrival at the meridian, will be equal to the time between this culmination and its setting.

The medium coeli, or mid heaven, is that part of the ecliptic which culminates.

CULMORE, a town of Ireland, in the county of Londonderry, and province of Ulster, about five miles north of Londonderry: west long. 7° 40', and north lat. 55°.

CULMUS, the culm of plants. See the article CULM.

CULPABLE, Culpabilis. See the article, Non est culpabilis.

CULPIT, a formal reply of a proper officer in court, in behalf of the king, after a criminal has pleaded not guilty, affirming him to be guilty, without which the issue to be tried is not joined. After an indictment, for any criminal matter, is read in court, the prisoner at the bar is asked whether he is guilty, or not guilty, of the indictment? if he answers, not guilty, there is a replication by the clerk of the arraignments from the crown, by continuing the charge of the guilt upon him, which is expressed in the word culprit.

The term culprit is a contraction of the latin culpabilis, and the french prift; importing that he is ready to prove the criminal guilty.

CULKROSS, a parliament-town of Scotland, situated on the river Forth, about twenty-three miles north-west of Edinburgh.
CUN

burgh: west long. 3° 34', and north lat. 56° 8'.

Cultellation, a term used by some authors for the measuring of heights and distances, by instruments which give us those distances only in parts.

Cultrarius, an appellation given to the antient popes, from their whetting the knives used in sacrifices.

Culture of lands. See Agriculture.

Culture of hops, wheat, barley, &c. See the articles Hop, Wheat, Barley, Sowing, Planting, &c.

Culverin, in the military art, a large cannon, or piece of artillery, for the fathoms wide, funk along the middle of a dry moat, to make the passage more difficult to the enemy.

Cuneus, the wedge, in mechanics. See the article Wedge.

Cuneus, in antiquity, a company of infantry, drawn up in form of a wedge, the better to break through the enemy's ranks.

Cuneus was also a series of benches in the theatre at Athens, narrower near the stage, and broader behind, in resemblance of a wedge.

Cuneus, in natural history, a kind of fossil muscle-shells, with one side much longer than the other, and found in vast numbers in many parts of the kingdom.

Parabolic Cuneus, in geometry. See the article Parabolic.

Cuniculus, the rabbit, in zoology, a well known animal of the lepus, or hare-kind, with an abrupt tail, and red eyes. See Lepus and Rabbit.

Cuniculus, among miners, denotes the different kinds of horizontal passages, or cuts in mines. See the articles Mine.

Cunila, in botany, a genus of the didymandra-gymnofernia class of plants, whose flower consists of a single ringent petal; the tube is shorter than the cup; the upper lip is ereft, fornicated and emarginated; the lower lip is very slightly divided into three parts: there is no pericarpium, the fruit being shut up in the inner neck of the cup; there are four ovated seeds.

Cunila Bubula, a name antiently given to origanum, or wild marjoram.

Cunning. See Cun.

Cunningham, one of the four bailiwick of Scotland, and one of the three into which the shire of Aire is subdivided. It lies north-eaft of Kyle. Its chief town is Irwin. See the article Aire.

Cunus, in anatomy, denotes the female pudendum. See Pudendum.
CUNNUS MARINUS, in the history of shellfish, a species of concha. See CONCHA.

CUP, a velvèt of capacity of various forms and materials, chiefly used to drink out of.

CUP, among botanists, the same with calyx. See the article CALYX.

CUPANIA, in botany, a genus of the pentandria-monogynia class of plants, the corolla of which consists of five roundish, patent petals, less than the cup: the fruit is a coriaceous capsule, of a turbinate oval figure, formed of three valves, and containing only one cell; the seeds are six in number, and roundish; each has a proper receptacle of a campanulate figure, and crenated, surrounding it.

CUPOLA, in architecture, a spherical vault; or the round top of the dome of a church, in form of a cup inverted. See the article DOME.

CUPPEL, or COPPEL, in chemistry. See the article COPPEL.

CUPPING, in surgery, the operation of applying cupping-glasses for the discharge of blood, and other humours, by the skin.

The operation of cupping is not confined to any particular member of the body; but wherever the cupping-glass is applied, it is fixed upon the skin, either entire or scarified, and hence we have a twofold distinction of cupping, into dry and gory.

In dry cupping, the glass adheres to the skin, by expelling or rarefying the included air by lighted flax, or the flame of a burning candle within it, so that the glass is prefixed upon the part with a considerable force, by the external air. The use of this dry cupping is twofold, either to make a renovation of the blood, from some particular parts affected, or else to cause a derivation of it into the affected part, upon which the glass is applied: hence we have a reason why Hippocrates orders a large cupping-glass to be applied under the breasts of a woman who has too profuse a discharge of her menstres, intending thereby to make a renovation of the blood upwards from the uterus. Dry cupping is also used, with success, to make a renovation, by applying the glasses to the temples, behind the ears, or to the neck and shoulders, for the removal of pains, vertigoes, and other disorders of the head: they are applied to the upper and lower limbs, to derive blood and spirits into them, when they are paralytic; and, lastly, to remove the sciatica, and other pains of the joints. The operation in these cases is to be repeated upon the part, till it looks very red, and becomes painful.

In Germany, and other northern countries, cupping is much oftener joined with scarification, than used alone; in which case the part is first to be cupped, till it swells and looks red, and the skin is to be punctured, or incised, by the scarifying instrument.

As several glasses, sometimes six or eight, are often applied at once, the operator must manage his business so, that some glasses may be filling, while he is scarifying, and adapting the others. When the blood ceases to flow fast enough, he must repeat his incisions, close by the former, and re-apply the cupping-glasses. The operation being finished, and the skin well cleansed with a sponge, and warm water, it is next to be rubbed over with a bit of deers feet, to promote the healing: but if the blood still continues to flow, the skin is to be washed with spirit of wine and Hungarian water, binding it up with a compress and bandage. The cupping-glasses and instrument are represented in plate LXIV. fig. 2.

This instrument consists of a brass-box, on one of whose sides are a number of lancets moveable by a spring within the box. When this side is applied to the skin, the spring is to be raised by the handle A; and on depressing the pressure, the handle B begins the lancets to pierce the skin at all once.

CUPRESO-PINULUS, in botany, a genus of plants called by Linnaeus, brunia. See the article BRUNIA.

CUPRESSUS, the CYPRESS-TREE, a genus of the monoecia-monadelphia class of plants, having no corolla: the calyx of the male flower is a squama of an amentum; the anther, being four in number, are sessile, and have no filaments: In the female flower, the calyx contains two, and is a squama of a strobilus: It has no corolla; there are hollowed points in the place of fyles: there is no pericarpium: the fruit is a subglobe cone, shut up, opening with roundish and pointed squamas; under which is contained the seed, being an angular, acuminate, small nut. See plate LXI. fig. 3.

CUPRUM, COPPER, in natural history. See the article COPPER.
CUR, or CYRUS, a river of Asia, which taking its rise in mount Caucasus, and running south through Georgia, and the province of Chervan, in Persia, unites with the river Araxes, or Araxes, and continues its course eastward to the Caspian Sea.

CURA AVENACIA, among physicians, a diet-drink made of oats, much cried up by some.

CURASSOW, or CURACAO, one of the lesser Antille-Islands, subject to the Dutch, and situated in 68° 30', west long., and 12° 30', north lat.

CURATE, properly signifies the parson, or vicar of a parish, who has the charge, or cure, of the parnifiers souls. See the article Cure.

CURATE, also signifies a person substituted by the incumbent, to serve his cure in his stead. A curate is to be licensed, or admitted by the bishop of the diocese, or ordinary, having episcopal jurisdiction. By the statute, curates, licensed by the bishop, are to be appointed by him a stipend not exceeding 50 l. per annum, nor less than 20 l.

CURATIVE INDICATION, among physicians, that which indicates or directs what is proper to be done for the cure of a disease. See the article Symptom.

CURATOR, among civilians, a person regularly appointed to manage the affairs of minors, or persons mad, deaf, dumb, &c. In countries, where the civil law prevails, minors have tutors alligned to them, till they are of the age of fourteen; between which and twenty-five, they have curators appointed to them. There are also curators for the estate of debtors, and of persons dying without heirs.

CURATOR OF AN UNIVERSITY, in the united Netherlands, an officer that has the direction of the affairs of the university, such as the superintendence of the professors, the management of the revenues, &c. These officers, being elective, are chosen by the states of each province. Leyden has three curators.

CURB, in the manage, a chain of iron, made fast to the upper part of the branches of the bridle, in a hole, called the eye, and running over the horse’s beard. It confines of these three parts, the hook fixed to the eye of the branch; the chain of SS’s, or links; and the two rings or mailles. Large curbs, provided they are round, are always most gentle; but care is to be taken, that it rest in its proper place, a little above the beard, otherwise the bitmouth will not have the effect that may be expected from it.

English watering bits have no curbs; the Turkish bits called Genettes, have a ring that serves instead of a curb. See the article Genettes.

To give a leap upon the curb, is, to shorten the curb, by laying one of the mailles, or SS, like joints of the chain, over the rest.

CURB is also a hard and callous swelling, that runs along the inside of a horse’s hoof, in the great sinew behind, above the top of the horn, which makes him halt, and go lame, when he has been heated. It is to be cured by the like applications as are prescribed in the spavin. See the article Spavin.

CURCULIO, in zoology, a genus of beetles, distinguished from the other kinds, by having the antennae affixed to a long horny rostrum, or snout: of these there are several species enumerated by authors.

CURCUMA, TURMERIC, in botany, a genus of the monandra-monogynia class of plants, the tube of whose corolla, being monopetalous, is narrow; its limb is divided into three segments, which are of a lanceolate figure, and patent; the nectarium is composed of a single leaf, of an ovated, but pointed figure; it is larger than the segments of the petal, and is inflected into the larger sinus made by its opening: the fruit is a roundish capsule, composed of three valves, and containing three cells, in each of which there are a great number of seeds. See the article Turmeric.

CURDISTAN, a province of Persia, having Turcomania, or Armenia, on the north; and Eyraka Arabic, or Chaldea, on the south.

CURDLING, the coagulating any fluid body, especially milk.

'Tis said that, at Florence, they curdle their milk for the making of cheese, with artichoke-flowers; instead of the rennet used among us, for that purpose. The milk of women newly delivered is apt to curdle in their breasts, which occasions violent pains. It arises from the want of being sucked, whence the cure and prevention of this disorder is easily effected.

CURE, or CURAT, a benefice in the christian church, the incumbent whereof has the direction of confinences within a parish. This right is by the canonists called a cure in foro interius tanturn, to differ...
CURIASS, CURIA, in the CURIA PENTICIARUM, a court held by CURIA or called curio. Lights and fires, and go to bed: whence, the temple, or holy place, appointed every curia. The priest of the curia was called curio. The French brandy. Currans greatly contains four bushels, or half a quarter. CURRANS, or CURRANTS, the fruit of a species of grosularia. See the article GROSSULARIA. The white and red sort are mostly used, for the black, and chiefly the leaves, upon first coming out, are in use to flavour English spirits, and counterfeit French brandy. Currans greatly allay the bitterness of grapes brought principally from Zant and Cephalonia. They are gathered off the bunches, and laid to dry in the sun, and so put up in large butts. They are opening and pectoral, but are more used in the kitchen, than in medicine.
CUR [ 811] CUR

CURRENTS, the hundred weight pay on importation 1s. 2s. 10½d. and draw back on exportation 1s. 6s. 4½d.

If imported in venetian ships, they pay the 12lb. 1s. 38½d. and draw back 1s. 8½d. In other foreign bottoms they pay 1s. 7s. 4½d. and draw back 1s. 5s. 6½d.

CURRENT, or COURANT MONE T, that money which passes in commerce from one to another. See COIN.

CURRENT ACCOMPLIS, the book of COIN.
CURRENT COINS, the book of PRICE.
CURRENT PRICE, the book of COIN.
CURRENT, in music, the book of COIN.
CURRE, a fish more generally known by the name of the red-gurnard. See GURNARD.

CURRENT, in hydrography, a stream or flux of water in any direction. In the sea, they are either natural, occasioned by the diurnal motion of the earth round its axis, or accidental caused by the water's being driven against promontories, or into gulphs and straits, where wanting room to spread they are driven back, and thus disturb the ordinary flux of the sea. Dr. Halley makes it highly probable that in the Downs, there are under currents, by which as much water is carried out as is brought in by the upper currents.

CURRENTS in navigation, are certain settings of the stream, by which ships are compelled to alter their course or velocity, or both, and submit to the motion impressed upon them by the current. The knowledge of them being so necessary an article in navigation, we shall give a more accurate way of discovering the way they set, together with their strength, than that of gauging by the ripples of the water, and by the driving of the froth along shore. Take your ship's boat, with three or four men, a compass, a log line with a large log to it, and a kettle or iron pot with a quoll or two of inch rope fastened to its bale. When at a proper distance from the ship, heave your kettle overboard, and let it sink eighty or a hundred fathom, which will ride the boat nearly as fast as if at anchor. Heave your log, and turn your half minute glass, observing at the same time, to set the drift of the log by the compass, then will the knots run out during the half minute, give the current's strength, and the compass its setting. Now to know how to make proper allowances for currents, it is evident, if a current sets just

with the course of the ship, then the motion of the ship is increased by as much as is the drift or velocity of the current. And if a current sets directly against the ship's course, then the motion is retarded in proportion to the velocity of the current. Hence it is plain,

1. If the velocity of the current be less than that of the ship, then the ship will get so much a head, as is the difference of these velocities.

2. If the velocity of the current be greater than that of the ship, then the ship will fall so much after as is the difference of these velocities.

3. If the velocity of the current be equal to that of the ship, then the ship will stand still, the one velocity destroying the other.

If the current thwart the course of a ship, then it not only lessens or augments her velocity, but gives her a new direction compounded of the course she steers, and the setting of the current. Suppose a ship fails by the compass directly south, 96 miles in 24 hours, in a current that sets east 45 miles in the same time. Required the ship's true course and distance. To solve the problem, geometrically, draw AD to represent the south and north line of the ship at A equal to 96; from D draw DC perpendicular to AD equal to 45, and join AC.

Then C will be the ship's true place, AC her true distance, and the angle CAD the true course. To find which, trigonometrically say, as AD is the apparent distance is to DC, the current's motion, so is the radius to the tangent of the true course DAC. Consequently the ship's true course in the present case will be found S. S. E. 20° 37' easterly. Then for the true distance AC, it will be as the line of the course A : is to the departure DC :: radius :: to the true distance AC = 106 miles.

Again, suppose a ship fails south east 120 miles in 20 hours, in a current that sets west by north, at the rate of two miles

\[ \text{per hour.} \]
an hour; required the ship's true course and distance failed in that time. To solve this geometrically. Having drawn the compaus, N. E. S. W. (plate LXII. fig. 6.) let C represent the place the ship failed from, draw the south east line CA, which make equal to 120, then will A be the place the ship caped at.

From A draw AB parallel to the W. by N. line, CD, and equal to 40, the motion of the current in 20 hours, and join CB; then B will be the ship's true place at the end of twenty hours, C B her true distance, and the angle SCB her true course. To solve it trigonometically. In the triangle ABC are given CA 120, AB 40, and the angle CAB equal to 36° 45'; the distance between the E. by S. and S. E. lines; whence the angles B and C will be found by cale 4th of oblique trigonometry, thus B = 15° 42' and the angle ACB = 14° 53'. Hence the true course is S. S' E. 2° 7' easterly. Then for the true distance CB, it will be found by cale 2d of oblique trigonometry equal to 89.5 miles. See the articles Triangle, Trigonometry, Compass, &c.

CURRICULUM, in our antient writers, denotes the year, or course of a year.

CURRIERS, those who drefs and colour leather after it comes from the tan-yard. See the article Skinners.

Perfons in London putting leather to be curried to any but freemen of the curriers company, and such curriers not currying the leather sufficiently, shall forfeit the wares or the value of them. And by 12 George II. cap. xxv. Curriers are to curry leather sent to them, in sixteen days between Michaelmas and Lady-day, and in eight days the rest of the year, or shall forfeit 5l. on conviction before a justice of peace.

CURRUCU, in ornithology, the name by which Géfner calls the hedge-sparrow, or brown motacilla, with a whitish belly. See the article Motacilla.

It is about the size of the red-breast.

CURRYING, the method of preparing leather with oil, tallow, &c:
The chief busines is to loosen and souples cows and calves skins, which make the upper leathers and quarters of shoes, coverings of faddles, coaches, and other things which must keep out water.
1. These skins, after coming from the tanner's yard, having many fleshy fibres on them, the currier soaks them some time in common water. 2. He takes them out and stretches them on a very even wooden horse; then with a paring knife, he scrapes off all the superfluous flesh, and puts them in to soak again.

3. He puts them wet on a hurdle, and tramples them with his heels, till they begin to grow soft and pliant. 4. He soaks them in 'train' oil, which by its unctuous quality, is the best liquor for this purpose. 5. He spreads them on large tables, and fastens them at the ends. There with the help of an instrument called a pummill, which is a thick piece of wood, the under side whereof is full of firrows croffing each other, he folds, squeezes, and moves them forwards and backwards several times, under the teeth of this instrument, which breaks their too great flifliness. This is what is properly called currying.

The order and number of these operations is varied by different curriers, but the material part is always the same.

6. After the skins are curried, there may be occasion to colour them. The colours are black, white, red, yellow, green: the other colours are given by the skinners, who differ from curriers in this, that they apply their colours on the flesh side; the curriers on the hair side. In order to whiten skins, they are rubbed with lumps of chalk, or white lead, and afterwards with pumice-stone. 7. When a skin is to be made black, after having oiled and dried it, he passes over it a puff dipt in water impregnated with iron, and after this first wetting, he gives it another in a water prepared with foot, vinegar, and gum arabic. These different dyes gradually turn the skin black, and the operations are repeated till it be of a shining black. The grain and wrinkles which contribute to the soupleness of calves and cows leather, are made by the reiterated folds given to the skin in every direction, and by the care taken to scrape off all hard parts on the coloured side.

CURSITOR, a clerk belonging to the court of chancery, whose business it is to make out original writs. In the statute 18 Edw. III. they are called clerks of course, and are twenty-four in number, making a corporation of themselves. To each of them is allowed a division of certain counties, into which they issue out the original writs required by the subject.

CURSOR, in mathematical instruments, is any small piece that slides, as the piece in
in an equinoctial ring-dial that slides to the day of the month; the little label of brahs divided like a line of lines, and sliding in a groove along the middle of another label, representing the horizon in the analemma; and likewise a brahs point screwed on the beam-compasses, which may be moved along the beam for the striking of greater or less circles. See the articles Analemma, Beam-compasses, &c.

Curtailing, in farriery, is the docking or cutting off a horse's tail.

This practice is no where so much used as in England, it being a popular opinion, that the taking away the tail, makes the horse's chime or back much longer, and more able to support a burden.

Curtail-double, a musical wind instrument like the flauton, which plays the bass to the hautboy.

Curtain, or Curtin, in fortification. See the article Curtin.

Curtate distance, in astronomy, the distance of a planet from the sun to that point where a perpendicular let fall from the planet meets with the ecliptic.

Curtation, in astronomy, is the interval between a planet's distance from the sun, and the currate distance.

Curtesy, or COURTESY. See the article COURTESY.

Curteyn, curtains, in the British customs, king Edward the confessor's sword, borne before the prince at coronations; its point is said to be broken off, as an emblem of mercy.

Curticone, the name with a truncated cone. See Cone and Truncated.

Curtilla, in ornithology, a name given to the curvis silvaticus, or rook.

Curtin, Curtain, or CURTIN, in fortification, is that part of the rampart of a place which is betwixt the flanks of two baftions bordered with a parapet five feet high, behind which the soldiers stand to fire upon the covered way and into the moat. As it is the left defended of any part of the rampart, besiegers never carry on their attacks against the curtain, but against the faces of the baftions, because of their being defended only by one flank. See the article FLANK.

Angle of the Curtin, that contained between the curtain and the flank.

Complement of the Curtin. See the article COMPLEMENT.

Curvatapinima, a fifth otherwise called bonito. See Bonito.

Curvator coccygis, in anatomy, a name given by Albinus to a muscle of the coccyx, discovered by himself, and not described by any other author.

It arises with a double head, one from the upper and the other from the lower and lateral part of the os sacrum; and descending, terminates in three extremities. He gave the name from its office, which is the bending the coccyx.

Curvature of a line, is the peculiar manner of its bending or flexure by which it becomes a curve of such and such peculiar properties.

Any two arches of curve lines touch each other when the same right line is the tangent of both at the same point; but when they are applied upon each other in this manner, they never perfectly coincide, unless they are similar arches of equal and similar figures; and the curvature of lines admit of indefinite variety. Because the curvature is uniform in a given circle, and may be varied at pleasure in them, by enlarging or diminishing their diameters; the curvature of circles serves for measuring that of other lines.

Of all the circles that touch a curve in any given point, that is said to have the same curvature with it, which touches it so closely, that no circle can be drawn through the point of contact between them. And this circle is called the circle of curvature; its center, the center of curvature; and its semidiameter, the ray of curvature belonging to the point of contact. As in all figures, rectilinear ones excepted, the position of the tangent is continually varying; so the curvature is continually varying in all curvilinear figures, the circle only excepted. As the curve is separated from its tangent by its curvature, so it is separated from the circle of curvature in consequence of the increase or decrease of its curvature; and as its curvature is greater or less, according as it is more or less inclined from the tangent, so the variation of curvature is greater or less, according as it is more or less separated from the circle of curvature.

When any two curve lines touch each other in such a manner that no circle can pass between them, they must have the same curvature; for the circle that touches the one so closely that no circle can pass between them, must touch the other in the same manner. And it can be made appear, that circles may touch curve lines in this manner; that there may be indefinite degrees of more or less intimate contact between the curve and the circle of
of curvature; and that a conic section may be described that shall have the same curve with a given line at a given point, and the same variation of a curve, or a contact of the same kind with the circle of curvature. The rays of curvature of similar arches, in similar figures, are in the same ratio as any homologous lines of these figures, and the variation of curvature is the same. See the article Curve.

CURUG UI, a beautiful american bird of the woodpecker-kind. See Picus.

Curve, in geometry, a line which running on continually in all directions, may be cut by one right line in more points than one.

Curves are divided into algebraical or geometrical and transcendental.

Geometrical or algebraical curves are those whose ordinates and abscissae being right lines, the nature thereof can be expressed by a finite equation having those ordinates and abscissae in it.

Transcendental curve, is such as when expressed by an equation, one of the terms thereof is a variable quantity. See the article transcendental.

Geometrical lines or curves are divided into orders, according to the number of dimensions of the equation expressing the relation between the ordinates and abscissae, or according to the number of points, by which they may be cut by a right line. So that a line of the first order, will be only a right line expressed by the equation \( y + ax + b = 0 \). A line of the second or quadratic order, will be the conic sections and circle whose most general equation is \( y^2 + ax + bxy + cx^2 + dx + e = 0 \). A line of the third order, is that whose equation has three dimensions, or may be cut by a right line in three points, whose most general equation is \( y^3 + ax + bxy + cx^2 + dx + e = 0 \). The fourth order, is that whose equation has four dimensions, or which may be cut in four points by a right line, whose most general equation is \( y^4 + ax + bxy + cx^2 + dx + e = 0 \).

And a curve of the first kind (for a right line is not to be reckoned among curves) is the same with a line of the second order; and a curve of the second order, the same as a line of the third; and a line of an infinite order, is that which a right line can cut in an infinite number of points, such as a spiral, quadratrix, cycloid, the figures of the lines, tangents, secants, and every line which is generated by the infinite revolutions of a circle or wheel.

For the various curves of the first order and their properties, see the articles Conic-sections, Parabola, Hyperbola, Ellipsis, &c.

As to the curves of the second order, Sir Isaac Newton observes they have parts and properties similar to those of the first; thus as the conic-sections have diameters and axes, the lines cut by these are called ordinates, and the intersection of the curve and diameter, the vertex; so in curves of the second order, any two parallel lines being drawn so as to meet the curve in three points, a right line cutting these parallels so as that the sum of the two parts between the secant and the curve on one side, is equal to the third part terminated by the curve on the other side, will cut in the same manner all other right lines parallel to these, and meet the curve in three parts, so as that the sum of the two parts on one side, will be still equal to the third part on the other side.

These three parts, therefore, thus equal, may be called ordinates or applicates: the secant may be titled the diameter; the intersection of the diameter and the curve, the vertex; and the point of concurrence of any two diameters, the center. And if the diameter be normal to the ordinates, it may be called axis; and that point where all the diameters terminate, the general center. Again, as an hyperbola of the first order has two asymptotes; that of the second, three; that of the third, four, &c. and as the parts of any right line lying between the conic hyperbola and its two asymptotes are everywhere equal, so in the hyperbola of the second order, if any right line be drawn cutting both the curve and its three asymptotes in three points, the sum of the two parts of that right line being drawn the same way from any two asymptotes to two points of the curve, will be equal to a third part drawn a contrary way from the third asymptote to a third point of the curve. Again, as in conic-sections not parabolical, the square of the ordinate, that is the rectangle under the ordinates drawn to contrary sides of the diameter, is to the rectangle of the parts of the diameter which are...
are terminated at the vertices of the ellipse or hyperbola, as the latus rectum is to the latus transversum; so in non-parabolic curves of the second order, a parallelopiped under the three ordinates is to a parallelopiped under the parts of the diameter, terminated at the ordinates, and the three vertices of the figure, in a certain given ratio: in which ratio, if you take three right lines situated at the three parts of the diameter between the vertices of the figure, one answering to another, then these three right lines may be called the latera recta of the figure, and the parts of the diameter between the vertices, the latera transversa. And as in the conic parabola, having to one and the same diameter but one only vertex, the rectangle under the ordinates is equal to that under the part of the diameter cut off between the ordinates and the vertex, and the latus rectum; so in curves of the second order, which have but two vertices to the same diameter, the parallelopiped under three ordinates, is equal to the parallelopiped under the two parts of the diameter cut off between the ordinates and these two vertices and a given right line, which therefore may be called the latus rectum. Moreover, as in the conic sections, when two parallels terminated on each side of the curve, are cut by two other parallels terminated on each by the curve, the first by the third, and the second by the fourth; as here the rectangle under the parts of the first, is to the rectangle under the parts of the third; as the rectangle under the parts of the second, is to that under the parts of the fourth; so when four such right lines occur in a curve of the second kind, each in three points, then shall the parallelopiped under the parts of the first right line, be to that under the parts of the third; as the parallelopiped under the parts of the second line, to that under the parts of the fourth. Lastly, the legs of curves, both of the first, second, and higher kinds, are either of the parabolic or hyperbolic kind: an hyperbolic leg being that which approaches infinitely towards some asymptote; a parabolic, that which has no asymptote. These legs are best distinguished by their tangents; for if the point of contact go off to an infinite distance, the tangent of the hyperbolic leg will coincide with the asymptote; and that of the parabolic leg recede infinitely and vanish. The asymptote, therefore, of any leg, is found by seeking the tangent of that leg to a point infinitely distant; and the bearing of an infinite leg, is found by seeking the position of a right line parallel to the tangent, when the point of contact is infinitely remote: for this line tends the same way towards which the infinite leg is directed. For the other properties of curves of the second order, we refer the reader to Mr. Maclaurin's treatise de linearum geometricarum proprietatibus generalibus.

Sir Isaac Newton reduces all curves of the second order to the four following particular equations, still expressing them all. In the first, the relation between the ordinates and the abscissæ, making the abscissa $x$ and the ordinate $y$, assumes this form $xy^2 + ey = ax^3 + bx^2 + cx + d$. In the second case, the equation takes this form $xy = ax^3 + bx^2 + cx + d$. In the third case, the equation is $y^2 = ax^3 + bx^2 + cx + d$. And in the fourth case, the equation is of this form $y = ax^3 + bx^2 + cx + d$. Under these four cases, the same author enumerates seventy-two different forms of curves, to which he gives different names, as ambigene, culpidata, nodata, &c. See Ambigene, Cuspidata, Nodata.

Of these seventy-two curves, nine are redundant hyperbolas without diameters, having three asymptotes including a triangle; twelve are redundant hyperbolas with only one diameter; two are redundant hyperbolas with three diameters; nine are redundant hyperbolas with three asymptotes, converging to a common point; six are deficient hyperbolas having no diameters; seven are defective hyperbolas having a diameter; seven are parabolic hyperbolas having no diameter; four are parabolic hyperbolas which have a diameter; four are hyperbolisms of the hyperbola: three are hyperbolisms of the ellipse; two are hyperbolisms of the parabola; one a trident; five are diverging parabolas; and one a cubical parabola.

Besides these, Mr. Stirling found out four more species of redundant hyperbolas, and Mr. Stone two more of the deficient hyperbolas.

Genus of Curves of the second order by shadows. If (says Sir Isaac Newton) upon an infinite plane illuminated from a lucid point the shadows of figures be projected, the shadows of the conic sections will be always conic sections; those of the curves of the second kind, will be always
always curves of the second kind; those of the curves of the third kind, will be always curves of the third kind, and so on in infinitum. And as a circle by projecting its shadow generates all the conic sections, so the five diverging parabolas by their shadows, will generate and exhibit all the rest of the curves of the second kind; and so some of the most simple curves of the other kinds may be found which will form by their shadows upon a plane, projected from a lucid point, all the rest of the curves of that same kind.

**CURVES of the second order having double points.** As curves of the second order may be cut by a right line in three points; and as two of these points are sometimes coincident, these coincident intersections, whether at a finite or an infinite distance, are called the double point. And such curves as have this double point, may be described by the following theorems. 1. If two angles P A D, P B D (plate LXII. fig. 7.) whose magnitude is given, revolve round the poles A and B given also in position, and their legs A P, B P with their point of concourse P pass over another right line; the other two legs A D, B D with their point of concourse D, will describe a conic section passing through the poles A, B, except where

\[
\begin{align*}
1. & \quad y^2 + f xy^3 + g xy^3 + b x^2 + i y^2 + k x y + l y \\
2. & \quad y^2 + f xy^3 + g xy^3 + b x^2 + i xy + k y \\
3. & \quad x^2 + f y^3 + g x^3 + b y^2 + k y \\
4. & \quad x^2 + f y^3 + g x^3 + b x^2 + i y \\
5. & \quad x^2 + f x^3 + g x y + k y \\
6. & \quad x^2 + f x^3 + g x y + k y \\
7. & \quad x^2 + f x^3 + g x y + k y \\
8. & \quad x^2 + f x^3 + g x y + k y \\
9. & \quad x^2 + f x^3 + g x y + k y \\
10. & \quad x^2 + f x^3 + g x y + k y
\end{align*}
\]

As it is a difficult matter to understand the nature, properties, and numbers of the curves of the second and third kinds, how much more so must it be to attain to a glimpse of that infinite number and variety expressed by the equations of the succeeding higher dimensions, not to mention the infinite number of curves which do not lie in the same plane. Those who have a mind to see how far this doctrine has been advanced, with regard to the curves of the higher kinds, may consult Mr. Maclaurin’s treatise above-mentioned, and Mr. Brackenridge’s Exercitatio Geometrica de Curvarum descriptione.

The use of these curves in geometry, is to solve problems by their interferences, that line happens to pass through either of the poles A or B, or when the angles B A D, A B D vanish together, in which case the point will describe a right line.

2. If the legs A P, B P by their point of concourse P describe a conic section passing through one of the poles A; the other two A D, B D, with their point of concourse D, will describe a curve of the second kind passing through the other pole B, and having a double point in the first pole A, unless the angles B A D, A B D vanish together; in which case the point D will describe another conic section passing through the pole A. 3. But if the conic section, described by the point P, passes through neither of the poles A, B; the point D will describe a curve of the second or third kind, having a double point: which double point will be found in the concourse of the describing legs A D, B D, when the two angles B A P, A B P vanish together. And the curve described will be of the second kind when the angles B A D, A B D vanish together; otherwise it will be of the third kind, having two other double points in the poles A and B. See Mr. Maclaurin’s Organica Geometria. The general equation of all curves of the third kind, will be reduced to the following ten particular equations.

\[
\begin{align*}
\{ & \quad a x^4 + b x^3 + c x^2 + d x + e, \\
\} & \quad a x^3 + b x^2 + c x + d.
\end{align*}
\]

and to construct equations. See the article Construction.

**Caucistic Curve.** See CAUSTIC.

**Diacaustic Curve.** See DIACAUSTIC.

**Exponential Curve.** That defined by an equation wherein is an exponential quantity, as \( e^x \), &c.

**Family of Curves,** according to Wolfius, is a congeries of several curves of different kinds, all defined by the same equation of an indeterminate degree; but differently, according to the diversity of their kinds. For example, let the equation of an indeterminate degree be \( a^m x^m = y^n \). If \( m = 2 \), \( a^m x = y^n \) will be equal to \( y^2 \). If \( m = 3 \), then will \( a^3 x = y^3 \). If \( m = a^3 \), then will \( a^3 x = y^4 \), &c. all which curves...
are said to be of the same family. The equations, however, by which the families of curves are defined, must not be confounded with transcendental ones; tho' with regard to the whole family they be of an indeterminate degree, yet with respect to each several curve of the family, they are determinate; whereas transcendental equations are of an indefinite degree with respect to the same curve.

**Inflection of a Curve.** See Inflection.

**Quadrature of a Curve,** the assigning a square equal to a curvilinear space. See the article Quadrature.

**Logarithmic Curve.** See the article Logarithmic.

**Radial Curve.** See Radial.

**Regular Curve.** See Regular.

**Rectification of a Curve,** the finding a right line equal to a curve, for the praxis of which see Rectification, &c.

**Characteristic triangle of a Curve.** See the article Characteristic.

The genesis and properties of particular curves, as the conchoid, cycloid, &c. see under their proper heads, Conchoid, Cycloid, &c.

CURVIT, or CORVET, in the manage, an air in which the horse's legs are raised higher than in the demi-volt; being a kind of leap up, and a little forwards, wherein the horse raises both his fore legs at once, equally advanced, (when he is going straight forward and not in a circle) and as his fore-legs are falling, he immediately raises his hind-legs, equally advanced, and not one before the other: so that all his four legs are in the air at once; and as he sets them down, he marks but twice with them. Horses that are very dull, or very sly, are improper for curvets; this being the most difficult air they can make, and requiring a great deal of judgment in the rider, as well as patience in the horse, to perform it. See the article Air.

**CURVICAUDA,** in zoology, the name with the wrigletail. See the article Wrigletail.

**CURVILINEAR,** or CURVILINEAL, is said of figures bounded by curves, or crooked lines. See the article Curve.

**CURVIOSTRA,** in ornithology, a species of loxia, with the two chaps bent and crooking each other; whence its English name cross-beak. See Loxia.

**CURVIOSTRA,** in natural-history, a name given to those foultie cockles which have their beak standing not in the middle of the shell, but inclining to one or the other side.

**CURVITY,** the name with curvature. See the article Curve.

**CURVULE chair,** in roman antiquity, a chair adorned with ivory, wherein the great magistrates of Rome had a right to sit, and be carried.

The curule magistrates were the ædiles, the praetors, centors, and consuls. This chair was fitted in a kind of chariot, whence it had its name. The senators who had borne the offices of ædiles, praetors, &c. were carried to the senate-house in this chair, as were also those who triumphed, and such as went to administer justice, &c. See ÆDILE, &c.

**CURULE statue.** See Statue.

**CURURU,** in botany, the same with the paullinia of Linnaeus. See PAULLINIA.

**CURZOLA,** an island of the gulf of Venice, upon the coast of Dalmatia, about twelve miles from the island of Leffina.

**CUSCO,** the capital city of Peru, during the reigns of the Incas: it is still a fine city, and the seat of a bishop, and stands about 350 miles east of Lima, in 70° west long. and 13° south lat.

**CUSCUTA,** DODDER, in botany, a genus of the tetrandria-digynia class of plants, whose corolla consists of a single, ovated petal, a little longer than the cup, divided into four obtuse segments at the mouth: the pericarpium is fleshy, roundish, and bilocular, opening horizontally: the seeds are two. See plate LXIV. fig. 4.

The antiquits recommended it as a purge; however, we esteem it more as an attendant and aperient in obstructions of the viscera, in jaundices, dropies, and other chronic diseases.

**CUSP,** in astronomy, a term used to express the points or horns of the moon, or other luminary.

**CUSP,** in astrology, is used for the first point of each of the twelve houses, in a figure or scheme of the heavens. See the article House.

**CUSPIDATED PLANTS,** in botany, are such plants whose leaves are pointed like a spear.

**CUSPIDATED HYPERBOLA,** that whose points concur in the angle of contact, and there terminate. See HYPERBOLA.

**CUSPIES,** a term applied to the glans penis, and also to a sort of bandage.

**CUStODE ADMITTENDO,** and CUSTODE AMOVENDO, are words for the admitting 5 M. or
or removing of guardians. See the article Guardian.

CUSTODES LIBERTATIS ANGLÆ AUTENTIAL PARLIAMENTI, the title wherein it writes, and other judicial proceedings run, from the death of King Charles I. till Oliver was declared protector.

CUSTODIA, in law. See Recto de Custodia, and Hæredæ.

CUSTOM, a very comprehensive term, denoting the manners, ceremonies, and fashions of a people, which having turned into a habit, and passed into use, obtains the force of laws; in which sense it implies such usages, as, though voluntary at first, are yet, by practice, become necessary.

Custom is hence, both by lawyers and civilians, defined lex non scripta, a law, or right, not written, established by long usage, and the consent of our ancestors: in which sense it stands opposed to the lex scripta, or the written law.

As no law can bind people without their consent, if, wherever that is had, and a certain rule used as a law, such rule gives it the force of a law; and if it be universal, then it is common law: but if restrained to this or that particular place, it is custom.

Custom had its beginning, and received the sanction of the law, thus: when a reasonable act, once done, was found to be beneficial to the people, then they had frequent recourse to it; and by repetitions thereof, it became a custom, which being continued ultra tritacum, time out of mind, without any interruption, it obtained the power of a law, and binds the places, persons, and things concerned therein.

All customs ought to have a reasonable commencement, be certain, not ambiguous, have uninterrupted continuance, and not be against the king's prerogative: these are incidents inseparable: yet a custom is not unreasonable for being injurious to private persons and interests, so as it tends to the general advantage of the people: but if any custom be contrary to the public good, or if it injures a multitude, and benefits only some certain persons, such a custom is repugnant to the laws of reason, and consequently void. Custom must always be alleged in many persons; and so it may be claimed by copyholders, or the inhabitants of a place, as within such a county, hundred, city, borough, manor, parish, &c. but regularly they shall not allege a custom against a statute: nor may custom be pleaded against custom; though acts of parliament do not always take away the force of customs. The general customs used throughout England, being the common law, are to be determined by the judges, who can over-rule a custom that is against natural reason, &c. but particular customs are determinable by jury. See the article Prescription.

The custom of Paris serves as a rule for all the other places of France, where they have no provisions contrary thereto.

Custom of London. It is a custom of London, that where a person is educated in one trade, he may set up another; that where a woman uses a trade, without her husband, she is chargeable alone, as a feme sole merchant, and if condemned, shall be put in prison till she pays the debt; likewise the bail for her are liable, if she absent herself, and the husband, in these cases, shall not be charged. If a debtor be a fugitive, by the custom of London, he may be arrested before the day, in order to find better security, &c. These are customs of this city, different from those of other places.

Custom of merchants. If a merchant gives a character of a stranger to one who sells him goods, he may be obliged to satisfy the debt of the stranger for the goods sold, by the custom of merchants. And when two persons are found in arrears, upon an account grounded on the custom of merchants, either of them may be charged to pay the whole sum due, &c.

Customs, in commerce, the tribute or toll, paid by merchants to the king, for goods exported or imported: they are otherwise called duties. See Duty.

Customs are laid to be due to the king of common right: first, because the subject has leave to depart the kingdom, and to export the commodities thereof: secondly, because of the interest that the king has in the sea; that he is guardian of, and maintains all the ports, where the commodities are exported or imported: and, lastly, because the king protects merchants from enemies and pirates. Besides the king's title to customs by common right, certain tonnage and poundage duties are, by act of parliament, granted him on wines, and all merchandize, goods, &c. The word cus-
The customs of goods exported and imported throughout England, are paid to amount yearly to 1,300,000l. whereof those of the port of London make one third part, some five, two thirds. The customs of England are very numerous, and very high; the principal are the duties of tonnage and poundage. See the articles Tonnage and Poundage.

Custom-house, an office established by the king's authority in maritime cities, or port towns, for the receipt and management of the customs and duties of importation and exportation, imposed on merchandise, and regulated by books of rates.

There are several custom-houses in the several parts of England, but the most considerable is that of London. It is under the direction of commissioners, appointed by patent, who have the charge and management of all the customs in all the ports of England. Other officers are a secretary, solicitor, receiver-general, comptroller-general, surveyor-general, &c. all holding their places by patents, with other inferior officers, appointed by warrant from the board of the treasury.

Custom-officers shall not have any ships of their own, nor may they use merchandise, factorage, nor keep a tavern, &c. They are prohibited to trade in brandy, coffee, &c. or any excisable liquor, on pain of 50l. For taking a bribe they shall forfeit 100l. and 500l. for making collusive seizures, &c.

Every merchant, making an entry of goods, either inwards or outwards, shall be dispatched in such order as he cometh; and if any officer, or his clerk, shall, for favour or reward, put any merchant or his servant, duly attending to make entries, by his turn, to draw any reward or gratuity from him, besides what is limited in the act of tonnage and poundage, &c. he shall be strictly admonished to his duty; or, if found faulty, he shall be discharged, and not permitted to sit any more in the custom-house. The officers who sit above in the custom-house of London, shall attend their several places, from nine to twelve in the forenoon; and one officer, or clerk, shall attend with the book, in the afternoon, during such time as the officers are appointed to wait at the water-side.

Customary Tenants, in law, such tenants as hold by the custom of the manor,
nor, as their special evidence. These were antiently bond-men, or such as held tenura bondagii.

CUSTOS, in music, the same with mostra or index. See the articles Mostra and Index.

CUSTOS BREVIUM, the principal clerk belonging to the court of common pleas, whose business it is to receive and keep all the writs made returnable in that court, filing every return by itself; and, at the end of each term, to receive of the prothonotaries all the records of the nisi prius, called the poftees.

The poftees are first brought in by the clerks of alize of every circuit to that prothonotary who entered the ifue in the causes, in order to enter judgment; and after the prothonotary has entered the verdict and judgment thereupon into the rolls of the court, he delivers them over to the custos breviuim, who binds them into a bundle. The custos breviuim makes likewise entries of writs of covenant and the writ of covenant and the king's letters, and after the prothonotary has entered the rolls and records of the custos breviuim, who binds the articles STRA and STRAN, into a bundle. The custos breviuim is made by the king's letters patent.

CUSTOS FLAGICORUM CORONÆ, an antient officer, thought to be the same with him we now call custos rotulorum. See the next article.

CUSTOS ROTULORUM, an officer who has the custody of the rolls and records of the sessions of peace, and also of the commilions of the peace itself.

He usually is some perfon of quality, and always a justice of the peace, of the quorum, in the county where he is appointed. This officer is made by writing under the king's sign manual, being the lord chancellor's warrant to put him in commission. He may execute his office by a deputy, and is empowered to appoint the clerk of the peace, but he may not fell the place on divers penalties.

CUSTOS SPIRITUALIUM, he that exercises the spiritual jurisdiction of a diocese, during the vacancy of any fee, which, by the canon law, belongs to the dean and chapter; but at present, with us in England, to the archbishop of the province, by prescription.

CUSTOS TEMPORALIUM was the person to whom the custody of a vacant fee or abbey was given by the king, as supreme lord. His office was, as steward of the goods and profits, to give an account to the escheator, who did the like to the eschequeur. This trust continued till the vacancy was supplied by the king's writ, De restitutione temporalium, being commonly after consecration.

CUTAMBULI, certain worms, either under the skin, or upon it, which, by their creeping, cause an unceafy sensation. It is also applied to wandering scorbutive pains.

CUT.-A-FEATHER, in the sea-language. If a ship has too broad a bow, it is common to say, she will not cut a feather; that is, she will not pass through the water so swiftly, as to make it foam or froth.

CUT-WATER, or Knee of the head, the sharpness of the head of the ship, below the beak; so called because it cuts or divides the water, before it comes to the bow.

CUTANEOUS, in general, an appellation given to whatever belongs to the cutis, or skin: hence we meet with cutaneous caruncles, disorders, eruptions, &c. See the articles CARUNCLE, CUTIS, CUTICLE, ITCH, &c.

CUTICLE, cuticula, in anatomy, a thin membrane, closely lying upon the skin, or cutis, of which it seems a part, and to which it adheres very firmly, being assisted by the intervention of the corpus reticulare. See the article RETICULARE CORPUS.

The cuticula, in living subjects, separates from the skin in burns, and by means of blisters: the colour of it, in Europeans, is white, but black in many other nations. As to its structure and substance, it is composed of a multitude of very minute lamellae, wherein are very numerous foraminula: the thickness of it is different in different parts of the body, but greatest in the soles of the feet, and in the palms of the hands. The regeneration of the cuticle in living subjects is easy. All anatomists have failed in their attempts to find blood-veffels in the cuticle; the absence of which is the reason that it is without sensation. Its use is to defend the cutis from injury, from coming to contact with every thing, from dryness, and from pain, and finally to assist and at the same time to moderate the sense of feeling. See CUTIS.

CUTICULAR,
CUTICULAR, the same with cutaneous.
See the article Cutaneous.

CUTIS, the skin, in anatomy, a robust membrane, as thick as a piece of strong leather, extended over the whole surface of the body.

In this we are to consider the connection, which is double, its upper surface adhering to the corpus reticulare and the cuticle, and its under surface to the fat. In some places this connection is but lax, in others it is very firm. The thickness of the cutis is very different in several parts of the body, and as different in the skins of different animals, as appears from the leather made from it, for common purposes. It has a multitude of fulci, or lines, which are common to it with the cuticle. It has foramina of two kinds in it; the larger, such as those of the mouth, nose, ears, and the like, though in effect the cutis may rather be said to be reflected, than perforated, in those parts; and the smaller, called pores: and these again are of different sizes, some larger, some smaller, and serve to give passage to the hairs, to the transpiration, and to the sweat. The pores are very large in the nose, where the naked eye may see them. As to the substance and structure of the cutis, it is composed of a multitude of tendinous fibres, single, tenacious, and interwoven in a surprising manner; of a vast number of blood-vessels, and of a great number of nerves, which constitute the pyramidal papillae, and raise themselves through the pores of the corpus reticulare: these, when the cuticle is taken off, are very easily distinguishable in the palms of the hands and under the soles of the feet, and also at the ends of the fingers, where they constitute the primary organ of feeling. There are also the cutaneous mililiary glands, serving for the excretion of the matters of perspiration. Finally may be remarked the folliculi, or the receptacula cutanea, supposing, by Heister, to be the same as are described by other anatomists under the name of sebaceous glands.

The uses of the skin are numerous: 1. To surround, cover, and defend the parts that lie underneath it. 2. To be the organ of feeling. 3. To be an universal emunctory to the body, cleaning the blood of its redundancies, by the means of sweat and perspiration; while these, at the same time, serve to prevent the aridity or dryness of the cutis itself.

CUTTER of the tallies, an officer of the exchequer, whose business is to provide wood for the tallies, to cut or notch the sum paid upon them; and then to cast them into court, to be written upon. See the article TALLY.

CUTTING, in a general sense, the severing or dividing the parts of any thing.

CUTTING, in coinage, the taking the planchets out of the laminate, when they are reduced to the thickness of the species to be coined. See Coining.

CUTTING-glass, in surgery. See the article Cupping-glass.

CUTTING, in heraldry, is used for the dividing a shield into two equal parts, from right to left, parallel to the horizon, or in the ferfè-way. It is also applied to the honourable ordinaries, and even to animals, when they are divided so as that one part is metal, the other colour: an ordinary is said to be cut, when it does not come to the full extremity of the shield.

CUTTING, or Interfering, in the manage, is when the fees of a horse interfere, or when, with the shoe of one hoof he beats off the skin from the pattern-joint of another foot. This is occasioned by bad shoeing, weariness, weakness, or not knowing how to go, whereby the feet entangle.

CUTTING, in painting, the laying one strong lively colour over another, without any shade or softening. The cutting of colours hath always a disagreeable effect.

CUTTING, in surgery, the operation of extracting the stone out of the human body by fection. See the articles Stone and Lithotomy.

CUTTING in wood, a particular kind of sculpture, or engraving, denominated from the matter whereon it is employed. That sort of engraving which is called cutting in wood, was first invented. It is used for initial letters, head and tail-pieces of books, and even for schemes and other figures, to save the expense of engraving on copper; and for prints and stamps for paper, calicoes, linen, &c. The art of cutting in wood was certainly carried to a very great height about one hundred and fifty years ago: at present it is very low in esteem, as having been long neglected, and the application of artists widely employed on copper, as the most easy and promising province. The cutter in wood needs
no other instruments than little sharp knives, chisels, and gravers of different sizes. See Graver, Chisel, &c.

The first thing he does, is to take a plank or block of pear-tree, or box, which he prepares of the size and thickness intended, and makes it very even and smooth on the side to be cut: on this block he draws the design with a pen or pencil just as it ought to be printed. Those who cannot draw their own designs, make use of those done by another, which they fasten on the block with paste, the strokes or lines being turned towards the wood: when the paper is dry, they take off the paper by degrees, still rubbing it a little with the tip of the finger, till there is nothing left on the block but the strokes of ink that form the design, which marks out so much of the block as is to be spared, or left standing; the rest they cut off and take away as curiously as they can with the point of their sharp instruments.

Cuttings, or slips, in gardening, the branches or sprigs of trees, or plants, cut or slipped off, to set again, which is done in any moist fine earth. The best time for this operation is from the middle of August to the middle of April; but when it is done, the sap ought not to be too much in the top, lest it die or decay before that part in the earth has root enough to support the top; neither must it be very dry or scanty, for the sap in the branches affists it to strike roots: if done in the spring, let them not fail of water in the summer. In providing them, such branches as have buds, knobs, or joints, are to be cut off, two or three inches beneath the buds, &c., and the leaves are to be stripped off so far as they are placed in the earth, leaving no side-branch: small top sprigs, of two or three years growth, are the best for this operation.

Cuttle-fish, the English name of the Sepia of ichthyologists, called by some the ink-fish. See Sepia.

Cuvette, or Cunette. See the article Cunette.

Cuyo, a division of Chili, in South America.

Cuzt, the most eastern province of the kingdom of Fez, in Africa.

Cymea, a name antiently used for the black shiny” stites, or eagle’s-one. See the article AEITAE.

Cyamus, in botany, the same with the Faba sativa, or garden-bean. See Bean.

Cyamus, the Blue-Bottle, in botany, makes a distinct genus of plants, according to Tournefort, but is comprehended by Linnaeus among the centauria. See the article Centauria.

This plant is an alexipharmac and uterine. It is said to be of use also in the king’s evil, in palpitations of the heart; and a water distilled from it is of service in inflammations of the eyes, &c.

Cyathoides, in botany, the same with what Linnaeus calls Peziza. See Peziza.

Cyathus, in Roman antiquity, a liquid measure, containing four ligulas, or half a pint English wine-measure, being 465½ solid inches. See Measure.

Cyceon, in antiquity, a name given by poets and physicians to a mixture of meal and water, and sometimes of other ingredients. Dioscorides extolled the coarser cyceon, being made of water and meal alone, saying that it refrigerates and nourishes greatly: the richer cyceon was composed of wine, honey, &c.

Cyclamen, Sow-Bread, in botany, a genus of the Pentandria-Menogynia clafs of plants, the corolla of which consists of a single petal; the tube is subglobose, double the size of the cup; yet small and natant; the limb is large, and turns upwards, and is divided into five ovate-lanceolate segments; the fruit is a roundish berry, opening in five or six places at the top, and containing only one cell; the seeds are numerous, roundish, and angular. See plate LXV. fig. 2.

The root is a powerful aperient and abservergent, is of use in obstructions of the menarches, and in expelling a dead fetus: but it is to be used with great caution.

Cycle, Roman, in chronology, a certain period or series of years, which regularly proceed from the first to the last, and then return again to the first, and circulate perpetually. See Period.

The most considerable cycles are those of the sun, of the moon, and of the roman indiction.

The cycle of the sun consists of twenty-eight years, which contain all the possible combinations of the dominical letters, in respect to their successive order, as pointing out the common years and leap-years; so that, after the expiration of the cycle, the days of the month return in the same order to the same days of the week, throughout the next cycle; except
Cycle of the centesimal year, which is a period of nineteen years, after which the new and full moons return on the same days of the month, only one hour sooner; so that, on whatever days the new and full moon fall this year, they will happen nineteen years hence, on the same days of the months, except when a centesimal year falls within the cycle, which will move the new and full moons a day later in the calendar than otherwise they would have fallen, intimating that a new moon which fell before the centesimal year, supposing on March 16, will fall nineteen years afterwards, on March 11. The number of years elapsed in this cycle is called the prime, from its use in pointing out the day of the new moon, primum luna, and the golden number, as denoting the days upon which those full moons or new moons came to be written in letters of gold. See Prime. The golden numbers are those placed in the first column of the calendar, between March 21 and April 18, both inclusive, to denote the days upon which those full moons fall, which happen upon, or next after, March 21, in those years of which they are respectively the golden numbers. See the article Calendar. For finding the golden number, add one to the current year of our Lord, because one year of this cycle was elapsed before the Christian era began, and divide by 19, the remainder is the current year of this cycle, or golden number; but if nothing remains, it signifies that it is the last year of the cycle, and consequently the golden number is 19.

Cycle of the Roman Indiction, is a period of fifteen years, in use among the Romans, commencing from the third year before Christ. This cycle has no connection with the celestial motions; but was instituted, according to Baroinius, by Constantine; who having reduced the time which the Romans were obliged to serve to fifteen years, he consequently obliged, every fifteen years, to impose, or indicere, according to the Latin expression, an extraordinary tax for the payment of those who were discharged; and hence arose this cycle. To find the cycle of indiction for any given year, add 3 to the given year, and divide the sum by 15; the remainder is the current year of the cycle of indiction; if there be no remainder, it is the fifteenth or last year of the indiction. These three cycles multiplied into one another, that is 28 x 19 x 15, amount to 7980, which is called the Julian period, after which the three foregoing cycles will begin again together. This period had its imaginary beginning 710 years before the creation, according to the common opinion among chronologers concerning the age of the world, and is not yet complete. It is much used in chronological tables. See Epoch and Period. Cyclidia, in zoology, a genus of animals, in a roundish figure, without any limbs. See Animalcule. Cycliscus, in surgery, an instrument of the form of a half-moon, used in scraping the skull, in case of fractures of that part. See Fracture.
CYCLOID, in geometry, a curve of the transcendental kind, called also the trochoid. It is generated in the following manner: if the circle CDH (plate LXV. fig. 1.) roll on the given straight line AB, so that all the parts of the circumference be applied to it one after another, the point C that touched the line AB in A, by a motion thus compounded of a circular and rectilinear motion, will describe the curve ACEB, called the cycloid, the properties of which are these: 1. If on the axis EF be described the generating circle EGF meeting the ordinate CK in G, the ordinate will be equal to the sum of the arc EG and its right line GK; that is, CK will be equal to EG + GK. 2. The line CH parallel to the chord EG is a tangent to the cycloid in C. 3. The arch of the cycloid EL is double of the corresponding arc of the cycloid: hence the semicycloid ELB is equal to twice the arc EM, of the corresponding arc of the cycloid. 4. If ER be parallel to the base AB, and CR parallel to the axis of the cycloid EF; the space ECR, bounded by the arc of the cycloid EC, and the lines ER and RC, shall be equal to the circular area EGK: hence it follows, if AT, perpendicular to the base AB, meet ER in T, the space ETAE will be equal to the semicircle EGF: and since AF is equal to the semicircumference EGF, the rectangle EFAF, being the rectangle of the diameter and semicircumference, will be equal to four times the semicircle EGF; and therefore the area ECAE will be equal to three times the area of the semicircle EGF. Again, if you draw the line EA, the area intercepted between the cycloid ECA, and the straight line EA will be equal to the semicircle EGF; for the area ECAE is equal to three times EGF, and the triangle EAF = AFX + ½EGF, the rectangle of the semicircle and radius, and consequently equal to 2EGF; therefore their difference the area ECAE is equal to EGF. 5. Take $b = OK$, draw $bZ$ parallel to the base, meeting the generating circle in $X$, and the cycloid in $Z$, and join $CZ$, $FX$; then shall the area $CZFC$ be equal to the sum of the triangles $GFK$ and $bFX$. Hence an infinite number of segments of the cycloid may be assigned, that are perfectly quadrible. For example, if the ordinate CK be supposed to cut the axis in the middle of the radius OE, then $K$ and $b$ coincide; and the area ECK becomes in that case equal to the triangle EGF, and EFK becomes equal to $FKX$, and these triangles themselves become equal.

This is the curve on which the doctrine of pendulums and time-measuring instruments in a great measure depend; Mr. Huygens having demonstrated that from whatever point or height a heavy body oscillating on a fixed center begins to descend, while it continues to move in a cycloid, the time of its falls or oscillations will be equal to each other. It is likewise demonstrable, that it is the curve of quickest descent, i.e. a body falling in it, from any given point above, to another not exactly under it, will come to this point in a left time than in any other curve passing through those two points. See the articles Pendulum and Oscillation.

CYCLOIDAL, something belonging to a cycloid. See the preceding article. Hence the cycloidal space is the area bounded by the cycloid and its subtense.

CYCLOMETRY, a term sometimes used for the menuration of circles. See the article Circle.

CYCLOPAEDIA, or Encyclopaedia, denotes the circle or compass of arts and sciences. A cyclopaedia, say the authors of the French Encyclopædia, ought to explain, as much as possible, the order and connection of human knowledge. Cyclopaedias are generally in the form of dictionaries, where every branch of knowledge is resolved into its constituent parts, the description whereof is to be found under their respective articles. See the article Dictionary, and the Introduction to this work.

CYCLOPTERUS, the lump-fish, in ichthyology, a genus of fishes of the order of the branchiostegi: it is also called the sea-owl, and by the Scots the cock-paddle. It is distinguished from other fishes of this order, by its belly-fins growing together in the form of a funnel. It is a clumsy fish, being very thick in proportion to its length.

CYDER, or Cider, an excellent drink made of the juice of apples, especially the more curious table-kinds; the juice
of these being esteemed more cordial and pleasant than that of the wild and harsh kinds, growing plentifully in the counties of Hereford, Worcester, Gloucester, &c. However, mixture of fruits is a great advantage to this liquor; the meanest apples mingled together making as good cyder as the best kinds alone: but the best mixture of all, according to Mr. Worlidge, is that of red-blacks with golden-rennets, observing always that they be of equal ripeness. It conduces greatly to the goodness of the cyder, to let the apples lie a week or two in heaps, before they are pressed; in doing which every man may be freely left to the customs of his own native country: but a due management of the expressed juice is of the utmost importance. After straining the liquor through a sieve, let it stand a day or two in an open tun, covered only with a cloth, or boards, to keep out the dust, that the more gross parts may subside. Then draw it off in pails into the vessels wherein it is intended to be kept, observing to leave an eighth part of them empty. Set these vessels in your coldest cellar, with the bung open, or covered only with a loose cover, both that the volatile fleams may have free vent, and that the must may be kept cool, otherwise it is apt to ferment too much. Having fermented in this manner for fifteen or twenty days, the vessel may be stopped up close; and, in two or three months time, the cyder will be fit for drinking. But if you expect cyder in perfection, io as to flower in the glass, it must be glued, as they call it, and drawn off into bottles, after it has been a short time in the cask: this is done by pouring into each vessel a pint of the infusion of fifty or seventy grains of the most transparent finguflas, or figh-glue, imported from Archangel, in a little white-wine and river, or rain-water, stirred well together, after being strained through a linen cloth. When this vi ficous substance is put into the cask, it spreads itself over the surface like a net, and carries all the dregs to the bottom with it. Ginger added to cyder, not only corrects its windiness, but makes it more brilk; and a few drops of currant-juice, besides tinging, adds a pleasant quickness to it. Honey, or sugar, mixed with some spices, and added to flat cyder, will very much revive it.

Some commend boiling of cyder-juice, which should be done as soon as it is preffed, scumming it continually, and observing to let it boil no longer than till it acquires the colour of small beer: when cold, put it into a cask, leaving a small vent; and when it begins to bubble up out of the vent, bottle it for use.

CYDONIA, the quince-tree, in botany, is made by Linnaeus a species of the pyrus. See Quince and Pyrus.

CYGNUS, the swan, in ornithology, a well-known water-fowl, ranked among the anas-kind. See Anas. The swan is a large and beautiful bird, of a snow-white all over; as is the wild swan, represented in plate LXIII. fig. 1. n° 2. only somewhat less in size: the head of the tame kind is represented, ibid. n° 1.

CYGNUS CUCULLATUS, the hooded-swan, a name by which some call the dodo. See the article Dodo.

CYGNUS, in astronomy, a constellation of the northern hemisphere, consisting of 17 stars according to Ptolemy's catalogue, of 19 in Tycho's, and in the Britannic catalogue of 107.

CYLINDER, in geometry, a solid body, supposed to be generated by the rotation of a parallelogram, as CBEF, about one of its sides CF (plate LXII. fig. 3. n° 1.) If the generating parallelogram be rectangular, as CBEF, the cylinder it produces will be a right cylinder, that is, it will have its axis perpendicular to its base. If the parallelogram be a rhombus, or rhomboids, the cylinder will be oblique or scalenous.

Properties of the Cylinder. 1. The section of every cylinder by a plane oblique to its base, is an ellipse. 2. The supericies of a right cylinder is equal to the periphery of the base multiplied into the length of its side. 3. The solidity of a cylinder is equal to the area of its base, multiplied into its altitude. 4. Cylinders of the same base, and standing between the same parallels are equal. 5. Every cylinder is to a spheroid inscribed in it, as 3 to 2. 6. If the altitudes of two right cylinders be equal to the diameters of their bases, those cylinders are to one another as the cubes of the diameters of their bases. To find a circle equal to the surface of a cylinder, we have this theorem: the surface of a cylinder is equal to a circle, whose radius is a mean proportional between the diameter and height of the cylinder. The diameter of a sphere, and altitude of a cylinder equal thereto, being given, to find the diameter of the cylinder,
Cylinder, the theorem is, the square of the diameter of the sphere is to the square of the diameter of the cylinder equal to it, nearly, as triple the altitude of the cylinder to double the diameter of the sphere. 

Restistance of a Cylinder. See the article Resistance.

Rolling, or loaded Cylinder, in philosophy, a cylinder which rolls up an inclined plane. The phenomenon of the rolling cylinder may be easily accounted for, from what we have observed under Center of Gravity. For let A B E D (plate LXIII. fig. 8. \(n^\circ\) 2.) represent a section of a cylinder of wood, biaffed on one side with a cylindric piece of lead, as B; this will bring the center of gravity out of the center of magnitude C, to some point G, happen only in two situations, A B E D and a B; because when the cylinder moves, the center of gravity describing a circle round the center of magnitude C, this circle will meet the perpendicular in two points G and g, in each of which the center of gravity being supported, the cylinder will rest. Therefore the cylinder moves from E to e, by the descent of the center of gravity from G to g, in the arch of the cycloid G h g.

If the cylinder A B E D (ibid. \(n^\circ\) 3.) inrolling on the horizontal line E L, in the point E, has the center of gravity G in the horizontal diameter B B, it will gravitate in the perpendicular G e. If therefore a plane F H touch the cylinder in the point e, it is plain the cylinder cannot either ascend or descend on such a plane; because G, in any situation between e and H, or e and F, will gravitate to the left or right, from the point in which the cylinder touches the plane, and so will, in either case, bring it back to the point e.

Scenography of a Cylinder. See the article Scenography.

Cylinder-Charge, in gunnery, that part of a great gun which is powdered and ball.

Cylinder-Concave; in gunnery, is all the chance of a piece of ordnance.
CYN

Tuscan Cymatium consists of an oval or quarter-round. Philander makes two dor- ric cymatiums, of which this is one. Baldus calls this the lesbian astraegal.

Doric Cymatium is a cavello, or a ca- vity less than a semicircle, having its pro- jecture subduple to its height. See the article Doric.

Lesbian Cymatium, according to Vitru- vius, is what our architects otherwise call talon, sith. a concavo-convex member, having its projection subduple to its height.

Cymbal, κυμβαλος, a musical instrument in use among the antients. The cymbal was round, made of brass, like our kettle- drums, and, as some think, in their form, but smaller, and of different use. Caffiodorus calls it acetabulum, i. e. a hollow piece, the name of a cup, or ca- vity of a bone, wherein another is lodg- ed or articulated.

Authors compare cymbals to the lips, because they formed sounds by pressing and striking one against another, whence they must have been composed of two fe- veral parts. Ovid gives cymbals the epif- het of genialia, because they were used at weddings and other diversions. The Jews had their cymbals, or, at least, in- struments which translators render cymbals; but as to their matter and form, critics are still in the dark. The modern cymbal is a mean instrument, chiefly in use among vagrants, gypsies, &c.

Cymbalaria, in botany, a kind of antirrhinum, or snapdragon. See the article Snapdragon.

Cymbaria, in botany, a genus of the didymia-anthopheria class of plants, the corolla of which consists of a single petal; the tube is oblong and ventricole; the limb ringent; the upper lip divided into two reflex and obtuse segments, the lower lip into three obtuse segments; the fruit is a roundish capsule, containing one cell, and divided by two valves; the seeds are numerous, smooth, and an- gulated.

Cymbiforme, a bone otherwise called naviculare. See Naviculare.

Cymbium, the fame with the gondola- shell. See the article Gondola.

Cymene, in botany, a name antiently used for dyer's weed.

Cyminalis, the fame with the gentia- na, or plant whose root is the gentian of the shops.

Cynædus, in ichthyology, a species of labrus, of a yellow colour, with a purple- coloured back, and the back-fin reaching from the head to the tail.

Cynanche, among physicians, denotes an inflammation of the larynx. See the article Quinzy.

Cynanchum, in botany, a genus of the pentandria-dinjyuma class of plants, the flower of which consists of one petal, di- vided into five long and linear segments at the edge; the fruit is made up of two oblong and acuminated follicles, which form only one cell, wherein are numerous oblong seeds, crowned with down.

Cynanthemis, the fame with the cota focta, or flinking may-weed.

Cynanthropia, in medicine, the dif- temper occasioned by the bite of a mad dog, wherein the patient avoids the light and every thing that is bright, and dreads the water so much, that he trembles at the light or even the remembrance of it. See Hydrophobia.

It is communicated to a person by the bite of any animal, as a dog, wolf, &c.

Cynapium, in botany, a name given by Rivinus to the ethusa of Linnæus. See the article Ethusa.

Cynara, the artichok, in botany, a genus of the synhenia-polygama-equalis class of plants, the compound flower of which is tubulated and uniform, and the hermaphrodite flowers almost equal; the proper flower is monopetalous and funnel- formed; the fruit is naked; the cup a little concave; the seed is single, ob- longo-ovated, quadrarono-compresed, and crowned with a long feěle down. See plate LXV. fig. 5.

The use of artichokes, as a food, is well known. Among physicians, both the head and root are recommended as aper- tive, and therefore good in suppurations of urine and the jaundice: it is also laid to be a provocative to venery, and to cure barrenness.

Cynæbof, the fame with cenegild. See the articles Botel Cenegild.

Cynædus. See the article Cynædus.

Cynics, a feēt of antient philosophers, who valued themselves upon their con- tent of riches and state, arts and sci- ences, and every thing, in short, except virtue or morality.

The cynic philosophers owe their origin and institution to Antithenes of Athens, a disciple of Socrates, who, being asked of what use his philosophy had been to him, replied, "It enables me to live with myself." Diogenes was the moft fa- mous of his disciples, in whole life the sy-
CYNODESMUS, among anatomists, the same with Frænum. See the article Frænum.

CYNOGLOSSOIDES, in botany, a kind of borage. See the article Borage.

CYNOGLOSSUM, Hound's Tongue, in botany, a genus of the pentandria-monogynia class of plants, whose corolla consists of a single petal, of the length of the cup; the tube is cylindrical, and shorter than the limb, which is divided into five obtuse segments; the fruit consists of four rounded depressed capsules; the seed is single, of an oval figure, gibbous, acuminate, and smooth. See plate LXV. fig. 3.

Its root is kept in the shops, and is esteemed a peccoral and narcotic. Some recommend it in catarrhs, the gonorrhoea, and erophulous cafes.

CYNOGLOSSUS, in ichthyology, a fish of the pleuronectids-kind, with the eyes on the right, and the anus on the left side, and furnished with sharp teeth. See the article Pleuronectes.

CYNOMETRA, in botany, a genus of the decandria-monogynia class of plants, the cup of which is divided into four segments; and the fruit is a flabby lunated pod, containing a single seed.

CYNOMORIUM, Maltese Fungus, in botany, a genus of the monoeica-monandria class of plants, the flower of which is ameneaceous; the female floecules being mixed with the male ones on some plants, and scarce removed from them, and neither having any corolla; the fruit is naked, the seed single and roundish. See plate LXVI. fig. 3.

This plant is a very powerful astringent.

CYNOMUIA, the Dog-Fly, in zoology. See the article Dog-Fly.

CYNOREXY, among physicians, the same with bulimy. See Bulimy.

CYNORRHODON, the Dog-Rose, in botany, the common wild briar. See the article Rose.

CYNOSBATOS, the same with the cynorhodon. See the preceding article.

CYNOSPASTOS, a name used by some for the garden-piony.

CYNOSURA, in astronomy, a name given by the Greeks to the constellation of Ursà minor. See the article Ursà. This is the constellation next to the north pole.

CYNOSURUS, Dog's-Tail Grass, in botany, a genus of the triandria-digynia class of plants, whose corolla consists of two valves; the exterior concave, longer,
Fig. 1. Spotted Cuckow.

Fig. 2. Cynomorium, the Maltese Fungus.
and arisitated; the interior, plane, without any arista: the corolla surrounds the seed, which is single, of an oblong figure, and pointed at each end.

Cyon, or Cion, among gardeners. See the article Cion.

Cyperella, a plant, otherwise called fchoenus. See Schoenus.

Cypcrides, in botany, the same with the carex of Linnaeus. See Carex.

Cyperus, in botany, a genus of the triandra-monozygia class of plants, having no corolla, nor any pericarpium; the seed is single, of a triquetrous form, acuminate, and having no villi or hairs. See plate LXV. fig. 4.

The roots of this plant are carminative and attenuant; they promote the menfes, and are good in all chronic cases, arising from obstructions of the visera.

Cypher, or Cipher. See Cipher.

Cyphe, in the materia medica of the arabians, certain aromatic confections, or perfumes, composed of raiifs, turpentine, myrrh, bdellium, spica nardi, cas-sword. See Sce. ligneo

Cyphe, or Cyphe, a kind of snail-shells, of an oval contorted figure, and with a longitudinal aperture. given to napdragon.

Cyphe, or Cyphe. See Cypris.

Cyphe, or Cyphe, a genus of the ecalymptera class, the contents are hard enough to make a clean extirpation of it, notwithstanding its including coats be wounded; but when the matter of the tumour is soft or fluid, by its escaping, the tumour will become flaccid, so that it will hardly be possible to

Cyphe, or Cyphe. See Cyrenäics.

Cyphe, or Cyphe. See Cyrenæum.

Cyphe, or Cyphe. See Cypris. This is a very numerous genus, comprehending the roach, tench, carp, gudgeon, barbel, chub, bream, bleak, &c.

Cypriëdium, in botany, a genus of plants of the gymandra-diandria class, the flower of which consists of four or five very long, erect, and narrow petals; the fruit is an oval unilocular capsule, containing a great number of minute seeds.

Cyprius, an island situated in the most easterly part of the Levant, or Mediterranean sea, between 33° and 36° east longitude, and between 34° and 36° north latitude. It is about one hundred and fifty miles long and seventy broad, and is subject to the Turks.

Knights of Cypris, an order instituted by Guy de Lusignan, titular king of Jerusalem, to whom Richard I. of England, after conquering this island, made over his right. These knights were also denominated knights of silence, and knights of the sword.

Cyprius-bird, the same with the atricapilla, or black-cap.

Cyprius-wood, the same with rose-wood, or aspalath. See Aspalath.

Cyprenaïcs, cyrenaïci, a sect of ancient philosophers, socalled from their founder, Aristippus of Cyrene, a disciple of Socrates.

The great principle of their doctrine was, that the supreme good of man in this life is pleasure; whereby they not only meant a privation of pain and a tranquillity of mind, but an assemblage of all mental and sensual pleasures, particularly the last. See Epicurus.

Cyprophoma, Cyphos, or Cyphosis, an incurvation of the spine, forming a crookedness in the back. See Spine.

Cyprophism, in grecian antiquity, a punishment inflicted upon criminals, by fastening a collar of wood round their necks, which confined them to keep their heads bowed down: some say, the neck, hands, and feet were fettered or inclosed within it.

Cypreda, a kind of snail-shells, of an oval contorted figure, and with a longitudinal aperture.

To this genus belong the concha veneris and the monsta guineensis, the former of which is represented in plate LXIV. fig. 6.

Cypress, cupressus, the English name of a genus of trees. See Cupressus.

Summer-Cypress, the same with the che-nopodium of botanists. See the article Chenopodium.

Cyprius, in ichthyology, a very comprehensive genus of fishes of the order of the malacopterigii, the characters of which are these: the branchiostegæ membrane on each side contains three small bones; the mouth is toothless, except that towards the orifice of the stomach there are two serrated bones, which serve instead of teeth.

CYST, the bag, or tunic, including all incysted tumours, as the scirhus, atheroma, featoma, meliceres, &c. See the articles Scirhus, Atheroma, &c.

If in extraiting an incysted tumour, the including cyst be broke, or wounded, care must be taken to remove it, otherwise the tumour will speedily return. See the article Encysted Tumours.

Indeed if the tumour be a scirhus, farcoma, featoma, or in a glandular part, the contents are hard enough to make a clean extirpation of it, notwithstanding its including coats be wounded: but when the matter of the tumour is soft or fluid, by its escaping, the tumour will become flaccid, so that it will hardly be possible to
to make a clean extirpation of the cyst, without leaving some fragment behind, which must in that case be brought away by dressing the abscess with digestives, &c. See Abscess.

Cystic, a name given to two arteries and two veins, opening into the gall-bladder. The cystic arteries, cystica gemellae, are two arteries proceeding from the right branch of the celiac; and that trunk of the vena porta which goes into the liver affords the cystic veins.

Cystic Duct, cysticus ductus, a pipe that goes into the neck of the cystis, or gall-bladder, into which some bilious ducts likewise open, and through which the greater part of the bile is evidently carried into the cystis, in human subjects.

Cystic Bile, one of the two kinds of bile, being distinguished into the cystic and hepatic bile. See the article Bile.

Cystic Biles, cystica biles, a name antiently given to the alkekengi. See Alkekengi.

Cystic Ducts, cystica ductus, a kind of sumaria, or fumitory. See the article Fumaria.

Cystis, in anatomy, the same with vesicula, or bladder. See Bladder and Vesicula.

Cystis, in botany, a name antiently given to the alkekengi. See Alkekengi.

Cystis, or Cithara. See the articles Cithara.

Cytisus, Shrub-Trefoil, in botany, a genus of plants of the diadelphio-decan­dria class, with a papilionaceous flower, and an oblong, obtuse, and rigid pod for its fruit, wherein are a few compressed and kidney-like seeds. The leaves of cytisus are esteemed cooling and diffusient.

Cyzicens, cyzicena, a sort of magnificent banqueting-houses, among the antient Greeks, so called from Cyzicus, a city famous for its sumptuous buildings. The cyzicens always looked to the north, opened into pleant gardens, and were the same as the triclinia and cœnacula were at Rome.

Czackathurn, a town of Germany, in the duchy of Stidia, and circle of Auffria, situated near the conflux of the rivers Muer and Save, about fifty miles south-east of Gratz: east longit. 17°, and north lat. 46° 50°.

Czar, a title of honour assumed by the great dukes, or, as they are now styled, emperors of Russia. Beckman makes no doubt but they took this title, by corruption, from caesar, emperor; and accordingly they bear an eagle, as the symbol of their empire, and the word caesar in their arms: yet they make a distinction between czar and caesar, the first being taken for the king's name, and the other for the emperor's. The first that bore this title was Basfi, the son of Basilides, under whom the russian power began to appear, about 1470.

Czaritzin, a town of the russian empire, in the kingdom of Afracan, upon the Wolga.

Czaslaw, a town of Bohemia, about thirty-five miles south-east of Prague: east lon. 15° 8', and north lat. 49° 50°.

Czercassi, a town of the Ukraine, in Russia, situated on the river Nieper, about ninety miles south-east of Kiev: east lon. 22°, and north lat. 49° 50°.

Czernic, a town of Carniola, in the circle of Auffria, in Germany, situated about twenty-five miles south-east of Lau­back: east lon. 15°, and north lat. 46° 13°.

Czernigojf, the capital of the province of Czernigojf, in Russia, near the frontiers of Poland: east long. 31° 30', and north lat. 52° 50°.

Czerskow, a town of Warfowia, in Poland, situated on the river Vistula, about thirty miles south of Warfaw: east long. 21° 30', and north lat. 52° 30'.

Czongrodt, a town of Hungary, situated on the river Thieſfe, about thirteen miles north of Segedin: east longitute 20° 45', and north lat. 46° 36'.

End of the First Volume.