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SAUNDERS W.

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SYLLABUS

OF

LECTURES

ON

CHYMISTRY

AND

PHARMACY.

BY

WILLIAM SAUNDERS, M.D.

Quid tentare nocebit?

MDCCLXVI.

PART I. Of CHYMISTRY.

CHYMISTRY is that Branch of Natural Philosophy which treats of the particular Properties of Bodies, and is thereby diffinguished from Mechanical Philosophy, which treats of the General Properties of Bodies.

CHAP. I.

OFTHE

OBJECTS of CHYMISTRY.

THE PARTICULAR OBJECTS of Chymistry may be referred to the FORMS of SALINE, INFLAMMABLE, METALLIC, EARTHY, WATERY, and perhaps, AEREAL. And Bodies perhaps the most compounded in Nature, may be reduced to one or other of the above Forms.

SECT. I.

SALINE BODIES are SIMPLE or COMPOUND; They are foluble in Water, and fapid.

The SIMPLE SALTS are ACID or ALKALINE;

ACIDS are four, they change the Syrup of Violets and other vegetable Blues to a red Colour, and they effervesce with Alkaline Salts containing Air.

ALKALINES change the Syrup of Violets, or blue vegetable Juices, to a green Colour, containing Air, they effervesce

with Acids.

The ACIDS are VITRIOLIC, NITROUS, MURI-ATIC, and VEGETABLE.

Of the last there are four principal Species. 1. The NA-TIVE, Succus Lemonum, &c. 2. The FERMENTED, Acetum, Tartarum. 3. The DISTILLED, Acidum Abietis. 4. The SUBLIMED, Flores Benzoin.

Of the FOSSIL ACIDS there are Three whose Properties have been but lately discovered;

1. Sal. Succini. 2. Sal. Sedativum Hombergii, and 3. Acidum

Arfenici.

The ANIMAL KINGDOM affords us the 1. Acidum Formicarum, and 2. Acidum Urinæ;

The Enumeration of the four principal Species is sufficiently proper for our Purpose.

The ALKALINES are FIXED or VOLATILE.

The FIXED have no Smell, and are capable of sustaining a great Degree of Heat without Dissipation —Sal. Tartari, &c.
The VOLATILE are dissipated by a gentle Heat, and have

a strong pungent Odour-Sal. Volat. Ammon. &c.

The COMPOUND SALTS are NEUTRAL, ME-TALLIC and EARTHY;

The NEUTRAL are such as have an ACID for one Ingredient, and an ALKALI for another, united together in that Proportion, so as not to change the Colour of Syrup of Violets, or vegetable Blues, and not to effervesce upon the Addition of either Acid or Alkali, Nitre, &c.

The METALLIC are such as have an ACID for one Ingredient, and a METAL for another, united together as the for-

mer, Vitriols.

The EARTHY have an ACID for one Ingredient, and an EARTH for another, united together in a fimilar Proportion, Alum, &c.

SECT. II.

INFLAMMABLE BODIES are in the Forms of OIL, SULPHUR, and ARDENT SPIRIT, each of them supposed to depend upon a Phlogiston.

They are such as when apply'd to burning Bodies, or when having a certain Degree of Heat generated in them, are set on fire, and continue burning until their whole Mass is consumed, and a luminous Vapour, called Flame, always appears upon their Surface.

They are to be distinguished from Bodies only capable of Ig-

nition.

OILS are ANIMAL, VEGETABLE and Fossil.

ANIMAL and VEGETABLE OILS are EXPRESSED, ESSENTIAL and EMPYREUMATIC;

EXPRESSED OILS are of a bland and mild Taste, without any sensible Odour, and not soluble in ardent Spirits. Adeps

Ol. Olivarum, &c.

ESSENTIAL OILS are of a remarkable Odour and acrid Taste, resembling the Substances from which they are taken; they are soluble in Spirit of Wine, Ol. Lavendul. Essentia Lemonum, Moschus, Balsamum, Resina, &c.

EMPYREUMATIC OILS have a fenfible Smell, and Empyreumatic Taste, not resembling the Substances from which they are obtained, but depending upon the Degree of Heat apply'd

during their Distillation-Ol. Cornu Cervi, &c.

Fossil Oil is of one Kind only;

It has a Taste and Odour different from the Empyreumatic, and they are difficultly soluble in Spirit of Wine—Naptha, Petroleum, Bitumina, &c.

To the Head of OILS belongs ÆTHER, which is a Fluid

of confiderable Volatility, and miscible with ardent Spirits:

SULPHUR is a dry friable Body, not miscible with water .It is of one kind only in English, named Brimstone, but in Latin is called by the Epithet of MINERAL, to distinguish it from the Soufre Principe, which is the PHLOGISTON of the Chymists.

ARDENT SPIRITS are miscible with Water, and of little

specific Gravity.

They are the Product of Fermentation, the chief Example is Spirit of Wine, which in its greatest Purity is named Alcohol.

SECT. III.

METALLIC SUBSTANCES are METALS, or SEMI-METALS;

They are opake Bodies, of confiderable specific Gravity, fufible in the Fire, and after being cooled, concrete in the same Form as before.

METALS are MALLEABLE. Gold, Silver, Quickfilver,

Lead, Tin, Copper and Iron.

The two first are said to be NOBLE and PERFECT, the four last are named BASE and IMPERFECT METALS.

SEMI-

SEMI-METALS are not MALLEABLE - Zinc, Antimony,

Bismuth, Arsenic, Platina, Cobalt and Nickel.

METALLIC SUBSTANCES, as found in the Earth, are commonly found in the State of ORE mineralised with Sulphur and Arsenic.

When this ORE is dispersed among stony or earthy Substances

it is said to be inherent in a MATRIX.

PYRITES is a Term chiefly applied to Sulphur when combined with Metal in so large a Proportion as to render the ex. tracting of it profitable.

SECT. IV.

EARTHY BODIES are found in a dry and folid Form, are not inflammable, and, after Fusion, concrete again in the Form of Glass.

They are of four Kinds;

1. ABSORBENT, otherwise named Alkaline, and sometimes,

though improperly, term'd calcarious.

They are foluble in Acids .- Magnesia, &c.

2. CHRYSTALLINE, otherwise named Vitrescent— They are not soluble in Acids, and strike fire with Steel—Precious Stones, Flints, &c.

3. ARGILLACEOUS, are not foluble in Acids, do not firike fire with Steel, and are ductile upon the Addition of Wa-

ter .- Clays and Boles.

4. TALKY, are of a fibrous or laminated Structure, not soluble in Acids, and incombustible in the Fire.—Asbestus, &c.

SECT. V.

WATERY BODIES are COMMON OF MINERAL.

SECT. VI.

AERIAL BODIES are COMMON OF MEPHITIC.

They are permanently Elastic Fluids.

CHAP. II.

OFTHE

OPERATIONS of CHYMISTRY.

The CHANGES of the Qualities of Bodies produced by Chymistry, are all of them produced by COMBINATION or SEPARATION.

COMBINATION depends upon ATTRACTION, and this upon FLUIDITY, which is employed in SOLUTION or FUSION.

SEPARATION depends upon ELECTIVE ATTRAC-TION, or the ACTION of FIRE.

ELECTIVE ATTRACTION is ABSOLUTE or RELA-TIVE, SINGLE or DOUBLE.

In all Cases, as Attraction in general, the Elective depends upon FLUIDITY; and therefore, also upon SOLUTION or FUSION.

The FIRE separates Bodies in consequence of their different Degrees of FUSIBILITY, and acts by FUSION; or their different Degrees of VOLATILITY, and then acts by EXHALATION.

Hence all the feveral Operations of Chymistry may be referred to SOLUTION, FUSION, or EXHALATION.

SECT. I.

OF SOLUTION.

The folid Body to be dissolved is named the SOLVEND, the Fluid applied to it, the Solvent or MENSTRUUM.

CHYMICAL SOLUTION is to be distinguished on one Hand from DIFFUSION, which has been named Mechanical Solution; and on the other, from PROPER MIXTURE.

Both in SOLUTION and MIXTURE there happens a SA-TURATION. The The Vessels commonly, and most properly, employed in Solution, are named MATRASSES or BOLT-HEADS. When a Matrass is closed, by another smaller inverted and joined to it, this is called a CIRCULATORY APPARATUS.

SOLUTION is affifted by the DIVISION of the Solvend, the AGITATION of the VESSEL, the Application of HEAT and of AIR.

In the Practice of Solution, it is commonly proper to avoid EFFERVESCENCE and DISSIPATION.

The intestine Motion, named EFFERVESCENCE, is to be distinguished from those of EBULLITION and FERMEN-TATION.

SOLUTION, according to certain Differences in the Practice, is named MACERATION, INFUSION, DECOCTION, DIGESTION, CIRCULATION, DELIQUESCENCE, or AMALGAMATION.

DISSOLVED Bodies may be separated from their Menstrutums, by PRECIPITATION, CHRYSTALLIZATION, and EVAPORATION.

PRECIPITATION belongs to this Head. It depends upon Elective Attraction, and the Body added is named the PRE-CIPITANT.

There are four Cases of Precipitation; 1. Of the DISSOL-VED Body alone. 2. Of the DISSOLVED Body, with the PRECIPITANT. 3. Of the Menstruum alone. 4. Of the MENSTRUUM, with the PRECIPITANT.

In the two first Cases, the dry Body falling down, is named a PRECIPITATE, Magistery, or Calx.

When a Metallic Substance can be combined with an Acid, in a dry Form only, the Combination is named CORROSION.

When a PRECIPITATE has a Part of the ACID, which had formerly dissolved it, still adhering to it, the washing of that Acid by Water, is named EDULCORATION.

In most of the Practices of this Section, there is Occasion for COLATURE and FILTRATION, which are facilitated by a previous DEPURATIO per subsidentiam.

Most

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Most Instances of COAGULATION may be referred to PRECIPITATION.

SECT. II. Of FUSION.

Fusion combines by what has been named DRY SOLU-TION, and separates by ELECTIVE ATTRACTION, or the ACTION OF FIRE, in different Degrees, upon different Bodies.

When an ELECTIVE ATTRACTION takes Place under Fusion, the Operation, is named a PRECIPITATION BY FU-SION, Pracipitatio fusoria; and in the Case of Metallic Substances, the Parts separated are named SCORIÆ and REGULUS.

The FUSION of Bodies may be confidered as of two Kinds; the one, where the Body melted suffers no other Change but that by the Action of the Fire, from solid it becomes sluid; and upon removing the Fire the Body concretes into the same Form as before. The other Case is, where the Body melted suffers such a Change, that, upon cooling again, it does not concrete in the same Form as before. Of this, the most noted Instance is in the VITRIFICATION of Bodies.

The Fire separates under Fusion, by acting upon the COM-MON FUSIBILITY, or by acting upon the VITRESCENCY of particular Bodies.

Upon the first depend ELIQUATION and CONGELA. TION.

Upon the fecond depend SCORIFICATION and CUPEL-LATION.

When a Metallic Substance has been deprived of its Metallic Form, and is, by certainMeans, under Fusion, brought back to it again, the Operation is named REDUCTION.

The Vessels most commonly employed in Fusion, are named CRUCIBLES.

In Scorification, &c. are employed TESTS, CUPELS, and MUFFLES.

P

SECT. III.

Of EXHALATION.

EXHALATION is various, as it is practifed for obtaining
The fixed Parts

f of Fluids by EVAPORATION, or

of Solids by USTULATION, or CALCINATION.

The Volatile Parts

in a Fluid Form by DISTILLATION, in a Solid Form by SUBLIMATION.

Of a like Nature with these two last, but somewhat different in the Manner of operating, are CEMENTATION and IN-FLAMMATION.

Under the last is comprehended what has been named the Sublimation of Geber.

EVAPORATION, according to certain Circumstances of the Subject, is named INSPISSATION or EXTRACTION.

CHRYSTALLIZATION fometimes depends upon diminishing the HEAT, but as more commonly upon diminishing the QUANTITY of the Menstruum, it belongs to this Head.

EVAPORATION is properly carried on by the joint Action

of FIRE and AIR.

DISTILLATION, according to the Subject, is distinguished into SIMPLE DISTILLATION, and DISTILLATION with ADDITION.

SIMPLE DISTILLATION, is otherways, but improperly, named the Chemical Analysis.

In DISTILLATION with ADDITION, this is made for fever al Purposes.

1. By an ELECTIVE ATTRACTION, for fetting loofe a volatile Part.

2. By the same for fixing one of two volatile Parts,

3. By the same, for separating a fixed Part, and by uniting with this for volatilizing it.

4. By

4. By uniting with the whole of a Mixt, for volatilizing

5. By dividing an Aggregate, for preventing its Fusion, and

thereby for favouring its Resolution.

6. By dividing an Aggregate, for preventing its Intumefcence, and thereby favouring the Separation of the Parts resolved.

7. For regulating the Degree of Heat.

When a Matter obtained by one Distillation is subjected to a second, that it may be more entirely separated from Matters that adhered to it in the first; such second Distillation is named RECTIFICATION, DEPHI EGMATION, or CONCENTRATION.

When, in the Cases third and fourth, a Matter obtained by one Distillation, is returned upon the same Matter it had been drawn from before, to be again distilled from it, for obtaining a stronger Impregnation; such second Distillation is named

a COHOBATION.

DISTILLATION, according to the Form of the Vessels employed, is distinguished into

1. That per ascensum, in which the CUCURBIT and ALEM-BIC are employed

2. That per obliquum, in which the RETORT is employed.

3. That per descensum, in which the Vapours are driven into a Vessel, placed below the Matter from which they are drawn.

In the PRACTICE of DISTILLATION, Regard is to be had to the Choice of Vessels in Matter and Form.

To the Manner of putting the Matter into the distilling

Vessels, and filling them to a proper Degree.

To the closing the Junctures of the Vessels, by LUTING, or otherways

To the proper Application of the Fire.

To the preventing a too great Intumescence of the Matters subjected to Distillation.

To prevent the burfting of the Vessels by the Quantity, or

the Elasticity of the Vapours raised in the Distillation.

To prevent the Matter distilled from concreting in the Neck of the Retort, in such Quantity as to shut it up,

To the affifting the Distillation, by throwing Air into the

distilling Vessels,

To the Separation, where it is proper, of the several Matters arising successively in Distillation.

B 2

To the opening of the Vessels, when the Operation is finished.

To the Separation of different Matters that have been col-

lected in one and the same Receiver.

To attend to the Nature of the Fumes escaping from the Vessels in the Course of the Operation.

SUBLIMATION is conducted upon the same Principles as Distillation. Its Products are different, as they are in Powder, when they are named FLOWERS, or as they are in solid Concretes, when they are named SUBLIMATES.

APPENDIX to CHAPTER II.

OFTHE

APPLICATION of FIRE.

In the Application of the HEAT, communicated by burning bodies, we confider the DIRECTION of it, and the RE-GULATION of its Degree.

The DIRECTION is of three Kinds.

1. The NAKED, or open Fire.

2. The REVERBERATORY Fire.

3. The TRANSMITTED Heat

The first is employed where a greater Degree of Heat is required.

Where the Matter to be acted upon cannot be committed to

Vessels.

Where the Matter to be acted upon is not hurt by the Contract of the burning Feuel.

Where the Vessels employed are fit to sustain the immediate

Action of the burning Feuel.

Where, in the Course of the Operation, it may be necessary suddenly to withdraw the fire.

The REVERBERATORY Fire is employed where a great Degree of Heat is required.

Where the Heat is to be applied to a great Quantity of Mat-

ter, or to a great Number of Vessels at the same Time.

Where

Where the immediate Contact of the Feuel would disturb the

Where it is useful to inflame and consume the Smoke arifing

from the burning Feuel.

Where this Direction of the Fire is best suited for collecting the Matters melted by it.

The TRANSMITTED HEAT is employed where a moderate Degree of Heat only is required

Where a very gradual, and exactly conducted Application

of Heat is necessary.

Where an exactly determined Degree of Heat is necessary.

Where the Matters operated upon may be hurt by a Communication with the Feuel and Flame, or the Smoke arising from them.

Where the Vessels employed are not fit to sustain the immedi-

ate Action of burning Feuel.

The REGULATION of the Degree of Heat depends upon 1. The Nature of the Feuel. 2. The Quantity of the Feuel enflamed. 3. The more or less entire Inflammation of the Feuel. 4. The quicker or flower Inflammation of the Feuel, depending upon the Velocity of the Air applied, determined by Bellows, a Water Blaft, an Æolipilr, or the Structu e frances.

5. The more or less exact Confinement of the rieat arting from the burning Feuel.

By these Considerations of the DIRECTION and RFGU-LATION of HEAT, is determined the Construction of FUR-NACES,

The PARTS of a Furnace may be the Ash-hole, the Focus, the Laboratory, the Chimrey.

The chief SPECIES of Furnaces, are the Forge, the melting Furnace, the distilling Furnace, with a naked Fire, the Assay Furnace, the Reverberatory distilling Furnace, the Iron Founders Furnace, the Potter's Furnace or Kiln, the distilling Sand Furnace, the Athanor, the Lamp Furnace.

PART II. Of PHARMACY.

CHAP. I.

Of VEGETABLE and ANIMAL Substances.

SECT. I.

Of the COLLECTION of SIMPLES.

1. From the proper Soil.

2. From the Climate and Exposure.

3. At the proper Time of Vegetation with Respect to Roots, Herbs, Flowers, Seeds, and Fruits, Woods and Barks, Exsudations,

SECT. II.

Of the Preservation of Vegetable and Animal Substances.

1. By avoiding Diffipation.

2. By avoiding Fermentation, which is done by avoiding Moisture, by excluding Air, by avoiding too great Degrees of Heat and Cold, by avoiding Insects, and by applying Antiseptics, such as Salt, Vinegar, Sugar, and Aromatics.

SECT. III.

Of the SEPARATION of the Parts of VEGETA-BLE and ANIMAL Substances.

I. By TRITURE.

II. By EXPRESSION for watery Juices or for Oils,

III. By EMULSION.

IV. By SOLUTION.

A. By Solution in WATER, of MUCILAGES, SWEETS,
BITTERS, AROMATICS, and ASTRINGENTS,
By MACERATION, INFUSION, or DECOCTION.

B. By Solution in VINEGAR.

C. By Solution in WINE.

D. By Solution in PROOF SPIRIT.

E. By Solution in RECTIFIED SPIRIT.

- F. By Solution in all of the above, with the Addition of SALINE MATTER.
 - 1. Of ACIDS to ALCOHOL.

2. Of FIXED ALKALINES to ALCOHOL.
3. Of VOLAT'LE ALKALI to A COHOL.

4. Of NEUTRALS to WATER and to RECTIFIED SPIRIT.

G. By Solution in LIME WATER.

- H. By Solution in OILS both Expressed and ESSENTIAL.
- V. By separating Substances from the Fluids that hold them dissolved
 - A. By EVAPORATION, which comprehends, INSPISSA-TED JUICES, EXTRACTS, SYRUPS, HONEYS, and GELLIES

B. By CHRYSTALLIZATION.

C- By PRECIPITATION.

VI. By DISTILLATION.

A. WITHOUT ADDITION.

B. WITH ADDITION of WATER, of PROOF SPIRIT, of RECTIFIED SPIRIT, of VOLATILE ALKALI.

VII. By CALCINATION.

SECT. IV.

Of the COMPOSITION of VEGETABLE and ANIMAL Substances.

I. MORE INTIMATE COMBINATION by SOLU-TION, DISTILLATION, and PROPER MIXTURE. II. MORE

II. MORE LOOSE AGGREGATION.

A. In POWDER.

B. In ELECTUARY.

C. In PILLS.

D. in TROCHES.

E. In OINTMENTS and LINIMENTS.

F. In PLAISTER.

G. In PQULTICE.

CHAP. II.

Of FOSSILS and other Substances not strictly reducible to the Vegetable and Animal Kingdom.

SECT. I. Of SALTS.

ACIDS.

1. ACIDUM VITRIOLICUM.

Oleum Vitrioli; Spiritus Sulphuris per Campanum, L. Spiritus Vitrioli tenuis et fortis; Aqua sulphurata, L. Gas Sulphuris; Spiritus Aluminis; Acidum Universale Catholicum primigenium; Acidum Aereum Atmosphericum; Acidum Vagum Fossile.

2. ACIDUM NITROSUM.

Spiritus Nitri Glauberi, L. Aqua Fortis, simplex vel duplex.

3. ACIDUM MURIATICUM.

Acidum et Spiritus Salis Marini; Spiritus Salis Glauberi.
Aqua Fortis Composita. Aqua Regia.

4. SAL. SEDATIVUM HOMBERGII.

5. SPIRITUS et SAL. SUCCINI.

ALKA-

ALKALINES.

1. ALKALI FIXUM. FOSSILE.

Alkali Minerale; Terra Salis marini; Natrum; Nitrum Veterum; Nitrum Ægyptiacum; Soda et Barilla Hispan. Kelp. Angl.

2. ALKALI CALCAREUM.

Calx viva.

3. ALKALI VOLATILE.

Spiritus Salis Ammoniaci; Idem cum Calce viva. Spiritus Fuliginis; Spiritus C. C. Sal. Volatilis Ammoniaci; Sal. Cornu Cervi.

NEUTRALS.

ACIDUM. ALKALI. NEUTRUM.

Vitriolicum.

Vegetabile Tartar. Vitriolat.

Sal. Glauberi
Ammon. Vitriol.

Nitrofum.

Vegetabile Nitrum Communt.

Nitrum Cubicum
Ammon. Nitrofum.

Muriaticum. Vegetabile Sal. Digeft. Sylvii Sal. Communis Ammon. Communis

Vegetabile. {

Vegetabile | Tartar. Regenerat. |

Fossile | Sal. Rupellens. |

Volatile | Ammon. Vegetabile

1. TARTARUM VITRIOLATUM.

Nitrum Vitriolatum; Nitrum Stibiatum; Sal. Polychrosum; Arcanum Duplicatum; Sal. de Duobus; Sal. Enixum Paracelsi.

2. SAL. GLAUBERI.

Sal. Catharticum Glauberi; Sal. Mirabile Glauberi; Vitriolum Natrofum.

C AMMON.

3. AMMON. VITRIOL.

Vitriolum Volatile; Ammoniacum Vitriolicum; Ammoniacum secretum Glauberi.

4. NITRUM COMMUNE.

Nitrum Vulgare; Nitrum Lixiviosum.

5. NITRUM CUBICUM.

Nitrum Natrofum ; Nitrum Quadrangulare.

6. AMMON. NITROSUM.

Nitrum Volatile ; Nitrum Semivolatile, Boerh. Nitrum Ammoniacale.

7. SAL. DIGEST. SYLVII.

Muria Lixiviosa; Sal. Marinum Regenerat. Boerh. Spiritus Sal. Marin. Coagulat. P. L.

8. SAL. COMMUNE.

Muria Natrosa; Sal. Cibarum; Alimentary Salt Hill. Sal. Marinum; sal. Fontanum; sal. Gemmæ; sal. Montanum.

9. AMMONIACUM COMMUNE.

Muria Volatilis; Sal. Ammoniacum Vulgare.

10. TARTARUM REGENERATUM.

Sal. Diureticus
Terra foliata Tartari
Arcanum Tartari
Tartarum folubile
Tartarum Tartarizatum

Ex Aceto & Alk. Fixo.

Ex Tart. & Alk. Fixe.

11. SAL. RUPELLENSE.

Tartarum Nitrosum ; Sel de Seignette.

12. AMMON. VEGETABILE.

Spiritus Mindineni.

SECT.

SECT. II.

Of INFLAMMABLES.

I. OILS.

Spiritus Æthereus ; Oleum Succini.

2. SULPHUR.

Flores Sulphuris.

3. ALCOHOL.

Spiritus Vitrioli Dulcis, L. Spiritus Nitri Dulcis, L. Spiritus Salis Dulcis, L. Spiritus Salis Ammon. Dulcis.

SECT. III.

Of METALLICS.

I. GOLD.

Aurum Fulminans ; Aurum Potabile, Ph. Paris.

2. SILVER.

Caustisum Lunare, L. Lapis Infernalis; Pilulæ Lunares Boylei.

3. LEAD.

Plumbum Ustum; Minium; Cerussa; Sacharum Saturni; Acetum Lethargyrites; Extract. Saturni Goulard. Tinctur. Saturnina; Tinctur. Antipihisica.

4. TIN.

Stannum pulveratum; Cala Jovis; Sal. Jovis; Aurum Musivum.

5. COPPER.

Æs Ustum; Vitriolum Cæruleum; Solutio Æris in Alk. Volat. Boerh. Ærugo præparata; Ærugo chrystallisat. Ens Veneris; Ammoniacum Cupreum, Nov. Act. Natur. Curiosor. tom. I.

6. IRON.

Hæmatites Lapis præparatus; Pulv. subtiliss. Lemerii; Chalybis Rubigo præparata; Sal. Martis; Tinet. Styptica; Vitriolum calcinatum; Colcothar Vitrioli; Chalybs cum Sulphure præparatus; Tinetura Martis in Spiritu Salis; Flores Martiales; Lixivium Martis; Vinum Chalybeatum.

7. QUICKSILVER.

A. Crude.

Hydrargyrus purificatus L.

B. In Vapour.

Mercurius ad fuffumigia

C. Triturated.

a. alone.

Tragea Keyferi

b. with Honey.
Pilulæ Mercuriales

c. with Balfam.

Pilulæ Mercuriales L.

Unquentum cæruleum fortius et mitius L. Emplastrum commune cum Mercurio L.

Ceratum Mercuriale L.

d. with Refin.

Pilulæ Mercuriales
Æthiopicæ

e. with Suet.

Unguentum Mercuriale

f. with Abforbents,

Mercurius alcalifatus

g. with Sugar.

Mercurius faccharatus

h. with Sulphur.

Æthiops mineralis L.

antimonialis Ph. Paup.

Renc

D. Sublimed with Sulphur.
Cinnabaris factitia
antimonii agome
E. Calcined.
a. alone.
Mercurius calcinatus L.
præcipitatus per se
b. with Gold,
Mercurius præcipitatus solaris Astruc.
F. Rendered faline.
a. by Vitriolic Acid.
Mercurius emeticus flavus L.
Mercurius præcipitatus flavus
Turpethum minerale
b. by Nitrous Acid.
Solutio Mercurii
Calx Mercurii
c. by Muriatic Acid.
Mercurius sublimatus corrosivus L.
præcipitatus albus Boerh.
Aqua aluminofa
phagedænica
Mercurius violaceus diaphoreticus Astruc. Flores ammoniaco Martiales
Solutio Mercurii per deliquium Astruc.
d. by Vegetable Acid.
Mercurius tartarifatus
Keifers Pills
G. Saline Preparations corrected.
a. Rendered mild
aa, by abstracting Acid.
aaa. by Calcination.
Mercurius corrofivus ruber L.
præcipitatus ruber
proceptions, 1 most

bbb. by Attraction.

aaaa. of Water.

Pulvis Principis Lewis

bbbb. of Alchohol.

Mercurius corallinus Lewis

Panacæa Mercurii

cccc. of Water and Alcohol.

Arcanum corallinum Lewis
Panacæa Mercurii rubra Lewis

ccc. by Attraction and Precipitation.

aaaa. of fixed Alkali.

Mercurius præcipitatus fuscus 1744.

bbbb. of Volatile Alkali.

Mercurius præcipitatus albus

cccc, of fixed Vol. Alkali.

Mercurius præcipitatus albus L.

Unguentum e Mercurio præcipitato L.

dddd. of Volatile Alkali and Copper.

Mercurius præcipitatus viridis

bb. by Addition of Mercury.

Mercurius fublimatus dulcis L.

calomelas

Aquela alba

cc. by Addition of Unguent.

Unguentum citrinum

b. rendered acrid or kept fo.

aa. by redisfolving precipitate.

Mercurius præcipitatus folutus

bb. by Addition of Acid.

Solutio sublimati cum spir. salis

cc. by fuspending with ammonical

Salt.

Mercurius corrofivus nitrofus

Ward's white Drop.

Mercurius corrofivus muriaticus

8. ANTIMONY.

A. not faline.

a. Regulus with different proportions of Sulphur.

Antimonium crudum præparatum L.
Regulus medicinalis
Kermes minerale
Sulphur antimonii præcipitatum L.
Sulphur auratum antimonii
Pilul. Plummeri
b. Regulus alone.

Regulus antimonii fimplex

Martialis

c. Reguline parts calcined

aa. without Addition.

Antimoiam crudum incineratum
Vitrum antimonii

--- ceratum

bb. with Addition of Nitre

Crocus antimonii mitior Lewis
Crocus antimonii

----- metallorum
------ antimonii lotus L.

Pulvis febrifugus Nosocom.

Antimonii emeticum mitius Boerh.

Antimonium diaphoreticum nitratum

-lotur

Calx antimonii L.

Antihecticum Poterii 1744

B. render'd faline.

a. by Vitriolic Acid.
Antimonium viriolatum Werlhof.

b. by Nitrous Acid.

Bezoardicum minerale

— Joviale

c. by Muriatic Acid.

Butyrum antimonii

Causticum antimoniale L.

Mercurius vitæ 1744.

d. by Vegetable Acid.

Sapa vomitoria Sylvii

Vinum antimoniale L

— emeticum

Tartarum emeticum

9. ZINK.

Calaminaris lapis præparatus Tutia præparata L. Sal. Vitrioli Vitriolum Album

SECT. IV.

Alumen ustum
Terra aluminosa
Bolus armena præparata
Lazuli lapis preparatus
Magnesia Alba.

IN I S.



