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Metaphysics Investment Archaeology

THE
DRUGGIST'S
GENERAL RECEIPT BOOK:

CONTAINING NUMEROUS RECIPES FOR

PATENT AND PROPRIETARY MEDICINES,

DRUGGISTS' NOSTRUMS, ETC.;

FACTITIOUS MINERAL WATERS, AND POWDERS
FOR PREPARING THEM;

WITH A

VETERINARY FORMULARY,

AND TABLE OF

VETERINARY MATERIA MEDICA;

ALSO RECIPES FOR

Perfumery and Cosmetics;

BEVERAGES, DIETETIC ARTICLES, AND CONDIMENTS;

TRADE CHEMICALS,

MISCELLANEOUS COMPOUNDS USED IN THE ARTS, DOMESTIC ECONOMY, ETC.;

WITH

USEFUL TABLES AND MEMORANDA.

BY HENRY BEASLEY.

PHILADELPHIA:
LINDSAY AND BLAKISTON.

1850.

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C. SHERMAN, PRINTER.

ADVERTISEMENT.

ENCOURAGED by the favourable reception of his former work, and by the communications he has received from known and unknown correspondents in reference to his present undertaking, the compiler ventures to commit another volume to the press. He does so not without considerable diffidence; but conscious that he has diligently endeavoured to produce a work which shall be useful to those for whom it is designed, he hopes it will be received by them with the indulgence accorded to its predecessor. It has been his aim to collect from various and widely-scattered sources, and to condense into a volume of small size and convenient arrangement, a considerable amount of information that may be useful to the Chemists and Druggists of this kingdom. And however imperfectly he may have accomplished his purpose, he trusts that every purchaser will be able to find, in the multifarious contents of this little work, something that may be deemed an equivalent for so small an outlay.

The plan of the work, and the subjects which it embraces,

will be sufficiently obvious from the table of contents. Its publication has been delayed beyond the period originally anticipated, for reasons stated in the Preface to the fourth edition of the “Pocket Formulary;” but the delay, it is hoped, has added to the value of the work, to which improvements and additions have been made up to the moment of its going to press.

Uxbridge, November 1849.

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VETERINARY

MATERIA MEDICA.

A Table of the Properties & Doses of the principal Medicinal Substances used in Veterinary practice.

N. B.—Where the doses are given without mentioning the animal intended, it must always be understood to refer to the Horse.

ACETATE OF AMMONIA. Spirit of Mindererus. Diaphoretic and diuretic. It is also regarded as antiseptic. Dose, for horses and cattle, from 4 to 8 oz. For smaller animals, from 2 to 8 dr. Externally, in strains, ophthalmia, &c.

ACETATE OF COPPER. See Verdigris and Copper.

ACETATE OF LEAD. Astringent and sedative; in doses of 30 to 40 grains with opium, in internal hemorrhage, chronic diabetes, and diarrhœa: but chiefly used externally, in cooling lotions, eye-waters, ointments, &c. (For Diacetate of Lead, see Goulard's Extract.) As antidotes for an overdose give Epsom or Glauber's Salts, with opiates if required.

ACETATE OF POTASH. Diuretic and cooling: dose for horse and cattle, 2 oz. In much larger doses it is laxative, but not to be depended on.

ACETATE OF SODA. Similar in properties and uses to Acetate of Potash,

ACETIC ACID. Strong acetic (or pyroligneous) acid acts as a rubefacient and caustic, but is rarely employed for this purpose. In the weaker forms of common, or distilled vinegar, or diluted wood vinegar, it is frequently used. See Vinegar.

ACIDS. See Muriatic Acid, Nitric Acid, Prussic Acid, Sulphuric Acid, &c.

ACUPUNCTURATION. Used in some spasmodic and paralytic affections.

ÆGYPTIACUM. A preparation of verdigris and honey. A mild caustic, used as a local application to ulcers of the mouth, running thrush, grease, &c. Internally poisonous.

ÆTHER. See Ether.

ALCOHOL. Poisonous to all animals—2 drachms will kill a dog. See Spirits, Ardent.

ALLSPICE. *Pimento.* A useful stimulant and carminative; used in cordial balls and drinks, and to correct the action of purgatives. Dose for horses, 2 to 4 dr.; cattle, $\frac{1}{2}$ oz. to 1 oz.

ALGAROA BEANS. Pods of the Carob bean. Rather nutritive than medicinal.

ALOES. Purgative. The most valuable purgative for the horse, but not to be depended on for cattle and sheep. A horse requires from 4 to 8 dr. of Barbadoes aloes, from 5 to 9 dr. of Socotrine, and from 6 to 10 of Cape. Mr. YOUATT says 3 dr. of Barbadoes are equal to 4 of Cape. But the fine gourd Barbadoes aloes are the most certain in their operation. If the animal is prepared by previous mashes, 5 dr. are generally, and 6 dr. almost always sufficient. Mr. BLAINE recommends 2 dr. every 6 hours till 8 dr. have been taken, as a nauseant and purgative; but Mr. YOUATT strongly disapproves of this plan, particularly in inflammation of the lungs. Aloes require from 18 to 36 hours to produce their effect, during which time the horse should not be ridden far or fast. Though not to be depended on for cattle, 4 to 6 dr. are sometimes added to the purgative salts. Large doses (in some cases sufficient to destroy life) have been given to sheep without purging. Small dogs require 20 or 30 gr.; medium sized ones, a dr.; some larger ones require 2 dr. or more. Hogs can bear but a few grains. Externally, in the form of tincture, aloes is used as a stimulating application to wounds.

ALUM. Astringent and styptic. Given in doses of 2 to 4 dr. to horses in diabetes and diarrhoea; but BOURGELAT says that its too frequent use induces a phthisical condition. Cattle require double the above doses in diabetes and red water; and from 2 to 4 oz. are given to cows, to dry their milk. To calves and

lambs it is given in dr. doses, in warm milk, for diarrhœa, &c. Dogs, 10 to 15 gr. Externally it is applied to cracked and greasy heels, joint wounds, sore mouths, inflammation of the eye, chronic discharges from the nostrils, and to arrest bleeding from wounds. *Burnt* alum is more powerful, and is used as a mild caustic, mixed with honey, to fungous growths, sore mouths, &c.

ALTERATIVES. Medicines, which without producing any considerable immediate sensible operation, and without interfering with food or work, effect a slow change in the diseased action of certain parts, so as gradually to restore a healthy state.

AMMONIA, CARBONATE OR SESQUICARBONATE OF. *Volatile Salts.* Stimulant and antacid. Dose, 1 dr. to 2 dr. [MOIROUD says from 2 to 8 dr.] to horses in tympanitis, and the last stage of pneumonia. To cattle, in hoven (distention from the fermentation of green food) 1 to 4 dr. [MOIROUD says to 12 dr.] The solution of carbonate of ammonia has the same properties as the spirit of hartshorn, which see.

AMMONIA, AROMATIC SPIRIT OF. Properties as the last. Dose $\frac{1}{2}$ oz. to 1 oz.; or to cattle in hoven, 2 to 4 oz.

AMMONIA, LIQUID. Water of ammonia is more pungent and stimulant than the carbonate, and is used for the same purposes, largely diluted with water or some aromatic infusion; but is chiefly used externally in stimulating liniments; also both internally and outwardly as an antidote to the bite of vipers. The dose of common water of ammonia may be from 2 to 6 dr. For small animals from $\frac{1}{2}$ dr. to $1\frac{1}{2}$. The vapour from the liquid ammonia (applied by holding an open bottle containing it to the eye) is used for the relief of amaurosis and other chronic affections of the eye.

AMMONIA, ACETATE OF. See Acetate of Ammonia.

AMMONIA, MURIATE OF. See Muriate of Ammonia.

ANALEPTICS. Medicines or food which restore exhausted strength.

ANGELICA. The root, in powder or infusion, is a warm tonic. Dose, $\frac{1}{2}$ oz. to 2 oz.

ANISEED. This warm seed is used as a cordial, carminative, and pectoral. Dose for the horse, $\frac{1}{2}$ oz. to 1 oz.; or $\frac{1}{2}$ dr. of the essential oil. The latter is often added to purgatives to prevent griping. Cattle take 1 or 2 oz. of the powdered seeds. The oil is said to be poisonous to pigeons.

ANODYNES. Medicines which alleviate pain. Opium is chiefly employed for this purpose.

ANTIMONIALS. The preparations of antimony (besides their effect in producing vomiting in carnivorous animals) are considered to have a special action on the skin and lungs. They are also termed resolvent, and purifiers of the blood, and are supposed to be useful in visceral and glandular obstructions, farcy, &c. Mr. BLAINE says "they lessen arterial action without operating very sensibly either in nauseating the stomach or greatly relaxing the skin." Some writers attribute diuretic effects to them. They are also said to promote *condition*. Pigs are supposed to fatten under their use. The principal preparations employed in veterinary practice are mentioned below.

ANTIMONY, CRUDE. *Black (or sesqui) Sulphuret of Antimony.* Diaphoretic and alterative. The levigated (prepared antimony) is to be preferred. Given to horses in doses of from 2 to 6 dr., with nitre and sulphur, in surfeit, hide bound, and other skin diseases; and to improve the coat. Mr. YOUATT says the dose should not exceed 4 dr. For cattle, the dose is sometimes increased to 2 or 3 oz. Dogs take from 10 to 30 grains. Hogs, a drachm or more, daily.

ANTIMONY, LIVER OF (*Hepar Antimonii*), and **Crocus of antimony** (*Crocus Metallorum*), are occasionally used in veterinary practice; but are uncertain in their composition and effect. Dose, 1 or 2 drs. Mr. CLARK says these compounds, and the glass of antimony, derange the stomach, but that it is doubtful if they have any other effect.

ANTIMONY, CALX OF. Diaphoretic. Dose, 2 to 4 dr.

ANTIMONIAL POWDER. Similar to James's powder. Diaphoretic. In colds, fevers, inflammations, &c.: Dose, for horses or cattle, 1 or 2 dr.; swine, 6 grains; dogs, from 2 to 4 gr.

ANTIMONY, PRECIPITATED SULPHURET OF. Dose $\frac{1}{2}$ dr. to 2 dr. in obstinate skin diseases.

ANTIMONY, TARTARIZED. *Emetic Tartar.* Diaphoretic, expectorant, and reduces arterial action. It is also regarded as diuretic and vermifuge. Dose, $\frac{1}{2}$ dr. to $1\frac{1}{2}$ dr. in gruel, 3 times a day, in fevers, in inflammation of the lungs, and catarrhal affections. To destroy worms, 2 dr. may be given with powdered tin, or some other mechanical vermifuge, fasting, and followed by aloes. Mr. WHITE says he has not seen any good effect from it as a vermifuge. Cattle require from $\frac{1}{2}$ dr. to 1

dr. Sheep, from 10 to 20 gr. To swine and dogs it is emetic: the former require from 2 to 5 gr.; the latter, from 1 to 3 gr. Externally it produces an eruption on the skin.

ANTIMONY, BUTTER OF. *Muriate or Chloride of Antimony.*
Used externally only, as a caustic in canker, &c.

ANTIPERIODICS. Remedies against those diseases which return at regular intervals, as agues.

ANTISEPTICS. Remedies which resist putrefaction.

ANTISPASMODICS. Medicines which relieve spasm, as opium, ether, camphor, ammonia, ardent spirits, &c.

ARNICA. Narcotic, stimulant, and diaphoretic. 40 to 60 gr. of the powdered plant (the flowers in preference) have been given twice a day for paralysis, amaurosis, &c. A decoction may be used outwardly as a fomentation to bruises, wounds, &c.

ARISTOLOCHIA. See Birthwort.

ARSENIC. *White Arsenic, or Arsenious Acid.* Very poisonous to all animals. In small doses, tonic and alterative, but requires to be carefully watched. It has been given, in doses of 2 gr. gradually increased to 20, in farcy and glanders. Externally, as a caustic, but dangerous and unmanageable. Used in solution to destroy vermin in cattle and sheep; but it is not free from danger. MR. YOUATT remarks—"We have better and safer tonics, and better and safer caustics." The best antidotes are hydrated oxide of iron, and calcined magnesia, in very large quantities, or a mixture of lime-water and linseed oil.

ASSAFŒTIDA. Stimulant, antispasmodic, and expectorant. It is prescribed in nervous affections and chronic coughs; and also in farcy and worms. The dose is $\frac{1}{2}$ dr. to 2 dr.; but according to MOIROUD, may be carried to 2 oz. for the horse, and 2 or 3 oz. for horned cattle. Externally it is applied to indolent tumours, &c.

ASTRINGENTS. Medicines which produce a more obvious and decided constriction of the muscular fibres than the simple tonics.

BALSAMS. Natural balsams appear to act on the mucous membrane generally; but are chiefly given as diuretics and expectorants. See Balsam of Canada, Copaivi, Peru, &c.

BALSAM OF CANADA. Diuretic. Dose, $\frac{1}{2}$ oz. to 1 oz.

BALSAM OF COPAIVI. As a diuretic to horses, $\frac{1}{2}$ oz. to 1 oz.; as

an expectorant in chronic coughs, 1 or 2 dr. For dogs, $\frac{1}{2}$ dr. to 1 dr.

BALSAM, FRYAR'S. Comp. Tincture of Benzoin. It is sometimes given in $\frac{1}{2}$ -oz. doses to horses, in chronic cough, mixed with yolk of egg, gruel, or linseed tea. But more frequently applied to wounds, indolent ulcers, &c.

BALSAM, LUCATELLI. Dose, $\frac{1}{2}$ oz. in old coughs.

BALSAM OF TOLU, AND OF PERU. 2 dr. in old coughs; but too expensive.

BALSAM OF SULPHUR. A stimulating expectorant in old coughs, in doses of $\frac{1}{2}$ oz. or 1 oz. Sometimes used as an outward application.

BARBADOES TAR. Stimulant, diuretic, and expectorant. Dose, 1 to 4 dr. in old coughs, and chronic chest affections. Externally in skin diseases, wounds, grease, &c.

BARK, PERUVIAN. Tonic, astringent, antiseptic, and antiperiodic. Dose, for a horse, 6 or 8 dr. [to 2 or 3 oz.—MOIROUD] in diabetes, general weakness, a tendency to gangrene, &c. To small animals, 1 or 2 dr. Applied also to indolent and foul ulcers.

BARLEY. The decoction (of Scotch or pearled barley in preference) is given as an emollient, demulcent, or diluent drink in inflammatory diseases; more frequently as a vehicle for more active remedies.

BARYTES. All its compounds are poisonous. The following doses have been given in farcy and glanders:—Muriate of barytes, 20 gr. gradually increased to 60; pure barytes, 10 to 20 gr.; carbonate, 1 to 4 dr. A dog was killed by 15 gr.

BASILICON, YELLOW AND BLACK. *Resin Cerate.* See Formulary.

BAY BERRIES. Stomachic and carminative. An ingredient in diapente, but rarely given alone. Dose of the powdered berries, $\frac{1}{2}$ oz., or of the oil of bays, $\frac{1}{2}$ dr. to a dr. The leaves are used in fomentations.

BELLADONNA. *Deadly Nightshade.* Narcotic and sedative. Dose, of the extract from 1 to 4 dr., [MORTON, 1 to 2 dr.,] in diseases where there is undue action of the nervous and vascular systems, [MAVOR.] M. MOIROUD directs from 6 to 8 dr. of the powder. The extract is also applied to the eye, to dilate the pupil.

BENNET, HERB. *Avens.* Tonic and astringent. Dose, of the powdered root $\frac{1}{2}$ oz. to 1 oz. or more.

BENZOIN. Stimulant and expectorant. Dose, 1 to 3 dr. But seldom used. Externally it is used, in balsamic tinctures, to wounds, ulcers, &c. See Tincture of Benzoin.

BIRTHWORT. A gentle stimulant, supposed to act especially on the uterine system. Dose, $\frac{1}{2}$ oz. It is given to cows in cleansing drinks, but is of doubtful utility.

BISTORT ROOT. Astringent. Dose, 4 to 8 dr. [or 2 oz., MOIROUD.] The decoction is used also as an astringent and cleansing lotion.

BITTER-SWEET. *Dulcamara.* Diuretic, narcotic, and alterative. Dose, $\frac{1}{2}$ oz. in decoction.

BITTER APPLE. See Colocynth.

BLEEDING. The quantity of blood usually abstracted from the horse is from 2 to 4, or, in some cases, 6 or 8 quarts; or until faintness is produced. From cattle, from 2 to 6 quarts, or till faint. Sheep, 16 ounces. Lambs, 4 oz. Dogs, in the proportion of 1 oz. for every 3 lb weight. [Or 1 or 2 oz. from a very small dog; 7 or 8 oz. from a larger one.—Mr. YOUATT.]

BLISTERING FLY. See Cantharides. Blisters are applied, in the form of ointments, or liniments, to excite superficial inflammation, attended with vesication; and are intended to draw away inflammatory action from more deeply-seated, but not distant parts. Also to excite the action of the absorbents, and to promote suppuration. See Blistering Ointment, and Liquid Blister, in the Formulary.

BLUE VITRIOL. See Copper, Sulphate of.

BOLE, ARMENIAN. Slightly astringent, and absorbent. Dose, $\frac{1}{2}$ oz. to 2 oz., in diarrhoea, bloody urine, &c. A common ingredient in drenches to dry the milk of cows; dose, 1 to 3 oz. It is also used outwardly, as an astringent and desiccative.

BORAGE. A decoction of the plant is pectoral and demulcent.

BORAX. Detergent. Applied to sore mouths, mixed with honey. It is supposed to be a uterine stimulant, but is not often used in veterinary practice as an internal remedy.

BOX LEAVES. They are given, chopped with corn, as a vermifuge. They are also used as a preventive of hydrophobia. (See the Formulary.) The rasped wood is considered sudorific, and

prescribed in rheumatic and skin diseases, and even in farcy and glanders.

BRAN. Mucilaginous, and slightly laxative : given in mashes.

BRANDY. See Spirits, Ardent.

BRIONY. White briony root is poisonous. $\frac{1}{2}$ oz. killed a dog.

BROMINE. Poisonous. 5 gr. killed a dog. Its medical use is not well ascertained, but appears analogous to that of iodine.

BROOM. The Spanish broom, and particularly the seeds, supposed to produce inflammation of the bladder in sheep and cattle.

BUCKWHEAT. Slightly laxative, but chiefly used to fatten poultry.

BUCKTHORN. Purgative ; principally administered to dogs. Dose of the juice, 2 or 3 dr. ; but usually given in the form of syrup. See Syrup of Buckthorn. The berries are more active, but seldom employed.

BURDOCK. Diuretic and sudorific. Used, but rarely, in rheumatism, and skin diseases.

BURGUNDY PITCH. Similar to resin in its properties. It is chiefly used outwardly, in charges, &c.

BUTTER OF ANTIMONY. *Chloride of Antimony*. See Antimony, Muriate of.

CABBAGE TREE BARK. Vermifuge. Dose for a horse, 2 to 4 dr. But rarely used.

CALAMINE, OR LAPIS CALAMINARIS. Slightly astringent, drying, and healing. Sprinkled on excoriations and sores ; and used in ointments, lotions, eye-waters, &c. The greater part of what is sold is factitious, and only calculated to do harm.

CALAMUS AROMATICUS. *Sweet flag*. A warm stomachic. Dose, from 1 oz. to 2 or 3 oz. in infusion.

CALOMEL. Alterative, vermifuge, sialagogue, purgative ; it also increases the action of diuretics and diaphoretics. In doses of 1 or 2 dr., combined with or followed by aloes, it is given to horses for worms ; or from 10 to 20 gr. as an alterative, in skin diseases, grease, farcy, constitutional affections, &c. If too often repeated, it salivates. It does not agree with cattle (see Mercury), but is sometimes given, in doses of from 10 to 20 gr., in inflammation of the liver, and jaundice. Some writers mention much larger doses. On dogs it acts as a purgative, and often as an emetic, and is very apt to salivate. The same



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CARDAMOM SEEDS. Carminative. Dose, 1 to 4 dr.

CARMINATIVES are stimulants which, by their rapid impression on the stomach, &c., occasion the expulsion of wind, and relief of pain.

CARROTS. Restorative and alterative. Given to horses as food after severe illnesses; and in coughs, grease, foul humours, &c. Externally in poultices.

CASCARILLA. A warm, bitter tonic. Dose, 2 to 3 dr.

CASSIA. A warm stimulant. Dose, 1 to 2 dr.

CASTOR. Antispasmodic. $\frac{1}{2}$ oz. has been given in locked jaw, but rarely used.

CASTOR OIL. Laxative. It is uncertain as a purgative for the horse, and sometimes produces much irritation in large doses. $\frac{1}{2}$ pint may be given every six hours till it operates, with watery solution of aloes. Cattle require a pound, or pint; calves, 2 to 4 oz.; sheep and swine, 1 to 2 oz.; dogs, 2 to 4 dr., with syrup of buckthorn. The seeds are more active: from 2 to 6 are sometimes given to swine and dogs, crushed and mixed with food; but from their effects on man, their use would seem to require caution.

CATECHU. *Terra Japonica*. Astringent. Dose for a horse, in diabetes, diarrhoea, &c., 1 to 2 dr. [YOUATT], or to 1 oz. [BLAINE]; cattle, 2 to 4 dr., in gruel. [It is usually combined with chalk, opium, and gum.—YOUATT.] Dogs require from 10 to 40 gr. In India it is said to be given in doses of 2 oz., for the purpose of taming vicious horses. The tincture is useful in promoting the healing of wounds.

CATHARTICS. Purgatives (which see).

CAUSTICS. Solid or liquid substances which burn or destroy the part to which they are applied. Actual caustic is burning with an iron heated to whiteness.

CHALK. Antacid and astringent. Horses require from $\frac{1}{2}$ oz. to 1 oz.; cattle, 1 or 2 oz.; sheep and swine, 1 dr.; dogs, 10 to 20. It is often combined with catechu. Externally it is sprinkled on sores.

CHAMOMILE. A mild tonic, stomachic, and febrifuge. Dose, 1 to 4 dr. of the powdered flowers, in debility of the stomach, flatulence, and in the last stage of fevers, and influenza. It is the first tonic that should be used in convalescence.

CHARCOAL. Antiseptic. Used as an application to foul ulcers, either sprinkled on them, or mixed with poultices.

CHARGES. Compositions of an adhesive nature, usually mixed with tow, which adhere to the part to which they are applied for some time. See Formulary.

CHLORIDE OF LIME. Antiseptic and disinfectant. From 2 to 4 dr. in a quart of water, given to horses in flatulent colic, and to cattle in hoven; and in putrescent diseases. Externally, as a wash for mange, foul ulcers, &c., and as a disinfectant, $\frac{1}{2}$ oz. to be well mixed with a pint of water, and after a time decanted or strained.

CHLORIDE OF POTASH. *Eau de Javelle.* Recommended by French authors for the same purposes as the chlorides of lime and soda. Dose, for hoven or tympanitis, $\frac{1}{2}$ oz. to 1 oz.; for sheep, $\frac{1}{4}$ oz., in water, with or without the addition of ether.

CHLORIDE OF SODA. Labarraque's Disinfecting Solution. The properties and uses are the same as chloride of lime; perhaps better adapted for internal use. Dose, 2 to 4 dr. of the solution, gradually increased to 1 oz. or more, largely diluted. It has been tried in glanders. As a lotion, about 1 oz. to a pint of water.

CHLORINE. Antiseptic. A strong watery solution of chlorine gas is antiseptic—in large doses poisonous. It is used for the same purposes as the chlorides of lime, potash, and soda, but the latter are preferable.

CHLORIDE OF ANTIMONY. See Antimony, Butter of.

CHLORIDE OF ZINC. It is a powerful caustic. A diluted solution is used as a disinfectant.

CHLOROFORM. Used to produce insensibility to pain, in the same manner as ether; and as a remedy for Tetanus.

CINCHONA. See Bark, Peruvian.

CINNABAR AND VERMILION. Native and factitious red sulphuret of mercury. Alterative and vermifuge? Dose, $\frac{1}{2}$ oz. daily to horses, in skin diseases and obstinate coughs. Formerly given in larger doses, as a vermifuge. Cinnabar of Antimony, so called from the mode of preparation, does not differ from common vermilion in its properties. Care must be taken to get pure vermilion, as this compound, being used as a pigment,

is sometimes adulterated with red lead and other poisonous mixture.

CINNAMON. Stimulant and carminative. Dose, 2 dr.; but cassia usually substituted for it.

CLOVES. A hot stimulant, cordial and carminative. Dose, 1 to 3 or 4 dr. in powder; or from 10 to 20 drops of the oil; the latter is a frequent adjunct to purging balls, to prevent griping. They are also an ingredient in Masticatories.

CLYSTERS. These are injected into the rectum by a proper syringe, or a bladder and pipe, either to unload the bowels, abate inflammation and pain, or to act on the system generally, when medicines cannot be given by the mouth. See Formulary.

COLCHICUM. Poisonous to most animals. A diuretic and drastic purgative, rarely employed in veterinary practice. According M. MOIROUD, the dose for larger animals is from 1 to 2 dr. For smaller 6 or 8 gr.

COLOCYNTH. Bitter apple. It has little effect on the horse. It is purgative to dogs, and in large doses poisonous.

CONFECTION OF OPIUM. Anodyne and carminative. Dose, 4 to 6 dr., in flatulent colic.

CONFECTION OF ROSES. Slightly astringent; but only used to form astringent powders, &c., into balls. Masses formed with it retain their consistence well.

COPIVI. See Balsam of Copaivi.

COPPER. All the compounds of this metal are poisonous. In small doses they are tonic. The antidotes are white of eggs, milk, iron filings, or hydrated sulphuret of iron.

COPPER, DIACETATE OF. See Verdigris.

COPPER, ACETATE OF. Crystallized (commonly called *distilled*) verdigris. Caustic and cleansing. Stronger than common verdigris.

COPPER, DINIODIDE OF. Tonic, and promotes absorption. Dose, 1 or 2 dr. daily, in farcy, glanders, swelled legs, &c. &c.

COPPER, NITRATE OF. Sometimes used as a caustic.

COPPER, SULPHATE OF. *Blue Vitriol*. Tonic and styptic. In doses of $\frac{1}{2}$ dr. gradually increased to 2 dr. daily, it is given in

diabetes, farcy, &c. Small doses may be given in balls with gentian and ginger; larger doses in gruel. It has been thought useful in glanders; but Mr. YOUATT says it is only proper in nasal discharges without fever. Dose, for cattle, 1 to 2 dr. Sheep, 20 to 40 gr. Rabbits (in snuffles), 1 or 2 gr. twice a day. Externally the solution is used for the foot-rot of sheep; and as a cleansing wash for foul ulcers in horses and cattle. Used also in the solid state to destroy proud flesh.

CORDIALS. Warm stimulating medicines, such as spices and the aromatic seeds, fermented liquors and spirits, &c., which, temporarily, restore exhausted strength, revive the spirits, and rouse the system generally. The best modern practitioners condemn their indiscriminate employment as the source of much mischief. For cordial balls, &c., see Formulary.

CORIANDER SEEDS. A mild aromatic stimulant and carminative, used in cordial balls and drinks. Dose $\frac{1}{2}$ oz. to 1 oz.

CORROSIVE SUBLIMATE. One of the most virulent poisons. In small doses it is alterative and diuretic. It has been tried, in doses of 2 to 5 gr. gradually increased to 10 or 20, in farcy and glanders, but rarely with lasting benefit. Externally it is used as a powerful caustic. A dilute solution is employed as a wash for scab and lice in sheep, but the practice is not free from danger. Applied to wounds in cattle it has proved as fatal a poison as when swallowed. The antidote for an overdose is white of egg or milk, or the hydrated sulphuret of iron; with demulcent drinks.

COWAGE. Vermifuge; but has little effect on the horse.

CREAM OF TARTAR. Cooling, laxative, and diuretic. Seldom given alone; but combined with antimonials, mercurials, or sulphur, as an alterative in skin diseases; and as an adjunct to aloes in purging balls. Cattle require 2 or 3 oz.; when given in larger doses it should be given in plenty of warm water. Sheep require $\frac{1}{2}$ oz. to 1 oz. Dogs, 5 to 10 gr.

CREASOTE. Tonic, stimulant, and antiseptic. Dose, 20 to 30 drops daily, in gruel or linseed tea, in glanders. Externally in lotions and ointments, to fistulous wounds, unhealthy ulcers, &c.

CROTON SEEDS AND OIL. Purgative. The oil produces great irritation in the horse. 30 drops have proved fatal. The powdered seeds, and the meal or ground cake left after expressing the oil, are used; 3 gr. of the former and 5 of the latter being considered equivalent to 1 dr. of aloes. It operates with less

certainty, and produces more debility, than aloes, but is sometimes preferred on account of its more speedy action. It is usually given in the form of a ball, 20 to 30 gr. being mixed with 1 oz. linseed meal. Mr. YOUATT prescribes 30 gr. of the powdered seeds in a drink, in tetanus and brain fever, followed by smaller doses (10 gr.) every 6 hours. From 10 to 20 gr. are sometimes added to salts in purging drenches for cattle, in extreme cases. One drop of the oil purges a dog freely.

CUMMIN SEED. A warm carminative. Dose from 1 to 4 dr. of the powdered seeds; or from 6 to 20 drops of the oil.

CUSPARIA, OR ANGUSTURA BARK. An aromatic bitter tonic. Dose, 1 to 4 dr. in debility, diabetes, diarrhœa, &c.

CYANIDE OF POTASSIUM. It possesses the same poisonous and medical properties as prussic acid. M. LAFORE has given it with success in a case of idiopathic tetanus of the horse; but it failed to cure traumatic tetanus. Dose, 4 gr.

DAFFY'S ELIXIR. Sometimes given in colic or gripes.

DALBY'S CARMINATIVE. Given to calves, in diarrhœa. Dose, $\frac{1}{2}$ a bottle.

DETERGENTS, OR DETERSIVES. Remedies which cleanse foul ulcers.

DIAPENTE. A compound powder, reputed cordial and stomachic. Too much of what is sold in the shops is almost worthless. Dose, $\frac{1}{2}$ oz. to 1 oz.

DIAPHORETICS. Medicines which promote perspiration.

DIGESTIVES. Mildly stimulating applications, which excite healthy action in indolent ulcers, wounds, &c.

DIGITALIS. *Foxglove.* Sedative and diuretic. It reduces the frequency of the pulse and diminishes irritability. It is poisonous to animals generally; 6 gr. will kill a dog. It is asserted, however, that it produces no effect on poultry. The common dose of the powdered leaves, for a horse, is from 10 to 30 gr. Mr. YOUATT prescribes 60 gr., with emetic tartar and nitre, in inflammation of the chest; but its effect on the pulse must be carefully watched. To cattle, $\frac{1}{2}$ dr. to 1 dr. Sheep, 5 to 15 gr. Dogs, 1 to 2 gr. An infusion of the leaves is applied to inflamed eyes.

DIURETICS. Medicines which increase the flow of urine. Some

of them, juniper, capivi, squills, broom, &c., appear to carry off water only; the alkaline salts the solid matters also.

DOG-GRASS. It is emetic to dogs.

DOVER'S POWDER. Sudorific to cattle in rheumatism. Dose, 1 dr.

EGGS. Nutritive and demulcent. Sometimes given in diarrhœa. They are one of the best antidotes to poisoning by corrosive sublimate.

ELATERIUM. It has little effect on the horse.

ELDER. An infusion of the flowers is given in catarrhal complaints. The leaves boiled with lard form an emollient ointment, which is a common application to sore udders. The fresh leaves of the dwarf elder are given (according to BOURGELAT and MOIROUD) with some success as a deobstruent and aperient, in swelled legs, dropsy, and farcy.

ELECAMPANE. The root is reputed stimulant, diaphoretic, diuretic, stomachic, and expectorant. Dose, 4 to 8 dr. in chronic catarrh, dropsical swellings, &c.

EMETIC TARTAR. See Antimony, Tartarized.

EMETICS. Medicines which excite vomiting. It is scarcely possible to produce this effect in herbivorous animals.

EMOLLIENTS. Medicines which soften and relax the tissues of the organs.

EPSOM SALT. A cooling laxative. It is not to be depended on as a purgative for the horse; but in doses of 4 or 5 oz., in a large quantity of water, repeated 3 times a day, it is useful, as a laxative and diuretic in inflammatory diseases. Cattle require from 12 to 20 oz., with ginger or any of the warm seeds. It is sometimes rendered more active by aloes or gamboge. Calves require from 1 to 2 oz., according to their age and strength. Sheep, $\frac{1}{2}$ oz. to 2 oz. Dogs, from 1 to 3 dr. wrapped in tissue paper. A large elephant takes a pound and a half, preceded by a dr. of calomel.—YOUATT.

ERGOT OF RYE. It promotes parturition. Dose for a mare, 2 or 3 dr. A cow, 2 dr. repeated at intervals of half an hour. A ewe, 20 to 40 gr. Bitch, 5 to 10 gr. [Mr. SPOONER says from 2 to 4 gr.], or an infusion of a scruple given at three times, at intervals of half an hour. Larger doses than the above are indicated by M. MOIROUD.

ERRHINES. Remedies which excite a discharge from the nostrils.

ESCHAROTICS. Caustics. Substances which destroy the part to which they are applied.

ETHER. A diffusible stimulant and antispasmodic; used chiefly in colic. Dose, $\frac{1}{2}$ oz. [MOIROUD says from $\frac{1}{2}$ oz. to 3 oz.] It is used outwardly in cooling lotions and eye-waters. The vapour, inhaled by means of a proper apparatus, produces insensibility to pain; but some of the early experiments with this agent have proved most unfortunate. Chloroform is now preferred.

ETHIOPS MINERAL. The mildest of the mercurial compounds. Alterative and vermifuge. Dose, 2 to 4 dr. daily in farcy, glanders, grease, skin diseases, and worms, alone, or with cream of tartar. For cattle, 1 dr.; swine, 3 to 10 gr.; dogs, 5 gr. in mange. With an equal weight of prepared antimony it forms Antimonial Ethiops—a more efficient preparation.

EUPHORBIIUM. Very acrid and poisonous. Used in blisters, chiefly to economize the more expensive flies; but irritates extremely. It is used in the form of tincture and ointment as a local stimulant.

EXCITANTS. Medicines which quicken the circulation, produce warmth, and render the organs more active.

FENNEL SEEDS. A weak carminative and diuretic. Dose, $\frac{1}{2}$ oz. to 2 oz.

FERN. Powdered male fern is given in doses of 6 dr., followed by a mercurial purgative, for expelling worms. M. MOIROUD carries the dose to 4 oz.; or 5 or 6 dr. for smaller animals.

FÆNUGREC SEEDS. Emollient, nutritive, and stomachic. Dose, 1 oz. daily, to promote condition in horses, and in diseases of the chest. It is also added to the food of swine, to promote their fattening. Used also externally in fomentations.

FORGE WATER. The water of the blacksmith's forge is sometimes given as a tonic; or applied as a wash to ulcerated and cankered mouth.

FOXGLOVE. See Digitalis.

GALANGAL ROOT. A warm aromatic; similar in properties to ginger.

GALBANUM. Stimulant, expectorant, and antispasmodic. Dose,



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GRAINS OF PARADISE. A warm stimulant; chiefly used in cattle medicines. Dose, 3 to 6 dr.

GRUEL. A decoction of oatmeal. Nutritive and demulcent.

GUAIAACUM [GUM]. Sudorific and expectorant. It has been given to horses, in doses of 4 dr., in chest affections, farcy, rheumatism, &c.; and to cattle in doses of 4 or 6 dr. But its utility is doubted. The guaiacum wood is given to the amount of 4 oz., in decoction, repeated 2 or 3 times in 24 hours.

GUM ARABIC. Emollient and demulcent. Used in inflammatory affections of the bowels, or of the respiratory or urinary organs. Dose, for horses and cattle, 1 to 4 oz., dissolved in water. For smaller animals, from $\frac{1}{4}$ oz. to 1 oz. Gum senegal and gum tragacanth are used for the same purposes. The latter will thicken twenty times as much water as gum Arabic. [For Gum Ammoniac, Benzoin, &c., see Ammoniacum, Benzoin, &c.]

HARTSHORN, SPIRIT OF. See Ammonia. It is chiefly used in stimulating liniments, and for the bites and stings of venomous reptiles and insects. For salt of hartshorn, see Ammonia, Carbonate of.

HELLEBORE, WHITE. Poisonous to all classes of animals. In small doses, it has been strongly recommended as a nauseant and diaphoretic, in inflammatory diseases; but it requires to be very carefully watched, otherwise a fatal collapse may be induced. The usual dose is 20 gr. every six hours till nausea is produced, or the pulse affected. Mr. YOUATT says it cannot safely be given in doses of a drachm, but that it is given with advantage in ounce doses in chronic grease. Externally, it is used in ointments and washes for the mange; but even in this way its use requires caution. It is also blown into the nostrils as a sternutatory.

HELLEBORE, BLACK. The root is used as an irritating seton for cattle, and introduced into fistulous sores of the horse.

HEMLOCK, SPOTTED. A narcotic poison. In doses of a drachm of the powdered leaves, or the extract, gradually increased, it is sometimes given, to quiet obstinate coughs. It is also an ingredient in some old remedies for farcy, scirrhus tumours, and cancer. For dogs, from 1 to 4 gr., in coughs and cancerous diseases. A decoction of the herb is used as a fomentation to painful tumours. Water hemlock is a more virulent poison, and often destroys cattle. M. MOIROUD says that ruminants bear hemlock better than other animals. Mr. YOUATT considers

both common and water hemlock harmless to the horse, though he admits that cows have been poisoned by the latter.

HENBANE. Narcotic and sedative. Dose, 15 to 20 gr. twice or three times a day, to allay arterial action. On dogs it acts as on man: dose, 3 to 5 gr. German horse-dealers are said to give a plump appearance to diseased horses by mixing henbane seeds with their corn.

HONEY. Demulcent, emollient, and slightly laxative. Used in cough medicines, and to make up balls. Horses are fond of it. Externally, it is detergent, and is perhaps useful in defending ulcers from the air.

HOPS. Tonic and slightly anodyne, but chiefly used in fomentations.

HOREHOUND. Sometimes given in coughs; a quart of the decoction, or 1 oz. of the powder.

HORSERADISH. Stimulant and diuretic. Said to be useful in dropsical complaints, and in recent epidemics attended with chronic inflammation. The fresh root is rasped and mixed with barley meal.

IODINE. Alterative, and promotes absorption. Used externally and internally to reduce glandular swellings, and scirrhus and other tumours. 5 gr. of iodine, or $1\frac{1}{2}$ or 2 dr. of the compound tincture, may be given twice a day in farcy. Cattle take from 5 to 10 gr., and from 1 to 2 dr. of the compound tincture. Dogs, $\frac{1}{4}$ to 1 gr. twice daily. The compound iodine ointment is used to disperse glandular enlargements. It is rapidly superseding cantharides.

IODIDE OF POTASSIUM, OR HYDRIODATE OF POTASH. It possesses the same properties as iodine, but irritates less. It is often combined with iodine, which it renders soluble in water. The dose, by itself, is rather larger than of iodine alone—from 15 to 30 gr. twice a day.

IPECACUANHA. Little used in veterinary practice, except as a sudorific, in combination with opium (Dover's powder). A drachm or two may be given to horses in asthmatic affections. It purges sheep; purges or vomits the pig and dog. Dose for the latter, 4 to 20 gr. [From 2 to 30 gr.—MOIROUD.] 3 oz. killed a horse [Mr. B. CLARKE].

IRON. The preparations of this metal are tonic; some of them (as the sulphate and muriate) astringent and styptic. The

usual doses for a horse are, 2 oz. of iron filings, once or twice a day, with corn, or in a mash; 1 to 3 or 4 dr. of the sulphate; 2 to 6 dr. of the sesquioxide or carbonate, or of rust of iron, or of the powdered scales; 1 to 3 dr. of tartarized iron; and $\frac{1}{2}$ to $1\frac{1}{2}$ dr. of the iodide. For sheep, a sixth or eighth of the above doses. [M. MOIROUD prescribes much larger doses of the above.] The muriated tincture of iron is prescribed in doses of 2 or 3 dr. for incontinence of urine. The sulphate is sometimes used externally in astringent lotions.

JALAP. Purgative, but has little or no such effect on the horse, or other herbivorous animals. It is sometimes added to other purgatives, but probably without any benefit. Dose for swine, $\frac{1}{2}$ to 2 dr. Dogs, 15 to 40 gr. Cats, 10 to 20 gr.; but it is rather uncertain.

JAMAICA PEPPER. See Allspice.

JAMES'S POWDER. Similar to antimonial powder, but considered more certain and uniform in its operation. Dose, 20 to 30 gr., in fevers and inflammatory complaints. It is also given to dogs as a remedy for distemper, 4 gr. twice a day.

JUNIPER BERRIES. Diuretic and slightly stimulant. Dose for a horse, 1 to 2 oz., or 1 to 2 dr. of the essential oil; for cows, 2 or 3 oz.; sheep, $\frac{1}{4}$ to $\frac{1}{2}$ oz. An extract from the berries (prepared by evaporating a clear decoction, or rather a cold infusion of the berries, to the consistence of treacle) is much used on the continent as a vehicle for various remedies.

KERMES' MINERAL. A preparation of antimony, similar to the precipitated sulphuret, not much used in this country, but highly esteemed in France. Dose for horses, 1, 2, or 3 dr. For cattle, 4 dr. or more. For a good-sized dog, $1\frac{1}{2}$ gr., gradually increased.

LAUDANUM. *Tincture of Opium.* See Opium.

LARD. Half a pound, with warm water, is laxative and emollient. It is also used to make up balls, and is thought to prevent griping, as well as to preserve their consistence. It forms a common basis for ointments.

LAVENDER. The compound spirit is carminative and cordial. Dose, $\frac{1}{2}$ oz. in peppermint water.

LEAD. The preparations of this metal are poisonous. See Acetate of Lead, and Goulard's Extract of Lead.

LEAD, WHITE AND RED. Common ingredients in ointments and

plasters. Also sprinkled on sores as a desiccative. They are also used for dusting sheep for the fly.

LIME. Quicklime is sometimes used as a caustic; the powder dusted over foul ulcers, greasy heels, &c.

LIME WATER. Antacid and tonic. Sometimes given in diabetes, from 2 to 4 quarts. Used also as a wash for sores, and as an injection into the nostrils in glanders and chronic discharges. Mixed with linseed oil, it forms a liniment for burns.

LIME, CHLORIDE OF. See Chloride of Lime.

LINSEED. Demulcent and pectoral. A decoction of the seeds is very mucilaginous, and is used in colds, sore throats, internal inflammations; also to counteract the effects of corrosive and irritant poisons, and as a vehicle for more active medicines. Linseed meal is used for poultices. Linseed oil is laxative. Dose for a horse, a pint, or a pint and a half; for cattle, 1 or 2 pints; sheep, 2 or 3 oz.

LIQUORICE. Demulcent and pectoral, in coughs, &c. Dose, $\frac{1}{2}$ oz. to 2 oz. of the powdered root; or $\frac{1}{2}$ oz. of the foreign extract (Spanish or Italian juice).

LIVER OF SULPHUR. See Sulphuret of Potash.

LOBELIA INFLATA. It is poisonous to horses, and produces salivation in cattle; but its remedial powers have not been ascertained.

LOGWOOD. Astringent. 2 or 3 dr. of the extract, or a decoction of 3 or 4 oz. of the wood, may be given in diarrhœa, &c.

LOTIONS. Washes. Liquid applications, with which external parts are bathed.

MADDER. Formerly supposed to be useful in glanders and farcy, and as a preventive of the effects of the bites of venomous reptiles; but it is nearly discarded from modern practice. It is sometimes given to pigs, but with what specific intention it is difficult to say. It colours the bones of animals fed with it.

MAGNESIA. Antacid and laxative. From $\frac{1}{2}$ to 3 oz. to horses and cattle, with some warm carminative in flatulent distention. To calves in diarrhœa, $\frac{1}{4}$ oz. Either the common or the calcined may be used.

MAGNESIA, SULPHATE OF. See Epsom Salt.

MALLOW. Demulcent. A handful of the leaves boiled in a quart

of water, more frequently used as a lavement. The *root* of the *marshmallow* is preferred; a decoction of 2 or 4 ounces is given as a drink in both coughs and internal inflammations, and used as a glyster, and as a fomentation.

MALT. Nutritive, pectoral, and alterative. It is given, in the form of mashes, in chest affections, when no inflammation is present, and in grease, farcy, and mange.

MANNA. Slightly laxative and pectoral. Dose, 2 oz. with honey, or dissolved in water, in inflammatory diseases and chronic coughs.

MASHES. See Bran Mash, &c., in Formulary.

MERCURY, OR QUICKSILVER. The preparations of this metal are alterative, most of them purgative, and all apt to produce salivation. Dogs may easily be salivated, but graminivorous animals with greater difficulty. The editor of "Clater's Cattle Doctor" says, "Mercury does not seem to agree with herbivorous animals, in any form, or in any disease." The preparations in use are indicated below.

MERCURIAL OINTMENT. Applied to callous swellings, enlarged joints, mange, scab in sheep, &c. The weaker ointment is generally sufficient.

MERCURY WITH CHALK. Alkalized mercury. A mild preparation. Dose, from 1 to 3 dr., in farcy, glanders, &c.

MERCURY, SUBMURIATE OR CHLORIDE OF. See Calomel.

MERCURY, BICHLORIDE. See Corrosive Sublimate.

MERCURY WITH SULPHUR. Black Sulphuret of Mercury. See Ethiops Mineral.

MERCURY, RED SULPHURET OF. See Cinnabar.

MERCURY, NITRIC OXIDE. See Red Precipitate.

MERCURY, AMMONIO-CHLORIDE. See White Precipitate.

MERCURY, NITRATED OINTMENT OF. See Ointment, Citrine.

MERCURY, ACID NITRATE OF. Used as a caustic. See Caustics, V. Formulary.

MILK. Sometimes given, in quantities of 1 to 3 quarts, in acute inflammations, coughs, and all internal irritations, especially those occasioned by acrid and corrosive poisons. It is a convenient vehicle for administering medicines to the dog or cat.

MILLEPEDES. Wood-lice. Diuretic. Dose, $\frac{1}{2}$ oz. to $1\frac{1}{2}$. Seldom used.

MINDERERUS' SPIRIT. See Acetate of Ammonia.

MINT, AND PEPPERMINT. Carminative, cordial, and sudorific. A strong infusion of the plant, or the distilled water, is given in flatulent colics. Dose, 1 or 2 pints; but chiefly as vehicles for more active remedies. Dose of the oil of peppermint, 20 to 30 drops, or to 60 drops of oil of spearmint. A few drops of the oil are added to purgative medicines to prevent griping. The other mints have similar properties.

MITHRIDATE. Cordial and anodyne. $\frac{1}{2}$ oz. to 1 oz. may be given in flatulent colic, but would be injurious in inflammation.

MULLEIN. An infusion of the flowers is given as a demulcent for the same purposes as linseed tea. A decoction of the leaves is used in emollient fomentations and cataplasms.

MURIATIC (OR HYDROCHLORIC) ACID. *Spirit of salt.* Tonic and antiseptic; but principally used to dissolve calcareous concretions in the bladder. Dose for a horse $1\frac{1}{2}$ to 2 or 3 dr., in plenty of water, twice a day. Externally as a caustic.

MURIATE OF AMMONIA. *Sal Ammoniac.* Formerly used in influenza or epidemic catarrh. It is said also to have proved useful in farcy, and perhaps deserves trial in other chronic diseases. It renders the blood more fluid. Its use requires caution. 2 oz. produced inflammation of mucous membrane of a horse; 2 drachms killed a dog, and $\frac{1}{2}$ dr. a rabbit. M. MORROUD states the dose to be from 2 to 8 dr. for horses and cattle, and for small animals from a scruple to a drachm, largely diluted. Externally it is a frequent ingredient in discutient lotions to splints, old strains, bruises, indolent tumours, &c., in horses and cattle. It is also employed as an embrocation to sore teats.

MURIATE OF ANTIMONY. See Antimony, Butter of.

MURIATE OF BARYTES. Poisonous; in small doses alterative. It has been tried in glanders and farcy, with the usual success. Dose, $\frac{1}{2}$ dr. in milk.

MURIATE OF COPPER. Used externally only, as a mild caustic.

MURIATE OF LIME. Alterative and resolvent, in glandular diseases; but rarely used in veterinary practice. It has been pro-

posed in glanders and farcy. In an overdose it is poisonous. We have not met with any specific statement of doses.

MURIATE OF SODA. *Chloride of Sodium.* See Salt, common.

MUSTARD. Stimulant; but little used as an internal remedy. Flour of mustard mixed with vinegar, is applied externally as a rubefacient, to relieve internal inflammation.

MYRRH. Tonic, expectorant, antiseptic, and balsamic. From 1 to 3 dr. to a horse in chronic cough. To catttle 2 to 4 dr., or more. The tincture is used for ulcers of the mouth in all animals, and to indolent sores.

NAPHTHA. Rectified wood naphtha is used instead of spirit of wine, for making tincture of myrrh and aloes.

NAPHTHALINE. A stimulating expectorant. It possesses many of the properties of camphor, and a solution of it in spirit may be substituted for camphorated spirit, and with oils, &c., for liniments and ointments.

NARCOTICS. Medicines which induce stupor or sleep, and ease pain.

NAUSEANTS. Medicines which produce nausea, diminish arterial action, and thus abate inflammation.

NITRE. *Nitrate of Potash.* Cooling and diuretic. In colds, fevers, and inflammatory complaints of the horse, from 2 to 4 dr. may be given daily, in plenty of water, or linseed tea, till the desired effect is produced. An ounce is often given, but smaller doses repeated are better. Cattle 2 to 4 dr. [1 oz. in 24 hours for some days.—MOIROUD.] Swine and sheep, 30 to 40 gr.; dogs, 4 to 10 gr.

NITRIC ACID, NITROUS ACID, AND AQUAFORTIS. Used externally only, as a strong caustic; or largely diluted as an antiseptic wash to foul ulcers.

NITRATE OF SILVER. *Lunar Caustic.* Tonic; but rarely given to animals, except to dogs in chorea, in doses $\frac{1}{8}$ th to $\frac{1}{4}$ of a gr. Externally caustic. It is the best caustic that can be applied to the bites of rabid animals. A weak solution (10 gr. to 1 oz. rain water) is used to excite sluggish wounds, and to remove opacity from the cornea of the eye.

NUX VOMICA. Poisonous to all animals. Given in doses of 8 or 10 gr., gradually increased to 30 gr., in paralysis of the horse; but its effect requires to be carefully watched. A few grains



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is sometimes given as a worm medicine, in doses of 1 oz. (sometimes increased to 2 oz.) to horses, or a drachm to small animals. As an outward application it is sometimes added to powders against the fly in sheep; but injures the wool. Oil of paper or rag is an empyreumatic fluid obtained by burning these substances. Mixed with water it is used in inflammation of the eyes, mouth, &c.

OILS, COMPOUND. See Oils and Liniments in the Veterinary Formulary.

OINTMENTS. See Formulary.

OLIVE OIL. See Oils, expressed.

ONIONS. Stimulant and diuretic. They are said to be useful in colic and gripes. Externally used in poultices to promote supuration.

OPIUM. Anodyne, antispasmodic, sedative, indirectly astringent, and in large doses narcotic or stupefactive, and capable of destroying life. In combination with ipecacuanha and tartarized antimony it is sudorific. The dose for horses in ordinary cases is from $\frac{1}{2}$ dr. to 1 dr. But in locked-jaw, spasmodic colic, and other urgent cases, it may safely be given in doses of 2 dr., and even (according to MOIROUD) to 4 dr. To cattle, the dose is from 10 to 40 gr.; or in locked-jaw, &c., 1 dr. Calves, 10 gr. Sheep, 2 to 4 gr. Much larger doses have been given with impunity. Dogs require from $\frac{1}{2}$ gr. to 2 gr., according to the size and case. M. MOIROUD says the dose should not exceed that prescribed for man. Mr. BLAINE says that they are much less affected by it than men. The dose of tincture of opium is (for horses) from 1 to 2 oz.; of the extract, 20 to 30 gr. Externally, opium is used in anodyne liniments, and is useful in inflammation of the eye. See Eye-waters, Liniments, &c., in Vet. Formulary.

OPODELDOC. Soap Liniment. Used externally only, in stimulating liniments.

ORIGANUM. Wild Marjoram. Stimulant. The essential oil is hot and pungent, and a frequent ingredient in liniments for old strains, and in blisters.

ORPIMENT. Yellow Arsenic. Poisonous. Used, mixed with lard, for fistulous sores, warts, &c., but is not free from danger.

OXYMEL. Cooling and pectoral. Used in catarrhal affections. Dose, 3 or 4 oz.

OXYMEL OF SQUILLS. A stimulating expectorant. Seldom used in veterinary practice.

PALM OIL. Emollient. Used in compounding ointments and liniments; and of late much commended as a basis of aloetic and other balls. It has also been given as a laxative; dose, 12 oz. or more.

PEPPERMINT. Carminative. The distilled water and the essential oil are chiefly used. See Mint.

PEPPER, BLACK, WHITE, AND LONG. Warm stimulant cordials. The latter kind is chiefly used in veterinary practice. It must be carefully avoided in inflammatory complaints. Dose for horses and cattle, 2 to 4 dr. For Jamaica Pepper, see Allspice.

PEPPER, CAYENNE. The ground pods of some species of capsicum. See Capsicum.

PERIWINKLE. The plant, in decoction, or chopped up in a mash, is said to relieve quinsy. Pulverized and mixed with Ethiops Mineral, it has been vaunted as a remedy for glanders.

PERUVIAN BARK. See Bark.

PETROLEUM. See Barbadoes Tar.

PEWTER. The scrapings are given to dogs for worms. Dose, $\frac{1}{2}$ dr. to 1 dr. Tin filings are safer. See Tin.

PHYSIC. In veterinary practice this term is applied to purgatives. See Physic or Purging Balls, V. Formulary.

PIGEON'S DUNG was formerly used as a diuretic. Dose, 4 oz. boiled in white wine.

PIMENTO. See Allspice.

PITCH. Stimulant, balsamic, probably diuretic; but rarely given internally. It is more frequently used externally in charges and warm plasters. For liquid pitch, see Tar.

PITCH, BURGUNDY. Stimulant. Used in charges, and warm and strengthening plasters.

POMEGRANATE. The rind of the fruit is given (in decoction or powder) as an astringent to cattle in diarrhoea. Dose, from $\frac{1}{2}$ oz. to 1 oz. The bark of the root is used to destroy worms. MOIROUD directs 5 or 6 oz. to be boiled in water for some hours, and the decoction given in divided doses.

POPPY HEADS. Anodyne; but principally used in fomentations.

(See also Syrup of Poppies.) An extract prepared by evaporating the expressed juice of the ripe capsules and tops is said to be nearly half the strength of opium. Of the ordinary extract (from the decoction) 5 gr. are said to equal 2 of opium.—LEBAS.

POTASH, CAUSTIC. *Fused Hydrate of Potash*. A powerful caustic.

POTASH, SUBCARBONATE. *Salt of Tartar or prepared Kali*. Antacid and diuretic. Dose for a horse from 2 to 4 dr. or more. It is seldom given alone, but sometimes joined with tonics, stomachics, purgatives, and with other diuretics. The bicarbonate is milder, and may be given in larger doses.

POULTICES. Are useful in relieving inflammation and pain. See Formulary.

PRECIPITATE, RED. A mild caustic, and detergent to indolent and foul ulcers.

PRECIPITATE, WHITE. Principally used to destroy vermin in the horse and other animals.

PRUSSATE OF POTASH. Ferro-prussiate of potash may probably be found useful in veterinary practice; but its properties and uses are not yet precisely ascertained. It must not be confounded with the simple prussiate of potash (cyanide of potassium), which is an energetic poison. See Cyanide of Potassium.

PRUSSIC ACID (Medicinal). A strong poison to all animals. Rarely used in veterinary practice. The dose Mr. MORTON states to be from $\frac{1}{2}$ dr. to 1 dr. Mr. YOUATT recommends a lotion composed of a drachm of the medicinal acid to a pint of water, to allay cuticular irritation in dogs.

PULSE. The following table, from VATEL is inserted as a useful remembrancer to the practitioner:—

Table of the Number of Pulsations in a Minute in various Animals.—In the horse, 32 to 38 (36 to 40—WHITE); ox or cow, 35 to 42 (42 to 45—CLATER); ass, 48 to 54; sheep, 70 to 79; goat, 72 to 76; dog, 90 to 100; cat, 110 to 120; rabbit, 120; guinea-pig, 140; duck, 136; hen, 140; heron, 200.

PURGATIVES. *Cathartics or Laxatives*. Medicines which more or less actively promote evacuations from the bowels. Aloes is almost the only purgative for the horse that is at once certain and safe. For cattle Epsom or Glauber's salt is the most preferable. Aloes, gamboge, or linseed or castor oil is sometimes combined with them. Sulphur is used when a very strong pur-

gative is not required; yet this requires some caution. See those various articles.

QUASSIA. A bitter tonic. Dose, 1 or 2 dr., with a little ginger, in debility of the stomach. Its poisonous effects on insects and small animals suggest caution in its use.

QUICKSILVER. See Mercury.

QUININE, SULPHATE OF. Tonic. Dose, $\frac{1}{2}$ dr. to 1 dr. But too expensive for general use. It is given to dogs in chorea, in doses of 2 to 5 gr.

RAGWORT. The herb is said to produce a kind of lethargy or staggers in horses and cattle. Externally it is used as a poultice in quinsy.

RAKING. Removing hardened fæces from the lower bowel by the hand.

REED. The great reed (*arundo donax*), and the Bankside reed (*arundo phragmitis*) are reputed diuretic. The former is supposed to have the property of diminishing the secretion of milk.

REFRIGERANTS. Cooling medicines. See Temperants.

RESIN OR ROSIN. Diuretic. $\frac{1}{2}$ oz. to 1 oz. may be given daily to horses in their corn, for swelled legs. The yellow or amber resin is preferable. Externally it is adhesive and gently stimulating; and is a common ingredient in digestive ointments, and in plasters and charges.

RHODODENDRON. Supposed to be useful in the rheumatism of cattle. Dose, $\frac{1}{2}$ oz. to 1 oz., boiled in water.

RHUBARB. Tonic and stomachic. Scarcely laxative to large animals. From $\frac{1}{2}$ oz. to 1 oz. is given in jaundice, to horses and cattle. On dogs it acts as a purgative, but an uncertain one, in doses of $\frac{1}{2}$ dr. to 1 dr.

ROSEMARY. A mild stimulant and carminative. The essential oil is chiefly used in warm liniments and ointments; but is sometimes given in doses of $\frac{1}{2}$ dr. to 1 or 2 dr. in colic.

RUE. Stimulant, uterine, antispasmodic, and vermifuge. It is also supposed to resist contagion and poisons. A decoction or infusion of 2 to 4 oz. of the fresh herb in water or beer is given for worms; as an antidote to the bite of vipers; with diuretics in farcy; with box leaves as a preventive of hydrophobia; and with camphor and opium in locked jaw. The bruised leaves

are put into horses' ears for the staggers. It is given to poultry for the cure of roup. Externally rue is used in fomentations, as a stimulant, antiseptic, and discutient.

SAFFRON. Cordial, antispasmodic, and uterine; but too weak and expensive for veterinary use.

SAGE. Stimulant and tonic. In habitual relaxation of the bowels. The powder may be given in a ball, or the herb infused.

SAGO. Nutritive and demulcent. Used in the form of gruel.

ST. JOHN'S WORT. Vulnerary. The flowers were formerly an ingredient in **FRYAR'S Balsam** and other similar compounds. An infused oil of the plant is sometimes used in liniments.

SAL AMMONIAC. See Muriate of Ammonia.

SAL PRUNELLE. *Fused Nitre.* Its uses and doses are the same as nitre.

SALICINE. Tonic. Dose, 10 to 30 gr.

SALT, COMMON, OR CULINARY. In small doses it is tonic, digestive, and alterative: in large doses purgative and vermifuge. As a digestive, 1 oz. may be sprinkled on the horse's corn. As a purgative, or to expel worms, the dose may be from 4 to 6 oz. It is also a common ingredient in laxative clysters. For cattle, an ounce or more may be sprinkled on the hay, to assist digestion: as a purgative, 8 oz. may be given, but it is not a suitable one in inflammatory or febrile diseases. Sheep require 2 oz. as a purgative; or smaller doses daily as a preventive of the rot. To dogs, a teaspoonful or one and a half will act as an emetic; in smaller doses as a vermifuge. Half a teaspoonful of a solution of salt, as strong as it can be made, is given to poultry as an emetic in roup. Externally, salt dissolved in water is used as a discutient, as a stimulant to old strains, and as a collyrium in chronic ophthalmia.

SALTS, EPSOM AND GLAUBER'S. See Epsom Salts and Glauber's Salts.

SARSAPARILLA, AND CHINA ROOT, are diaphoretic and alterative; but seldom used in veterinary practice.

SAVIN. An acrid stimulant. The powder is given in doses of 1 or 2 dr. (with or followed by aloes) for worms, but its efficacy is doubtful. Long-continued use of savin is reported to have occasioned the hair to fall off. Externally it is applied, in powder or ointment, to warts.

SCAMMONY. An uncertain as well as expensive purgative, far inferior to aloes.

SCUTELLARIA. *Skull-cap*. Mr. YOUATT and others regard this plant as a preventive of hydrophobia. Dose, 40 gr. daily, gradually increased.

SEA WATER. Laxative. Dose, 2 or 3 pints.

SEDATIVES. Medicines which produce quiet, and relieve pain.

SENNA. Purgative; but rarely used in veterinary practice. 5 or 6 oz. are required to purge a horse.

SERPENTARY. Stimulant, tonic, diaphoretic, and antiseptic. It is also supposed to resist the effects of the bites of serpents, &c. Dose, from $\frac{1}{2}$ oz. to 1 oz. or more; but rarely used.

SIMAROUBA. Tonic and stomachic, for the same purposes as gentian. Seldom used.

SODA. Prepared natron, carbonate or subcarbonate of soda. The common washing soda is generally sufficiently pure. Antacid and diuretic. Dose, 2 to 4 dr. It is sometimes added to aloes as a corrective, and to tonics in weakness of the stomach. The bicarbonate of soda is milder, and may be given in larger doses.

SODA, CHLORIDE OF. See Chloride of Soda.

SODA, SULPHATE OF. See Glauber's Salt.

SODIUM, CHLORIDE OF. The modern name of common salt. See Salt, common.

SOOT. Some French veterinarians prescribe from 2 to 3 oz. of soot as a vermifuge. We presume *wood-soot* is intended.

SPERMACETI. Demulcent and pectoral. Dose, $\frac{1}{2}$ oz. to horses in cough; and to cows, after calving. Externally emollient, in ointments.

SPIRIT OF HARTSHORN. This ammoniacal liquor is stimulant, antacid, and antispasmodic. Dose, $\frac{1}{2}$ oz. But more frequently used in stimulating liniments, and as an application to the bites and stings of venomous reptiles and insects.

SPIRIT OF SAL VOLATILE. This also owes its pungency to ammonia. Dose, $\frac{1}{2}$ oz.

SPIRITS, ARDENT. Brandy, gin, and rum are given as stimulants and antispasmodics, especially in colic. Dose, from 2 to 4 or 5 oz. with warm water. Rectified spirit of wine may be given

in the same way, in smaller doses (1 to 2 oz.); but is more commonly employed for making tinctures; and externally in lotions.

SPIRIT OF MINDERERUS. See Acetate of Ammonia.

SPIRIT OF NITRE, SWEET. *Spirit of Nitric Æther*. Diuretic, diaphoretic, and antispasmodic. Dose for horses, in fever, $\frac{1}{2}$ oz. 3 times a day. In colic, from $\frac{1}{2}$ oz. to 1 oz., or $1\frac{1}{2}$ oz. Cattle, $\frac{1}{2}$ oz. to 1 oz. in low fevers. Sheep, 1 dr. Dog, from 10 to 20 drops.

SQUILL. A stimulating expectorant. Dose for a horse, 1 dr.; for cattle, $1\frac{1}{2}$ or 2 dr. It is also applied in frictions to the abdomen. MOIROUD has seen it remove ascites.

STARCH. Demulcent. Chiefly used in clysters, but sometimes also in drinks. Dose, 1 to 2 oz., boiled in 3 or 4 pints of water. It is occasionally used in fomentations.

STAVESACRE SEEDS. Poisonous. 2 dr. will destroy a horse. Only used outwardly to destroy vermin, either powdered and mixed with grease, or infused in vinegar.

STEEL, SALT OF. See Iron, Sulphate of. For the other preparations (so called) of steel, see *Iron*.

STIMULANTS. See Excitants. Diffusible stimulants are those which produce a sudden and temporary excitement of the circulation, and on the nervous system.

STOMACHICS. Medicines which invigorate the stomach and promote digestion.

STOPPINGS. Compositions employed to keep the feet moist and supple.

STORAX. Balsamic and expectorant. Dose, $\frac{1}{4}$ oz. But rarely used.

STYPTICS. Astringent applications employed locally to stop bleeding.

SUBLIMATE, CORROSIVE. *Bichloride of Mercury*. See Corrosive Sublimate.

SUGAR, SYRUP, AND TREACLE. These are used to sweeten drinks; and to give form to balls and other compounds.

SUGAR OF LEAD. See Lead, Acetate of.

SULPHUR, OR BRIMSTONE. It is in 3 forms, roll brimstone,



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TAR. Internally, in old coughs, from 2 to 4 dr. Externally it is cleansing and gently stimulating. It is particularly useful in thrushes and all diseases and wounds of the feet both of horse and cattle, to punctured wounds, and for the cure of mange and other skin diseases. Mixed with fish oil, it is applied with a brush to hard, brittle feet. Tar water (see Formulary) is also given in chronic coughs. Oil or spirit of tar is used in mange ointments, and as a dressing for sheep. The latter requires some caution: we have known sheep killed by rectified spirit of tar.

TARTAR EMETIC. See Antimony, Tartarized.

TEMPERANTS. Medicines which moderate the circulation.

TIN. Vermifuge. A drachm of the filings daily to dogs. A horse requires from 1 to 3 oz.

TOBACCO. An acro-narcotic poison. In small doses, diuretic and emetic. Principally used as a wash for the mange, and to destroy lice and fly in sheep. But it is not altogether safe, as it is apt to be absorbed. It vomits the dog, pig, and cat; but there are safer emetics. Herbivorous animals are less readily affected by it, but instances of its having proved fatal to them are recorded. In some parts of France, jockeys are said to stupify vicious horses for sale by tobacco diffused in spirits.

TONICS. Medicines which give tone to the fibres, and invigorate the system when relaxed and debilitated. The principal tonics used in veterinary medicine are gentian, Peruvian bark, chamomile, and other vegetable bitters and astringents; and the preparations of iron, copper, arsenic, zinc, &c. The free use of them, particularly when fever and inflammation are present, is a frequent source of mischief.

TORMENTIL ROOT. Astringent. Dose, 1 oz. to 1½ oz. Its presence in pastures is supposed to prevent the rot in sheep.

TURBITH MINERAL. *Subsulphate of Mercury.* An irritating purgative, and, in large doses, poisonous. Dose, ½ dr. in farcy. Given to dogs as an emetic: dose, 1 gr. to 3 gr.

TURMERIC. A weak aromatic stimulant. Supposed to be useful in jaundice, or yellows. Dose, 1 oz.

TURPENTINES. They are all stimulant, diuretic, and expectorant; and in larger doses, vermifuge and purgative. Dose of common turpentine, ½ oz. to 1 oz. They are used in digestive ointments. Oil or spirit of turpentine is a more stimulating diuretic; it is

also considered efficacious as an antispasmodic in colic (gripes), and as a remedy for worms. Dose for the latter purposes, from 2 to 4 oz., or sometimes still larger doses for worms. To cattle (in hoose, from worms in the bronchial passages) about 2 oz. To sheep, in rot, 1 dr. It is not a safe medicine for dogs. Externally, it is used in stimulating liniments, embrocations, ointments, &c. It is very irritating to the skin of the horse, and also of the dog, instantly producing great excitement. Like the common and Venice turpentine, it enters into the composition of some digestive ointments.

UVA URSI. *Bearberry.* Astringent. Dose, 4 to 6 dr., in diabetes. But GIRARDI says it inflames the stomach.

VALERIAN. A stimulant, acting chiefly on the nervous system. Dose, for horses and cattle, 1 to 4 oz. in powder. In dogs it is said to act as a vermifuge. Dose, 1 to 4 dr.

VERDIGRIS. *Subacetate (or Diacetate) of Copper.* Tonic, caustic, poisonous. It has been given in doses of 1 dr. to 2 dr. daily, in farcy and glanders. Externally, detergent and caustic, in ointments, and in the form of *Ægyptiacum*. The crystallized acetate of copper is more powerful in its action.

VERJUICE. Properties and juices the same as of vinegar; but preferred by some for outward use.

VERMILION. See Cinnabar.

VINEGAR. Diaphoretic, cooling, and antiseptic. In combination with honey, it is used in coughs. In large quantities, it irritates the stomach; a pint is said to have destroyed a horse. It should always be plentifully diluted. It is chiefly used as an external application, as a lotion for strains, bruises, sprains, and inflammations, and hot as a revulsive. The vapours are thought to possess disinfecting properties, but are less effectual than chlorine.

VITRIOLATED ZINC. *White Vitriol.* See Zinc, Sulphate of.

VITRIOL, BLUE. See Sulphate of Copper.

WATER. Besides its use as a drink, and as a vehicle for medicines, water is used remedially, on the hydropathic system. Rugs wetted with cold water, and well covered with dry ones, are used to produce perspiration, assisting its operation by copious draughts of cold water, adding 4 oz. of sweet spirit of nitre to each pailful. This treatment is said to have succeeded in the recently epidemic pleuro-pneumonia.

WAX. Chiefly used in making cerates, plasters, charges, &c.

WHEY. A cooling and nutritive drink in inflammatory diseases, and during convalescence from them.

WILLOW BARK. Possesses in some degree the same properties as Peruvian bark. Dose, in powder or decoction, 1 to 4 oz.

WINE. Stimulant. Port wine has been given as an astringent in obstinate diarrhœas. Dose for horses and cattle, $\frac{1}{2}$ pint.

WINTER BARK. A warm tonic and stomachic. Dose, 2 to 6 dr.

WOLFSBANE. *Aconite.* A virulent poison.

WORMWOOD. A bitter tonic and vermifuge. An infusion of from 2 to 4 oz. of the dry, or twice as much fresh herb, may be given in dropsy, and diseases of general debility; or from 2 to 4 dr. of the powder may be given in a ball. A few drops of the essential oil are often added to aloes, &c., for worms.

WORT. See Malt.

YEW. It is not used medicinally. The leaves are poisonous to horses and cattle. To counteract its effect, it is recommended to give 10 gr. of croton meal, and afterwards drenches of gruel with vinegar. The croton to be repeated in 6 hours if it has not operated.

ZEDOARY. A weak aromatic stimulant, formerly prescribed in jaundice; but now rarely employed. It is weaker than ginger.

ZINC, OXIDE. *Flowers of Zinc.* A mild astringent and tonic; chiefly used in dusting ulcers and excoriations, to promote skinning. Rarely used internally.

ZINC, SULPHATE OF. *White Vitriol.* Tonic. Dose, for the horse, 4 to 6 dr., frequently combined with cantharides. Externally, astringent, deterative, styptic, and healing; in lotions and ointments, to indolent ulcers, grease, &c. It is a frequent ingredient in eye-waters,—about 3 gr. to an ounce of water. A saturated solution is used as an injection for quitters.

VETERINARY FORMULARY.

Medicines for Horses.

BALLS AND BALL MASSES.

THE roots, seeds, and other dry substances are to be reduced to powder; and it is of importance that the aromatic seeds, especially, should have been recently powdered. The drugs should be of good quality. It is hoped that the trash sold as horse-powders will not much longer be known in establishments which have any pretensions to respectability. After this general notice, it will be unnecessary to occupy the space by repeating the words, "powdered," "freshly powdered," "genuine," &c. Balls should not be too hard, but merely stiff enough to retain their form, and should be wrapped in soft paper.

COMMON MASS, as a basis for balls in general. Mix with the hands equal weights of linseed meal and treacle, and add a little palm oil.—CHERRY.

ALTERATIVE BALLS. The term *alterative* is applied to medicines which, without any sensible operation, or with a laxative or diuretic operation so gradual as not to interfere with the usual work or diet, produce a favourable change in the system, and, in common language, "purify the blood." Alterative balls are given in skin diseases, swelled legs, grease, foul humours, &c.; usually 1 daily, or every other day.

Diuretic Alterative Balls. 1. Dried common soda 1 oz., Castile soap 6 dr., rosin 2 oz., liquorice powder $\frac{1}{2}$ oz., Barbadoes tar to form 6 balls; 1 daily.—WHITE.

2. Acetate of potash $\frac{1}{2}$ oz., rosin $\frac{1}{2}$ oz., fenugreek 1 oz., treacle enough to form a mass for two balls; 1 daily.

Laxative Alterative Balls. 1. Aloes 4 oz., soft soap 4 oz., common mass 24 oz.; mix; dose, 1 oz.—V. C.

2. Socotrine aloes 8 oz., soft soap 8 oz., common mass 16 oz.; mix; dose, 1 oz.—V. C.

3. Aloes 10 dr., soap 12 dr., caraways 12 dr., ginger 4 dr., treacle q. s. for 4 balls; 1 daily.—WHITE.

4. Aloes 1 dr., diuretic mass (No. 1 or 3) 9 dr.

5. Antimonial powder 1 dr., aloes 1 or 2 dr., diuretic mass (No. 1 or 3) 1 oz.

Antimonial, or Diaphoretic Alterative Ball. 1. Levigated antimony 2 to 4 dr., caraway seeds 4 dr., treacle q. s. to form a ball.—WHITE.

2. Prepared antimony 2 dr., nitre 3 dr., sulphur 2 dr., linseed meal 2 dr., palm oil to form a mass; one every night, in megrims.—CLATER.

3. Tartarized antimony 2 dr., elecampane 2 oz., guaiacum 6 dr., sulphur 1 oz., treacle and flour to form 6 balls; 1 daily.

Mercurial Alterative Balls. 1. Ethiops mineral 4 oz., sulphur, prepared antimony, cream of tartar, cinnabar, of each 5 oz., honey to form a mass for 12 balls; 1 every morning for a month, in farcy.—TAPLIN.

2. Calomel $\frac{1}{2}$ dr., aloes 1 dr., Castile soap 2 dr., oil of juniper 30 drops, syrup to form a ball.—WHITE.

3. Blue pill 1 dr., black antimony 2 dr., diuretic mass 4 dr., aloes 1 dr., for a ball, daily.

4. In Grease: prepared antimony, sulphur, nitre, Ethiops mineral, of each 3 oz., Castile soap 10 oz., oil of juniper 3 dr., syrup or honey q. s. for 12 balls; 1 every morning for 2 or 3 weeks.—TAPLIN.

Alterative Tonic Balls. See Tonic Balls.

ASTRINGENT BALLS. These are given in diarrhoea, diabetes, &c.

1. (V. C. Astringent Mass.) Catechu 1 oz., cinnamon 1 oz., common mass 6 oz.; mix; dose, 1 ounce.

2. Peruvian bark 12 oz., grains of paradise 2 oz., gentian 3 oz., honey q. s. for 16 balls; 1 every morning: for diabetes.—RYDING.

3. Catechu $\frac{1}{2}$ oz., alum 3 dr., cascarilla 2 dr., flour 2 dr., treacle q. s.—WHITE.

4. Catechu 2 dr., opium $\frac{1}{2}$ dr., linseed meal 2 dr., treacle to form a ball. For profuse staling, 1 night and morning; if they confine the bowels, add 1 dr. of aloes.—CLATER.

5. Peruvian bark $1\frac{1}{2}$ oz., alum $\frac{1}{2}$ oz., treacle q. s. For the same purpose.—LAWRENCE.

6. Oak bark 1 oz., (or Peruvian bark $\frac{1}{2}$ oz.,) opium 1 dr., ginger 2 dr., syrup to form a ball; for diarrhœa.—WHITE.

7. Opium $\frac{1}{2}$ dr., prepared chalk 6 dr., cassia $1\frac{1}{2}$ dr., tartarized antimony 2 dr., syrup to form a ball; for the same.—WHITE.

8. Nut-gall 2 dr., cassia $\frac{1}{2}$ dr., conserve of roses to form a ball.

9. Burnt rhubarb 1 dr., compound powder of chalk 3 dr., common mass 6 dr.; for diarrhœa.

10. Tormentil or bistort $1\frac{1}{2}$ dr., marshmallow root $\frac{1}{2}$ oz., chalk 2 dr., syrup to form a ball.

11. For bloody urine. Acetate of lead 10 gr., sulphate of zinc 40 gr., catechu 4 dr., conserve of roses to form a ball; once daily.—BLAINE. See also Tonic Balls.

COUGH BALLS; Expectorant Balls. The following formulæ are chiefly intended for chronic coughs and thickness of wind. The bowels should be kept open by mashes and an occasional laxative. Coughs occasioned by worms require a different treatment. In coughs connected with inflammation of the chest, and epidemic catarrh, see Balls for Inflammation of the Lungs.

1. Aloes 2 oz., digitalis (powdered) 1 oz., common mass 13 oz.; dose, 1 oz. twice a day.—V. C.

2. Emetic tartar $\frac{1}{2}$ dr., digitalis $\frac{1}{2}$ dr., nitre $1\frac{1}{2}$ dr., tar enough to form a ball; every night.—YOUATT.

3. Powdered squill 1 dr., gum ammoniac 3 dr., opium $\frac{1}{2}$ dr., syrup to form a ball.—WHITE.

4. Ipecacuanha 1 dr., camphor 2 dr., liquorice powder 1 dr., honey to form a ball; to be given every morning.—BLAINE.

5. Sulphur $\frac{1}{2}$ oz., assafoetida 1 oz., liquorice powder 1 oz., Venice turpentine 1 oz., for 4 balls; one every night for 4 times.—HINDS.

6. Calomel 20 gr., gum ammoniacum 2 dr., balsam of Peru 1 dr., p. squill 1 dr., honey to form a ball; one every morning.—BLAINE.

7. P. marshmallow root and liquorice, of each 1 dr., elecampane, sulphur, and Kermes mineral, of each $\frac{1}{2}$ dr., honey to form a ball; twice a-day.—LEBAS.

8. Squill 2 dr., gum ammoniac 4 dr., ipecacuanha 4 dr., opium 4 dr., pimento 1 oz., balsam of sulphur 4 oz., Castile soap 2 oz., treacle to form a mass for 6 balls; one twice a-day.—HINDS.

9. Spermaceti 1 oz., balsam of copaiva 1 oz., benzoin 2 dr., sulphur 2 oz., elecampane 2 oz., p. squill 4 dr., emetic tartar 2 dr., syrup of poppies to form a mass for 8 balls.—B. CLARKE.

10. Liquorice powder $\frac{1}{2}$ oz., linseed or barley meal 1 oz., tar $\frac{1}{2}$ dr., honey to form a ball.

11. Castile soap, aniseed, liquorice, of each 5 oz., Barbadoes tar 6 oz., ammoniacum 3 oz., balsam of Tolu 1 oz., honey q. s. to make a mass for 12 balls; one every morning for a fortnight.—TAPLIN.

12. Digitalis 1 dr., nitre 2 dr., liquorice 4 dr., tar enough to form a ball.—CLATER. See also Mixed Balls (Pectoral Cordial.)

BALLS FOR INFLAMMATION OF THE LUNGS, BRONCHITIS, &c.

1. Antimonial powder 2 dr., digitalis 2 dr., nitre 3 dr., cream of tartar 3 dr., honey to form a ball; one every 4, 6, or 8 hours, in inflammation of the lungs.—BLAINE.

2. Digitalis 1 dr., emetic tartar $1\frac{1}{2}$ dr., nitre 3 dr., honey q. s.; when the pulse intermits, reduce the dose to half.—YOUATT.

3. Nitre 6 dr., emetic tartar 2 dr., flour and syrup to form a ball; twice a-day.—WHITE.

4. Digitalis 1 dr., emetic tartar 1 dr., nitre 3 dr., sulphur 1 dr., linseed meal 2 dr.; beat together with palm oil.—CLATER.

5. In epidemic catarrh. To the last add 2 dr. of the Physic Mass (No. 10); repeat this twice.

6. In the advanced stage, when suppuration has taken place. Carbonate of ammonia $1\frac{1}{2}$ dr., opium 1 dr., aniseed $\frac{1}{2}$ oz., syrup to form a ball.—SPOONER.

CORDIAL BALLS. For exhaustion from over-exertion, and as a stimulus to weak stomachs. But their frequent and unnecessary use is hurtful.

1. Ginger and gentian, equal parts, treacle to form a mass; dose, 1 oz. to $1\frac{1}{2}$ oz.—V. C.

2. Caraway, bruised raisins, of each 4 parts, ginger and palm oil, of each 2 parts.—YOUATT.

3. Aniseed, caraway, cardamom, each 1 oz., saffron 2 dr., sugar-candy 4 oz., liquorice powder $1\frac{1}{2}$ oz., Spanish juice (softened with water) 2 oz., oil of aniseed $\frac{1}{2}$ oz., wheat flour q. s.; dose, 1 oz. to $1\frac{1}{2}$ oz.—BRACKEN.

4. Aniseed, caraway, sweet fennel, liquorice, of each 4 oz., of ginger and cassia, each $1\frac{1}{2}$ oz., honey to form a mass.—WHITE.



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2. Common turpentine 4 oz., Castile soap 4 oz., caraway 8 oz., ginger 1 oz., flour q. s.—WHITE.

3. Rosin 16 oz., white soap 16 oz., nitre 8 oz., dried common soda 2 oz., oil of juniper 4 oz.; beat together, adding flour if required; dose, 1 oz. to $1\frac{1}{2}$ oz.

4. Nitre 1 lb, Castile soap $\frac{1}{2}$ lb, common turpentine 1 lb, barley meal $2\frac{1}{2}$ lb, or sufficient; dose, about 1 oz.—B. CLARKE.

5. White soap 8 oz., nitre 3 oz., rosin 3 oz., camphor 3 dr., oil of juniper 3 dr. For 6 balls; 1 every, or every other morning.—TAPLIN.

6. Common turpentine 16 oz., sulphur 24 oz., nitre 8 oz., honey 8 oz., flour or linseed meal q. s.; dose, $1\frac{1}{2}$ oz.

7. Camphor 2 dr., nitre 1 oz., flour and syrup to form a ball; for stoppage of water.—WHITE.

8. Yellow resin 4 lb, common turpentine 2 lb, yellow soap 1 lb; melt together, and add nitre 1 lb.—BLAINE.

9. Common turpentine (or powdered resin) $\frac{1}{2}$ oz., linseed meal $\frac{1}{4}$ oz., ginger $\frac{1}{2}$ dr., palm oil q. s.—YOUATT.

10. Yellow resin 2 oz., common turpentine 4 oz., soap 3 oz.; melt together, stir in 1 oz. sweet oil, add oil of aniseed $\frac{1}{2}$ oz., oil of juniper $\frac{1}{2}$ oz., ginger 2 dr., linseed meal q. s.; mix, and divide into 8 balls; 1 a day till the water is affected.—HINDS.

11. Resin $2\frac{1}{2}$ lb, cream of tartar $\frac{1}{2}$ lb, sulphur $\frac{1}{2}$ lb, linseed meal 1 lb, palm oil 1 lb; dose, 1 oz. to 2 oz.—CLATER.

12. Nitre 1 oz., vermilion $\frac{1}{2}$ oz., resin 1 oz., camphor $\frac{1}{2}$ oz., honey q. s. for 4 balls.—LEBAS.

13. Nitre 8 oz., oxysulphuret of antimony 1 oz., sulphur 8 oz., resin 8 oz., oil of juniper 1 oz., yellow soap 8 oz., treacle to form a mass; dose, $1\frac{1}{2}$ oz.

14. White soap 1 oz., extract of juniper berries q. s. for 2 balls.—BOURGELAT.

Tonic Diuretic Ball. Gentian 1 dr., ginger $\frac{1}{2}$ dr., sulphate of iron 2 dr., diuretic mass (No. 11) $\frac{1}{2}$ oz., oil of juniper 10 drops, syrup of squills $\frac{1}{2}$ oz.; twice a day in dropsy of chest; less frequently in swelled legs.—CLATER. See also Leicester Red Balls. (Miscellaneous Balls.)

FEVER BALLS.

1. Emetic tartar $\frac{1}{2}$ dr., camphor $\frac{1}{2}$ dr., nitre 2 dr., common mass 6 dr., or q. s. for one ball; to be given twice or three times a day.—V. C.

2. Camphor 1 dr., nitre 6 dr., antimonial powder 2 dr., flour and syrup to form a ball.—WHITE.

3. Antimonial powder 2 dr., nitre 3 dr., cream of tartar 2

dr., honey to form a ball; in influenza, twice a day, after a mild laxative.—BLAINE.

4. See Balls for Inflammation of Lungs, No. 4.—CLATER.

BALLS FOR FARCY AND GLANDERS. Mr. COLEMAN says he has tried the various preparations of arsenic, antimony, copper, mercury, zinc, aconite, digitalis, hemlock, henbane, hellebore, nightshade, &c., in glanders, without any specific or curative effect. Mr. YOUATT considers it useless to attempt the cure of glandered horses; but that farcy in its early stage and mild form may be successfully treated. Mr. BLAINE says, "All the mercurials have been used with benefit in farcy; but they must be discontinued as soon as the mouth is affected, or sickness, loss of appetite, &c., produced."

1. Æthiops mineral 2 dr., blue pill 1 dr., prepared antimony 3 dr., diuretic mass 4 dr. One every morning.

2. Strong mercurial ointment 2 to 3 dr., guaiacum 3 dr., soap 4 dr., fenugrec 12 dr., treacle to form a mass, for 6 balls.

3. Sulphate of copper 1 dr., corrosive sublimate 8 gr., linseed powder $\frac{1}{2}$ oz.—WHITE.

4. Corrosive sublimate 10 gr., gradually increased to 20, gentian 2 dr., ginger 1 dr., syrup to form a ball; to be given night and morning till some effect is produced: when the mouth is affected, the sublimate may be exchanged for 1 dr. sulphate of copper.—YOUATT.

5. Sulphate of copper 1 dr., calomel 20 gr., common turpentine 3 dr., liquorice powder and syrup q. s. for one ball.—COLEMAN.

6. Sulphate of copper 1 dr., white arsenic 8 gr., corrosive sublimate 8 gr., linseed powder $\frac{1}{2}$ oz., syrup to form a ball.—WHITE.

7. Æthiops mineral 2 dr., opium 10 gr., liquorice powder and mucilage to form a ball; to be given twice a day till breath or urine affected.—HINDS.

8. Sulphate of iron 2 dr., Peruvian bark 1 oz., opium $\frac{1}{2}$ dr., syrup to form a ball.—SMITH.

9. Cantharides 4 gr., gradually increased to 6 or 8 gr., gentian, ginger, and caraway each 1 dr., syrup q. s.; every or every other day.—VINES.

10. Diniodide of copper 1 dr., gentian $1\frac{1}{2}$ dr., pimento 1 dr., cantharides 5 gr.; for one ball.—MORTON.

11. Sulphate of zinc 15 gr., cantharides 7 gr., pimento or ginger 15 gr., treacle and oatmeal to form a ball; 1 daily.—BRACY CLARK.

12. Sublimate, arsenic, verdigris, each 8 gr., sulphate of copper 20 gr.; for one ball (with common mass q. s.); the dose may be gradually increased, carefully watching its effects, but should never exceed 15 gr. of sublimate and arsenic.—BLAINE.

13. Sublimate 10 gr., gentian 2 dr., ginger 1 dr., linseed meal $\frac{1}{2}$ oz., palm oil to form a ball; night and morning for a fortnight; for farcy.—CLATER.

14. Sulphate of copper $\frac{1}{2}$ dr. to 1 dr., ginger and gentian, each 1 dr., linseed meal and palm oil to form a ball; morning and night for a fortnight, then daily as long as necessary; in glanders.—CLATER.

15. Strong mercurial ointment 3 oz., white soap 2 oz., starch 2 oz.; form a mass, and divide into 12 balls; 1 every morning.—MOIROUD.

16. Assafoetida 3 oz., vermilion 2 oz., muriate of lime 3 dr., galangal 1 oz., strong mercurial ointment 2 oz., beat together into a uniform mass, and divide into 6 balls; one every other morning.—LEBAS.

17. Æthiops mineral 8 oz., powdered burdock root 16 oz., treacle q. s.; make into 32 balls.—MOIROUD.

18. Antihecticum Poterii 2 dr., with 6 dr. of cordial ball; every other day.—Mr. LAWRENCE.

BALLS FOR GREASE. See Diuretic Balls, and Alterative Balls.

BALLS FOR YELLOWS, OR JAUNDICE, AND INFLAMMATION OF LIVER (HEPATITIS).

1. For Hepatitis without purging: calomel 1 dr., antimonial powder 2 dr., aloes 3 dr., syrup to form a ball; one every 4 or 5 hours, till the bowels are opened.—BLAINE.

2. Calomel $\frac{1}{2}$ dr., aloes 1 dr., soap 2 dr., rhubarb $\frac{1}{2}$ oz., syrup to form a ball; to be given every 12 hours, till it purges moderately.—WHITE.

3. Aloes 2 dr., calomel 1 dr., syrup to make a ball; twice a day.—YOUATT.

4. Opium 1 dr., calomel 1 dr., emetic tartar 2 dr., liquorice powder 3 dr., syrup to form a ball; once every 12 hours.—WHITE.

Yellows (Jaundice) without Fever. 1. Calomel 1 dr., aloes 2 dr., soap 2 dr.; for one ball; night and morning till purged, then so as to keep them lax.—BLAINE.

2. Calomel $\frac{1}{2}$ dr., aloes $1\frac{1}{2}$ dr., Castile soap 2 dr., rhubarb 3 dr., syrup to form a ball.—WHITE.

3. In the latter stage, when not costive, calomel 12 gr., sul-

phate of copper 1 dr., gentian 3 dr., oak bark 3 dr., chamomile 3 dr., syrup to form a ball; once or twice a day.—BLAINE.

PHYSIC OR PURGING BALLS. The animal should be prepared by bran mashes for two days, and the ball given fasting in the morning. Gentle exercise with a ball is useful, but not after it begins to operate. Genuine Barbadoes aloes should be used (from the gourd, not melted), and the dose seldom need exceed 6 dr. A week should be allowed between the operation of one ball before another is given. See Aloes, in the Veterinary Materia Medica.

1. (V. C. Cathartic mass.) Bruised B. aloes 8 oz., olive oil 1 oz.; melt together in a vessel placed in hot water; remove it from the fire, add 3 oz. of treacle, and stir all together; dose 6 to 12 dr., equal to 4 to 8 dr. of aloes.

2. (V. C. Stronger.) To each dose of the last add from 4 to 8 drops of croton oil.

3. B. aloes 4 to 8 dr., soap 3 to 4 dr., ginger 1 dr., oil of cloves 10 drops, (or oil of caraway or aniseed, 20 drops,) water 1 dr. or q. s.; beat together into a mass.—WHITE. Mr. W. says this is the best that can be employed.

4. B. aloes 15 oz., ginger 1 oz.; mix and beat up with 8 oz. of palm oil. Dose, 1 oz. to $1\frac{1}{2}$.—MR. YOUATT.

5. Barb. aloes 24 dr., Cape aloes 12 dr., olive oil 4 dr., treacle 12 dr.; dose, 7 to 14 dr.; mix as No. 1.—MORTON.

6. B. aloes 5 dr., $7\frac{1}{2}$ dr., or 9 dr., oil of caraway 10 drops; made up with palm oil or lard.—MR. BLAINE'S Nos. 1, 2, and 3.

7. Melt Barb. aloes (in a tin vessel immersed in boiling water) with a fifth of its weight of treacle, and while soft, pour it into paper moulds; 1 oz. is a full dose for a large-sized saddle or coach horse.—B. CLARK. [For a convenient apparatus for melting and casting these balls, see Mr. Bracy Clark's Pharmacopœia Equina; or Vol. V. of the Pharmaceutical Journal.]

8. B. aloes 5 to 8 dr., cream of tartar 2 dr., oil of cloves 10 drops, treacle to form a ball.—PEALL.

9. Aloes 7 dr., Castile soap 4 dr., aromatic powder 1 dr., oil of caraway 6 drops, mucilage to form a ball.—HINDS.

10. Barb. aloes $7\frac{1}{2}$ parts, socotrine aloes $7\frac{1}{2}$ parts, ginger 1 part; mix the powders, add $7\frac{1}{2}$ parts of palm oil, and beat $1\frac{3}{4}$ oz.—CLATER.

11. B. aloes $13\frac{1}{2}$ oz., lard 6 oz., treacle $1\frac{1}{2}$ oz., water $1\frac{1}{2}$ oz.; put them in an earthen vessel, placed in boiling water; mix, and form the mass into 18 balls.—MCEWEN.

Mercurial Physic Balls. 1. Cathartic mass (No. 10 above) 10 to 14 dr., calomel 1 dr. to $1\frac{1}{2}$ dr.; mix.—CLATER.

2. For stomach staggers: Aloes 1 oz., calomel $\frac{1}{2}$ oz., cascarilla 3 dr., syrup to form a ball.—WHITE.

LAXATIVE BALLS.

1. Ipecacuanha 1 dr., aloes 3 to 4 dr., liquorice powder and mucilage to form a ball.—HINDS.

2. Aloes 3 to 4 dr., soap 3 dr., oil of caraway 20 drops, syrup q. s.—WHITE.

3. Aloes 3 to 4 dr., soap 4 dr., emetic tartar 2 dr., mucilage to form a ball.—HINDS.

For other formulæ, see Alterative Balls, (laxative.)

NAUSEATING BALLS. These are given in inflammatory diseases.

1. Powdered white hellebore $\frac{1}{2}$ dr., linseed meal 4 dr., treacle to form a ball; one night and morning till some effect is produced: in inflammation of the kidneys.—CLATER.

2. White hellebore 20 gr., common mass or other proper material to form a ball; give one every 4, 6, or 8 hours, till symptoms of nausea appear, taking care not to carry it too far.—Mr. PERCIVAL. See Fever Balls. See Hellebore, in Veterinary Materia Medica.

STOMACHIC BALLS. For indigestion, and during recovery from debilitating diseases which have impaired the appetite. A mild purge should be previously given.

1. Gentian, quassia, grains of paradise of each 3 dr., Venice turpentine q. s. for one ball.—BLAINE.

2. Gentian 2 or 3 dr., carbonate of soda 1 dr., ginger 1 dr., treacle to form a ball.—WHITE.

3. Chamomiles 2 dr., calumbo 2 dr., common salt 1 dr., fenugrec 2 dr., syrup to form a ball.

4. Myrrh $1\frac{1}{2}$ dr., cascarilla 2 dr., Castile soap 1 dr., syrup to form a ball.—WHITE.

5. *Laxative Stomachic Ball.* Aloes 3 dr., rhubarb 3 dr., subcarbonate of soda 2 dr., ginger $1\frac{1}{2}$ dr., treacle to form a ball.—WHITE.

6. Calumbo and chamomile in powder, each 2 dr., Venice treacle $\frac{1}{2}$ oz., oil of caraway 25 drops, honey q. s.—LAWRENCE. See Tonic Balls, for other formulæ.

TONIC BALLS. In diseases attended with general debility, and to restore strength after tedious illnesses.

Vegetable Tonics. 1. Peruvian bark 1 oz., opium $\frac{1}{2}$ dr., ginger $1\frac{1}{2}$ dr., oil of caraway 20 drops, treacle to form a ball.—WHITE.

2. Sulphate of quinine 1 dr., gentian and oak bark, each 1 oz., honey to form a mass.—MOIROUD.

3. Gentian 1 dr., ginger $\frac{1}{2}$ dr., cascarilla 1 dr., treacle and linseed meal to form a ball.—CLATER.

4. Myrrh 2 dr., mustard flour 1 dr., cantharides 5 gr., chamomile 4 dr., Venice turpentine q. s. for one ball.—BLAINE.

5. Gentian 4 dr., chamomile 2 dr., carbonate of iron 1 dr., ginger 1 dr., syrup q. s. for one ball.—YOUATT.

6. Quassia 2 dr., canella 2 dr., opium $\frac{1}{2}$ dr., ginger 1 dr., treacle q. s.—WHITE.

Mineral Tonics. 1. Sulphate of iron 4 oz., ginger 4 oz., common mass 10 oz.; beat together to form a mass; dose, 1 oz. to $1\frac{1}{2}$ oz.—V. C.

2. Sulphate of iron $\frac{1}{2}$ oz., aromatic powder 2 dr., mucilage q. s. to form a ball.—WHITE.

3. Scales of iron 12 oz., gentian 8 oz., honey to form a mass.—MOIROUD.

4. Myrrh 3 dr., sulphate of iron 2 dr., chamomile 3 dr., ginger 1 dr., Venice turpentine or palm oil to form a ball.—BLAINE.

5. Gentian 4 dr., chamomile 2 dr., carbonate of iron 1 dr., ginger 1 dr., syrup for one ball.—YOUATT.

6. Sulphate of iron 2 dr., carbonate of potash 2 dr., cascarilla 2 dr., caraway 4 dr., treacle q. s.—WHITE.

7. Sulphate of iron 1 dr., carbonate of soda 2 dr., myrrh 1 dr., ginger 1 dr., cantharides 6 gr., caraway $\frac{1}{2}$ oz., treacle q. s.—WHITE.

8. Tonic Mass. Sulphate of copper 2 oz., ginger 2 oz., common mass 12 oz., beat together; dose, 1 oz. to $1\frac{1}{2}$ oz.—V. C.

9. Sulphate of copper and ginger, of each 1 dr., canella 4 dr., conserve of roses q. s. for one ball.—BLAINE.

10. White arsenic 5 to 10 gr., aniseed $\frac{1}{2}$ oz., opium $\frac{1}{2}$ dr., treacle q. s.; sometimes 2 dr. of sulphate of zinc may be added.—WHITE.

11. Arsenic 10 gr., gentian and cascarilla, of each 3 dr., conserve of roses q. s.—BLAINE.

Mild Alterative Tonics. To promote condition; a mild dose of physic should be previously given.

1. Aloes 1 dr., Winter's bark 2 dr., verdigris 1 dr., treacle or honey q. s.

2. Arsenic 8 gr., pimento 1 dr., extract of gentian, 4 dr.; daily.

WORM BALLS.

1. Calomel 1 or 2 dr. at night, and an aloetic ball in the morning.—CLATER.

2. Emetic tartar 2 dr., ginger a scruple, linseed meal and treacle to form a ball; one every morning an hour before feeding.—YOUATT.

3. Calomel 8 gr., arsenic 8 gr., tin filings 1 oz., Venice turpentine $\frac{1}{2}$ oz.; mix; and give every morning fasting, for a fortnight.—BLAINE.

4. Common salt $\frac{1}{2}$ oz., gentian 2 dr., rust of iron 2 dr., savin 1 dr., treacle to form a ball, to be given every morning for a week: then a purging ball.

5. B. aloes 6 dr., ginger $1\frac{1}{2}$ dr., oil of wormwood 20 drops, subcarbonate of soda 2 dr., syrup to form a ball; $\frac{1}{2}$ dr. or 1 dr. of calomel may be added, or given the previous night; to be repeated at intervals of 10 days if required.—WHITE.

6. Emetic tartar 2 dr., common mass 6 dr.; to be given for 6 mornings, and a purging ball on the 7th.

7. Assafoetida 2 dr., calomel 1 or 2 dr., savin $1\frac{1}{2}$ dr., oil of wormwood 20 drops, syrup q. s.; at night, and a physic ball in the morning.

8. Emetic tartar 1 dr., sulphur 1 dr., linseed meal 4 dr., palm oil to form a ball; one every morning after a mercurial physic ball.—CLATER.

9. For long round worms. Emetic tartar 2 dr., ginger $\frac{1}{2}$ dr., tin filings 6 dr., linseed meal 1 dr., palm oil to form a ball.

10. Assafoetida 4 oz., gentian 2 oz., strong mercurial ointment 1 oz., honey to form a mass, for 16 balls; one or more every morning.—LEBAS.

MISCELLANEOUS BALLS.

Garlic Ball. Beat garlic to a paste with enough linseed or liquorice to form a mass; dose, 10 dr.

Iodine Ball. Iodine 5 gr., linseed meal 5 dr., palm oil to form a ball.

Ball to prevent Hydrophobia. Scull-cap 2 scruples, belladonna $2\frac{1}{2}$ gr., form them into a ball, to be given night and morning; the second week 2 balls, the third 3 balls, and this continued for 6 weeks.—YOUATT.

Leicester Red Balls. Nitre 1 lb, resin 1 lb, common soda 2 oz., Castile soap $\frac{1}{2}$ lb, ginger 2 oz., oil of juniper 2 dr., cinnabar $\frac{1}{2}$ oz.; dose, $1\frac{1}{2}$ oz.

Balls for Appetite. Equal weights of assafoetida, saffron, bay-



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4. Assafoetida 2 oz., salt 1 oz.—BOURGELAT.

5. Angelica $\frac{1}{2}$ oz., assafoetida 1 oz., vinegar 2 dr.—SOLLEYSELL.

6. Flour of mustard $\frac{1}{2}$ oz., sal ammoniac 2 dr., powdered pellitory 1 oz.—MOIROUD.

ELECTUARIES AND CONFECTIONS.

Electuaries are compound medicines in the state of a soft paste.

When the paste is hard enough to be formed into balls, the compound resembles ball masses or balls, under which we have placed them. French pharmaciens often use the term *opiates* as nearly synonymous with electuaries; but we only apply the name (opiates) to compounds containing opium.

OPIATE CONFECTION. (*Veterinary.*) Opium $1\frac{1}{2}$ oz., macerate in a little hot water till soft, and rub it to a paste; then add ginger 3 oz., caraway 6 oz., treacle $1\frac{1}{2}$ lb; dose, $1\frac{1}{2}$ to 2 oz.—WHITE.

DEMULCENT AND PECTORAL ELECTUARIES.

1. Marshmallow root and liquorice (in powder) of each 2 oz., honey 10 oz.; mix; to be given at twice, with a spatula.—MOIROUD.

2. Melt $\frac{1}{2}$ oz. spermaceti with 2 oz. of olive oil, add 6 oz. of honey, and mix in $1\frac{1}{2}$ p. marshmallow root; to be given daily.—MOIROUD.

3. (*With Opium.*) Powdered gum 2 oz., marshmallow 1 oz., extract of opium 2 dr., honey 3 oz.; for 2 doses.

4. *Cough Electuary with Manna.* Manna 2 oz., honey 6 oz.; in the morning; said to have cured acute bronchitis, &c.

5. Powdered liquorice 8 oz., elecampane 4 oz., sulphur 2 oz., honey of squill 32 oz.; mix; for 8 doses.

STIMULANT AND CORDIAL ELECTUARIES. [M. LEBAS gives a form for an electuary (*Thériaque*) of many ingredients, the first of which (cordial powder) itself contains 26 ingredients. We only insert here the simpler formulæ of the French veterinarians.]

1. Powdered angelica root 2 oz., masterwort 1 oz., muriate of ammonia $\frac{1}{2}$ oz., honey 8 oz.—MOIROUD.

2. *Stimulant and Expectorant.* Assafoetida 4 oz., elecampane 8 oz., honey 32 oz.—MOIROUD.

TONIC AND ASTRINGENT ELECTUARIES.

1. Red oxide of iron 8 oz., gentian 12 oz., extract of juniper-berries 32 oz. MOIROUD prescribes 6 oz. for a horse, or 1 oz.

for a sheep; but these are larger doses than are customary in England.

2. Peruvian bark 6 oz., nitre 1 oz., camphor $\frac{1}{2}$ oz., honey 16 oz.—LEBAS.

3. Powdered bistort 1 oz., calcined magnesia 2 dr., honey 4 oz.—MOIROUD.

PURGATIVE AND LAXATIVE ELECTUARIES. Aloetic compounds are usually made stiff enough to form into balls. See Physic Balls.

1. Oil of croton 20 drops, powdered senna 4 dr., honey q. s.—MOIROUD.

2. Sulphate of magnesia 4 oz., honey 16 oz., bran a quart; infuse the bran in sufficient hot water, and add the salt and honey; twice a day till the bowels are relaxed.—BOURGELAT.

3. Sulphate of soda or magnesia 5 oz., manna 4 oz., bran 1 quart; as the last.—MOIROUD.

DIURETIC ELECTUARIES. 1. Acetate of potash 2 oz., oxymel of squills 4 oz.; oatmeal or flour, to give a soft consistence.—MOIROUD.

2. Nitre 1 oz., camphor 2 dr. (rubbed with yolks of 2 eggs), oxymel 4 oz.; flour or liquorice powder, to give a suitable consistence.—MOIROUD.

DIAPHORETIC ELECTUARIES.

1. Sulphur 1 oz., powdered angelica $1\frac{1}{2}$ oz., honey 5 oz.—MOIROUD.

2. Prepared antimony $1\frac{1}{2}$ oz., elecampane 2 oz., treacle 4 oz.

3. Kermes mineral 1 oz., powdered sassafras and elecampane, each 2 dr., honey 6 oz.

VETERINARY POWDERS.

MR. B. CLARK'S PULVIS UTILIS, *as a vehicle for other powders.* Turmeric $\frac{1}{2}$ lb, oatmeal or sifted barley-meal 4 lb; mix.

AROMATIC POWDER, OR HORSE SPICE.

1. *WHITE'S Aromatic Powder.* Caraway 6 oz., pimento 4 oz., ginger 2 oz., liquorice 2 oz; mix; dose, 6 to 8 dr.

2. *Common Horse Spice.* Caraway, aniseed, coriander seeds, of each 16 oz.; turmeric 32 oz., cummin seeds, liquorice, and ginger, of each 8 oz.; mix.

3. This is inserted, not as a desirable form, but as a specimen of what is used in the trade. Cayenne 2 oz., bean flour 45 lb, mustard hulls 45 lb, cummin seed 15 lb, caraway 15 lb,

turmeric 9 lb, bay-berries 3 lb, ivory black 1 lb. GRAY'S SUPPLEMENT. The cordial powder of LEBAS contains 26 ingredients.

ABSORBENT POWDERS.

1. Carbonate of soda 2 to 4 dr., ginger 1 dr., calumbo 2 to 4 dr.—WHITE.

2. Prepared chalk 4 dr., gentian 2 to 4 dr., aromatic powder (above) 1 or 2 dr.

ALTERATIVE, DIURETIC, AND DIAPHORETIC POWDERS. For swelled legs, grease, foul humours, hide-bound, mange, surfeit, old coughs, and to render the skin fine. They are usually given with moistened corn. Too free use of these powders may prove injurious.

1. Sulphur 2 parts, black antimony 1, nitre 1; mix; dose, $\frac{1}{2}$ oz. to 1 oz.—V. C.

2. Sulphur 4 dr., levigated antimony 2 dr., nitre 3 dr., mix; in *hide-bound* and unthrifty coat, every night.—YOUATT.

3. Æthiops mineral $\frac{1}{2}$ oz., cream of tartar 1 oz.; mix; give every night, in a mash; *for grease*—BLAINE.

4. Sulphur 12 oz., antimony (black) 12 oz.; mix, and divide into 24 powders; *for mange*.—TAPLIN.

5. Nitre 16 oz., rosin 16 oz., prepared antimony 4 oz., flower of sulphur 24 oz.; mix; dose, 1 oz. every evening, with moistened corn, for 6 or 8 times.

6. Equal weights of antimony, nitre, and cream of tartar; dose, 6 to 9 dr.—BLAINE.

7. Nitre 6 oz., vermilion $\frac{1}{2}$ oz., resin 6 oz., tartarized antimony 2 dr.; for 12 doses.

8. Sulphur $\frac{1}{2}$ oz., prepared antimony 1 dr.; once a day, in the food, for 10 or 14 days.—CLATER.

9. TAPLIN'S *Alterative Powders*. Levigated antimony 8 oz., sulphur 8 oz., Æthiops mineral 4 oz., cream of tartar 4 oz.; in 12 doses.

10. Cream of tartar 2 dr., nitre 2 dr., sulphur 4 dr.; for one dose.—BLAINE.

11. Nitre 1 oz., rosin 1 oz., rust of iron 1 oz., emetic tartar 15 grains; dose, 1 oz.—LEBAS.

12. *In Farcy*. Prepared antimony 12 oz., sulphur 12 oz., cream of tartar 8 oz., cinnabar 6 oz.; mix, and divide into 20 doses; one every night, in corn.—TAPLIN.

CONDITION POWDERS. A want of condition is generally indicated by, and connected with, the unthrifty state of the

coat, which the above (alterative) powders are supposed to remedy. Sometimes warm and bitter tonics are added to those ingredients which promote the action of the skin and kidneys, to increase the appetite and promote nutrition; but the most scientific practitioners condemn these additions; and particularly when the animal is changing its coat.

1. Black antimony 4 oz., flowers of sulphur 2 oz., bean-flour or barley-meal $\frac{1}{2}$ lb; a tablespoonful with corn.—MR. B. CLARK.

2. Sulphur 2 lb, fenugrec 4 lb, cream of tartar 1 lb, liquorice 1 lb, nitre 1 lb, black antimony $\frac{1}{2}$ lb, gentian $\frac{1}{4}$ lb, aniseed $\frac{1}{4}$ lb, common salt 1 lb; dose, 1 oz. daily for 2 or 3 weeks.

3. Gentian 4 oz., liquorice 4 oz., fenugrec 16 oz., diapente 6 oz., nitre 4 oz., salt 4 oz.; to promote appetite.

DIAPENTE. This should be made with equal parts of myrrh, gentian, ivory-dust, bay-berries, and birthwort. But a worthless compound is commonly sold for it. The following is one of the least objectionable substitutes:—Equal parts of gentian, turmeric, bay-berries, and mustard. Another form in use is—Bay-berries $2\frac{1}{2}$ lb, guaiacum wood 2 lb, gentian 14 lb, bole 2 lb, bark which has been used for the tincture 2 lb.

Fever Powders. 1. Nitre 1 oz., camphor 2 dr., tartarized antimony 2 dr.—WHITE.

2. Nitre 6 dr., camphor 2 dr., calx of antimony $1\frac{1}{2}$ dr.—HINDS.

3. Nitre 1 oz., unwashed calx of antimony 2 dr., antimonial powder 3 dr., camphor 1 dr.—WHITE.

Pectoral Powder. Powder of gum tragacanth 6 oz., nitre 1 oz.; give a tablespoonful in their mashes or food, in coughs.

Purgative Powder. Epsom salt 8 oz., aloes 10 oz., aniseed 3 oz.; dose, 2 oz.—LEBAS.

Powder for the Gripes. Aloes, senna, ginger, cream of tartar, of each 1 lb; mix. This was formerly honoured with the title of Pulvis Sanctus.

Worm Powders. 1. Sulphur 12 parts, quicksilver 4 parts; triturate together till the mercury is extinct; then add male fern, rhubarb, tansy, gentian, of each 4 parts, wormwood, savin, aloes, castor seeds, of each 1 part; dose, $1\frac{1}{2}$ oz. to 2 oz.—LEBAS.

2. Fern root 4 parts, tansy 2, assafoetida and aloes, each 1 part; dose, as the last.—MOIROUD.

3. Sulphur 1 oz., emetic tartar 4 dr., common salt 8 oz., liver of antimony 1 oz.; mix; for 6 doses; one daily in wetted corn.—HINDS.

Mr. WHITE'S *Compound Arsenical Powder*. White arsenic 1 dr., cream of tartar 9 dr.; mix carefully; give 10 gr. 3 times a day.

MEDICATED PROVENDER. Bruised oats 4 lb, bruised bayberries 2 oz., common salt 1 oz.; mix. Nourishing and stimulant.—DELAFOSSÉ.

Liquid Medicines for Horses.

DRINKS, DRENCHES, MIXTURES, MASHES, ETC.

Drinks, properly speaking, are liquids which the horse will take willingly; *Drenches* are those liquid medicines which must be administered by a horn, bottle, or funnel. But this distinction is not always observed.

MILD DRINKS. Demulcent, pectoral, cooling, and diuretic.

Barley Water. Barley 1 lb, water 2 gallons; boil to 6 quarts, strain, and add 1 lb of honey. If common barley is used, it should be first boiled with a little water, and this thrown away. If pearled barley is used, this will be less necessary. In inflammatory and catarrhal complaints.

Oatmeal Gruel. 1. Mix gradually 4 oz. of sweet oatmeal with as much cold water as will form a smooth mixture. Put 2 quarts of water in a saucepan over a clear fire, and before it gets very hot, add in the mixture of oatmeal and water; stir the whole till it boils, and let it simmer a little while. Take care not to smoke it.

Compound Decoction of Linseed. Linseed 4 oz., liquorice root 4 oz., mallows 2 handfuls; boil in 6 quarts of water for half an hour. Let the horse drink it freely.—BLAINE.

Cooling and Refreshing Drink. Barley water, linseed tea, or blanche water, 8 quarts, simple oxymel 16 oz.—MOIROUD.

Cooling and Diuretic Drink. Dissolve 1 oz. of nitre in a pail of water.

Camphorated Diuretic Drink. Water 10 quarts, nitre 1 oz., camphor (rubbed with yolks of 2 or 3 eggs) $\frac{1}{2}$ oz.; mix, and let the animal drink when thirsty.—MOIROUD.

MASHES.

Bran Mash. Bran or pollard $\frac{1}{2}$ peck; put it in a bucket, and pour on it enough scalding water to wet it thoroughly; let it be well stirred with a stick, or worked with the hands, and let it stand, covered up, till new-milk warm. Emollient and slightly laxative. When intended to be nutritive, oats should be scalded with the bran.—B. CLARK.

Malt Mash. Upon a peck of ground malt pour a gallon and a half of boiling [better not quite boiling] water. Stir frequently, and give when new-milk warm. Nutritive, in diseases attended with great debility.—MARKHAM.

Linseed Mash. HIND'S *Cooling Decoction.* Linseed 2 quarts, coarse sugar 2 oz., boiling water 6 quarts; simmer for 3 or 4 hours.

DRENCHES.

DRENCHES FOR DIARRHŒA, DYSENTERY, AND DIABETES.

For Diarrhœa. 1. Restraining draught. Opium 1 dr., prepared chalk 1 oz., compound powder of tragacanth 1 oz., mint water 1 pint.—WHITE.

2. Prepared chalk 2 oz., gum Arabic $\frac{1}{2}$ oz., catechu 2 dr., thin starch $\frac{1}{2}$ pint.—BLAINE.

3. Prepared chalk 1 oz., catechu 2 dr., p. opium 1 dr., p.

ginger 1 dr.; rub together with contents of one egg, and add $\frac{1}{2}$ pint of thin gruel.—CLATER.

4. For purging from corrosive sublimate. Powdered opium 2 dr.; rub down with the yolk and white of one egg, add the contents of two more eggs, and gradually stir in $\frac{1}{2}$ pint of thin gruel.—CLATER.

For Dysentery or Molten Grease. 1. Castor oil 8 oz., ipecacuanha 1 dr., opium 20 gr., liquid arrow-root 8 oz. Repeat once or twice at intervals of 6 hours; then substitute boiled starch for the castor oil.—BLAINE.

2. Opium 2 dr., nux vomica $\frac{1}{2}$ dr., ipecacuanha 1 dr., red wine 1 quart; mix; morning and evening.

For Diabetes. 1. Opium 1 dr., ginger 2 dr., p. oak bark 1 oz., decoction of oak bark 1 pint.—WHITE.

2. Sulphuret of potash 2 dr., uva ursi 4 dr., oak bark 1 oz., catechu 2 dr., opium $\frac{1}{2}$ dr. In strong chamomile tea.—BLAINE.

3. Calomel 3 dr., cascarilla 2 dr., salt of steel $2\frac{1}{2}$ dr., salt tartar $1\frac{1}{2}$ dr., tincture of opium $\frac{1}{2}$ oz., strong beer q. s.—WHITE.

CARMINATIVE AND ANTISPASMODIC DRENCHES for spasmodic and flatulent colic, or gripes.

[N. B. As most of these drenches would be injurious in *inflammation of the bowels* (Enteritis), care should be taken to distinguish between these diseases. Inflammation is known by the quick but small pulse, redness of the inside of the eyelids, coldness of the ears and legs, and scanty and high-coloured urine. In colic, the attacks and remissions of pain alternate; in inflammation the pain and distress continue. In colic, the pain is relieved by friction and motion; in inflammation, it is increased. Colic is sudden in its attack; inflammation, more gradual in its approach.]

1. Brandy, rum, or gin from 4 to 6 oz., hot water 12 oz. Mr. CLARK directs a wineglassful of spirits to half a pint of warm water. A pint of ale is sometimes substituted.—WHITE.

2. Half a large bottle of Daffy's Elixir, with hot water.

3. Tincture of Pimento 4 oz., warm water half a pint.—B. CLARK.

4. Anodyne carminative tincture (WHITE's, see below) 2 to 4 oz., hot water half a pint.—WHITE.

5. *Antispasmodic Draught.* Spirit of nitric ether 2 oz., tincture of opium 1 oz., solution of aloes (see below) 4 oz.—V. C.



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2. Any of the Cordial balls may be dissolved in warm ale or water, or peppermint water, and given as a drench.

3. A bottle of wine, 1 oz. of extract of juniper-berries, and $\frac{1}{2}$ oz. of cinnamon in powder.—M. LEBAS.

4. Peppermint 2 oz., chamomiles $\frac{1}{2}$ oz.; infuse in $2\frac{1}{2}$ pints of water, and give it before it is cold; in slight colic and indigestion.

PECTORAL AND EMOLLIENT (or DEMULCENT) DRENCHES, for Coughs, Epidemics, Catarrh, &c. (For linseed tea, compound infusion of linseed, barley water, &c., see DRINKS, above.)

1. *Simple Emulsion*. Olive oil 2 oz., honey 3 oz., soft water 1 pint, subcarbonate of potash 2 dr.; mix.—WHITE.

2. Linseed tea 1 pint, honey 2 oz., syrup of poppies 2 oz., linseed oil 4 oz.

3. B. CLARK'S *Cough Drench*. Linseed oil 2 oz., liquor of potash 40 drops, treacle 1 oz., soft water 10 oz.; mix.

4. Powdered gum 2 oz., warm water a quart; dissolve and add honey 4 oz.—MOIROUD.

5. Marshmallow root 2 oz., water $2\frac{1}{2}$ or 3 pints; boil to a quart, and add 4 oz. of treacle.—MOIROUD.

6. Liquorice and marshmallow roots, of each 2 oz., water a quart; boil, strain, and add honey 4 oz.—LEBAS.

7. Marshmallow root 2 oz., poppy heads 4, water a quart; boil for 10 minutes, strain, and add to the liquor before quite cold, 4 oz. olive oil, 6 oz. of honey, and the yolks of 4 eggs, previously well beaten together.—MOIROUD.

8. Spermaceti $\frac{1}{2}$ oz., olive oil 3 oz.; melt together, and add of honey 4 oz., water (by little at a time) to make up a quart; repeat it twice a day.—LEBAS.

9. *Camphorated Emulsion*. Powder, with a few drops of spirit, 1 or 2 dr. of camphor, add 12 drops of oil of aniseed, and 12 oz. of simple emulsion.—WHITE.

10. In inflammation of the lungs, or catarrhal fever: Tartarized antimony 2 dr., digitalis $1\frac{1}{2}$ dr., nitre 3 dr., simple oxymel 4 oz., compound decoction of linseed 8 oz.—BLAINE.

11. The same, omitting the digitalis, and substituting 6 oz. of warm water for the dec. linseed, in influenza, when soreness of throat prevents swallowing balls.—BLAINE.

12. Oxymel of squills 2 oz., opium $\frac{1}{2}$ dr. to 1 dr., linseed oil 2 oz.; mix the opium with 8 oz. of water, and add the others; for one dose.—WHITE.

13. In epidemic (epizootic) catarrh : Spirit of nitrous ether 1 oz., Mindererus' spirit 6 oz., with linseed tea.—BLAINE.

14. Linseed tea 1 pint, syrup of poppies 2 oz., linseed oil 4 oz., honey 2 oz.

15. In inflammation of the lungs : Ipecacuanha 2 dr., laudanum 4 dr., powdered camphor 2 dr., Mindererus' spirit 4 oz., linseed tea $\frac{1}{2}$ pint.—BLAINE.

16. For chronic coughs : Tar-water $\frac{1}{2}$ pint, lime-water $\frac{1}{2}$ pint, powdered squill 1 dr. ; every morning.—BLAINE.

17. GIBSON'S *Drink for Catarrhal Epidemic*. Coltsfoot, hyssop, chamomile, of each a handful, linseed and garlic, each 1 oz., liquorice root sliced 1 oz., saffron $\frac{1}{2}$ oz. : infuse in 2 quarts of boiling water ; give half in the morning, the rest in the afternoon.

18. In pleurisy : Boil pearl barley, split figs, and raisins each 6 oz., and liquorice root 2 oz., in 4 quarts of water to 3 ; strain and add honey 1 lb, vinegar 1 pint ; give 1 oz. nitre in a pint of this decoction every 6 hours.—TAPLIN.

DIURETIC DRENCHES, for Dropsical Complaints, &c. The use of stimulating diuretics in retention of urine from inflammation of the neck of the bladder is dangerous.

1. MARKHAM'S *Dropsy Drench*. Decoction of wormwood in ale 2 quarts, soap 1 oz., grains of paradise 6 dr., long pepper 6 dr., treacle 3 oz. ; for one dose, fasting.

2. For dropsy of the belly : Castile soap 2 oz., strong beer 1 pint ; dissolve, and add cascarilla 2 dr., ginger 3 dr., oil of juniper 2 dr. (or balsam copaivi 1 oz.) ; mix ; for 1 dose.—WHITE.

3. White soap 1 oz., spirit of turpentine 1 oz., honey 4 oz., decoction of linseed 2 quarts ; for 2 doses.—MOIROUD.

4. Strained turpentine 2 oz., yolks of 6 eggs ; triturate together till incorporated, and add gradually 2 quarts of linseed tea ; for 2 doses.—MOIROUD.

5. White wine and water 4 quarts, nitre 3 oz., honey 4 oz. ; for 3 doses.—LEBAS.

6. Acetate of potash 2 or 3 oz., honey 6 oz., decoction of hemp or linseed 2 quarts ; for 1 dose.—MOIROUD.

7. Acetate of potash 2 oz., camphor (rubbed with yolks of 2 eggs) 2 dr., decoction of linseed 2 quarts ; for 2 doses, at an interval of some hours ; in irritation of the urinary passages, especially arising from cantharides or resinous irritants.—MOIROUD.

8. *Squill Drench.* Decoction of pellitory of the wall 1 quart, oxymel of squills 4 oz.—MOIROUD.

9. *Colchicum Drench.* Colchicum wine 2 oz., simple oxymel 4 oz., barley-water 1 quart.

10. Sweet spirit of nitre 4 oz., white wine 1 quart, water 2 quarts; for 3 doses; in dysuria not arising from mechanical obstruction or inflammation of the neck of the bladder.—LEBAS.

11. *Saline Diuretic Drink.* Glauber salt 2 oz., nitre 6 dr., warm water 1 pint, sweet spirit of nitre 1 dr.—CLARK.

DRENCHES FOR FARCY AND GLANDERS.

1. Expressed juice of cleavers 6 oz., strong decoction of hempseed 6 oz., essence of spruce 6 oz.; mix; give every evening; and a mercurial or arsenical ball in the morning.—BLAINE. See Farcy Balls.

2. *For Glanders.* Sulphate of copper 3 to 6 dr., gum Arabic 2 or 3 oz., dissolved in 2 or 3 pints of water.—SEWELL.

FEVER DRENCH.

Nitre 2 dr., tartar emetic $\frac{1}{2}$ dr., warm water or thin gruel 12 oz.; once or twice a day.—B. CLARK.

LAXATIVE AND PURGATIVE DRENCHES.

1. Castor oil 6 oz., linseed oil 8 oz., gruel q. s.—BLAINE.

2. Glauber's or Epsom salts 6 or 8 oz., whey or gruel 1 quart, castor oil 6 or 8 oz.—WHITE.

3. Barbadoes aloes 2 dr., tartarized antimony 1 dr., warm water 4 oz.; mix, and add castor oil 4 oz.—WHITE.

4. *Laxative Fèbrifuge in Influenza.* Linseed oil 12 oz., nitre 3 dr., camphor powdered 1 dr., sweet spirit of nitre 1 oz., warm water $\frac{1}{2}$ pint.—CLATER.

5. *Laxative Anodyne Drink.* In inflammation of the bowels: Linseed oil 1 pint, opium 2 scruples, sweet spirit of nitre 6 dr., warm water 4 oz.—CLATER.

6. Aloes 2 or 3 dr., salt tartar 1 dr., water or mint water $\frac{1}{2}$ pint; mix, and add castor oil 4 to 6 oz.—WHITE.

7. *A Cooling Purging Drink.* Infuse 2 oz. senna with 3 dr. salt of tartar in a pint (quart?) of boiling water for 2 hours; strain and add 4 oz. Glauber's salts, and 2 or 3 dr. of cream of tartar.—BARTLET.

STRONGER PURGATIVE DRINKS.

1. B. aloes 2 oz., gum Arabic 1 oz.; powder and mix them, and pour on them a pint of boiling water. Take 10 gr. of farina of croton, and add to it gradually 4 oz. of the above solu-

tion. Repeat this dose every 6 hours till it operates; in inflammation of the brain.—CLATER.

2. Aloes 1 oz., soap 2 dr., salt tartar 1 dr., water 1 pint, in apoplexy or staggers.—WHITE.

3. Infuse 1 oz. of senna in a quart of boiling water, strain, and add 1 oz. of aloes in powder.—BOURGELAT.

4. Aloes 1 oz., sulphate of magnesia 2 oz., aniseed powder $\frac{1}{2}$ oz., water a quart.—LEBAS.

5. Aloes 1 oz., syrup of buckthorn 4 oz., warm water a quart.—LEBAS.

DRENCHES FOR STOMACH STAGGERS, or Staggers from Indigestion.

1. After a ball of aloes and calomel, and glyster of salt water—Spirit of sal volatile $\frac{1}{2}$ oz., cascarilla powder 2 dr., warm water $\frac{1}{2}$ pint; twice a day; and the same without the cascarilla every hour.—WHITE.

2. Aloes 3 dr., pimento 2 dr., ginger 1 dr.; infuse in a quart of hot water, and when cool, add 2 oz. spirit of turpentine, and 1 oz. of spirit of hartshorn. Repeat in an hour if required.—BLAINE.

3. *Laxative Tonic Drinks.* Linseed oil 1 pint, powdered gentian 2 dr.; every 6 hours till the bowels are properly opened.—CLATER.

4. Common salt 4 oz., ginger 2 dr., magnesia 1 oz., warm water 1 quart.—WHITE.

5. Valerian 1 oz., serpentary $\frac{1}{2}$ oz., saffron 2 dr.; infuse in a pint of boiling water, and when nearly cool, strain off, and add 1 oz. tincture of assafoetida and 2 dr. of laudanum.—TAPLIN.

6. *After a purgative.* Volatile tincture of valerian 1 oz., powdered valerian $1\frac{1}{2}$ oz., peppermint water 8 oz.; mix, for a dose.—WHITE.

TONIC DRENCHES. Tonics are more generally administered in the form of balls.

1. *Mild Tonic in latter stage of epidemic catarrh or distemper.* Gentian 1 dr., powdered ginger $\frac{1}{2}$ dr., cascarilla 1 dr., warm water $\frac{1}{2}$ pint, sweet spirit of nitre $\frac{1}{2}$ oz. to 1 oz.; to be repeated night and morning, unless they quicken the pulse.—CLATER.

2. Gentian root 2 oz., smaller centaury 1 oz., wormwood $\frac{1}{2}$ oz.; boil in 3 pints of water to a quart.—M. VATEL.

3. CLARK'S *Bitter Drench.* Quassia chips 2 oz., water 3 pints; boil to 2 pints: for 3 doses.

4. Quassia 1 oz., ginger 2 dr., water 2 pints; boil for 10 minutes: for 2 doses.

5. *Metallic Tonic*. Sulphate of zinc $\frac{1}{2}$ dr., ginger or pimento 1 dr., treacle 1 oz.; mix, and add gradually 12 oz. warm water.—B. CLARK.

6. *Egyptian Tonic Drink*. In farcy and nasal gleet: Egyptianiacum $\frac{1}{2}$ oz., pimento or ginger $\frac{1}{2}$ dr., warm water 12 oz.—CLARK.

7. *Cantharides Tonic Drench* (for the same). Sulphate of zinc 15 gr., cantharides 7 gr., pimento 15 gr., treacle 1 oz., warm water to form a drench.

DEOBSTRUENT DRENCHES.

1. Guaiacum wood 2 oz., sassafras 1 oz., linseed $\frac{1}{2}$ oz., water q. s. to yield a quart of decoction; boil, strain, and add of corrosive sublimate 10 gr., sal ammoniac 2 dr.—LEBAS.

2. Iodide of potassium 40 gr., iodine 10 gr., water a quart.—MOIROUD.

3. Muriate of lime 2 oz., water a quart.—MOIROUD.

WORM DRENCHES.

1. Common salt 2 oz., infusion of wormwood a quart. Repeat it for some days.—MOIROUD.

2. A quart of linseed oil.—CLATER.

3. Oil of turpentine 4 oz., linseed or castor oil 8 oz., gruel a pint; preceded by a mild dose of aloes, and bran mashes.

4. Fern root 2 oz., valerian 1 oz., DIPPEL'S animal oil (emphyreumatic oil of hartshorn) 1 oz., yolks of 2 eggs, honey 2 oz.; boil the roots in 2 pints of water to half, incorporate the oil with the egg, and then the honey, and mix the whole with the decoction.—VATEL.

5. Animal oil 1 oz., yolks of 2 eggs, honey 1 oz., water or some bitter infusion a quart. CHABERT recommends infusion of savory as a vehicle for the oil.—LEBAS.

6. Soot (wood-soot?) in fine powder 2 oz., spirit of wine 2 oz.; mix, and add a quart of infusion of rue, or of tansy. Some practitioners prefer milk as a vehicle for worm medicines.—MOIROUD. For other worm remedies, see Worm Balls.

DRENCHES for the MALIGNANT EPIDEMIC, or DISTEMPER—Pestilential or Putrid Fever.

1. Gentian 1 dr., calumbo 2 dr., ginger 1 dr., laudanum $\frac{1}{2}$ oz., spirit nitrous ether $\frac{1}{2}$ oz., peppermint water 3 oz.—CLATER.

2. Gentian 2 oz., willow bark 6 oz., water 3 pints; boil to a quart, and add solution of acetate of ammonia 6 oz.—MOIROUD.

3. Dissolve $\frac{1}{2}$ dr. of chloride of lime in 8 oz. water, and add spirit nitric ether $\frac{1}{2}$ oz., laudanum $\frac{1}{2}$ oz., tincture calumbo 1 oz.; twice a day.—CLATER.

4. Bruised bark 3 oz., acetate of ammonia 4 oz., camphor 1 dr.; boil the bark in 2 quarts of water in a covered vessel for a quarter of an hour; strain, and when cool, add the camphor (rubbed with yolk of egg or honey), and the acetate of ammonia.—LEBAS.

5. Spirit of nitric ether 1 oz., Mindererus' spirit 4 oz., infusion of chamomile 6 oz., beer yeast 6 oz., tincture of opium 3 dr.—BLAINE. See also Antiseptic Drenches, (below.)

ANTISEPTIC DRENCHES, *to check Mortification.*

1. Peruvian bark 1 oz., ginger 2 dr., opium 1 dr., fresh beer q. s.—WHITE.

2. Opium 1 dr., carbonate of ammonia 1 dr., aromatic powder 2 dr., camphor $1\frac{1}{2}$ dr., good ale or porter a pint.

3. Chloride of lime or soda 2 to 3 dr., serpentary in powder 1 oz., fresh beer or sweet wort 1 quart.—WHITE.

DRENCH FOR POISONING BY YEW. Stronger purgative drink (No. 1) 4 oz., vinegar 4 oz., thick gruel 4 oz.; repeat it every 6 hours, *without the croton*, till purging is produced.—CLATER.

DRENCH FOR PREVENTING HYDROPHOBIA. Box leaves 8 oz., rue 8 oz.; cut them very fine and boil in 3 pints of milk, in a close vessel, for an hour, and strain; boil the ingredients another hour in 3 pints of water, and strain; mix the decoctions: give a third part every morning fasting.—BLAINE.

DRENCHES TO PROMOTE PARTURITION.

1. Ergot of rye in fine powder 2 or 3 dr., pennyroyal water, or infusion of rue 1 quart.

2. Saffron 6 dr., chamomiles 2 oz., boiling water a quart; make an infusion, to be given warm. 1 oz. of dried savin, with cassia, may be substituted for the saffron.—MOIROUD.

IODINE DRENCH. Iodide of potassium 2 scruples, iodine 12 gr.; triturate together, and add gradually a quart of water.—MOIROUD.

MISCELLANEOUS LIQUID MEDICINES. .

TINCTURES, SOLUTIONS, ETC.

Solution of Aloes. Aloes 1 part, water 7 parts, proof spirit 1 part; dissolve the aloes in water by means of a water-bath, and when removed, add the spirit.—V. C.

Anodyne Carminative Tincture. Opium 1 oz., cloves 2 oz., ginger 2 oz., old brandy (or rum, or gin) 1 quart; digest in a corked bottle, shaking daily. Last edition says 1 oz. of cloves and ginger.—WHITE.

Gripe Tincture. Tincture of Pimento. Ground pimento 1 lb, rectified spirit, and soft water, of each 3 pints; digest for some days and strain: give 4 fluid oz. at once, and repeat every hour till relieved.—Mr. B. CLARK.

Tincture of Foxglove. Digest 3 oz. of dried foxglove in a quart of any spirit.—YOUATT.

Infusion of Foxglove. Infuse 1 oz. of powdered foxglove in a quart of boiling water till cold.—YOUATT.

Tincture of Myrrh. Myrrh 2 oz., sand 2 oz., rectified spirit and soft water, of each $\frac{1}{2}$ pint.—B. CLARK.

Tincture of Aloes and Myrrh. Aloes 12 oz., myrrh 6 oz., rectified spirit 1 gallon, water $\frac{1}{2}$ gallon; digest 14 days, frequently shaking, and filter. For outward use, rectified wood naphtha may be substituted for the spirit.—V. C.

Tincture for Colic. Opium 1 dr., horseradish 2 oz., capsicum 1 oz., spirit of nitric ether 1 lb; macerate 14 days; dose 1 oz., with 2 oz. of spirit of nitric ether every 2 hours, as long as necessary.—GREGORY.

Tincture of Iodine. Iodine 1 part, rectified spirit 8 parts; dose 1 to 2 dr.—V. C. But the following is preferable:—

Compound Tincture of Iodine. Iodine 1 oz., iodide of potassium 2 oz., spirit of wine 12 oz.

Solution of Chloride of Lime. 1. Chloride of lime 1 dr., water 8 oz.; mix in a mortar, and filter.—CLATER.

2. Chloride of lime 1 part, water 10 parts.—CHEVALLIER.
Chloride of lime 1 part, water 48 parts.—LABARRAQUE. See LOTIONS, page 86.

FOR SOLUTIONS and TINCTURES *for outward use*, see EXTERNAL APPLICATIONS, further on.



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For Gripes. Mash 2 onions, pour over them 2 oz. of oil of turpentine and 4 quarts of thin gruel.—BLAINE.

Astringent. Alum whey 1 quart, thin starch a quart.

Vermifuge. 1. *For thread-worms.* Powdered aloes $\frac{1}{2}$ oz., powdered gum Arabic $\frac{1}{2}$ oz.; mix with half pint of boiling water; then mix the white of an egg with a quart of linseed oil, and gradually add the solution of aloes.—CLATER.

2. Infuse 4 oz. tansy in 2 quarts of water; strain, and add 2 oz. of animal oil (empyreumatic oil of hartshorn); also the worm drenches Nos. 4 and 6 may be used in this method.—MOIROUD.

Uterine Stimulants. 1. Infuse a handful of rue in 2 quarts of water, and add 2 oz. of common salt.

2. Savine 2 oz., sal ammoniac 4 dr. : as the last.

Diuretic. 1. Nitre 1 oz., decoction of linseed 3 pints.

2. *Camphorated.* Incorporate 4 dr. of camphor with the yolks of 2 eggs, and add it to the last.—MOIROUD.

For Irritable Bladder. 1. Belladonna leaves 3 oz., water 3 pints; boil and administer warm.—MOIROUD.

2. Extract belladonna $\frac{1}{2}$ oz., boiling water $1\frac{1}{2}$ pint.

Nourishing. 1. Thick gruel 3 quarts, ale 1 quart.—BLAINE.

2. Milk 2 quarts, yolks of 4 eggs; mix, and give warm.—BOURGELAT.

3. Strong broth 2 quarts, thickened milk 2 quarts.—BLAINE.

4. Tripe liquor or broth 3 quarts, flour 4 oz.; mix the flour in the hot broth: repeat frequently.—MOIROUD.

External Applications.

LINIMENTS AND EMBROCATIONS.

BLISTERING LINIMENTS, OR LIQUID BLISTERS AND SWEATING OILS.

1. Powdered Spanish flies 1 oz., spirit of wine 6 oz., water of ammonia 2 oz.; let it stand for a week, shaking it frequently, and strain. (See No. 11.)—WHITE.

2. Flies 1 oz., euphorbium $\frac{1}{2}$ oz., oil of turpentine 4 oz.; digest for 2 or 3 days, and pour off the liquid; digest the flies, &c., in 4 oz. of spirit of wine and 2 oz. of water of ammonia for 3 or 4 days, shaking frequently; strain off this liquid, and

mix it with the former. This is more active than the last.—
WHITE.

3. BLAINE'S *Liquid Blister*. Spanish flies, coarsely powdered, 8 oz., oil of turpentine 2 quarts; steep for 3 weeks, strain and add a quart of olive oil.

4. BLAINE'S *Milder or Sweating Liquid*. Mix 4 oz. of the last with 6 oz. of oil.

5. CLATER'S *Strong Liquid Blister*. Spirit of turpentine, coloured with alkanet, 1 gallon, powdered flies 1 lb; macerate for a month, shaking daily, then pour off the clear fluid for use.

6. *Common or Sweating Liquid*. Mix the last with equal parts of spermaceti oil.

7. Powdered flies 2 oz., spirit of turpentine a pint; digest for a few days.—YOUATT.

8. *Blistering Liniment for immediate use*. Spanish flies in fine powder 1 oz., oil of turpentine 6 oz. To be rubbed on the belly in inflammation of the bowels.—WHITE.

9. *Croton Liniment*. Mr. YOUATT says a tincture of croton nuts with oil of turpentine forms an active blister, but is not so safe as cantharides.

10. WHITE'S *Mustard Blister*. Best flour of mustard 8 oz., water enough to form a paste, oil of turpentine 2 oz., water of ammonia 1 oz.

11. *Blistering Tincture*. Flies 1 oz., proof spirit 8 oz.; macerate 2 or 3 weeks; mix and filter. To be rubbed in, and repeated next day if necessary.—WHITE.

12. Saturated tincture of cantharides 1 oz., bichloride of mercury 6 grains.—KENT.

13. Powdered cantharides 1 dr., olive oil 2 oz. To be applied every 48 hours for a week, in old spavin.—TAPLIN.

STIMULATING LINIMENTS.

1. Soft soap 4 oz., camphor 1 oz., proof spirit 2 pints, water of ammonia $\frac{1}{2}$ pint.—V. C.

2. Sweet oil 2 oz., spirit of hartshorn 1 oz., oil of turpentine $\frac{1}{2}$ oz.—WHITE.

3. Common oil 6 oz., liquid blister 2 or 3 oz.; in chronic sprains.—BLAINE.

4. *Soap Liniment*. Soft soap 4 oz., water 8 oz.; dissolve, and add 1 pint of rectified spirit, in which is dissolved 2 oz. camphor, 1 oz. oil of rosemary, and 2 to 4 oz. strong water of ammonia.—WHITE.

5. For splints: Oil of origanum 1 oz., spirit of wine $\frac{1}{2}$ oz.

LINIMENT FOR BOG SPAVIN. Mercurial ointment 2 oz., oil of cantharides 4 dr.—MORTON.

LINIMENT FOR SORE BACKS. Extract of lead $\frac{1}{2}$ oz., vinegar 1 oz., olive oil 2 oz.—WHITE.

LINIMENTS FOR ITCHING HUMOURS, MANGE, LICE, &c.

1. Equal parts of oil of tar, oil of turpentine, and seal oil. Apply every second day for 2 or 3 times, then wash.—V. C.

2. Sulphur 4 oz., turpentine 4 oz., oil of tar and train oil 6 or 8 oz. The parts to be first washed with soft soap and dried.

3. For lice: Sublimate 1 dr., muriatic acid 3 dr., tobacco water 2 pints, oil of turpentine 4 oz.—WHITE.

4. *Liniment for Mange.* Goulard's extract of lead 2 oz., olive or rape oil 2 oz., sulphur 1 oz.

LINIMENTS FOR CANKER OF THE FOOT AND BAD THRUSHES. See also CAUSTICS and LOTIONS.

1. Barbadoes tar 1 oz., oil of turpentine $1\frac{1}{2}$ oz.; mix carefully, and add oil of vitriol 1 dr.—WHITE.

2. Butter of antimony alone.

3. Crystallized verdigris in fine powder 1 oz., honey 2 oz., bole and yalum, of each $\frac{1}{2}$ oz., vinegar to form a liniment; to be

mixed over a gentle fire. Greasy applications are to be avoided.

—WHITE.

See also DETERGENT LINIMENTS.

DETERGENT LINIMENTS.

1. Oil of turpentine 1 oz., oil of vitriol 2 dr. by measure; mix in a large gallipot, and when cool, add 2 oz. of linseed oil.

—WHITE.

2. *Ægyptiacum*. Bruised sulphate of copper 12 oz., vinegar 4 lb, treacle 3 lb; place over a clear fire, and let it boil up.—

B. CLARK.

MISCELLANEOUS LINIMENTS AND MIXED OILS.

(See also EMBROCATIONS.)

Creasote Liniment. Creasote 2 oz., oil of turpentine 4 oz., olive oil 4 oz.; mix: in fistulous sores, unhealthy wounds, &c.—V. C.

Oil of Cantharides. Powdered flies 1 oz., olive oil 8 oz.; digest in a water-bath for 2 or 3 hours, and filter.—V. C.

Goulard Liniment. Extract of lead 1 oz., olive oil 4 oz.—MORTON.

Saturnine Balsam. Acetate of lead 1 oz., oil of turpentine 2 oz.; digest with a gentle heat.—MOIROUD.

Drying Liniment. Linseed oil and spirit of wine, of each equal parts.—SOLLEYSELL.

Marshmallow Liniment. Olive oil and marshmallow ointments, of each 4 oz.; melt the ointments, and add the oil.—BOURGELAT.

Emollient and Anodyne Liniment. Neatsfoot oil 4 oz., poplar ointment, marshmallow ointment, of each 2 oz.—MOIROUD.

Lime-water Liniment. Lime water 8 oz., olive or linseed oil 2 oz.

Narcotic Liniment. Olive oil 4 oz., laudanum 2 oz.—MOIROUD.

Liniment for Confirmed Grease. Verdigris, sugar of lead, of each $\frac{1}{4}$ oz., honey 1 oz.; mix.—CLATER.

Compound Iodine Liniment. Iodine 1 oz., soap liniment 8 oz.—V. C.

Turpentine Liniment. Equal parts of turpentine and olive oil.—V. C.

Resolvent Liniment. Olive oil 2 oz., strong mercurial ointment 2 dr., water of ammonia 2 dr.

Black Oils. Olive (or rape) oil 1 pint, oil of turpentine 2 oz.;

mix, and add 6 dr. of sulphuric acid; leave covered till cold.—

PERCIVALL.

Oils for Mange. Oil of turpentine 1 pint; add to it very gradually and cautiously 2 oz. of oil of vitriol, stirring the mixture constantly, then add a quart of linseed oil; from 4 to 8 oz. to be rubbed in with a brush every second day, for 3 or 4 times.

—CLATER.

WARD'S White Oils. Spirit of wine, oil of turpentine, rape-oil, beef brine, camphor, of each equal parts.

White Oils, or Egg Oils. 1. Yolks of 2 eggs, 3 oz. solution of ammonia, 1 oz. oil of origanum, 4 oz. oil of turpentine, a pint of vinegar; mix, s. a.—PHARMACEUTICAL JOURNAL.

2. Distilled vinegar $1\frac{1}{2}$ pint, oil of turpentine $1\frac{1}{2}$ dr., spirit of wine $1\frac{1}{2}$ oz., Goulard's extract of lead $\frac{1}{2}$ oz., whites and yolks of 2 eggs; mix the turpentine and Goulard with the eggs, gradually add the vinegar, and lastly the spirit.—REDWOOD'S GRAY'S SUPPLEMENT.

Liniment of Ammonia. This is sometimes termed *White Oils*.

Olive or rape oil 4 oz., water of ammonia 1 oz. Sometimes 1 oz. of oil of turpentine is added, to increase its activity.

Darby's Oils. Equal parts oil of amber, Barbadoes tar, and balsam of sulphur.

MARSHALL'S Oils. Linseed oil 1 lb, olive or rape oil 1 lb, green oil $\frac{1}{2}$ lb, oil of turpentine $\frac{1}{2}$ lb, oil of vitriol $1\frac{1}{2}$ dr.

Newmarket Oils. Linseed oil, oil of turpentine, green oil, of each 3 lb, oil of vitriol 1 oz.

Nine Oils. Train oil 23 lb, oil of turpentine 6 lb, oil of bricks 1 lb, oil of amber 1 lb, spirit of camphor 2 lb, Barbadoes tar 7 lb, oil of vitriol 2 oz.—GRAY'S SUPPLEMENT.

RADLEY'S Oils. Barbadoes tar 8 oz., linseed 4 oz., oil of turpentine 4 oz.

LORD STAMFORD'S Mixed Oils. Oil of origanum 6 oz., oil of turpentine 24 oz., spirit of wine 16 oz., green oil 6 lb, camphor 3 oz.

EMBROCATIONS, VARIOUS.

(See also LINIMENTS AND LOTIONS.)

Embrocations for Strains. 1. Soft soap 1 oz., spirit of wine 4 oz., oil of rosemary 2 dr., camphor 2 dr.

2. For strains in the shoulder: oil of turpentine 1 oz., camphorated spirit 2 oz.—BLACKER.

3. Equal quantities of soft soap, oil of turpentine, spirit of wine, and elder ointment.—WHITE.

4. Soft soap 2 oz., oil of bays 1 oz., water of ammonia $1\frac{1}{2}$ oz., oil of origanum $\frac{1}{2}$ oz.

5. Barbadoes tar 2 oz., spirit of turpentine 2 oz., opodeldoc 4 oz. After fomenting with hot vinegar and Goulard.—TAPLIN.
Mustard Embrocations. 1. Mustard flour 4 oz., water of ammonia $1\frac{1}{2}$ oz., oil of turpentine 1 oz., water enough to bring it to the consistence of cream.

2. Camphor 1 oz., oil of turpentine 2 oz., water of ammonia 2 oz., flour of mustard 8 oz., water to form a thin paste.—WHITE.

Embrocation for Poll Evil. Spirit of wine $\frac{1}{2}$ pint, camphor 2 dr., Goulard's extract of lead 1 dr.; mix.—HINDS. See DISCUTIENT LOTIONS.

Embrocations for Saddle Galls, or Warbles. 1. Goulard's extract of lead 2 dr., distilled vinegar 3 oz., spirit of wine 4 oz.—WHITE.

2. Soap liniment and Mindererus' spirit, equal parts.

3. Sal ammoniac $\frac{1}{2}$ oz., muriatic acid 2 dr., water 8 to 12 oz.

4. White vinegar 3 oz., spirit of wine 3 oz., sugar of lead 2 dr., water 6 oz.; mix.—HINDS.

CLARK'S *Embrocatio Frigorifera*. Vinegar 4 oz., camphor (dissolved in spirit) $\frac{1}{2}$ oz., water to fill up a wine bottle.

CLARK'S *Embrocatio Excitans*. Olive oil 3 oz., camphor $\frac{1}{2}$ dr., spirit of turpentine $\frac{1}{2}$ oz., water of ammonia 3 dr.

TAPLIN'S *Embrocation for Windgalls*. Oil of origanum, spirit of turpentine, of each, $\frac{1}{2}$ oz., camphorated spirit 1 oz. Applied with tow, and covered with a piece of lead bound on.

LOTIONS OR WASHES.

COOLING LOTIONS, for external inflammation.

1. Sal ammoniac 1 oz., nitre 2 oz., water 16 oz.—MORTON.

2. Goulard's extract of lead 1 oz., vinegar 2 oz., camphorated spirit 3 oz., water 18 oz.; for recent spavin.—TAPLIN.

3. V. C. *Goulard Water*. Goulard's extract 2 dr., spirit 2 dr., soft water 1 pint.

4. WHITE'S *Saturnine Lotion*. Sugar of lead 1 oz., vinegar and water 1 pint.

5. B. CLARK'S *Lotio Refrigerans*. Liquor of diacetate of lead 1 dr., spirit of nitric ether 1 dr., water 2 pints. In slight rubs and bruises.

DISCUTIENT LOTIONS, for dispersing indolent tumours and saddle-galls, and for chronic strains, &c.

1. Mindererus' spirit 4 oz., camphorated spirit 4 oz., water 16 oz.—PERCIVALL.

2. Sal ammoniac 1 oz., vinegar 8 oz., camphorated spirit 1 oz.—MORTON.

3. For saddle-galls and warbles: Goulard's extract 2 dr., distilled vinegar 3 oz., spirit of wine 4 oz.—WHITE.

4. Muriate of ammonia $\frac{1}{2}$ oz., muriatic acid 2 dr., water 8 to 12 oz.: for saddle-galls and wind-galls.—WHITE.

5. BLAINE'S *Saline Embrocation*. Sal ammoniac 8 oz., vinegar 3 pints.

6. Mindererus' spirit 2 oz., soap liniment 2 oz.—WHITE.

7. For warbles: White vinegar 3 oz., spirit of wine 3 oz., sugar of lead 2 dr., water 6 oz.—HINDS.

8. Strong solution of salt 1 oz., tincture of myrrh $\frac{1}{4}$ oz.: for saddle-galls.—YOUATT.

9. Common salt 4 oz., vinegar $\frac{1}{2}$ pint, cold water 1 quart, spirit of wine and laudanum, each 1 oz.: in incipient poll-evil.—CLATER.

10. White vinegar 1 pint, extract of lead 2 oz., camphorated spirit 4 oz., soft water 1 pint.—TAPLIN.

ASTRINGENT LOTIONS, for drying up sores, or diminishing their discharge (especially in grease and scratched heel), after the inflammation has been subdued by linseed or carrot poultices.

1. Alum 4 oz., boiling water 1 pint: for grease and cracked heel.—TAPLIN.

2. Alum 2 dr., sulphate of zinc 1 scruple, water 1 pint.—YOUATT.

3. Mild, for cracks: Sugar of lead 2 dr., sulphate of zinc 1 dr., infusion of oak-bark 1 pint.—BLAINE.

4. For confirmed grease: Nitric acid 1 oz., water 8 oz.—BLAINE.

5. Strong: Blue vitriol $\frac{1}{4}$ oz., alum 3 dr., water 1 pint.—SPOONER.

6. Sugar of lead 1 oz., blue vitriol 1 oz., water 1 quart.—WHITE.

7. Lime water 16 oz., spirit of camphor $\frac{1}{2}$ oz., sugar of lead 1 dr.—BOURGELAT.

8. Sulphate of iron 2 oz., alum 2 oz., vinegar 8 oz., water $3\frac{1}{2}$ pints.—MOIROUD.



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Lotion of Nitrate of Silver. For the same: Nitrate of silver 10 gr., distilled water 1 oz.—YOUATT.

Lotion for Farcy, Dissolve 1 oz. of sulphate of iron in a quart of water, and add $\frac{1}{2}$ oz. of oil of vitriol.—CLATER.

Styptic Lotion, for stopping bleeding. Alum 2 oz., sulphate of zinc 2 dr., water 1 quart.

Catechu Lotion for ulcers of the mouth. Infuse 2 oz. of catechu in a quart of boiling water for an hour; strain, and add 1 oz. of spirit of wine. (For saddle-galls, add 8 oz. of tincture of catechu, and 8 oz. common salt.)—CLATER.

Lotion of Chloride of Lime. Chloride of lime 1 lb, add gradually 1 gallon of water; mix, and filter or decant: for mange, and as a stimulant to unhealthy wounds and fistulous sores. Diluted with 10 or 15 parts of water, it is used as a lotion for grease, exfoliated bones, &c., and as a disinfectant for foul stables. For ulcers of the tongue, mix 1 dr. of chloride of lime with a pint of water: for mange, 4 dr. to a pint.

Wash for destroying lice about the legs. Corrosive sublimate 1 dr., muriatic acid 3 dr., tobacco water 1 quart, oil of turpentine 4 oz.—WHITE.

LOUSE WATER.

1. Tobacco 4 oz., boiling water a quart: infuse for 24 hours.—CLARK.

2. *Mercurial.* Sublimate 2 dr., spirit of wine 2 oz., water 1 quart.

LIQUID CAUSTICS, for canker and thrush, for foul, unhealthy wounds, to remove proud flesh, &c. See also **LINIMENTS** (Detergent).

MILDER CAUSTICS.

1. Tincture of muriate of iron.

2. Sulphate of copper 1 oz., water from 4 oz. (V. C.) to a pint.—CLATER.

3. Saturated solution of sulphate of zinc: in quittors.—WHITE.

4. Alum $\frac{1}{2}$ oz., borax $\frac{1}{2}$ oz., boiling water 4 oz., styptic tincture 1 oz.—TAPLIN.

5. Muriatic acid, alone or diluted.

6. *Ægyptiacum* 2 oz., nitrous acid 20 drops.

7. Any of the stronger caustics (except butter of antimony) diluted with water.

8. Goulard's extract 4 oz., sulphate of zinc 2 oz., sulphate of copper 2 oz., white vinegar 32 oz.—VILLATE.

9. Aloes 5 oz., weak spirit 10 oz.; dissolve, and add 6 oz. of sulphuric acid.—DUVILLE.

STRONGER CAUSTICS.

1. Butter of antimony. This is the most safe and useful caustic in canker.

2. Dissolve 1 oz. of quicksilver, by heat, in 2 oz. of nitric acid, and evaporate till the liquid weighs $2\frac{1}{4}$ oz.

3. Verdigris 1 oz., nitrous (red nitric) acid 1 oz.; dissolve.—WHITE.

4. Red precipitate 1 oz., nitrous acid 2 oz.—WHITE.

5. Nitrous acid, alone or with a little water.

6. Sulphuric acid, alone or with a little water.

7. Sublimate 1 dr., muriatic acid 2 dr., water q. s.—WHITE.

8. Chloride of zinc with enough water to dissolve it; or SIR WM. BURNETT'S PATENT SOLUTION.

CAUSTICS FOR POLL-EVIL.

1. Lunar caustic 1 dr., distilled water $\frac{1}{2}$ oz.—BLAINE.

2. Corrosive sublimate 2 dr., water 3 oz.

Scalding Mixture for Poll Evil. 1. Sublimate 2 dr., verdigris 2 dr., blue vitriol 2 dr., sulphate of iron 4 dr., honey 2 oz., oil of turpentine 8 oz., spirit of wine 4 oz.; to be applied hot, and confined by stitches.—GIBSON.

3. Sublimate 1 dr., finely powdered and mixed with 4 oz. of basilicon, and melted to scalding heat.—BLAINE.

4. Caustic potash 1 dr., rubbed down with 4 oz. oil of turpentine.—BLAINE.

CAUSTIC FOR FARCY BUDS. Sublimate 1 dr., muriatic acid 3 dr., spirit of wine 1 oz., water $\frac{1}{2}$ oz.—WHITE.

FOMENTATIONS.

These should be applied moderately warm (about 120°), by means of flannel dipped in the liquid, and frequently renewed from time to time; keeping the parts covered.

Emollient. 1. Coarse bran 2 double handfuls, water 6 quarts; boil and strain.

2. Marrow-leaves 8 oz., water 4 quarts; boil and strain; 6 poppy-heads may be added.

Anodyne. 1. Boil 24 poppy-heads and 2 handfuls of hemlock in 6 quarts of water for 2 hours, and strain.—WHITE.

2. Belladonna 2 handfuls, 6 poppy-heads, water 3 quarts; boil and strain.—MOIROUD.

3. Dried wormwood, and chamomile, of each 4 oz., bay-leaves 2 oz., rue 3 oz.; boil in a gallon of water.

4. Take wormwood, chamomile, mallow, (or either of them,)

cut them to pieces, and put 2 handfuls into a bucket, pour scalding water on them, and cover with a cloth.—B. CLARK.

Discussient and Astringent. Vinegar or verjuice 1 quart; make it hot, and add 2 oz. of Goulard's extract of lead; apply warm, in strains of the sinews of the legs.—TAPLIN.

COLLYRIA, OR EYE-WATERS.

1. Lapis mirabilis $\frac{1}{2}$ oz., water 4 to 8 oz. The *Lapis mirabilis* is thus made—White vitriol 2 lb, rock alum 3 lb, fine bole $\frac{1}{2}$ lb, litharge 2 oz., water 3 quarts; boil together to dryness.—SOLLEYSSELL.

2. Sugar of lead 10 to 20 gr., water 8 oz.—MORTON.

3. Extract of lead 1 dr., spirit 2 dr., water 8 oz.—WHITE.

4. Acetate of ammonia 3 oz. rose-water 6 oz.—BLAINE.

5. Sugar of lead 2 dr., vinegar $\frac{1}{2}$ oz., soft water 16 oz., rose-water 4 oz.—BLAINE.

6. Infuse 1 oz. of foxglove in 2 pints of boiling water, and strain.—YOUATT.

7. Tincture of opium 2 dr., water 8 oz., extract of lead 1 dr.—WHITE.

8. Brandy 1 oz., vinegar 1 oz., tincture of opium 2 dr., rose-water 8 oz.—BLAINE.

9. Extract of henbane 1 dr., water 8 oz.—WHITE.

10. Decoction of poppies 8 oz., saffron $\frac{1}{2}$ dr.; infuse the saffron in the hot decoction.—LEBAS.

11. Lapis divinus 3 dr., soft water $\frac{1}{2}$ pint.—CLATER.

12. Common salt $\frac{1}{2}$ dr., water 6 oz.—YOUATT.

13. *For Watery Bloodshot Eyes.* Burnt alum 1 oz., calcined white vitriol 1 oz., boiling water 3 pints.—BRACKEN.

14. *Emollient.* Infusion of marshmallow leaves or flowers 1 quart, starch (rubbed smooth with a little water) $\frac{1}{2}$ oz.; mix, and boil. To be used warm.—MOIROUD.

15. *Astringent.* Alum 2 dr., whites of 2 eggs, water $\frac{1}{4}$ pint; mix in a mortar.—BOURGELAT.

16. Tincture of digitalis $\frac{1}{2}$ oz., soft water 8 oz.—CLATER.

17. *To remove Opacity of the Cornea.* Nitrate of silver 10 gr., distilled water 1 oz. 1 or 2 drops to be dropped in the eye.—Mr. YOUATT.

18. *For Cloudiness of the Eye.* Sublimate 4 gr., spirit of wine 20 drops; rub together, and add soft water 4 oz. A few drops to be introduced into the eye 3 or 4 times a day.—CLATER.

19. Tincture of aloes 1 oz., rose-water 8 oz.—LEBAS.

20. *Stimulating.* Infusion of elder flowers 16 oz., brandy 2 oz.—MOIROUD.

SUNDRY SOLUTIONS, ETC.

Styptic Stone. Sulphate of iron 8 oz.; sal ammoniac, sulphate of zinc, and oxide of copper, each 1 oz.; mix, and melt together with a gentle heat. About the size of a nut of this compound to be dissolved in a quart of warm water, and applied with compresses renewed every 3 or 4 hours: for saddle-galls, kicks, sprains, bruises, ulcers, and as a collyrium.—KNAUP.

Lapis Divinus. Sulphate of copper, alum, nitre, of each 3 oz.; melt together, and stir in 1 dr. of camphor: used in eye-waters and lotions.

Wound Stone. Alum, sulphate of zinc, of each 3 oz., verdigris and sal ammoniac, of each 1 dr.; melt together, and add $\frac{1}{2}$ dr. of powdered saffron: detergent and drying.

Clark's Conglutinum. Sulphate of zinc 4 oz., water a pint.

Solution of Sulphate of Zinc. Sulphate of zinc 1 oz., water 3 oz.—V. C.

Solution of Sulphate of Copper. Sulphate of copper 1 oz., water 4 oz.—V. C.

Compound Solution of the same. Sulphate of copper 3 oz., alum 3 oz., water 2 lb, sulphuric acid $1\frac{1}{2}$ oz.

Solution of Bichloride of Mercury. Sublimate, sal ammoniac, each 1 part, spirit, or water, 7 parts.—MORTON.

Goulard Water. Extract of lead 1 oz., camphorated spirit 2 oz., rain-water a quart.—TAPLIN.

Tincture of Euphorbium. Euphorbium 1 oz., rectified spirit 6 oz.

Alkaline Tincture of Euphorbium. Euphorbium 8 oz., solution of subcarbonate of potash 3 pints: used as caustics and stimulants, particularly in curbs after the inflammation has been subdued.

Compound Tincture of Cantharides. Powdered flies 4, euphorbium 1, proof spirit 24.—LEBAS.

Styptic Tincture. Tincture of myrrh, spirit of camphor, and Friar's balsam, equal parts.—TAPLIN.

Ægyptiacum. (Veterinary.) Sulphate of copper in powder 12 oz., vinegar 4 oz., treacle 48 oz.; boil together to a proper consistence.—B. CLARK.

Ægyptiacum with Turpentine. Honey 28 oz., pyroligneous acid 14 oz., powdered verdigris 10 oz.; boil together in a copper vessel till the mixture has a reddish purple colour and the consistence of thin honey; add Venice turpentine 28 oz., and keep it on a slow fire, stirring constantly for a quarter of an hour.—LELOUP.

POULTICES OR CATAPLASMS.

These are useful in reducing inflammation and relieving pain. They should not be used too hot, nor applied too tightly, especially to the feet.

COMMON POULTICES.

1. Bran moistened with hot water, and as much linseed-meal added as will give it tenacity.—V. C.

2. Boil a quart of bran for 10 minutes with enough water to make a thin mash; then add to it 4 oz. of linseed meal: apply it in a flannel bag.—BLAINE.

3. Fine bran 3 parts, linseed meal 1 part, hot water q. s.

CHARCOAL POULTICES.

1. Oatmeal $\frac{1}{2}$ pint, linseed meal $\frac{1}{2}$ pint, charcoal 4 oz., beer grounds q. s.

2. Carrots scraped, or carrots boiled, with charcoal powder q. s. *Antiseptic*.—BLAINE.

YEAST POULTICES.

1. Linseed meal, oatmeal, boiling water q. s.; mix, and ferment with a table spoonful of yeast: in old grease with an offensive smell.—BLAINE.

2. In Gangrene: Add 2 oz. of turpentine to the last.—BLAINE.

ANODYNE POULTICES.

1. Boil poppy-heads in water, strain, and add linseed meal to stiffen it.—YOUATT.

2. Sprinkle the surface of a simple poultice with laudanum.

CLEANSING POULTICES. Mashed turnips, not pressed, with enough linseed meal, or oatmeal, to give it consistence; or, the charcoal poultice above.

DRAWING POULTICES.

1. Boil 2 lb of chopped onions in water, and add to it the crumb of a 4-lb loaf.—HINDS.

2. Sorrel boiled and squeezed 4 parts, onions baked in ashes 1 part, basilicon ointment 1 part; mix, and apply warm.—M. VATEL.

RESOLVENT POULTICES.

1. Rye meal 8 oz., prepared chalk 2 oz., vinegar 10 oz.; mix, warm, and stir till no more gas is disengaged: apply cold.—SOLLEYSELL.

2. Linseed meal 12 oz., powdered hemlock 4 oz., muriate of

ammonia 4 oz., vinegar q. s.: to indolent glandular tumours.—
LEBAS.

GOULARD POULTICES.

1. To a linseed meal poultice add 1 or 2 dr. of Goulard's extract of lead.—YOUATT.

2. Bread and barley meal equal parts, Goulard water q. s., lard 4 or 6 oz.—TAPLIN.

CHLORINE POULTICE. Chloride of lime $\frac{1}{2}$ oz., water 1 pint, linseed meal q. s.: to grease, when offensive.—YOUATT.

POULTICES FOR GREASE.

1. The herb cleavers (or goose-grass) beaten to a paste.

2. Mash bread and boiled turnips with stale beer, and stir in 1 oz. flour of mustard, turpentine 2 oz., linseed meal 2 oz., lard 6 oz.; night and morning.—TAPLIN.

MUSTARD POULTICE.

1. Mustard flour and linseed meal, equal parts, mix with sufficient hot vinegar to give a proper consistence.

2. Flour of black mustard 3 lb, hot vinegar, or water, q. s.—
MOIROUD.

RUBEFACIENT POULTICE.

1. Fresh horseradish root, grated, and immediately applied.—
MOIROUD.

2. *Stronger.* Old yeast 2 lb, flour of black mustard 1 lb, euphorbium powder 4 oz., vinegar q. s.; mix, and apply cold.

OINTMENTS, CERATES, CHARGES, ETC.

SIMPLE EMOLLIENT OINTMENTS.

1. *Simple Cerate.* Olive oil a pint, bees-wax 4 oz.

2. *Spermaceti Ointment.* Lard 12 oz., white wax 2 oz., spermaceti 1 oz.

BLISTERING OINTMENTS. The Spanish flies should be finely powdered, and the heat moderate.

1. Lard 4 oz., common turpentine 1 oz., p. flies 1 oz.; melt the lard and turpentine, and stir in the powdered flies.—V. C. Mr. YOUATT substitutes resin for the turpentine.

2. Venice turpentine and rosin, of each 1 lb, palm oil or lard 2 lb; melt together, and gradually stir in 1 lb of powdered flies.—BLAINE.

3. Palm oil 4 lb, resin 1 lb; melt together, and stir in 1 lb of powdered flies.—CLATER.

4. *Mild.* Lard 4 oz., Venice turpentine 1 oz., p. flies 6 dr.—
WHITE.

5. *Stronger.* Mercurial ointment 2 oz., oil of bays 2 oz., Barbadoes tar 1 oz., oil of rosemary, 2 dr., p. flies 1 oz.—WHITE.

6. *Strong.* Oil of turpentine 1 oz., oil of vitriol 2 fluid dr.; mix in a basin, and add melted lard 6 oz., oil of origanum 1 oz., powdered flies 1 to 2 oz.—WHITE.

7. *Strongest.* Strong mercurial ointment 4 oz., oil of origanum $\frac{1}{2}$ oz., finely powdered euphorbium 3 dr., p. flies $\frac{1}{2}$ oz.—WHITE.

8. *BLAINE'S Mercurial.* Common blister (No. 2, above) 4 oz., sublimate in fine powder $\frac{1}{2}$ dr.: for plints, spavins, &c.

9. *For common purposes.* Lard 6 oz., Venice turpentine 4 oz., bees'-wax 2 oz., yellow resin 1 oz. oil of origanum $\frac{1}{2}$ oz., powdered cantharides 3 oz. It may be softened in winter by rubbing it with a little turpentine.—WHITE.

10. Powdered flies 5 dr., lard 4 oz., oil of turpentine 1 oz.—
HINDS.

11. *Mustard Blister.* Best flour of mustard 8 oz., water to form a paste.—Mr. YOUATT. Others add 2 oz. of oil of turpentine, and 1 oz. pure water of ammonia.

Note.—The hair should be clipped closely, or shaved off, and the blistering ointment well rubbed in. In inflammation of the lungs, &c., blistering is more successful after bleeding. In 24 hours a little olive or neatsfoot oil should be applied, and repeated night and morning. The head should be tied up for the first 2 days, and the litter removed from the stable. If strangury is produced give plenty of linseed tea. The simplest blisters are perhaps the best for common purposes. Sublimate blemishes. *Sweating down* is effected by milder stimulants; for this purpose, the liquid blister (see p. 75) is lowered by some mild oil, &c.

DETERGENT OINTMENTS, for cleansing foul and indolent ulcers.

1. Suet 4 oz., Venice turpentine 6 oz., red precipitate, finely powdered 2 oz.—WHITE.

2. Citrine ointment, alone or with $\frac{1}{4}$ lb of Venice turpentine.

3. Sulphate of zinc 1 dr., sulphate of copper 1 dr., oil of turpentine 2 dr.; grind smooth, and mix it with 4 oz. of melted tallow. See also DIGESTIVE OINTMENTS, No. 4.

4. Yellow basilicon 2 oz., black basilicon 1 oz.; melt together, remove from the fire, and add 1 oz. of turpentine, $\frac{1}{2}$ oz. finely powdered red precipitate.—TAPLIN.



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are here placed first) should be employed in the first instance, and afterwards those for confirmed grease.

1. For scurfy heels: Goulard's extract $\frac{1}{2}$ dr., lard 1 oz.; mix. The heel should first be gently rubbed with soap and water.—CLATER.

2. For scurfy or cracked heels: Sugar of lead $\frac{1}{4}$ oz., oxide of zinc $\frac{1}{4}$ oz.; lard or palm oil 4 oz.

3. Melt together 3 oz. white diachylon, 4 oz. olive oil; mix, and when nearly cold, add 3 dr. of sugar of lead in fine powder. First wash the heel, then apply the Astringent Lotion No. 9, and afterwards this ointment; or, elder ointment 4 oz., camphor 6 dr., laudanum 2 dr., extract of lead 2 dr.; mix.—TAPLIN.

4. Healing ointment for cracked heel: Lard 4 lb, resin 1 lb; melt together, and stir in 1 lb true calamine.—CLATER. See also SOFTENING and COOLING OINTMENTS, below.

5. For cracked heels and grease: Alum 1 oz., turpentine 1 oz., lard 3 oz.—V. C.

6. For grease: Venice turpentine 4 oz., wax 1 oz., lard 4 oz.; melt together, and add sugar of lead 1 oz. (or alum 2 oz.) in fine powder.—WHITE.

7. Lard, honey, common turpentine, each 8 oz.; melt together, and add powdered alum 6 oz., white vitriol 2 oz.

8. Common turpentine 1 lb; melt, and add powdered alum $1\frac{1}{2}$ lb, bole 2 lb; stir till cold; spread on brown paper, and tie over with list.

9. Lard $\frac{1}{2}$ lb, honey $\frac{1}{2}$ lb, common turpentine $\frac{1}{2}$ lb; melt, and add p. alum 1 lb, white vitriol 2 oz.; stir till cold.

10. For confirmed grease: Common verdigris $\frac{1}{2}$ oz., alum, sulphate of zinc, sugar of lead, of each $\frac{1}{2}$ oz.; tar 6 oz.—BLAINE.

11. Citrine ointment 3 oz., lard 2 oz., turpentine 2 dr., saturated solution of nitrate of copper 2 dr.—BLAINE.

12. Ægyptiacum 8 oz.; lard 4 oz., sulphate of zinc in powder 1 oz.; rub together till perfectly mixed.—LASSAIGNE.

13. Prepared verdigris 1 oz., lard 4 oz., honey a sufficient quantity.—DELAFOSSÉ.

OINTMENTS TO PROMOTE THE GROWTH OF THE HAIR, and remove the blemish from broken knees.

1. Camphor $\frac{1}{2}$ dr., oil of rosemary 1 dr., weak mercurial ointment 1 oz., ivory black and bole to colour.—WHITE.

2. Poplar-bud ointment and honey, applied twice a day for 15 or 20 days.—PYE.

3. Calamine 2 dr., prepared charcoal 1 dr., oil of turpentine 1 dr., lard 4 dr.; rub well together with 1 dr. of blister ointment.—CLATER.

4. Liquid blister (No. 3, 6, or 7) 1 dr., ivory black 1 dr., camphor 1 dr., palm oil 1 oz.

5. Citrine ointment 1 oz., camphor 1 dr., colour as above.

HELLEBORE OINTMENT. Powdered white hellebore 1 part, lard 8 parts: an irritating dressing for rowels and setons.—V. C.

HOOF OINTMENT. Tar and tallow equal parts, melted together.—WHITE.

IODINE OINTMENT, Compound. Iodine 1 dr., iodide of potassium 2 dr., lard 2 oz.—V. C.

IODIDE OF MERCURY OINTMENT. Red iodide of mercury 1 part, lard or palm oil 7 parts; mix; the size of a nut to be rubbed on daily: in thoroughpin.

OINTMENTS FOR MANGE AND LICE.

1. Sulphur 4 oz., soft soap 4 oz., oil of bays 4 oz., train oil q. s.

2. Sulphur 1 oz., train oil 1 oz., Venice turpentine, 2 oz.—YOUATT.

3. Train oil 3 oz., sulphur 1 oz., oil of turpentine 6 oz.—WHITE.

4. Sulphur 8 oz., common turpentine 2 oz., strong mercurial ointment 2 oz., linseed oil 1 pint; rub the flowers of sulphur with a fourth part of the oil, then rub in the turpentine and ointment, and gradually add the rest of the oil; half to be rubbed in daily for 3 days; on the sixth day, wash off with soft soap and warm water.—CLATER.

5. Oil of turpentine 3 oz., oil of vitriol 1 oz.; mix cautiously, avoiding the fumes, and add melted lard 8 oz., train oil 4 oz., oil of turpentine 2 oz., flowers of sulphur, or sulphur vivum 4 oz.; stir till cold; apply daily for 3 or 4 times, and give an alterative powder twice a day.—WHITE.

6. Oil of bays 16 oz., strong mercurial ointment 6 oz., oil of turpentine 2 oz., soft soap 4 oz.; mix, and apply in the sun; but it is not quite safe.—BRACKEN.

7. Oil of turpentine 4 oz., oil of tar 4 oz., train oil 8 oz., sulphur 4 oz.

8. Sulphur vivum 8 oz., powdered stavesacre 1 oz., mercu-

rial ointment 2 oz., turpentine 2 oz., lard or train oil 8 oz.—
BLAINE.

9. Soft soap and tar, equal parts.

10. Weak mercurial ointment $\frac{1}{2}$ lb, sulphur vivum 4 oz., white hellebore 3 oz., black pepper 1 oz., oil of tartar 1 oz., olive oil enough to make it soft; daily for 7, 10, or 14 days.—
TAPLIN.

OINTMENTS FOR MALLENDERS AND SALLENDERS. (Scurfy eruptions.)

1. Citrine ointment 2 oz., tar ointment 1 oz.; mix.

2. Lard 2 oz., finely powdered red precipitate 2 dr.—WHITE.

3. Sugar of lead 1 part, tar 2, lard 6; mix; give a diuretic ball occasionally.—YOUATT.

4. Lard 4 oz.; melt, and stir in Goulard's extract 1 oz.—
WHITE.

5. Quicksilver 1 oz., common turpentine 3 oz.; mix.—
BRACKEN.

6. Sublimate 10 gr., mercurial ointment 1 oz.; mix.

7. Iodide of potassium 1 dr., lard 2 oz., Goulard's extract 4 dr.; mix.

8. Camphor 1 dr., sugar of lead $\frac{1}{2}$ dr., mercurial ointment 1 oz.; mix, and apply after washing with soap and water.—
BLAINE.

9. Naphthaline 1 dr., cod-liver oil 1 oz., zinc ointment 1 oz.

MARSHMALLOW OINTMENT. The following is often substituted for the pharmacopœian preparation: Rape oil 1 lb, yellow wax 6 oz., palm oil $\frac{1}{2}$ lb, common turpentine 1 oz.

MERCURIAL OINTMENT. This is prepared in the usual way; but Venice turpentine is often used to kill the quicksilver more speedily, as it does not interfere with its veterinary uses.

Strong Mercurial Ointment. Quicksilver 16 oz., Venice turpentine 2 oz.; rub together till the metal is killed, then add 16 oz. of lard.

Weaker Mercurial Ointment. Strong mercurial ointment 1 part, lard 2 parts.

2. Quicksilver 2 oz., balsam of sulphur $\frac{1}{2}$ oz.; rub together till the globules disappear, and add 6 oz. of lard.—TAPLIN.

Compound Mercurial Ointment. Mercurial ointment 1 part, soft soap 2 parts.—V. C.

RESOLVENT OINTMENTS, for indolent tumours of the withers, spavins, wind-galls, farcy buttons, splints, &c.

1. Strong mercurial ointment 4 oz., cantharides in powder $\frac{1}{2}$ oz., oil of rosemary 2 dr.—WHITE.

2. Biniodide of mercury 1 part, lard or palm oil 7 parts; rub together in a mortar; the quantity of a nut to be rubbed on daily till a scurf is produced: for spavin and thoroughpin.—SPOONER.

3. Blister ointment 2 oz., strong mercurial ointment 1 oz., soft soap $\frac{1}{2}$ oz., oil of bays 3 dr., yellow wax 3 dr.; melt the wax by a gentle heat, add the other ingredients, mix by stirring, remove, and stir till cold.—LEBAS.

4. Common turpentine 12 parts, corrosive sublimate 1 part; mix.—GIRARD.

OINTMENT OF NITRATE OF SILVER. Nitrate of silver 5 to 10 gr., lard 1 oz.—MORTON.

SOFTENING AND COOLING OINTMENTS, for cracks and ulcers on the heel, &c.

1. Spermaceti ointment 4 oz., olive oil 1 oz., sugar of lead 2 dr., oxide of zinc 1 oz.—WHITE.

2. Extract of lead $\frac{1}{2}$ dr., lard 1 oz.; mix.—CLATER.

3. Marshmallow ointment 4 oz., extract of lead 3 dr., elder ointment $\frac{1}{2}$ oz., calamine 1 oz.

OINTMENTS FOR SIT-FASTS, and all hard tumours. Strained ammoniacum 4 oz., mercurial ointment 8 oz., oil of turpentine 10 oz.—HINDS.

OINTMENTS FOR SORE BACKS AND SADDLE-GALLS. (See LOTIONS.)

1. Camphor 2 dr., oil of rosemary 1 dr., elder ointment or lard 3 oz.

2. Marshmallow ointment 4 oz., extract of lead 1 oz.—WHITE.

SULPHURIC ACID OINTMENT.

1. Sulphuric acid 1 dr., lard 1 oz.; mix.

2. Sulphuric acid 1 fluid oz., lard 8 oz., oil of turpentine 1 oz.

OINTMENTS FOR SPAVINS AND WIND-GALLS. See RESOLVENT OINTMENTS, above.

TAR OINTMENT. Equal parts of tallow and tar melted together.

OINTMENTS FOR THRUSH AND CANKER.

1. Common verdigris $\frac{1}{2}$ oz., calamine $\frac{1}{2}$ oz., sulphate of zinc 1 dr., tar 3 oz.—BLAINE.

2. Blue vitriol 2 oz., white vitriol 1 oz., rubbed down and mixed with lard 2 lb, tar 1 lb; a pledget of tow covered with it to be introduced into the cleft of the frog every night, and renewed in the morning.—YOUATT.

3. *Thrush Paste*. Alum, blue vitriol, white vitriol, of each 1 oz.; rub them into a fine powder; melt 2 lb of tar with 1 lb of lard, and when getting cool, stir in the powder.—CLATER.

4. Verdigris $1\frac{1}{2}$ oz., (or burnt alum 8 oz.,) red lead 8 oz., treacle 4 lb; boil to a proper consistence, and add 1 oz. of nitrous acid.—FERON.

OINTMENT FOR FARCY-BUDS. Sublimate 1 oz., white arsenic $\frac{1}{2}$ oz., yellow arsenic $\frac{1}{2}$ oz., euphorbium $\frac{1}{2}$ oz., oil of bays 4 oz.; mix.—M. LAMOTTE.

TURPENTINE OINTMENT. Common turpentine 1 part, lard 3 parts; melt together.—V. C.

VERDIGRIS OINTMENT. Verdigris in powder 1 part, common turpentine 1 part, lard 12 parts: for foul ulcers and tarsal ophthalmia.—MORTON.

OINTMENT FOR WARTS AND ANBURIES. Muriate of ammonia 2 dr., powdered savin 1 oz., lard $1\frac{1}{2}$ oz.; to be applied daily.—BLAINE.

OINTMENTS FOR CHRONIC VIVES.

1. Emetic tartar 2 dr., olive oil 1 dr.; rub together till smooth, and add lard 1 oz.

2. Iodide of potassium 1 dr., palm oil 1 oz.; rub together till quite smooth.—CLATER.

ASTRINGENT PASTE, for broken knees, and for wounds after the inflammation has subsided.

1. Powdered alum and pipe-clay, mixed with water to the consistence of cream. For broken knees, it may be coloured with bole and lamp-black.—WHITE.

2. *Paste for Open Knee-joint*. Flour and stale beer, boiled to the consistence of paste, and coloured as above. To be spread thick all round the joint, and covered with a pledget of tow, and $\frac{1}{2}$ sheet of brown paper; and the leg of a cotton stocking drawn over the whole. The stocking to be covered with the paste, and enveloped with 2 calico bandages regularly applied.—TURNER.

STOPPING FOR THE FEET.

1. Cow-dung beaten with a fourth part of clay.—YOUATT.

2. Soft soap 4 oz., Barbadoes tar 16 oz., linseed meal $2\frac{1}{2}$ lb.—
WHITE.

3. Tallow and tar, equal parts, melted together.

HOOF OINTMENTS.

1. Equal parts of wax, olive oil, lard, veal suet, turpentine, and honey; melt the wax and lard with the oil by a gentle heat, remove from the fire, and add the honey and turpentine, stirring till cold; when intended to embellish the hoof as well as to soften it, it may be coloured with lamp black, or ivory black.—BOURGELAT.

2. Tallow 4 lb, bees'-wax 4 oz., tar $\frac{1}{2}$ lb; melt slowly, remove from the fire, and when they begin to cool, stir together. A portion of pitch may be added when intended to fill fissures, &c.—BRACY CLARK.

COMPOSITION FOR SAND CRACKS. Bees'-wax 4 oz., yellow rosin 2 oz., common turpentine 1 oz., tallow $\frac{1}{2}$ oz.; melt together; fill the cracks with the composition, and turn the horse out to grass.

SUPPLING LINIMENT FOR BRITTLE HOOF. Oil of tar 1 pint, fish oil 2 pints.—CLATER.

CHARGES.

The usual means of applying charges is to soften the compound by heat, and apply it with a large spatula to the part, as warm as the animal can comfortably bear it, and while warm to cover it with cut tow. They are used for old sprains of the loins, strains of the back sinews, wind-galls, &c. Cold charges are spread on cloth or leather, and renewed as they become dry.

1. *Simple Charge.* Pitch 4 oz., turpentine 1 oz.—GASPARIN.

2. *For Strains of the Loins.* Pitch 4 lb, turpentine 6 oz., olive oil 4 oz.; melt together.—B. CLARK.

3. Burgundy pitch 4 oz., wax 4 oz., yellow rosin 4 oz., common turpentine 1 oz.; melt together, and when it begins to thicken, stir in 1 oz. of bole.—WHITE.

4. Burgundy or common pitch 5 oz., tar 6 oz., wax 1 oz.; melt together, and when they are becoming cool, stir in $\frac{1}{2}$ dr. of powdered cantharides.—YOUATT.

5. Pitch 3 lb, tar 1 lb, bees'-wax $\frac{1}{2}$ lb; melt together.—CLATER.

6. Rosin 2 oz., Burgundy pitch 4 oz., Barbadoes tar 2 oz., wax 3 oz., red lead 4 oz.—WHITE.

7. Pitch 8 oz., suet 4 oz., oil of turpentine 3 oz., tincture of cantharides 3 oz.—DELAFOSSÉ AND LASSAIGNE.

8. *Cold Charge.* Bole $\frac{1}{2}$ lb, white of egg and vinegar, to form soft paste, to be applied on doubled cloth or leather, and renewed as it dries; for sprains in the back sinews.—BRACKEN.

9. Bruised leaves of elder, or cabbage, or mallow.—B. CLARK.

POWDERS FOR OUTWARD USE.

ASTRINGENT POWDERS; chiefly used for sprinkling greasy or ulcerated heels, after the inflammation has been subdued by poultices.

1. Calamine (true) 4 parts, alum 1 part; mix.—MORTON.

2. Burnt alum, dried sulphate of iron, and myrrh, equal parts.—WHITE.

3. Alum 1 dr., charcoal $\frac{1}{2}$ oz., chalk 2 oz.—BLAINE.

4. Sulphate of zinc, chalk lightly calcined, white pepper, in equal parts.—B. CLARK.

5. Alum 4 oz., bole 1 oz.—WHITE.

6. Oak-bark 1 oz., verdigris 2 dr.—BLAINE.

7. White vitriol 2 oz., oxide of zinc 1 oz.—WHITE.

DETERGENT AND ESCHAROTIC POWDERS; for cleansing foul ulcers and repressing fungous or proud flesh. They should all be very finely powdered and well mixed.

1. Equal parts of calcined white vitriol and alum.—BRACKEN.

2. Bole 2 dr., blue vitriol or verdigris 1 oz.—WHITE.

3. Red precipitate $\frac{1}{2}$ oz., acetate of copper $\frac{1}{2}$ oz., calamine $\frac{1}{2}$ oz.—BLAINE.

4. Red precipitate $\frac{1}{2}$ oz., burnt alum 2 dr.

5. Blue vitriol 1 oz., alum 1 oz., white lead 1 oz.

6. Equal parts of verdigris and sugar of lead.—CLATER.

7. Alum, dried sulphate of iron, and myrrh, equal parts: in joint wounds.

STYPTIC POWDER. Alum, with an equal or double weight of flour.—WHITE.

STYPTIC STONE. See SOLUTIONS.

SNEEZING POWDERS. The ingredients to be finely powdered and mixed.

1. Asarabacca 4 dr., white hellebore 1 dr.; mix, and keep it in a bottle for use.—BRACKEN.

2. Snuff 1 oz., hellebore 1 dr., euphorbium 10 to 20 gr.—PECK.

3. *In Incipient Cataract.* Turpeth mineral 2 dr., asarabacca 4 dr.; mix, and apply as much as will lie upon a sixpence, daily.—BRACKEN.



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9. *When the last does not operate.* Calomel 20 gr., yeast $\frac{1}{2}$ pint.—HARRIS.

10. Aloes 4 to 6 dr., common salt 4 to 6 oz., ginger 1 to 3 dr., water a quart, anodyne tincture 2 oz.: in red-water.—WHITE.

11. *Cordial Purgative.* Aloes 4 dr., Epsom salts 4 oz., ginger 1 dr., carminative tincture 2 oz.—WHITE.

12. In the commencement of puerperal or milk fever: Epsom salts 6 or 8 oz., powdered croton seeds 20 to 30 gr., ginger 4 dr.; in 3 or 4 pints of gruel: repeat in 6 hours if required, without the croton seeds.—BLAINE.

13. In locked jaw: Barbadoes aloes $1\frac{1}{2}$ oz., powdered croton kernel 10 gr., boiling water q. s.; given when cool.—CLATER.

14. *Mild laxative and tonic.* Epsom salts $\frac{1}{2}$ lb, sulphur 4 to 6 oz., ginger $\frac{1}{2}$ oz., gentian $\frac{1}{2}$ oz., warm water q. s.—EVESON.

15. In flatulent colic with costiveness: Aloes $1\frac{1}{2}$ oz., carbonate of potash 3 dr., ginger $\frac{1}{2}$ oz., warm water 1 pint, linseed oil 8 oz.—WHITE.

16. Palm oil 16 oz., Glauber's salts 12 oz., boiling water q. s.—PECK.

17. *Laxative drink for cows that are kept on hay.* Aloes 4 dr., ginger $1\frac{1}{2}$ dr., water a quart, Epsom salts 6 oz., carbonate of soda $\frac{1}{2}$ oz.; for one dose.—YOUATT.

FEVER DRENCHES, for fevers, colds, influenza, &c.

1. Tartar emetic 1 dr., digitalis $\frac{1}{2}$ dr., nitre 3 dr.; mix, and give in a quart of gruel: in simple colds or catarrh.—CLATER.

2. Antimonial powder 2 dr., opium a scruple; rub together, and mix with thick gruel: after bleeding, in inflammation of the bladder.—WHITE.

3. In influenza, or epidemic (epizootic) colds: Nitre $\frac{1}{2}$ oz., salt of tartar 1 oz., camphor 2 dr., valerian, liquorice, turmeric, of each 1 oz., mustard 2 oz., juniper berries 1 oz., gruel a quart.—SKERRET.

4. For the same: After bleeding and a laxative, give antimonial powder 2 dr., camphor $1\frac{1}{2}$ dr., ginger 3 dr., laudanum $\frac{1}{2}$ oz., in gruel.—WHITE.

5. In bad colds attended with fever: Nitre 1 oz., camphor $\frac{1}{2}$ dr., tartar-emetic $\frac{1}{2}$ dr., in gruel.—PECK.

FEBRIFUGE TONIC DRENCHES.

1. Antimonial powder $\frac{1}{2}$ dr., camphor 1 dr., Peruvian bark 1 oz., gruel, or decoction of arrowroot or starch q. s., for 2 doses.—PECK.

2. In the decline of fevers and influenza : Emetic tartar $\frac{1}{2}$ dr., nitre 2 dr., gentian 3 dr., chamomile 1 dr., ginger $\frac{1}{2}$ dr.; pour on them a pint of boiling ale, and give when cool.—CLATER.

3. Emetic tartar $\frac{1}{2}$ dr., gentian 2 dr., digitalis $\frac{1}{2}$ dr., nitre $\frac{1}{2}$ oz., spirit of nitric ether 4 dr., gruel q. s.

TONIC DRENCHES.

1. Cascarella 3 dr., ginger 3 dr., carbonate of soda 2 dr., in gruel.—WHITE.

2. Gentian $\frac{1}{2}$ oz., ginger 1 dr., Epsom salts 2 oz., warm gruel a pint.—CLATER.

3. Tartarized iron 1 dr., gentian 2 dr., ginger 1 dr., gruel 1 pint : after laxatives, in indigestion.

DRENCHES FOR INFLAMMATION OF THE LIVER. After bleeding give—

1. Calomel $1\frac{1}{2}$ dr., opium $\frac{1}{2}$ dr., ginger 2 dr., thick gruel q. s. Six hours afterwards, give Epsom salts 1 lb, sulphur 6 oz., linseed oil $\frac{1}{2}$ pint, gruel q. s.—SPOONER.

2. Epsom salts 1 lb, caraway $\frac{1}{2}$ oz., Barbadoes aloes $\frac{1}{4}$ oz.; in a quart of warm gruel.—CLATER. After the yellowness appears give

3. Half of No. 2, with 20 gr. of calomel morning and night.—CLATER.

DRENCHES FOR JAUNDICE OR YELLOWS.

1. Opium 10 gr., calomel 10 gr., thick gruel q. s. at night, and the tonic drink (No. 2) in the morning.—CLATER.

2. Mr. SPOONER says salts in $\frac{1}{2}$ -lb doses, with a little ginger, are generally sufficient.

3. Muriate of soda $\frac{1}{2}$ oz., carbonate of soda $\frac{1}{2}$ oz., turmeric 2 oz., Glauber's salts 6 oz., powdered gentian and chamomile 2 dr., gruel q. s.

4. Castile soap $\frac{1}{2}$ oz., Venice turpentine $\frac{1}{2}$ oz., ginger 3 dr., gentian 1 oz.; rub the soap and turpentine in a mortar, and gradually add a pint of water, and afterwards the ginger and gentian.—WHITE.

5. Castile soap 1 oz., salt 1 oz., Venice turpentine 1 oz., yolks of 2 eggs; mix together, and gradually add a strong decoction of barberry-bark.

CLEANSING DRINKS, for cows after calving. These are often applied for, but are condemned as useless or hurtful by veterinarians of the new school. The following are some of the forms in use; probably a gentle laxative would be in most cases preferable.

1. Spermaceti, Irish slate, and birthwort, in powder, of each 1 oz., powdered aniseed 2 oz., liquorice powder 2 oz.; in linseed tea.

2. Aniseed, myrrh, birthwort, allspice, cummin seed, of each 1 oz., in a quart of gruel.—McEWEN.

3. Juniper-berries 3 oz., birthwort 2 oz., fenugrec 1 oz., spermaceti 2 oz., antimony 1 oz., saffron $\frac{1}{2}$ oz., in a quart of warm ale.—DOWNING.

4. Rosin, soap, of each $\frac{1}{2}$ oz., spermaceti $\frac{1}{2}$ oz., aniseed, caraway-seed, of each 1 oz., ginger $\frac{1}{2}$ oz., treacle 4 oz., warm gruel a quart.

5. 1 oz. spermaceti, 1 oz. birthwort, 2 oz. powdered bay-berries, 1 oz. myrrh; in juniper-berry tea.

LAXATIVE DRINK AFTER CALVING. Epsom salts 12 oz., aniseed 1 oz., olive oil 6 oz., gruel a pint, or q. s.

DRENCH FOR STRANGURY. After laxatives and a clyster, give, Camphor 2 dr., spirit of nitrous ether $\frac{1}{2}$ oz., tincture of opium $\frac{1}{2}$ oz., nitre 1 oz., gruel a pint.—WHITE.

DRENCHES FOR HOVEN OR BLOWN (flatulent distention of the paunch). It appears doubtful whether any liquid enters the paunch in these cases. More dependence is now placed on the introduction of a tube constructed for the purpose.

1. Ginger $\frac{1}{2}$ oz., spirit of nitric ether 2 oz., oil of peppermint 30 drops, warm water a pint.—WHITE.

2. Liquid ammonia, or spirit of hartshorn $\frac{1}{2}$ oz., cold water 3 pints.—MOIROUD.

3. Chloruret of potash 4 dr., water 4 oz., ether 3 dr. The solution of chlorinated soda may be substituted for chloruret of potash (Eau de Javelle).—CHARLOT.

4. Aloes 3 dr., pimento 2 dr., oil of turpentine 2 oz., spirit of hartshorn 1 oz.—BLAINE.

RHEUMATIC DRENCH.

1. Sulphur 8 oz., ginger $\frac{1}{2}$ oz.; every third day if necessary.—CLATER.

2. Antimonial powder 2 dr., Dover's powder $\frac{1}{2}$ dr., aniseed 1 oz., thick gruel a pint; night and morning, the bowels having been opened by No. 1.—CLATER.

3. Rhododendron leaves 4 dr., water a quart; boil to a pint, strain, and add powdered gum guaiacum 2 dr., caraway-seeds and aniseed each 2 dr., warm ale $\frac{1}{2}$ pint.

ANTISPASMODIC DRENCH FOR LOCKED JAW. Camphor



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bleeding is recommended, but is less necessary than in hæmaturia.

1. Epsom salts 8 to 16 oz., sulphur 2 to 4 oz., carbonate of ammonia $\frac{1}{2}$ oz., ginger $\frac{1}{2}$ oz., warm water 4 pints; give a fourth part every 6 hours till the bowels are acted on.—SPOONER. Or,

2. Glauber's salts 12 oz., carbonate of soda $\frac{1}{2}$ oz., nitre $\frac{1}{4}$ oz., sugar 1 oz., powdered caraways $\frac{1}{2}$ oz., in a quart of gruel. Or the Purging Drenches, No. 1, 2, or 3. After the bowels are well opened, give astringents.

3. *Astringents*. Powdered oak-bark $\frac{1}{2}$ oz., catechu 2 dr., opium 10 gr., gruel 1 pint.—CLATER. Or,

4. The laxative drench, No. 10.—WHITE. This is WHITE's drench for red-water, No. 1. To be followed by drenches of whey.

5. Catechu 2 dr., mucilage 4 oz., lime-water 6 oz.—BLAINE.

6. Laudanum $\frac{1}{2}$ oz., sugar of lead $\frac{1}{2}$ dr., catechu 4 dr., gruel 1 quart.—WHITE.

7. Alum 2 or 3 dr., bisulphate of potash (sal enixum) 2 dr., nitre 2 dr., diapente 2 oz., catechu $\frac{1}{2}$ oz.; in gruel.

8. Powdered oak-bark 1 oz., charcoal 1 oz., bolé 2 oz., in a quart of new milk.—PYE.

9. Catechu $1\frac{1}{2}$ oz., alum $1\frac{1}{2}$ oz., diapente 2 oz., Locatelli balsam 2 oz., warm gruel 3 pints.—MC EWEN.

10. Dragon's blood 2 oz., rust of iron 1 oz., nitre 3 oz., oil of turpentine 2 oz.; mix; for 2 doses, in gruel.—DOWNING.

11. Sulphuric acid 1 dr., tincture of opium $\frac{1}{2}$ oz., treacle 4 oz., warm gruel 4 quarts; daily, for a week.—BLAINE.

DRINK FOR ACUTE DIARRHŒA. Sulphate of soda, sulphate of magnesia, of each 2 oz., ipecacuanha $\frac{1}{2}$ dr., sulphate of iron 6 gr.—BLAINE.

FOR CHRONIC DIARRHŒA. Calomel $\frac{1}{2}$ dr., aloes 1 dr., gentian 2 dr., opium 5 gr., decoction of chamomiles 1 pint.—BLAINE.

ASTRINGENT DRENCHES, for dysentery (scouring-rot) or lax.

1. After purging drenches: Prepared chalk 2 oz., oak bark 1 oz., catechu $\frac{1}{2}$ oz., opium 2 scruples, ginger 2 dr., warm gruel 1 quart.—CLATER.

2. Two quarts of alum whey.

3. First give, blue pill 2 or 3 dr., rhubarb 3 dr., castor oil 4 oz., gruel 1 pint, well stirred before giving it; repeat this 3 or 4 mornings; then give—thick starch (made with 4 oz. of starch) 3 or 4 pints, tincture of opium 2 dr., ginger 3 dr., catechu $\frac{1}{2}$ oz.—WHITE.

4. Mutton suet 1 lb, new milk 2 quarts; boil, and add opium $\frac{1}{2}$ dr., ginger 1 dr.—CLATER.

5. *Cordial Astringent Drench.* Catechu $\frac{1}{4}$ oz., allspice $\frac{1}{4}$ oz., caraways $\frac{1}{2}$ oz., good beer 1 pint.—WHITE.

6. Seethe water, and plump therein plenty of sloes,
Mix chalk that is dried and in powder with those;
Which so, if ye give, with the water and chalk,
Thou makest the lax from thy cow away walk.

TUSSER—in the 16th century.

EXPECTORANT AND COUGH DRENCHES, IN HOOSE.

1. Bruised liquorice 2 oz.; boil in a quart of water to a pint, strain, and add powdered squill 2 dr., gum guaiacum 1 dr., tincture of tolu 4 dr., honey 2 oz.—CLATER.

2. Balsam of sulphur 2 oz., Barbadoes tar 1 oz., yolks of 2 eggs, honey 4 oz., salt of tartar $\frac{1}{2}$ oz., oil of aniseed 1 dr., elecampane 1 oz., gruel 1 quart: in chronic coughs.

3. Fresh squill 2 oz., garlic 2 oz., vinegar 24 oz.; digest for a day with a gentle heat; strain and press, and boil the liquor with 24 oz. of treacle; for 6 doses, in chronic cough.

4. For recent coughs: Digitalis 20 gr., emetic tartar $\frac{1}{2}$ dr., nitre 3 dr., squill 1 dr., opium 20 gr., gruel 1 pint.

5. Boil 4 oz. Iceland moss and 1 oz. liquorice root in 4 quarts of water, for a quarter of an hour, and strain; add to the liquor 1 oz. nitre, cream of tartar 2 oz. In hoose from cold, if inflammation of the lungs and fever be present, bleed before giving the drink. See also FEVER DRENCHES.

If the disease is connected with worms in the air passages, give the following:—

Worm Drench. For cough from worms: Oil of turpentine 2 oz., sweet spirit of nitre 1 oz., laudanum $\frac{1}{2}$ oz.; mix, and give in a pint of gruel.—CLATER.

DRENCHES FOR THE RECENT EPIDEMIC, affecting the feet and mouth, and attended with a low fever.

1. Glauber's salts 1 lb, treacle 4 oz., sulphur 4 oz., aniseed $\frac{1}{2}$ oz., cream of tartar 2 oz., warm water 3 pints; give it in new milk, warm. The above is for a full-grown beast. The mouth to be washed with a strong solution of blue vitriol, burnt alum, and vinegar. If the feet crack, apply a mixture of equal parts muriatic acid and water.

2. Some cattle-masters give common salt in gruel with great success.—BLAINE.

3. After a mild dose of salts—sweet spirit of nitre 1 oz., ale yeast 6 or 8 oz.—BLAINE.

4. Epsom salts 8 oz., sulphur 2 oz., nitre $\frac{1}{2}$ oz., ginger $\frac{1}{4}$ oz.;

half of this to be given in warm water, with 1 oz. of sweet spirit of nitre. Repeat daily. When the bowels are properly relaxed, and the fever reduced, but much weakness remains, give the following:—

5. *Tonic Drench.* Gentian 4 dr., ginger 2 dr., sulphate of iron 2 dr., sweet spirits of nitre 1 oz., warm water q. s.; wash the mouth with the *lotion*, page 112; dress the feet, after paring and poulticing, with equal parts of tincture of myrrh and butter of antimony; and afterwards apply the *astringent powder*, page 115.—SPOONER.

6. Linseed oil a pint, oil of turpentine 8 oz., aloes $\frac{1}{2}$ oz., ginger $\frac{1}{4}$ oz., laudanum 1 oz.; mix. For 2 doses, to be given with gruel.

REMEDIES FOR THE EPIZOOTIC PNEUMONIA. In the fatal form of this disease now prevailing, the following treatment is said to have proved effectual:—Bleed freely; then administer $\frac{1}{2}$ pint of brandy every 2 hours.

MURRAIN DRENCHES.

1. Sweet spirit of nitre $\frac{1}{2}$ oz., laudanum $\frac{1}{2}$ oz., solution of chloride of lime 2 dr., prepared chalk 1 oz.; mix, and give in a pint of warm gruel.—CLATER.

2. Cascarilla powder 2 oz., spirit of nitrous ether $\frac{1}{2}$ oz., liquid acetate of ammonia 4 oz., beer yeast 8 oz.; every 4 hours.—BLAINE.

3. Opiate confection 1 oz., liquid acetate of ammonia 2 oz., water 1 quart; for 1 dose.—VATEL.

4. *Tonic.* Calumbo 2 dr., canella 2 dr., ginger 1 dr., sweet spirit of nitre $\frac{1}{2}$ oz., thick gruel 1 pint.—SPOONER.

5. *Ceylon Remedy.* A small piece of lard the size of a walnut. Said to be used with perfect success.

6. *To prevent Murrain.* Myrrh 1 oz., Epsom salts 2 oz., sulphur 1 oz., liver of antimony $\frac{1}{2}$ oz., diapente 1 oz.: in rue tea after bleeding.—DOWNING.

DIURETIC DRINKS.

1. Common turpentine $\frac{1}{2}$ oz., ginger 2 dr.; mix with a little treacle, and add gradually spirit of nitrous ether 1 oz., gruel a pint.—CLATER.

2. *Tonic Diuretic.* Common turpentine 4 dr., ginger 2 dr., gentian 2 dr., tartrate of iron 1 dr.; rub together with a little treacle, and add gradually 1 oz. of sweet spirit of nitre.

BULLING DRENCHES. These are strongly condemned by



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3. Powdered turmeric, liquorice, aniseed, and diapente, each 1 oz.

CLYSTERS.

1. Salt 1 lb, warm water a gallon.

2. Linseed oil 8 oz., Epsom salts 8 oz., gruel 3 quarts.

MEDICINES FOR CALVES.

PURGATIVE DRENCHES.

1. Epsom salt 1 oz. to 2 oz., according to the age and size of the calf; dissolve in $\frac{1}{2}$ pint of gruel, and add 20 gr. of ginger, and 3 drops of essence of peppermint.—CLATER.

2. Salts $1\frac{1}{2}$ oz., castor oil 2 oz., ginger 10 gr., caraway 2 dr., gruel $\frac{1}{2}$ pint.

3. In costiveness, and accumulation in the paunch and stomach: dissolve 2 oz. of Epsom salt in 2 or 3 quarts of water, or 4 oz. in a gallon, according to the age of the calf, and throw it in gently by means of a stomach pump.

4. *Laxative.* Epsom salt 2 or 3 oz., carbonate of soda 2 dr., water 6 or 8 oz., ginger 1 dr.; mix.—WHITE.

DRENCHES FOR DIARRHŒA.

1. *YOUATT'S Cordial.* Prepared chalk 2 oz., catechu 1 oz., ginger $\frac{1}{2}$ oz., opium 1 dr., peppermint water 1 pint; dose for a calf, from 2 to 4 tablespoonfuls.

2. Prepared chalk 2 dr., opium 10 gr., catechu $\frac{1}{2}$ dr., ginger $\frac{1}{2}$ dr., essence of peppermint 5 drops; mix, and give twice a day in $\frac{1}{2}$ pint of gruel.—CLATER.

3. Caraway $\frac{1}{2}$ oz., ginger $\frac{1}{2}$ dr., subcarbonate of soda 1 dr., brandy or gin 1 oz., water 8 oz.—WHITE.

4. Half a bottle of Dalby's carminative.

5. Suet boiled in milk $\frac{1}{2}$ pint, opium 5 gr., alum 5 gr., prepared chalk $\frac{1}{2}$ oz.; mix.

6. If No. 2 fails: Dover's powder 2 scruples, aromatic powder 1 dr., kino $\frac{1}{2}$ dr.; give it night and morning, with 1 oz. of arrow-root boiled in a pint of water.—CLATER.

INFLAMMATORY DISORDERS. Bleed; give 2 to 6 oz. Epsom salts. [Give to a calf of 6 months old $\frac{1}{4}$ the dose for cattle; at a year and half, $\frac{1}{2}$ the dose.—SPOONER.]

MEDICINE FOR PILES IN CALVES.

Oil of vitriol 15 drops, tincture of opium $\frac{1}{2}$ oz.—PECK.

WHITE'S *Alkaline Solution.* Subcarbonate of potash 2 oz., fresh lime-water 8 oz. To correct acidity in the stomach, give 1 or

2 teaspoonfuls in gruel; the first dose to be given with an ounce or two of Epsom salt in $\frac{1}{2}$ pint thin gruel. If the disorder is attended with griping pains, add a tablespoonful of anodyne carminative tincture.

ALUM WHEY. See page 109.

TO PROMOTE THE FATTENING OF CALVES.

Aniseed $\frac{1}{4}$ lb, fenugrec $\frac{1}{4}$ lb, linseed meal 1 lb; make it into a paste with milk, and cram them with it.

Fattening Powder. Common salt with a little carbonate of soda; a small quantity added to the food promotes fattening, and prevents scouring, &c.

HOOSE, OR COUGH FROM WORMS IN AIR PASSAGES.

$\frac{1}{2}$ pint lime-water every morning, and a tablespoonful of salt every afternoon, to each calf.—Mr. MAYER.

Linseed oil 4 oz., oil of turpentine 1 oz., oil of caraways 20 drops; repeated once or twice at intervals of 10 days.—This dose for calves of 6 to 10 months old.—Mr. DICKENS.

External Applications for Neat Cattle.

LOTIONS OR WASHES. (See also EMBROCATIONS.)

LOTION FOR CANKER IN CALVES.

1. Alum 1 oz., water 8 oz., tincture of myrrh 1 oz., honey of roses 1 oz.

2. Equal parts of tincture of myrrh and water.—CLATER.

3. Alum $\frac{1}{2}$ oz., water 1 pint, tincture of myrrh 1 oz.

LOTION FOR COW-POCK. Sal ammoniac $\frac{1}{4}$ oz., white vinegar $\frac{1}{2}$ pint, camphorated spirit 2 oz., Goulard's extract 1 oz., mix.—CLATER.

LOTION FOR SLIGHT BRUISES.

1. Extract of lead $\frac{1}{2}$ oz., vinegar 4 oz., soft water 1 pint.—WHITE.

2. Acetate of ammonia 4 oz., water $\frac{1}{2}$ pint, spirit of camphor $\frac{1}{2}$ oz.

DISCUTIENT LOTION, for dispersing tumours. Bay salt 4 oz., vinegar 1 pint, water 1 quart, oil of origanum 1 dr.; rub the oil with the salt, and gradually add the others.

LOTION FOR STRAINS.

1. Bay salt 4 oz., oil of origanum 1 dr.; rub together, and add vinegar $\frac{1}{2}$ pint, spirit of wine 2 oz., water 1 quart.
2. Common salt 1 oz., sal ammoniac 1 oz., water 1 pint.

LOTION FOR FOUL IN THE FOOT. After poulticing and removing loose horn, apply—

1. Butter of antimony, or
2. Strong solution of alum.

LOTION FOR WOUNDS.

1. Tincture of myrrh and aloes.
2. For proud flesh: strong solution of sulphate of copper.
3. For offensive wounds: chloride of lime 1 oz., water 1 pint; mix well, and strain.

LOTION FOR BULL-BURNT. Goulard's extract 1 oz., spirit of wine 2 oz., water $\frac{1}{2}$ pint.

LOTION FOR BLAIN IN THE MOUTH. After lancing the bladder, apply a saturated solution of salt in water.—YOUATT.

LOTION FOR THE MOUTH, in the recently prevailing epidemic. Alum 1 oz., sulphate of zinc $\frac{1}{2}$ oz., warm water 1 pint, treacle $\frac{1}{4}$ lb.—SPOONER.

WASHES FOR DESTROYING VERMIN.—They are all poisonous.

1. Stavesacre seeds 4 oz., water 4 pints; boil to 2 pints, and apply it daily.—PECK.
2. Sublimate 2 dr., spirit of wine 2 oz., water 1 pint.—CLATER.
3. Stavesacre 4 oz., white hellebore root 2 oz., water 1 gallon; boil to half; apply with a sponge.

LOTION FOR MANGE. Corrosive sublimate 2 dr., muriatic acid $\frac{1}{2}$ oz., water 12 to 16 oz.; mix. In obstinate cases only.—WHITE.

EYE-WATERS, OR COLLYRIA.

1. White vitriol a scruple, spirit of wine 1 dr., water a pint.—CLATER.
2. Sugar of lead 10 to 20 gr., soft water 8 oz.—V. C.
3. *Sedative Eye Drops.* Powdered digitalis $1\frac{1}{2}$ oz.; infuse in a pint of Cape wine for a fortnight, and filter: a few drops to be introduced into the eye twice or thrice a day.—SPOONER.
4. Extract of lead 2 dr., wine of digitalis (No. 3) 2 dr., tincture of opium 2 dr., water a pint.



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OINTMENTS.

BLISTERING OINTMENTS.

1. Resin cerate 1 oz., cantharides finely powdered 3 dr., oil of turpentine 2 dr.; for setons.—CLATER.

2. Lard 12 oz., rosin 4 oz.; melt together, and when sufficiently cool, add, oil of turpentine 4 oz., powdered cantharides 5 oz.; stir till cold: to be rubbed in after removing the hair.—CLATER.

OINTMENT FOR MANGE, LICE, &c. (See also LOTIONS, above.)

1. Sulphur 1 lb, common turpentine 4 oz., mercurial ointment 2 oz., linseed oil a pint. *Note.*—Cattle are easily salivated, and greatly weakened by it. Mercurials should therefore be used with great caution.

2. Sulphur 1 lb, strong mercurial ointment 2 oz., common turpentine $\frac{1}{2}$ lb, lard $1\frac{1}{2}$ lb.—CLATER.

3. *French Liniment.* Olive oil a pint, sulphur 4 oz.; heat till the oil becomes coloured by the sulphur; remove from the fire, and when nearly cold, add 4 oz. of oil of turpentine; apply with a feather.

4. Lard 2 lb; melt and add oil of turpentine 8 oz., sulphuric acid 2 oz., sulphur vivum 8 oz.; stir till cold.

5. *Mange Liniment.* Sulphur vivum finely powdered 4 oz., train oil 12 oz., oil of turpentine 4 oz.; mix.—WHITE.

GARGET OINTMENT, for Downfall of the Udder.

1. Soft soap 1 lb, mercurial ointment 2 oz., camphor (powdered with spirit) 1 oz.; mix; give first a laxative, then a fever or diuretic drink.

2. Green elder ointment 2 oz., water of ammonia $\frac{1}{4}$ oz.

3. Beat fox-glove leaves with twice their weight of whey butter; to every pound add 1 oz. of sal ammoniac, 1 oz. of turpentine, and $\frac{1}{2}$ oz. of bole; mix, and apply 2 or 3 times a day.—DOWNING.

4. Spirit of camphor 1 oz., mercurial ointment 1 oz., elder ointment 8 oz.—YOUATT.

OINTMENT FOR ULCERS ABOUT THE JOINTS. Equal parts of basilicon and citrine ointments.—CLATER.

HEALING AND CLEANSING OINTMENTS. Lard 2 lb, yellow resin $\frac{1}{2}$ lb; melt together, and when it begins to cool, add calamine in powder $\frac{1}{2}$ lb.

CHARGE FOR OLD STRAINS. Burgundy pitch 4 oz., common pitch 4 oz., wax 2 oz., tar 6 oz.; apply hot, and cover with cut tow.

SETONS.

1. *Common.* A piece of cord, or coarse tape; or horsehair and tow platted together.

2. *Irritating.* Root of common dock; or of black hellebore.

PASTE FOR STOPPING BLEEDING. Equal quantities of white, green, and blue vitriol, flour, and bole; beaten up with fresh nettles and a little vinegar.

ASTRINGENT POWDER FOR SORE FEET, &c. Sulphate of copper $\frac{1}{2}$ oz., prepared chalk 2 oz., powdered alum $\frac{1}{2}$ oz., bole 1 oz.; rub together.—SPOONER.

MEDICINES FOR SHEEP AND LAMBS.

THESE are best given in a liquid form, and should be carefully and slowly administered. Sheep generally require one-sixth (or from one-eighth to one-sixth) of the doses given to cattle.

PURGING DRENCHES.

1. Epsom salt 2 oz., powdered caraway $\frac{1}{4}$ oz., warm, thin gruel, sufficient to dissolve the salts. The Editor of CLATER says that this is the best purging drink that can be used. For *Lambs* give a fourth of this, and repeat in 6 hours if necessary.

2. Epsom salt $1\frac{1}{2}$ oz. or 2 oz., ginger 1 dr., treacle 1 oz., hot water 4 oz.

3. Castor oil 2 oz., ginger and salt of tartar, of each 2 scruples, moist sugar a spoonful, gruel q. s.—M'EWEN.

4. Epsom or Glauber's salt from 1 to 2 oz., common salt a teaspoonful, boiling water sufficient to dissolve the salts, and a little gruel. A teaspoonful of tincture of ginger, or of pimento, or of anodyne carminative tincture (see p. 76), may be added.

5. Sulphur $\frac{1}{4}$ oz., Epsom salt 1 oz., common salt a teaspoonful, thin gruel $\frac{1}{4}$ pint.

6. *For Lambs.* Epsom salt 2 to 4 dr., ginger $\frac{1}{2}$ dr., in gruel.—SPOONER.

7. *For Sheep on the first attack of Small-Pox.* Epsom salt 2 oz., ginger $\frac{1}{2}$ dr., in chamomile tea or infusion of gentian, (or with 1 dr. of powdered gentian or chamomile).—WARNECKE.

FEVER DRENCH. Powdered digitalis 20 gr., emetic tartar 10 gr., nitre 2 dr. Twice a day, mixed with gruel.—CLATER.

TONIC DRENCHES.

1. *General Tonic.* Gentian 2 dr., calumbo 1 dr., ginger $\frac{1}{2}$ dr., all in powder; tincture of orange peel 1 dr., gruel 4 oz.; for one dose.—CLATER.

2. *In the last stage of Fever.* Gentian 1 dr., ginger 20 gr., spirit of nitrous ether 1 dr., tincture of cardamom 20 drops, in gruel.

3. *For Debility and Indigestion, after a purgative.* Gentian, caraway, each 1 oz., calumbo and ginger, of each $\frac{1}{2}$ oz. (all sliced or bruised), boiling water a quart; infuse till cool, and



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of this daily, in gruel. Keep the mouth and nose clean with vinegar-and-water. See also Purging Drench No. 7, above.

DRENCH FOR INFLUENZA. Epsom salt $\frac{1}{2}$ oz., chamomile tea 4 oz. Afterwards give half doses of the Fever Drench, above.—DARBY.

DRENCHES FOR BLOWN OR BLAST.

1. Glauber's salt 1 oz., hot water 1 oz., peppermint water 4 oz., tincture of ginger 1 dr., tincture of gentian 1 dr.; every six hours till the bowels are opened, and half the quantity the next 4 mornings.—CLATER.

2. Common salt 1 oz., solution of potash (WHITE'S) $1\frac{1}{2}$ dr., castor or olive oil, 2 tablespoonfuls, water 8 oz. (After letting out the air by a tube or probang.)—WHITE.

DRINK TO PREVENT RESP OR MEADOW SICKNESS.

Pearlash $1\frac{1}{2}$ dr., hot water 8 oz. To be given from a flat bottle the second and fourth morning after putting them to keep.—HOLDITCH.

DRENCH FOR STURDY AND APOPLEXY. After bleeding, 2 oz. of Epsom or Glauber's salts, in warm water or thin gruel.

DRENCHES FOR FLUX, OR SCOURING, OR DYSENTERY.

1. Epsom salt 1 oz., hot water or thin gruel to dissolve it; add castor oil 2 oz., laudanum 30 drops. When it has operated give No. 2.—BLAINE.

2. Ipecacuanha 15 gr., prepared chalk 1 dr., opium 2 gr., boiled starch or arrow-root 4 oz. Night and morning.

3. Linseed oil 2 oz., powdered opium 2 gr., linseed tea q. s. Afterwards give No. 4.—SAYER.

4. Opium 2 gr., ginger $\frac{1}{2}$ dr., gentian $\frac{1}{2}$ dr., linseed tea or gruel q. s.

5. Epsom salt $1\frac{1}{2}$ oz., hot water 4 oz.; dissolve, and add castor or olive oil $1\frac{1}{2}$ oz.—WHITE. Afterwards give No. 6.

6. Catechu $\frac{1}{2}$ dr., allspice $\frac{1}{2}$ dr., caraway 1 dr., water or beer 4 oz.; simmer together.

DRENCHES FOR DRY BRAXY, OR INFLAMMATION OF THE BOWELS.

1. After bleeding: Epsom salt $1\frac{1}{2}$ oz., warm water a pint.—Mr. STEVENSON.

2. After bleeding: Common salt 1 oz., water $\frac{1}{2}$ pint, laudanum a teaspoonful.—WHITE.

DRENCH FOR BITES OF VENOMOUS REPTILES. Olive oil 4 oz., spirit of hartshorn $\frac{1}{4}$ oz., gruel or arrow-root $\frac{1}{4}$ pint.—**WHITE.**

DRENCHES TO PROMOTE PARTURITION IN THE EWE.

1. A decoction of horsemint, or any other kind of mint.
2. Bruised ergot of rye 1 dr., boiling water a pint; infuse for a $\frac{1}{4}$ of an hour, and give a third part. Repeat if necessary.

DRENCHES AND POWDERS FOR THE ROT.

1. Juniper berries 6 oz., gentian 1 oz.; boil in 3 gallons of water for a quarter of an hour, strain, and add common salt 4 lb, powdered ginger 4 oz., tartarized iron 2 oz.; stir; and let it stand till cool. Put it into wine bottles filled two-thirds full, and add to each $1\frac{1}{2}$ oz. oil of turpentine and $\frac{1}{2}$ oz. sweet spirit of nitre. Give a tablespoonful night and morning, shaking the bottle before pouring it out.

2. Common salt 8 oz., gentian powder 8 oz., ginger 1 oz., tincture of calumbo 4 oz., water to make up a quart.—**CLATER.** See the next.

3. To a quart of No. 2, add spirit of turpentine 3 oz.; shake well together, and give 2 tablespoonfuls at night, before the night's food is given, and a tablespoonful of No. 2 every morning.

Powders for the same.—A French recipe. 1. Dry bran 10 lb, salt $\frac{1}{2}$ lb, aromatic herbs (as thyme, sage, juniper, rosemary, &c.) cut small, 6 oz., green anise and coriander, of each 5 oz.; mix, and give morning and night every third day. The above quantity is for 30 sheep.

2. Juniper-berries 4 oz., bay-berries 1 oz., grains of paradise $\frac{1}{4}$ oz., bay salt $1\frac{1}{2}$ lb, loaf sugar $\frac{1}{2}$ lb; powder all together, and keep the powder in a bottle for use. Give the sheep dry and sweet hay, sprinkled with the powder.—**LAWRENCE.**

DRENCH FOR INFLAMMATION OF THE LUNGS; CATARRH, HOARSE, AND COUGH. After bleeding from the neck, give Epsom salts 2 oz., gruel or linseed tea q. s.

DRENCH FOR INFLUENZA. Epsom salt $\frac{1}{2}$ oz., chamomile tea 4 oz. Afterwards small doses of digitalis, opium, tartarized antimony, and vegetable tonics.—**DARBY.**

External Applications for Sheep.

EYE-WATERS.

1. *Strong.* For cloudiness of the eye: corrosive sublimate 4 gr., spirit of wine $\frac{1}{2}$ oz.; dissolve, and add water a pint.—CLATER.

2. Tincture or wine of opium a teaspoonful, water $\frac{1}{2}$ pint.

WASHES FOR LICE, AND TICKS. (The scab ointments will also destroy them, and are less hazardous, and less injurious to the wool.)

1. *Arsenical Wash.* White arsenic $\frac{1}{2}$ lb, salt of tartar $\frac{1}{2}$ lb, water 12 gallons; boil for half an hour.—YOUATT.

2. Arsenic 2 lb, soft soap 4 lb, water 30 gallons; dissolve. The sheep to be immersed in this liquid, (the head only being kept out,) and while in it, the fleece to be well rubbed. When taken out, the fluid should be well pressed out of the fleece, and the sheep kept from cold and wet for a few days.—CLATER. Mr. SPOONER says 2 lb of arsenic should make 48 gallons of the liquid.

3. Arsenic 1 lb, yellow soap 6 lb, pearlash 12 oz., water 30 gallons.—MATTHEWS.

4. *Mercurial.* Corrosive sublimate 1 oz., spirit of wine 2 oz.; rub together till dissolved, then add cream of tartar 1 oz., bay salt 4 oz., dissolve the whole in 2 quarts of water, and apply it with a sponge wherever lice appear.—CLATER.

WASHES FOR THE SCAB.

1. Tobacco 4 oz., water 1 gallon; boil and add soft soap 1 lb, sulphur vivum 1 lb; when cold add a pint of oil of turpentine.

2. Equal parts of decoction of tobacco and lime-water.—YOUATT.

SMEARING MIXTURE.

1. One gallon of common tar, and 12 lb of any sweet grease, melted together.

2. Oil of tar is used as a preventive of the *fly*; but fish oil is equally so, according to Mr. HOGG; and is less injurious to the wool. Oil of tar has sometimes destroyed sheep.

FLY POWDER, FOR SHEEP.

1. White lead 2 lb, red lead $\frac{1}{2}$ lb, sulphur $1\frac{1}{2}$ lb, oil of wormwood, animal oil (empyreumatic), or creasote $\frac{1}{4}$ oz.; mix.



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8. Strong mercurial ointment 1 lb, lard 4 lb, Venice turpentine 8 oz., oil of turpentine 2 oz. If mixed by heat, care must be taken to use no more heat than is necessary; and to add the oil of turpentine when the other ingredients begin to cool, and to stir till cold.—M'EWEN.

9. Corrosive sublimate 2 oz., white hellebore 3 oz., fish oils 6 quarts, rosin $\frac{1}{2}$ lb, tallow $\frac{1}{2}$ lb. The sublimate and then the hellebore to be rubbed with a portion of the oil till perfectly smooth, and then mixed with the other ingredients melted together.—STEVENSON.

OINTMENT FOR DEEP WOUNDS OR ULCERS FROM FLIES. The fly powder No. 2, mixed with tar.—CLATER.

OINTMENTS FOR SORE HEADS. Black pitch 2 lb, tar 1 lb, flowers of sulphur 1 lb; melt together, taking care that it does not boil. To be spread thickly on leather while warm, and fitted to the head.

CAUSTIC ASTRINGENTS FOR FOOT ROT.

1. Blue vitriol 1 oz., white vitriol 1 oz., burnt alum 2 oz., bole $\frac{1}{2}$ oz., honey to form a stiff paste.—M'EWEN.

2. Sulphate of copper 2 oz., water 12 oz., dilute sulphuric acid 2 dr.—WHITE.

3. Butter of antimony, alone, or mixed with tincture of myrrh.

4. Verdigris, bole, and sugar of lead; in equal parts, rubbed together into a fine powder. Sprinkle on the sore, cover with tow, and bind down with tape for 24 hours, afterwards No. 3, or No. 2.—CLATER.

5. *Strong.* Verdigris 1 oz., nitrous acid 2 oz., water 4 oz.—WHITE.

6. *Strongest.* Red precipitate 1 oz., nitrous acid 2 oz.; dissolve, and add water 2 oz., spirit of wine 1 oz.—WHITE.

7. Aloes 16 oz., weak spirit 32 oz., sulphuric acid 17 oz.; mix.—DUVILLÉ.

8. Dissolve sulphate of copper $2\frac{1}{2}$ oz. in $1\frac{1}{2}$ pint of water, and add a solution of $3\frac{1}{2}$ dr. of sulphate of iron previously calcined. Diffuse $\frac{3}{4}$ oz. slaked lime in water, and add the mixed solution; then add 7 oz. of common salt, 1 oz. wood vinegar, and water to make up a quart. [Nearly the composition of a celebrated French nostrum.]

BLACKLOCK condemns all caustic applications, using only mild poultices and emollient ointments.

MEDICINES FOR SWINE.

ALTERATIVE MEDICINES, in mange, and other skin diseases, and in obstinate costiveness.

1. Sulphur $\frac{1}{4}$ oz., Ethiops mineral 3 gr., nitre $\frac{1}{2}$ dr.; daily, in thick gruel or wash.—CLATER.

2. Black antimony $\frac{1}{2}$ oz., sulphur 2 oz., nitre $\frac{1}{2}$ oz.; mix; for 8 doses.

FEVER MEDICINE. Digitalis 3 gr., antimonial powder 6 gr., nitre $\frac{1}{2}$ dr.; after bleeding, in a little warm swill, milk, or mash, morning, noon, and night.—CLATER.

PURGING MEDICINES.

1. Epsom salts 1, 2, or 3 oz., in broth or swill.

2. Sulphur 2 dr., daily; full dose 3 to 4 dr., with milk or other food.

3. Jalap 1 dr.; if insufficient add 10 or 12 gr. of scammony, or 10 gr. of calomel.—WHITE.

4. Jalap $\frac{1}{2}$ dr., sulphur 2 dr., antimony $\frac{1}{2}$ dr.

5. Jalap $\frac{1}{2}$ dr., Epsom salts 1 oz.

6. Castor oil 1 oz. to 2 oz., with gruel.

7. Calomel 5 gr.; but this must not be repeated more than twice.

CARMINATIVE DRENCH, for flatulent distention, from sour whey, &c. After using the probang, or where it cannot be had, give—

1. WHITE's solution of potash (see Calves) 2 oz., anodyne carminative tincture 1 tablespoonful, water 8 oz.

2. A tablespoonful of common salt in warm water, a teaspoonful of mustard or powdered ginger, and a glass of gin.

THRIVING POWDER, to promote fattening. Powdered fenugrec, alone, or mixed with a fourth of liquorice powder; an ounce daily with the food.

REMEDIES FOR MEASLES. After bleeding by tail, ear, palate, or vein inside the forearm, an inch above the knee, give one of the purging drinks, and turn it into the open air.

REMEDIES FOR THE LATE PREVAILING DISTEMPER, affecting the Mouth and Feet. The same drink, and astringent powder, as for SHEEP.

DRENCH FOR INFLAMMATION OF THE BRAIN. Castor oil 2 oz., with gruel; afterwards 2 gr. white hellebore powder twice or thrice a day.—Mr. CUPISS.

HEALING OINTMENT FOR SORE EARS.

1. Lard 1 lb, resin 4 lb; melt together, and stir in $\frac{1}{2}$ lb lapis calaminaris.—CLATER.

2. Zinc ointment 1 oz., yellow basilicon 3 oz.

MANGE OINTMENT.

1. Sulphur 4 oz., Venice turpentine 1 oz., old lard 8 oz., mercurial ointment 1 oz.; the animal to be previously scrubbed all over with a good soap lather.

OINTMENT FOR SORE TEATS. Soft soap 4 oz., camphor (powdered with spirit) $\frac{1}{4}$ oz., mercurial ointment $\frac{1}{2}$ oz. It must be carefully washed off.



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3. *Tonic Alterative.* Mercurial pill 1 dr., aloes 2 dr., myrrh, benzoin, balsam of Peru, of each, $1\frac{1}{2}$ dr.; to be divided into 10, 15 or 20 pills: one every evening, for the yellows, after aloes and calomel.—BLAINE.

4. *Alterative powder.* Æthiops mineral 2 to 5 gr., cream of tartar 4 to 10 gr., tartarized iron 1 to 3 gr.: once a day.—CLATER.

ASTRINGENT BALLS.

1. Catechu $1\frac{1}{2}$ dr., sulphate of quinine 20 gr., opium 3 gr., ginger 1 dr., conserve of roses q. s. to form a mass, to be divided into 8, 6, or 4 balls.—BLAINE.

2. Prepared chalk 2 oz., powdered gum Arabic $\frac{1}{2}$ oz., powdered catechu $\frac{1}{2}$ oz., powdered oak-bark $\frac{1}{2}$ oz.; powdered ginger $\frac{1}{4}$ oz., opium 15 gr., palm oil 1 oz.; beat well together: dose, $\frac{1}{2}$ dr. to 2 dr., morning, noon, and night, in the advanced stage of distemper.—CLATER.

3. Opium 5 gr., catechu 2 dr., gum Arabic 2 dr., ginger $\frac{1}{2}$ dr., syrup of poppies q. s.; divide into 12, 9, or 6 balls: in diarrhoea.—BLAINE.

4. Myrrh 1 dr., ipecacuanha 1 scruple, opium 3 gr., chalk 2 dr., carbonate of iron 1 dr.: as No. 3.—BLAINE.

5. In obstinate cases: Alum 1 dr., chalk 2 dr., opium 6 gr.; rosin 3 dr.: into 4, 6, or 8 balls.

6. In diarrhoea, after 1 to 4 dr. of Epsom salts: Prepared chalk 1 to 3 scruples, catechu 5 to 10 gr., opium $\frac{1}{4}$ to 2 gr., twice a day.—SPOONER.

COUGH BALLS, IN ASTHMA, &c.

1. *After a few emetics:* Calomel 3 gr., fox-glove 3 gr., cream of tartar 1 dr., antimonial powder 12 gr., honey to form 6 boluses. One twice a day.—BLAINE.

2. Digitalis 20 gr., antimonial powder 40 gr., nitre 2 dr., sulphur 3 dr., palm oil 3 dr. or q. s. Divide into 10, 15, or 20 balls, according to size of the dog, morning and night, interposing an emetic every third or fourth day.—CLATER.

3. *In old cases.* P. squill $\frac{1}{2}$ gr. to 1 gr., gum ammoniac 5 gr., balsam of Peru 8 gr., benzoic acid 1 gr., balsam of sulphur to form a ball.

4. Extract of hemlock $\frac{1}{2}$ dr., extract of henbane 10 gr., p. digitalis 20 gr., conserve of roses to form a mass. Divide into 10, 8, or 6 balls. One night and morning.—BLAINE.

DISTEMPER MEDICINES.

1. Turpeth mineral 1 to 3 gr., assafoetida $\frac{1}{2}$ dr., aloes 20 gr.,

soap 10 gr., syrup of poppies to form a ball. To be preceded by an emetic, and given every third day.

2. After bleeding (if required) and an emetic, give a physic ball; and afterwards the following 2 or 3 times a day: Antimonial powder 2, 3, or 4 gr.; nitre 5, 10, or 15 gr.; ipecacuanha 2, 3, or 4 gr.; form a ball. If the disease proceed to the debilitating stage, give the *Tonic Ball*, No. 2; in the putrid or malignant stage, give the *Astringent Ball*, No. 1.—BLAINE.

3. After the emetic powder No. 1 (which should be repeated every 3d or 4th day) give the *Cough Ball* No. 2, from $\frac{1}{2}$ dr. to 2 dr. in weight. And if the dog loses flesh, give equal parts of the cough ball and the tonic ball (No. 1). In the more advanced stages give the tonic alone; or the *astringent ball* if diarrhœa comes on.—CLATER.

4. Give a third of a paper of James's powder, mixed with butter, and afterwards warm broth or milk. In 2 hours another third; and if this neither vomit nor purge, give the other third at the end of 4 hours.—Mr. DANIEL.

5. BLAINE'S *Distemper Powders*; which are sold in packets, with directions for use.

6. Camphor 3 to 5 gr., charcoal 10 gr., opium 1 gr., aromatic confection q. s. to form a ball.—In the malignant stage, with diarrhœa.

7. *Poudre Kusique*; a French nostrum. Mix 45 gr. of nitre, 45 of sulphur, and 1 of charcoal. Divide into 3 doses. Give one for 2 successive mornings, and the third on the 4th morning, mixed with lard or butter, or in milk. For a large dog a second packet (of 3 powders) may be required.—HABERT.

Another French nostrum, Hemel's powder, is of a similar kind.

REMEDIES FOR SPASMODIC COLIC.

1. Castor oil $\frac{1}{2}$ oz., oil of peppermint 1 drop, laudanum 20 drops. If it does not open the bowels give $\frac{1}{2}$ dr. to $1\frac{1}{2}$ dr. of aloes.—BLAINE.

2. Castor oil 3 oz., syrup of buckthorn 2 oz., syrup of poppies 1 oz. Give from a teaspoonful to a tablespoonful.—YOUATT.

3. Ether $\frac{1}{2}$ dr., laudanum $\frac{1}{2}$ dr., camphor 3 to 6 gr., castor oil (unless he is purged) 3 to 5 dr.—BLAINE.

CONVULSIONS.

Give Colic mixture No. 3, and apply warm bath and flannel.

FOR FITS, OR EPILEPSY.

1. Calomel 8 gr., carbonate of iron $\frac{1}{2}$ dr., extract of hemlock 20 gr., conserve of roses, or palm oil to form a mass for 12, 9, or 6 balls.—BLAINE.

2. Give the Alterative balls No. 1, or the pills of nitrate of silver, as for St. Vitus's dance.—CLATER.

3. For epilepsy of suckling bitches: Ether 1 dr., laudanum $\frac{1}{2}$ dr., strong ale 2 oz.; give from a dessert spoonful to 1 or 2 tablespoonfuls every 2 or 3 hours.—BLAINE.

4. For epilepsy attending distemper: The tonic balls; or the pills for chorea.—CLATER.

5. After an emetic: Gentian 10 to 20 gr., ginger 3 to 6 gr., carbonate of iron 2 to 4 gr., or from an eighth to a fourth of a grain of spider's web.—SPOONER.

6. Ether 1 dr., laudanum $\frac{1}{2}$ dr., camphor 6 gr., spirit of harts-horn 1 dr.; in a spoonful of ale: for small dogs, give half the quantity.—BLAINE.

EMETIC POWDERS.

1. Calomel, emetic tartar, of each 1 oz.; vermilion 10 gr.; rub together: dose, from 1 to 3 gr., dropped on the tongue, or mixed with a teaspoonful of milk.—CLATER.

2. Emetic tartar, from 1 to 3 gr.

3. Turpeth mineral, from 1 to 3 gr.

4. A teaspoonful of common salt.

MEDICINES FOR INFLAMMATORY DISORDERS.

1. In inflammation of the lungs: After bleeding and purging, digitalis 12 gr., emetic tartar 3 gr., nitre 1 dr.; mix, and divide into 6, 9, or 12 powders.—BLAINE.

2. Ditto, with much cough: Tincture of digitalis 1 dr., emetic tartar 3 gr., nitre 1 dr., simple oxymel 2 oz.: dose, 1 or 2 dr. every 3 hours.—BLAINE.

3. In pleurisy, with incipient water in the chest: Digitalis 6 gr., calomel 6 gr., tartarized iron 18 gr.: into 6, 9 or 12 doses.—YOUATT.

4. In inflammation of the liver: Digitalis 8 gr., antimonial powder 16 dr., nitre 1 gr.; divide into 7, 9, or 12 powders, or boluses.—BLAINE.

5. In chronic inflammation of the liver: Calomel 20 gr., antimonial powder $\frac{1}{2}$ dr., myrrh, gentian, aloes, of each 2 dr.; mix, and divide into 15, 20, or 25 balls.

6. In inflammation of the bowels: After bleeding and a warm bath, give the castor oil mixture, (Purgatives No. 8.)—CLATER.

7. Bilious inflammation (with offensive, often black vomiting and purging): Calomel 10 gr., opium 4 gr.; in 4 or 8 pills—one 3 times a day; afterwards the astringent remedies for diarrhoea.—SPOONER.



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each $\frac{1}{2}$ oz.; mix, and give carefully; 3 or 4 hours after give 1 oz. castor oil. But see No. 9.—WHITE.

11. *For Stomach Worms.* Give the emetic powder (above) and afterwards a physic ball.

12. *Thread Worms.* These are destroyed by an aloetic clyster.

MEDICINES FOR THE YELLOWS.

1. After bleeding—Calomel 2 to 3 gr., jalap 10 gr., scammony 4 gr.—WHITE.

2. Aloes 20 to 40 gr., calomel 2 to 4 gr.; afterwards the tonic alterative balls.—BLAINE. See ALTERATIVES.

MEDICINES FOR ST. VITUS'S DANCE, OR CHOREA.

1. Nitrate of silver 8 gr., ginger 20 gr., syrup to form a mass; divide into 64 pills, and give one or two morning and night.—CLATER.

2. Strychnia 1 gr., oxide of zinc 24 gr., assafoetida 24 gr., conserve of roses q. s., mix very accurately, and divide into 12, 9 or 6 balls.

3. Nitrate of silver 3 gr., carbonate of iron 2 dr., gentian 3 dr., conserve of roses to form a mass, for 12, 9, or 6 balls.—BLAINE.

MEDICINES FOR DROPSICAL COMPLAINTS.

1. Digitalis 9 gr., squill 12 gr., cream of tartar 2 dr.; mix, and divide into 9, 12, or 15 powders; one night and morning.

2. Foxglove 12 gr., antimonial powder 15 gr., nitre 1 dr.; as the last.—BLAINE.

3. Foxglove 1 gr., nitre 10 gr., ginger 8 gr.; night and morning; then iodide of potassium $\frac{1}{2}$ gr. to 1 gr.—YOUATT.

BALLS FOR ENLARGED GLANDS AND CANCEROUS DISEASES.

1. Extract of hemlock 1 to 3 gr., burnt sponge 10 to 20 gr.; make a ball, to be given once or twice a day.

2. Iodine 12 gr., powdered gum 40 gr., syrup to form a stiff mass; divide into 48 pills, and give one or two night and morning.—CLATER.

BALLS TO PROMOTE PARTURITION. Ergot of rye 20 gr.; pulverize, and add ginger 16 gr., syrup q. s.; beat into a mass, and divide into 5 pills; give one every hour, or, to a small bitch, half a one.—CLATER.

TO PREVENT RABIES, OR CANINE MADNESS.

1. Powdered leaves of the scutellaria lateriflora 40 gr., powdered belladonna $2\frac{1}{2}$ gr.; to be given night and morning for 6 weeks, gradually increasing the dose.—YOUATT.

2. Infuse a teaspoonful and half of powdered scutellaria in a quart of hot water; give half a pint morning and night, omitting the dose every third day, when a mild dose of sulphur is given.—
Dr. SPALDING.

3. Fresh leaves of the tree box 2 oz., rue 2 oz., sage $\frac{1}{2}$ oz.; chop them fine, and boil them in a pint of water till reduced to half a pint; strain, and press out the liquid; beat the herbs, and boil them in a pint of new milk to half; strain, press the herbs, and mix the liquids. For a mare, give a third of this quantity every other morning fasting; double the above quantity makes 3 doses for a horse or cow; two-thirds will suffice for a middle-sized dog, and a third for smaller dogs. It produces extreme nausea and distress, and has occasionally proved fatal to dogs.—BLAINE.

External Applications.

ASTRINGENT AND DETERGENT LOTIONS, for wounds, &c.

1. Bruised oak bark 2 oz., catechu 1 oz., water 3 pints; boil to a pint, and strain.—CLATER.

2. Tincture of myrrh and aloes 1 oz., alum $\frac{1}{2}$ oz., water 1 pint.

3. For sore feet: The Lotion No. 1, 4 oz., tincture of aloes $\frac{1}{2}$ oz., water 1 pint.

4. Nitrate of silver 10 gr., water 1 oz.: to excite sluggish wounds.

LOTIONS FOR CANKER IN THE EAR. See OINTMENTS.

1. Sulphate of zinc 20 gr., sugar of lead $\frac{1}{2}$ dr., water 4 oz.—
WHITE.

2. Sulphate of zinc 20 gr., decoction of oak bark 4 oz.—
BLAINE.

3. Nitrate of silver 1 gr., rain-water 2 oz.

4. Sugar of lead $\frac{1}{2}$ dr., rose-water 4 oz. A teaspoonful to be introduced, blood warm, into the ear.

5. *Mild Canker Lotion.* Infusion of foxglove leaves $\frac{1}{2}$ pint, Goulard's extract of lead $\frac{1}{2}$ oz. Mix. To be used as the last.—
CLATER.

6. *Strong Canker Lotion.* Goulard's extract 2 dr., white vitriol 1 dr., alum 2 dr., water $\frac{1}{2}$ pint.

7. Chloride of lime 20 to 30 gr., water $\frac{1}{2}$ pint.

LOTION TO ALLAY ITCHING. Dilute hydrocyanic acid 1 dr., water a pint.—YOUATT.

OINTMENTS FOR CANCKER OF THE EAR.

1. Equal parts of zinc ointment, and ointment of nitrate of quicksilver:—BLAINE.

2. Sublimate 3 gr., Turner's cerate 1 dr., sulphur, a scruple.

3. White vitriol, alum, each in fine powder, a drachm; lard 4 oz. To be rubbed gently into the crack.—CLATER.

4. *Stronger*. Nitrate of silver 20 gr., lard 1 oz. Rub them well together.—CLATER.

5. Levigated red precipitate $\frac{1}{2}$ oz., lard 2 oz.—MAYER.

EYE-WATERS.

1. *Astringent Wash for Weak Eyes*.—White vitriol 4 gr., spirit of wine $\frac{1}{2}$ dr., water 4 oz.—CLATER.

2. Sugar of lead 30 gr., rose-water 6 oz.—BLAINE.

3. Laudanum $\frac{1}{2}$ dr., infusion of green tea 4 oz.—M'EWEN.

4. For naturally weak eyes: Laudanum 2 dr., water 8 oz. To be used every morning.—CLATER.

OINTMENTS FOR ULCERATED EYELIDS.

1. Red precipitate, levigated, 10 grains, zinc ointment $\frac{1}{2}$ oz.

2. Ointment of nitrate of quicksilver 1 dr., sugar of lead 20 gr., spermaceti ointment 3 dr.—BLAINE.

3. Dissolve a drachm of quicksilver in a drachm and half of strong nitric acid, and mix the warm solution well with 6 oz. of melted lard.—CLATER.

OINTMENTS AND LOTIONS FOR THE MANGE.

N. B.—An alterative ball should be given daily, and a physic ball occasionally. Bleeding is also prescribed.

1. For Scabby Mange: Sulphur 4 oz., sal ammoniac $\frac{1}{2}$ oz., aloes 1 dr., Venice turpentine $\frac{1}{2}$ oz., lard 6 oz. Mix. After four applications wash well with soap and water.—BLAINE.

2. Horse turpentine and palm oil, of each $\frac{1}{2}$ lb, train oil $\frac{1}{2}$ pint. Melt together, and while cooling stir in 3 lb of flowers of sulphur.—CLATER.

3. Aloes 2 dr., hellebore $\frac{1}{2}$ oz., sulphur 4 oz., lard or train oil 6 oz.—M'EWEN.

4. Sulphate of zinc 1 dr., snuff $\frac{1}{2}$ oz., white hellebore $\frac{1}{2}$ oz., sulphur 4 oz., aloes $\frac{1}{4}$ oz., soft soap 6 oz.—BLAINE.

5. Charcoal powder 2 oz., sulphur 4 oz., salt of tartar 1 dr., Venice turpentine $\frac{1}{2}$ oz., lard 6 oz.



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3. Oil of turpentine 1 oz., old beer $\frac{1}{2}$ pint, brine $\frac{1}{2}$ pint. For strains.—MAYER.

4. Spirit of Mindererus 4 oz., Goulard water 8 oz.

ASTRINGENT LOTIONS, FOR WOUNDS, SORE FEET, ETC.—Bruised oak bark 2 oz., catechu 1 oz., water 3 pints; boil to 1 pint, and strain.—CLATER.

POWDER AND LIQUID CAUSTIC FOR WARTS.

1. Equal parts of sal ammoniac and savine, powdered together.

2. Sublimate 1 dr., muriatic acid 1 dr., spirit of wine 3 dr., water 2 dr. The warts to be touched with the liquid twice a day.—YOUATT.

FLEAS.

1. Rub the skin with powdered rosin and bran.

2. Let the dog sleep on deal shavings.

3. Scotch snuff steeped in gin.—MAYER. (This requires caution.)

CLYSTERS.

Astringent. Alum whey.

Purgative. The purgative medicine No. 8, with gruel.

For Worms: Solution of aloes 2 oz., linseed oil 1 oz. Mix.

Anodyne. Boiled starch $\frac{1}{4}$ pint, laudanum 5 to 10 drops.—CLATER.

MEDICINES FOR POULTRY, RABBITS,

ETC.

FOR ROUP, POULTRY GLANDERS, AND GARGLE IN GEESE.

1. A saturated solution of common salt. Medium dose, half a teaspoonful.

2. Antimonial powder 1 gr., with sopped bread, twice a day.—CLATER.

3. Garlic, rue, brick dust, and butter, beaten together, and a little crammed down the throat.

4. For wet roup in pigeons : Give 3 or 4 pepper corns in 3 or 4 days.—MOORE.

5. For dry roup : Give 2 or 3 pills of garlic every day.

FOR RUMP ROUP, OR INFLAMMATION OF THE OIL VESSEL.—Open the tumour and squeeze out the collected oil.

GAPES (OR PIP), FROM WORMS IN THE AIR PASSAGES.

1. Pills of sulphur, turpentine, and wheat flour.—(Veterinarian, Oct. 1840.)

2. Oil of turpentine 2 dr., linseed oil 1 oz. ; or oil of turpentine 2 dr., flour enough to make it into 20 pills. For 20 doses, one every other day for 3 or 4 times.

3. Tobacco smoke.

INFLAMMATION OF THE LUNGS AND ASTHMA.

Give a grain each of calomel and antimonial powder daily.

PURGING FLUX, OR DIARRHŒA.

1. Change the diet and give whole wheat or rice ; and if obstinate, cram down small pieces of the following mass :—Chalk, p. caraway, and syrup of poppies.—CLATER.

2. Put chalk in their water, or give forge-water.

CROPSICK, OR CONSTIPATION.

If the obstruction is in the crop endeavour to force the contents into the gullet and mouth by gentle pressure. When partially emptied give rue and butter.

When the obstruction is in the bowels, give bran and pollard, mixed with a little greasy hot liquor, to which, if necessary, a little sulphur may be added; or give a teaspoonful of the castor oil mixture.—See CHIPPING.

PIP, OR BLAIN IN THE TONGUE.

1. Wash the mouth two or three times a day with a mixture of equal parts of tincture of myrrh and water.

2. Rub the sore with common salt.

3. Solution of chloride of soda 1 dr., water 1 oz., honey of roses 3 dr.

CANKER IN PIGEONS. Apply burnt alum, mixed with honey.

SCABS IN BREAST AND BACK OF PIGEONS. Dill seed, cummin seed, fennel seed, of each 1 lb, assafoetida $1\frac{1}{2}$ oz., bay-salt $\frac{1}{4}$ lb, common salt $\frac{1}{4}$ lb; knead them with fine clay and flour. Bake it in earthen pots, and set it for the birds to peck.—MOORE.

Genuine Salt-Cat.—Sifted gravel, brickmaker's earth, rubbish of old walls, of each a peck, cummin seed $1\frac{1}{2}$ lb, baysalt $\frac{1}{4}$ lb; mix.

FOR FILANDER WORMS IN HAWKS. Aloes, iron filings, nutmeg, and honey; mix, and give a small piece as often as necessary.

CHIPPING, IN CHICKENS. Remove the chickens to a warm place. Mix 1 oz. of castor oil with $\frac{1}{4}$ oz. syrup of ginger: mix a teaspoonful of this with a little thick gruel, and force a little down several times a day, so that it shall get $\frac{1}{2}$ a teaspoonful of the mixture in the course of the day.

FOR CHILL, IN TURKEY CHICKS. Give ground malt and barley-meal in equal quantities, adding a little powdered caraway or coriander-seed.

PASTE FOR WEAK TURKEY CHICKS. Eggs boiled hard, nettles, and parsley, all chopped up, and moistened with wine or water.

MEGRIMS, OR GIDDINESS. Castor oil 1 oz., syrup of ginger $\frac{1}{4}$ oz., syrup of poppies $\frac{1}{4}$ oz.; mix with gruel, and force a little down occasionally.—CLATER.

FOR BLINDNESS. Foment with warm water, then drop a few drops of the following solution into the eyes:—laudanum 1 teaspoonful, water a teacupful.



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THIS division consists of those *medicinal compounds* which are excluded from the Pocket Formulary, as belonging rather to empirical than regular practice. It includes, in addition to those secret and patent remedies which are usually termed QUACK MEDICINES, preparations of various drugs made according to private formulæ; some favourite domestic remedies; and a few compounds, which, though not empirical, are better known by the names of individual practitioners than by any other title. The supposed composition of some of the secret remedies is given on the authority of Dr. PARIS, the Philadelphia College of Pharmacy, and others; but without vouching for their correctness.

ABERNETHY'S PILLS. The nostrum to which this distinguished surgeon's name has been used is said to consist of 2 gr. of blue pill and 3 of compound extract of colocynth.

AGUE DROPS (tasteless). A solution of arsenic, probably similar to the *liquor potassæ arsenitis* of the Pharmacopœia.

ANDERSON'S PILLS. See *Pilulæ Andersonis*, P. F. Other published formulæ are—

1. Barbadoes aloes 1 oz., jalap $\frac{1}{4}$ oz., soap 1 dr., oil of aniseed $\frac{1}{2}$ dr., tincture of aloes q. s.; mix, and divide into 4-grain pills.

2. Barbadoes aloes 5 oz., water 1 oz.; soften by the heat of a water-bath, and add powdered jalap, powdered aniseed, and ivory black, of each 1 oz., oil of aniseed 1 dr.

3. Barbadoes aloes 16 oz., black hellebore, jalap, subcarbonate of potash, of each 1 oz., oil of aniseed $\frac{1}{2}$ oz., syrup of buckthorn q. s. to form a mass. To be divided into 4-grain pills.

4. Barbadoes aloes 24 oz., soap 4 oz., colocynth 1 oz., gam-

boge 1 oz., oil of aniseed $\frac{1}{2}$ fluid oz.; mix, and divide into pills of 3 gr. each. Phil. Col. of Pharmacy.

ANODYNE NECKLACES. Beads formed of the root of henbane, and used as necklaces to allay the pain of teething.

ANTIPERTUSSIS. Dr. PARIS states that the basis of this nostrum is a salt of zinc.

ARQUEBUSADE (acid). 1. Sulphuric acid $\frac{1}{2}$ lb, vinegar and spirit of wine, of each 3 lb, clarified honey 1 lb.—SWEDIAUR.

2. Distilled vinegar, and rectified spirit, of each 10 oz., sulphuric acid, (by weight,) $1\frac{1}{2}$ oz., sugar $2\frac{1}{2}$ oz., mix. For the aromatic spirituous arquebusade water, see Arquebusade Water, under PERFUMERY; also Spiritus Vulnerarius, P. F.

AROMATIC VINEGAR. Strongest acetic acid 1 lb, camphor 1 oz.; dissolve, and add 1 oz. each of oil of lavender, oil of cloves, and oil of lemon.

APERIENT AND ANTIBILIOUS PILLS. See ANDERSON'S, BAILLIE'S, BARCLAY'S, DIXON'S, &c. Pills. The following are useful forms—

1. Compound extract of colocynth 60 gr., comp. rhubarb pill 30 gr., soap 10 gr. In 24 pills.

2. Compound extract of colocynth 2 dr., extract of rhubarb $\frac{1}{2}$ dr., compound soap pill 10 gr.; mix, and divide into 40 pills; 1, 2, or 3 for a dose.

3. Compound extract of colocynth 8 oz., soap 1 oz., scammony 2 oz., extract of rhubarb 2 oz., oil of cassia 5 dr., spirit q. s. to form a mass. Divide into 4-grain pills.

4. Blue pill, compound extract of colocynth, of each a scruple; scammony and Castile soap, of each 10 gr., oil of caraway 4 drops. Mix, and divide into 15 pills—3 at bedtime.—Sir B. BRODIE.

5. Compound extract of colocynth 4 scruples, scammony a scruple, extract of rhubarb 12 gr., soap 6 gr., oil of cinnamon 4 drops. Mix, and divide into 24 pills.—Mr. VANCE.

6. Mr. VANCE'S *Stronger Pills, with Calomel*. Compound extract of colocynth 4 scruples, scammony 2 scruples, calomel 24 gr., oil of cinnamon 6 drops, in 24 pills—1 or 2 at bedtime.

7. Compound extract of colocynth 1 dr., calomel 15 gr., emetic tartar 1 gr., oil of cassia 5 drops. In 24 pills.—Dr. J. JOHNSON.

8. Scammony 10 to 15 gr., compound extract of colocynth 2

scruples, extract of rhubarb $\frac{1}{2}$ dr., soap 10 gr., oil of caraway 5 drops. In 20 pills. One or two when required.—Sir. C. SCUDAMORE.

9. Compound rhubarb pill $\frac{1}{2}$ dr., ipecacuanha 6 gr., compound extract of colocynth 20 gr. In 12 pills. One or more at bedtime occasionally.—Dr. BARON.

10. The same as Pil. Coloc. et Hyoscyami, Ed. Ph.—Dr. HAMILTON.

11. (Strong.) Compound extract of colocynth 2 dr., aloes and myrrh pill 2 dr., calomel 1 dr.: mix, and divide into 40 pills. Two for a dose.—Dr. LYNN.

12. Compound extract of colocynth 2 scruples, ipecacuanha 6 gr., soap 10 gr., extract of henbane 30 gr. In 18 pills. Two at bedtime.—Dr. COPLAND.

13. (Without aloes.) Simple extract of colocynth 24 gr., extract of jalap 12 gr., blue pill 12 gr., ipecacuanha 4 gr., oil of peppermint 3 drops. In 12 pills.

Other formulæ will be found in the P. F. See Pilulæ Colocynthidis; Pil. Coloc. c. Oleo Crotonis; Pil. Catharticæ; Pil. Jalapæ; Pil Purgantes; &c. Those which do not contain calomel should be preferred for general and repeated use.

ATKINSON'S INFANT PRESERVATIVE. Carbonate of magnesia 6 dr., white sugar 2 oz., oil of aniseed 20 drops, spirit of sal volatile $2\frac{1}{2}$ dr., laudanum 1 dr., syrup of saffron 1 oz., caraway water to make a pint.

BACHER'S TONIC PILLS. Alkaline extract of black hellebore 2 dr., extract of myrrh 2 dr., powder of holy thistle 1 dr.; mix, and divide into 4-grain pills.

Dr. BAILLIE'S PILLS. Compound extract of colocynth $1\frac{1}{2}$ dr., extract of aloes $1\frac{1}{2}$ dr., Castile soap $\frac{1}{2}$ dr., oil of cloves 15 drops: in 38 pills.—3 at bedtime occasionally.

Dr. BAILLIE'S DINNER PILLS. Aloes 20 gr., ginger $\frac{1}{2}$ dr., ipecacuanha 8 gr., syrup q. s. Mix, and divide into 16 pills. One daily, before dinner.

BAILEY'S ITCH OINTMENT. Alum, nitre, sulphate of zinc, and cinnabar; with olive oil and lard; perfumed with oil of organum and lavender.

BALSAM. See FORD'S, HILL'S, FRIAR'S, &c.

BARCLAY'S (Rev. D.) ANTIBILIOUS PILLS. Extract of colocynth 2 dr., soap of jalap $2\frac{1}{2}$ dr., extract of guaiacum wood 3 dr.,



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and filter. The original Swedish form is this: aloes 9 dr., rhubarb, gentian, zedoary, saffron, theriaca, agaric, of each a dr., proof spirit 2 pints.

BAYNTON'S PLASTER. Simple litharge plaster 16 oz., yellow resin 6 dr.; melt together, and spread on linen or calico.

BEDDOE'S PILLS. For Gravel, &c.: Carbonate of soda, dried without heat, 1 dr., soap 4 scruples, oil of juniper 10 drops, syrup of ginger q. s. for 30 pills.

BETTON'S BRITISH OIL. Oil of turpentine 8 oz., Barbadoes tar 4 oz., oil of rosemary 4 dr.; mix.

BISCUITS, APERIENT. An ounce of powdered jalap mixed with 16 ounces of the materials for gingerbread, or other kind of cake.

BLACK DROP (Lancashire). Fine opium, cut small, 8 oz., verjuice 48 fluid oz., nutmegs, grated, $1\frac{1}{2}$ oz., saffron $\frac{1}{4}$ oz., boil together until the opium is dissolved; add sugar 4 oz., yeast 2 table-spoonfuls. Keep it near the fire for 6 or 8 weeks, then place it in the open air till it becomes a syrup; decant and filter.

BLACK DRAUGHT. 1. Infusion of senna 10 dr., sulphate of magnesia 3 dr., syrup of ginger 1 dr., aromatic spirit of ammonia 20 drops.

2. Tartrate of potash $1\frac{1}{2}$ dr., manna $\frac{1}{2}$ dr., tincture of jalap $\frac{1}{2}$ dr., aromatic spirit of ammonia 20 drops, extract of liquorice 4 gr., infusion of senna 11 dr. See *Mistura Sennæ Comp.*, *Haustus Sennæ*, and *Mistura Aperiens*, in *Pocket Formulary*, for other formulæ.

BLAINE'S DISTEMPER POWDERS. The basis of these is said to be aurum musivum (sulphuret of tin).

BLISTERING TISSUE. *Taffetas Vesicant.* Powdered cantharides is exhausted by ether, the tincture distilled to recover the principal part of the ether for the same use, and the residue heated in a water-bath till it ceases to boil. The green butyraceous oil which remains is to be melted with twice its weight of wax, and spread on waxed silk, or any convenient and adhesive material. An extract prepared by evaporating a tincture made with 4 parts of flies, 1 of strong acetic acid, and 16 of rectified spirit, is used for the same purpose.

BRANDISH'S ALKALINE SOLUTION, OR CAUSTIC ALKALI. See *Liquor Potassæ Brandishii*, P. F.

BRANDISH'S ALKALINE TINCTURE OF RHUBARB. Coarsely powdered rhubarb 1 oz., alkaline solution (BRANDISH'S) 32 fluid ounces. The original formula directs only $\frac{1}{2}$ oz. rhubarb, but as smaller doses than were given by Mr. B. are now usually prescribed, the quantity of rhubarb is here increased.

BRITISH HERB TOBACCO. The principal ingredient in this compound is dried coltfoot leaves, to which a smaller portion of thyme, wood-betony, eye-bright, and rosemary are added.

BRITISH OILS. Oil of turpentine and linseed oil, of each 8 oz.; oil of amber and oil of juniper, of each 4 oz.; true Barbadoes tar 3 oz., American petroleum (seneca oil) 1 oz.; mix. See BETTON'S BRITISH OILS, above.

BRODUM'S NERVOUS CORDIAL. Dr. PARIS says it contains the tinctures of gentian, calumbo, cardamom, and bark; with compound spirit of lavender, and wine of iron.

BROCCHIERI'S STYPTIC WATER. Pieces of fresh pine, bruised in a mortar, are distilled with twice their weight of water, till half the water is come over. After standing in a wide vessel, any floating oil is to be removed from the surface, and the water kept for use.

BURNETT'S (SIR WILLIAM) DISINFECTING FLUID. A neutral solution of zinc in commercial muriatic acid.

CAJEPUT LINIMENT. Soap liniment 7 oz., camphor $\frac{1}{2}$ oz., oil of cajeput 1 oz.

CAMPBOR LINIMENT, EXTEMPORANEOUS. Rectified spirit 17 fluid oz., strong water of ammonia $2\frac{1}{2}$ oz., camphor 2 oz., oil of lavender 50 minims.

CARRON OIL. Lime-water and linseed oil, equal quantities.

CEPHALIC SNUFF. Dried asarabacca leaves 3 parts, marjoram 1 part, lavender flowers 1 part; rub together to a powder. BOELI'S consists of 2 dr. valerian, 2 dr. of snuff, 3 drops of oil of lavender, 3 drops oil of marjoram; mix. This is said to relieve the eyes as well as the head.

CHAMBERLAINE'S PILLS. Common milk of sulphur, and vermilion. Dr. PARIS'S statement that they contain sulphate of lime would probably surprise the proprietor, if not aware that a great part of the commercial milk of sulphur contains half its weight of that substance.

CHAMOMILE DROPS. Dr. PARIS states that the nostrum sold

under this name is merely spirit flavoured with essential oil of chamomile. A strong tincture of the flowers would probably be more efficacious.

CHAMOMILE PILLS. We are not aware of the composition of NORTON'S chamomile pills. The following is a good form: watery extract of aloes 12 gr., extract of chamomile 36 gr., oil of chamomile 3 drops; make 12 pills. Two every night, or twice a day.

CHELSEA PENSIONER. Powdered rhubarb 2 dr., cream of tartar 1 oz., guaiacum 1 dr., sulphur 2 oz., 1 nutmeg grated fine, clarified honey 16 oz.; mix: take 2 spoonfuls night and morning: for chronic rheumatism, &c.

CHELTHENHAM SALTS (factitious). Sulphate of soda 16 oz., sulphate of magnesia 8 oz., muriate of soda 1 oz., sulphate of iron 8 gr.; dissolve in the smallest quantity of hot water, strain, and evaporate to dryness by a gentle heat; or dry the salts separately, and mix.

CHILBLAINS, Popular Remedies for. 1. Soap liniment 1 oz., cajeput oil $\frac{1}{4}$ oz., tincture of cantharides $\frac{1}{4}$ oz.; mix.

2. Sal ammoniac $\frac{1}{2}$ oz., vinegar 5 oz., spirit of rosemary 1 oz.; mix.

3. Oil of turpentine 1 oz., camphor $\frac{1}{4}$ oz., Goulard's extract $\frac{1}{4}$ oz.; mix.

4. Dr. GRAVES' *Preventive*. Sulphate of copper 10 gr., water 1 oz.; dissolve, brush over the parts with the lotion by means of a camel-hair pencil, and when dry apply a little simple ointment: repeat this for some evenings in succession.

5. LEJEUNE'S *Balsam*. Camphor $1\frac{1}{2}$ dr., tincture of benzoin 1 oz., iodide of potassium 3 dr., extract of lead 2 oz., a mixture of equal parts of rectified spirit and rose-water 4 oz.; mix the above with a solution of 2 oz. of soap in 4 oz. of the same diluted spirit; mix the whole, adding a few drops of any essential oil.

6. Sal enixum, alum, and sulphate of zinc, of each $\frac{1}{4}$ oz., water a pint; apply it frequently.

7. Muriatic acid $\frac{1}{2}$ oz., Friar's balsam $3\frac{1}{2}$ oz.; mix.

8. SWEDIAUR'S *Paste*. Bitter almonds 8 oz., honey 6 oz., powdered camphor $\frac{1}{2}$ oz., flour of mustard $\frac{1}{2}$ oz., burnt alum $\frac{1}{4}$ oz., olibanum $\frac{1}{4}$ oz., yolk of 3 eggs; beat together to form a paste; rub a portion of it on the part affected, moistened with water, night and morning, then wash with warm water, and dry with a cloth.



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We have inserted the above, not to encourage quackery in reference to this terrible disease, but because the druggist may be called upon to supply these remedies, and expected to know their composition.

CHIRAYTA PILLS AND MIXTURE. Dr. REECE'S *Pills*. Extract of chirayta 2 dr., dried soda 20 gr., ginger 15 gr.; mix, and divide into 36 pills. Two twice a-day. *Mixture*: Infusion of chirayta 8 oz., subcarbonate of soda a dr.; two spoonfuls 3 times a day.

CLUTTON'S FEBRIFUGE SPIRIT AND TINCTURE. *Spirit*: The original formula is—oil of sulphur by the bell, oil of vitriol, and sea salt, of each 1 oz.; rectified spirit 3 oz.; mix, digest for a month, and distil to dryness. *Tincture*: Febrifuge spirit 8 fluid ounces; angelica root, serpentary, cardamom seed, of each 1½ dr.; digest, and strain. Water acidulated with these and sweetened to the taste, forms a cooling diuretic and diaphoretic julep. Though never admitted into the pharmacopœias, these preparations are favourites with a few practitioners.

COCHRANE'S COUGH MEDICINE. An acidulated syrup of poppies.

COLLIER'S (Dr.) WINE OF QUININE. Disulphate of quinine 18 gr., citric acid 15 gr., sound orange wine 1 bottle, or 24 fluid ounces.

COLLIER'S (Dr.) CREAM OF TARAXACUM. See Cremor Taraxaci, P. F.

CONSUMPTION, Popular remedies for. 1. Rum ½ pint, linseed oil, honey, garlic (beaten to a pulp), and loaf sugar, of each 4 oz., yolks of 5 eggs; mix: a teaspoonful night and morning.

2. *Breastplate*. Dissolve 1 oz. of aloes in 12 oz. of a strong decoction of fresh rue; fold a large piece of soft muslin in 8 folds, large enough to cover the chest and part of the stomach; steep it in the solution and dry it in the shade: wear it on the chest constantly.

COUGH LINCTUS. 1. *Rose Linctus*. Confection of roses 3 oz., paregoric elixir 1½ oz., diluted sulphuric acid 1 dr. and a half; mix: a teaspoonful now and then when the cough is troublesome.

2. Dr. LATHAM'S *Cough Linctus*. DOVER'S powder ½ dr., compound powder of tragacanth 2 dr., syrup of tolu ½ oz., confection of hips, and simple oxymel, of each 1 oz.; a teaspoonful

3 or 4 times a day. For other Formulæ, see Linctus; Linctus Oleosus; Linctus Pectoralis, &c.; P. F.

COUGH LOZENGES. See Bath Lozenges, above; also Lozenges below.

CORN PLASTERS. See Emplastrum Æruginis, Pocket Formulary. Most of the advertised corn plasters contain verdigris. A few additional formulæ are subjoined.

1. Galbanum plaster 1 oz., prepared verdigris 1 scruple; melt, and mix.

2. Galbanum 1 oz., black pitch $\frac{1}{2}$ oz., simple diachylon $\frac{1}{4}$ oz., verdigris a scruple, sal ammoniac a scruple. Melt together the first three, and add the last two in fine powder.

3. Plaster of ammoniacum with quicksilver $1\frac{1}{2}$ oz., soap plaster $\frac{1}{2}$ oz., opium in fine powder $\frac{1}{2}$ dr.

MECHANICAL CORN PLASTERS.—Any suitable adhesive plaster is spread on soft leather (buckskin), which is afterwards cut to a suitable size, and a hole punched in the centre. They are sometimes spread on amadou, or on vulcanized Indian rubber.

CORN SOLVENTS. One of the preparations sold under this name is probably a strong solution of subcarbonate of potash. A powder sold for the same purpose consists of subcarbonate of potash coloured with ochre or bole. A pinch is placed on the corn, and confined by means of a piece of adhesive plaster or rag. Sir Humphry Davy's name has been given to a remedy which consists of subcarbonate of potash and salt of sorrel, similarly applied. The following is one of the advertised Corn and Bunion remedies:—Subcarbonate of soda 1 oz., finely powdered, and mixed with $\frac{1}{2}$ oz. of lard. Applied on linen rag every night: the outer skin to be pared off every 2 or 3 days. It may be varied thus:—Dried soda 4 dr., powder blue (smalts) a scruple, lard 4 dr.; mix.

CAUSTIC FOR CORNS. Tincture of iodine 4 dr., iodide of iron 12 gr., chloride of antimony 4 dr.; mix, and apply with a camel-hair brush, after paring the corn. It is said to cure in 3 times.

DAFFY'S ELIXIR. This is similar to the compound tincture of senna; but different makers have their peculiar formulæ. The following are some of them. Avoirdupois weight seems to be intended.

1. Senna leaves $3\frac{3}{4}$ lb, jalap, aniseed, caraway seed, of each 20 oz., rectified spirit 18 pints, sugar 5 lb. Infuse the senna 2 or 3 times in sufficient boiling water to yield, when strained with

pressure, 4 gallons in the whole. Add to this the tincture made with jalap and seeds, digested with the spirit for a week. Pour off the clear liquor, and add the sugar, and brandy colouring if required.

2. DICEY'S, according to GRAY. Senna 5 oz., guaiacum shavings, (some recipes add red saunders,) dried elecampane root, seed of anise, coriander, and caraway, and root of liquorice, of each $2\frac{1}{2}$ oz., stoned raisins 8 oz., proof spirit 6 lb.

3. SWINTON'S. Jalap 3 lb, senna 12 oz., coriander seed, aniseed, liquorice root, and elecampane, of each 4 oz.; spirit of wine and water, of each a gallon.

4. Small senna, 10 oz., bruised jalap, coriander seed, and aniseed; of each $2\frac{1}{2}$ oz.; proof spirit a gallon. Digest 8 days, frequently shaking, and strain. Pour on the remaining ingredients 6 oz. of boiling water in which 2 dr. of salt of tartar have been dissolved; press strongly, and add the liquid to the tincture, with 3 oz. of treacle. Some recipes add rhubarb, in the proportion of about 4 oz. to the gallon.

DALBY'S CARMINATIVE. 1. Carbonate of magnesia 1 oz., syrup of poppies 5 oz., tincture of wood-soot 1 oz., oil of caraway 25 drops, oil of peppermint 16 drops, water and spirit of wine, each $\frac{1}{2}$ oz. Mix.

2. Carbonate of magnesia 2 scruples, oil of peppermint 1 drop, oil of nutmeg 2 drops, oil of aniseed 3 drops, tincture of castor 30 drops, tincture of assafoetida 15 drops, tincture of opium 5 drops, spirit of pennyroyal 15 drops, compound tincture of cardamom 30 drops, peppermint water 2 oz. Mix.—Dr. PARIS.

3. Water 10 lb, (imperial gallon,) white sugar 32 oz., carbonate of potash $\frac{1}{2}$ oz., carbonate of magnesia 12 oz., tincture of opium 6 fluid oz., oil of peppermint, caraway, and fennel, of each 40 minims. Mix.—[Phila. Coll. of Pharmacy.]

DANDELION COFFEE. The roots, collected at the end of the year, are dried at a gentle heat and reduced to powder. Some mix coffee with it. Others *roast* the root in the manner of coffee, but probably at the expense of its medical virtues. The better way is to dry and powder it, and direct it to be mixed with coffee when used. If considered necessary to give it more colour and flavour it may be previously mixed with a sufficient quantity of roasted chicory, which should not exceed one-eighth of the whole.

DARCET'S ALKALINE LOZENGES, OR VICHY LOZENGES. Bicarbonate of soda 2 dr., refined sugar 14 oz., oil of peppermint 4



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country: Linseed oil 1 quart, rosin 2 lb, sulphur 1 lb; boil together over a slow fire; when combined remove from the fire, and add 1 pint of oil of turpentine and 50 drops of liquor of ammonia; stir well together, and bottle.

EAU DE MAGNANIMITE. A tincture of ants, with aromatics.

EATON'S STYPTIC. It is similar to that of HELVETIUS, which see below.

EAU MEDICINALE D'HUSSON. It is prepared, according to Dr. Williams, from the juice of colchicum flower with half the quantity of brandy; mix, and after standing a few days, decant into small bottles.

EAU DE COLOGNE, EAU DE MELISSE, &c. See PERFUMERY.

EAU DE JAVELLE. Dry chloride of lime 2 oz., carbonate of potash 4 oz., water 2 pints; mix the chloride with $1\frac{1}{2}$ pint of water, dissolve the potash in the remainder; mix the solutions, and filter.

EAU DE LUCE. See PERFUMERY.

EAU DE RABEL. See Acidum Sulphuricum Alcoholisatum, Pocket Formulary.

EDINBURGH OINTMENT. White hellebore powder, sal ammoniac, and lard.

ELLERMAN'S DEODORIZING FLUID. It consists chiefly of peracetate of iron.

ELIXIR DE GARUS. See Pocket Formulary.

ELIXIR LONGÆ VITÆ. Similar to BAUME DE VIE, above.

ELIXIR OF HALLER. See Elixir Acidum Halleri, Pocket Formulary.

ELIXIR PAREGORIC. See Tinctura Camphoræ Composita, Pocket Formulary.

ELIXIR OF VITRIOL. See Acidum Sulphuricum Aromaticum, Pocket Formulary. For common sale druggists frequently keep a more ready and economical preparation, of which the following is one form:—Compound tincture of cardamoms 1 lb, tincture of cinnamon 3 lb, cinnamon water 2 lb; mix, and add gradually $1\frac{1}{2}$ lb of pure sulphuric acid.

ERVALENTA. See REVALENTA.

ESSENCES. Essences of flowers will be found under PERFUMERY. Essence of Celery, and other *culinary essences*, will be found,

with allied compounds, in another place. A few concentrated infusions, and other strong preparations of drugs, not sanctioned by the Colleges, but very generally used, may be noticed here.

ESSENCE OF YELLOW BARK. Resinous extract of bark $\frac{1}{2}$ oz., sulphate of quinine 60 gr., rectified spirit 6 oz., tincture of orange peel 2 oz. For Mr. BATTLE's preparation, see *Liquor Cinchonæ*, Pocket Formulary.

ESSENCE OF CALUMBO, RHUBARB, SENNA. See *Liquor Calumbæ*, *Rhei*, *Sennæ*, Pocket Formulary.

ESSENCE OF CAMPHOR. See *Liquor Camphoræ*, Pocket Formulary.

ESSENCE OF CHAMOMILE. As a substitute for the infusion it may be made as *LIQUOR CALUMBÆ*. See *CHAMOMILE DROPS* for another preparation of this drug.

ESSENCE OF ERGOT. See *Essentia Secalis Cornuti*, Pocket Formulary.

ESSENCE OF GINGER. Unbleached Jamaica ginger, in coarse powder, 5 oz., rectified spirit a pint; digest for 8 days, and strain with pressure; or it may be made by percolation. As there is no established form, it varies in strength as prepared by different makers, and often contains cayenne pepper.

ESSENCE OF CUBEBS. Mix powdered cubebs with ether, in a well-stopped bottle; in 12 hours put the paste into a percolator, and add ether till the cubebs are nearly exhausted; distil off the ether in a water-bath, and preserve it for the same purpose. Dissolve the extract which remains in three times as much brandy. One drachm is equal to 2 drachms of the powder. A fluid extract is also made by concentrating the tincture.

ESSENCE OF MINT, PEPPERMINT, AND PENNYROYAL. The strength of these varies as prepared by different makers; some use 1 part of the essential oil to 3 of rectified spirit, but more usually, we believe, 1 part to 7. They are sometimes coloured with the leaves of the plant, or of spinach.

ESSENCE OF MUSTARD. Rectified spirit of turpentine 16 fluid oz., bruised black mustard seed 2 oz., camphor 4 oz., oil of rosemary $\frac{1}{2}$ oz., annatto to colour.

ESSENCE OF SARSAPARILLA. See *Extractum Sarzæ Fluidum*, *Liquor Sarzæ*, and *Essentia Sarsaparilla*, in Pocket Formulary. The latter is an elegant and efficacious preparation.

ESSENCES (concentrated infusions) of quassia, cascarilla, chiretta, gentian, &c., may be made as directed for *Liquor Calumbæ*. Take 8 times the quantity of ingredients directed in the pharmacopœia for one pint of infusion, and infuse them in one pint of boiling water for the time prescribed; strain with strong pressure, and again infuse the ingredients in nearly as much water as the liquor obtained is short of a pint. Strain again with pressure; mix the products, which should measure 18 or 19 oz., add 2 oz. of rectified spirit, set aside for a few days in a well-closed bottle, and filter. Some substances, as chiretta, senna, calumbo, &c., yield their active principles to cold water, which some prefer in these cases; but it is then necessary, before adding the spirit, to place the liquor (in a bottle) in a water-bath, and heat it to 180° , in order to precipitate any albumen it may contain. When cold, filter, and add the spirit.

VINOUS ESSENCES (by fermentation). Dr. B. LANE has recently proposed to produce strong and permanent solutions of vegetable medicinal substances, by fermenting concentrated infusions with sugar and yeast. Further experiments are necessary to determine the value of these preparations, and the best means of producing them; an outline of the process is therefore all that can be now given. A strong infusion of the drug, usually 4 times as strong as that of the pharmacopœia, is mixed with lump sugar, usually 3 lb to 7 *old wine* pints, and fermented with yeast, at the temperature of 70° to 80° Fahrenheit, for 10 or 20 hours. When the action subsides, the vessels are closed, and placed in a cool cellar, about 55° , till fit for bottling. Wine of senna, gentian, calumba, cascarilla, valerian, &c., are thus made. In making vinous liquor of opium, the opium is macerated in water for some days, strained through coarse canvass, and the liquor submitted to fermentation. It should be made twice the strength of the tincture. A new name will be required to distinguish these preparations from the *Vina* of the pharmacopœias, and the latter one from the *Vinum opii fermentatione paratum* of the French codex.

EXTRACTS, MEDICINAL. See Pocket Formulary.

EXTRACTS OF FLOWERS. See PERFUMERY, in this volume.

EXTRACT OF MALT. Evaporate sweet wort to the consistence of treacle. It is sold as a cough medicine.

FAIRTHORN'S (Dr.) MILD PROVISIONAL PILLS. Sulphate of potash 1 scruple, extract of aloes 2 scruples, extract of senna 1



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24 drops of oil of sassafras, and 16 of oil of aniseed, in 3 fluid oz. of spirit of wine; add 10 fluid drs. of tincture of opium, and mix the whole with 8 pints, o. m., of the syrup. This is weaker than either of the preceding, containing only 5 minims of laudanum in a fluid ounce, or 1 drop in a drachm.

5. The Philadelphia College of Pharmacy, to prevent the mischief arising from the different strength of this compound, directs it to be prepared as follows:—Dissolve $2\frac{1}{2}$ oz. of carbonate of potash in 26 pints of water, add 16 pints of treacle; heat together over a gentle fire till they simmer, remove the scum, and, when sufficiently cool, add $\frac{1}{2}$ oz. of oil of sassafras dissolved in 2 pints of rectified spirit, and 24 fluid oz. of tincture of opium previously mixed. The old wine measure is here intended. It contains about 16 minims of laudanum, or rather more than 1 gr. of opium, in each fluid ounce.

6. Sassafras 9 oz.; seeds of coriander, caraway, and anise, of each 1 oz.; infuse in 6 pints of water, simmer the mixture till reduced to 4 pints; then add 6 lb of treacle, boil the whole for a few minutes, and when cold add 3 fluid oz. of tincture of opium. Nearly the strength of No. 1.—Dr. PARIS.

GOLDEN SPIRIT OF SCURVY GRASS. It is said to be coloured with gamboge.

GOLDEN OINTMENT. Singleton's ointment, according to Dr. PARIS, contains orpiment. The ointment of nitric-oxide of mercury is also called golden ointment.

GRANVILLE'S (Dr.) COUNTER-IRRITANT LOTIONS. These consist of very strong water of ammonia (sp. gr. 872, being more than 3 times the strength of the Liquor Ammonia of the pharmacopœia); of spirit of rosemary (fresh tops of rosemary 2 lb, alcohol 8 pints: infuse 24 hours, and distil 7 pints); and spirit of camphor, containing 4 oz. camphor in 2 pints of alcohol. The *milder* consists of 4 dr. of the above ammonia, 3 of spirit of rosemary, and 1 of spirit of camphor. The *stronger*, of 5 dr. of ammonia, 2 of spirit of rosemary, and 1 of camphor. The milder is generally sufficient to produce full vesication in from 3 to 10 minutes. The stronger is seldom used except in apoplexy, and to produce cauterization.

GREGORY'S POWDER. Calcined magnesia $2\frac{1}{2}$ oz., powdered Turkey rhubarb 1 oz., powdered ginger $\frac{1}{2}$ oz. Mix. The above is Dr. GREGORY'S formula. Some recipes add powdered chamomile, —Rhubarb 1 oz., ginger $\frac{1}{4}$ oz., p. chamomile $\frac{1}{2}$ oz., magnesia 2

oz. Mix. Some druggists prepare it with the heavy carbonate of magnesia, instead of the calcined.

GREENOUGH'S TINCTURE. See TOOTH COSMETICS.

GRINDROD'S (Dr.) REMEDY FOR SPASMS. Sulphuric ether, aromatic spirit of ammonia, of each $\frac{1}{2}$ oz., acetate of morphia $\frac{1}{2}$ gr., camphor mixture 2 oz. Mix. A teaspoonful in a little water when required.

GUESTONIAN EMBROCATION. Oil of turpentine $1\frac{1}{2}$ oz., olive oil $1\frac{1}{2}$ oz., dilute sulphuric acid 3 fluid drachms.—Dr. PARIS.

HALFORD'S (Sir H.) GOUT PILLS. Acetic extract of colchicum $2\frac{1}{2}$ gr., Dover's powder $1\frac{1}{2}$ gr., compound extract of colocynth $1\frac{1}{2}$ gr., in each pill. One for a dose.

HARROWGATE SALTS (Dr. DUFFIN'S). Sulphate of magnesia 2 dr., bitartrate of potash 10 gr., sal polychrest (potassa sulphas cum sulphure, Ph. Ed.) $\frac{1}{2}$ dr.; in a pint of warm water. For another formula see Mineral Waters (factitious), and salts for producing them, below.

HELVETIUS' STYPTIC. Melt together equal parts of alum and dragon's blood; when cold, powder the compound.

HILL'S BALSAM OF HONEY. Balsam of tolu 2 oz., styrax 2 dr., opium $\frac{1}{2}$ dr., honey 8 oz., spirit of wine 32 fluid ounces.

HOULTON'S LAUDANUM. Opium $2\frac{1}{2}$ oz., distilled vinegar 32 fluid oz.; macerate 6 days with a gentle heat, and filter. Evaporate to an extract. Dissolve this in 5 fluid oz. of rectified spirit, and 35 fluid oz. of distilled water.

HOOPER'S FEMALE PILLS. These, according to Dr. PARIS, consist of RUFUS' Pill, sulphate of iron, canella, and a portion of ivory black. Mr. GRAY gives two formulæ—

1. Sulphate of iron 8 oz., water 8 oz.; dissolve and add Barbadoes aloes 40 oz., canella 6 oz., myrrh 2 oz., epoponax $\frac{1}{2}$ oz. Make a mass.

2. Sulphate of iron 2 oz., powder of aloes with canella 16 oz., mucilage of tragacanth and tincture of aloes q. s. to form a mass. Divide 60 grains into 18 pills. But, according to a recent analysis, the iron is in a peroxidized state; probably the sulphate is partially calcined. The Philadelphia College of Pharmacy gives the following formula—

3. Barbadoes aloes 8 oz., dried sulphate of iron 2 oz. $1\frac{1}{2}$ dr., extract of black hellebore 2 oz., canella 1 oz., ginger 1 oz., water q. s. to form a mass. Divide into pills of $2\frac{1}{2}$ gr. each.

HOOPING-COUGH; popular remedies for. 1. Cochineal and salt-of-tartar mixture. This appears to have been first introduced by Dr. LOBB, in 1765, and is still a favourite domestic remedy. Salt of wormwood (subcarbonate of potash) 20 gr., powdered cochineal 10 gr., hot water $\frac{1}{4}$ of a pint; triturate together, strain, and sweeten with white sugar (or sugar candy). Dose, a teaspoonful to a tablespoonful, according to the age.

2. *Fumigating Powders*. Styra^x calamita and gum benzoin, of each a scruple, placed on hot cinders or a heated shovel, in the patient's room, every day.

HUXHAM'S TINCTURE OF BARK. The Compound Tincture of Bark of the London Pharmacopœia is precisely that of HUXHAM, except that he used brandy instead of proof spirit.

ISSUE PEAS. Those in general use are unripe oranges (orange berries) turned in a lathe. The unturned berries are also used. Peas are also turned from orris root. NIEMANN gives the following composition for issue peas:—Yellow wax $1\frac{1}{2}$ oz., powdered turmeric 1 oz., powdered orris $\frac{1}{2}$ oz., Venice turpentine q. s. These are more stimulating, and are used to increase the discharge. The following, according to GRAY, will open an issue itself:—Yellow wax 6 oz., verdigris 2 oz., white hellebore 2 oz., cantharides 1 oz., orris $1\frac{1}{2}$ oz., Venice turpentine q. s.

JAMES'S POWDER. It is not known in what respect the mode of preparing this powder differs from the pharmacopœia process for antimonial powder. Dr. JAMES'S specification is vague and impracticable.

JAMES'S ANALEPTIC PILLS. Equal parts of JAMES'S powder, RUFUS' pill, and gum guaiacum, made into pills with tincture of castor. Dr. PARIS has ammoniacum in the place of guaiacum. Another formula is—Compound powder of aloes, aloes and myrrh pill, and JAMES'S powder, in equal quantities, formed into pills with tincture of castor and syrup.

JARAVE, SPANISH. Pour 4 gallons of boiling water on 2 lb. Rio Negro sarsaparilla, 8 oz. powdered guaiacum bark, 4 oz. each of rasped guaiacum wood, aniseed, and liquorice root, 2 oz. of bark of mezereon root, 2 lb of treacle, and 12 bruised cloves. Shake it thrice a day, and keep it in a warm place. When fermentation has set in it is fit for use. Dose a small tumbler full.

JESUITS' DROPS. WALKER'S. Balsam of capivi 6 oz., gum guaiacum 1 oz., Chio-turpentine $\frac{1}{2}$ oz., subcarbonate of potash



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diluted spirit by a gentle heat, mix the solutions whilst still warm, and add any perfume. Let it cool in wide-mouthed bottles, and cork.

LIQUEUR DOREE. Peruvian bark, bitter orange peel, and cinnamon, of each 4 dr., saffron 2 dr., brandy 4 quarts, Malaga wine 2 quarts; digest for 4 days, strain, and add $2\frac{1}{2}$ lb of sugar. [*Liqueurs* which are not medicated, but merely alcoholic drinks, do not come within the plan of this work.]

LISTON'S ISINGLASS PLASTER. Soak 1 oz., of isinglass in 2 oz. of water, and dissolve it in 2 oz. of rectified spirit and $1\frac{1}{2}$ oz. of water, by the heat of a water-bath. Brush it over the surface of oiled silk, properly stretched. An improved kind is made by brushing one side of the peritoneal membrane of the cæcum of the ox (prepared in the same manner as gold-beaters' skin) with the same solution, and the other side with drying oil.

LONG'S (ST. JOHN) LINIMENT. See *Linimentum Terebinthinæ Aceticum*, Pocket Formulary.

LOZENGES. See CHING'S LOZENGES, DAWSON'S, DARCET'S.

The medicated lozenges which are sanctioned by the Pharmacopœias, and employed in practice, will be found under *Trochisci* and *Pasta*, in the Pocket Formulary. A few other formulæ are here added:—

Absorbent Lozenges. Precipitated chalk 3 oz., heavy carbonate of magnesia 2 oz., nutmeg in fine powder 1 dr., sugar 6 oz., powdered gum 1 oz., water q. s. to form a stiff paste, which divide by a punch into lozenges of the usual size, and dry them gradually in a warm room.

Aperient Lozenges. Calomel 60 gr., pure scammony 80 gr., jalap 40 gr. (or jalapine 4 gr.), ginger 8 gr., cinnamon 4 gr., mucilage of tragacanth q. s. to form a stiff paste; mix the other powders accurately together, then, with the sugar, lastly add the mucilage, and beat the whole into a uniform mass, and divide it into 40 equal lozenges. Each contains $1\frac{1}{2}$ gr. calomel, 2 of scammony, and 1 of jalap.

Black Currant Paste. Soften 12 lb of picked black currants by heating them in a water-bath, in a covered earthen vessel, pulp through a hair-sieve, and evaporate to a paste, incorporating with it 1 lb powdered sugar; roll it out into a sheet of proper thickness. Mr. BARTLETT gives the following formula:—3 lb of powdered sugar, 3 lb of extract of black currants (the inspissated juice), 1 oz. tartaric acid, 6 oz., of powdered gum; mixed, rolled

out, and cut, when dry, with a large pair of scissors into square pieces.

Black Currant and Ipecacuanha Lozenges. Black currant paste (as above) 8 oz., ipecacuanha 30 gr., tragacanth 90 gr.; in 240 lozenges.

Cough Lozenges (with Lactucarium). Powdered lactucarium 2 dr., extract of liquorice-root 12 dr., ipecacuanha 30 gr., powdered squill 15 gr., refined sugar 6 oz., mucilage of tragacanth q. s.; mix, and divide into 240 equal lozenges. Each contains $\frac{1}{2}$ gr. lactucarium, $\frac{1}{8}$ gr. of ipecacuanha, $\frac{1}{16}$ gr. of squill.

For other Cough Lozenges, see *Trochisci Anticatarrhales, Glycyrrhizæ et Opii, Lactucæ, Morphizæ et Ipecac., Opii, Papaveris, Pectorales, Scillæ, Tolutani, &c., Pocket Formulary.*

Digestive or Live-long Candy. 1. Powdered rhubarb 60 gr., heavy magnesia 1 oz., bicarbonate of soda 1 dr., finely-powdered ginger 20 gr., cinnamon powder 15 gr., powdered white sugar 2 oz., mucilage of tragacanth q. s.; beat together, and divide into parallelograms of 20 gr. each.

2. *Caraway Candy.* Rhubarb 60 gr., powdered caraway 60 gr., oil of caraway 10 drops, ginger and cinnamon, each 15 gr., magnesia 6 dr., carbonate of soda 1 dr., sugar 2 oz., mucilage as the last.

Edinburgh Lozenges. Extract of poppies 2 oz., powdered sugar 8 oz., powdered tragacanth 4 oz., water q. s.

Fruit Lozenges. Black currant paste 8 oz., red currant paste (or the juice evaporated to a paste) 4 oz., syrup of raspberries 4 oz.; soften by a gentle heat, and beat in a warm mortar with 2 lb of powdered sugar, and a drachm of powdered citric acid, and, if required, a little mucilage of gum tragacanth.

LYNCH'S EMBROCATION. Olive oil coloured with alkanet, perfumed, and rendered stimulating by essential oils.

MADDEN'S ESSENCE. A strongly-acidulated infusion of roses.

MAHOMED'S ELECTUARY. Grocers' currants 1 oz., powdered senna $\frac{1}{2}$ oz., powdered ginger 30 gr., oil of croton 1 drop, syrup of roses sufficient to make an electuary; two teaspoonfuls every morning.—**BATEMAN.**

MARSHALL'S CERATE. Palm oil 5 oz., calomel 1 oz., acetate of lead $\frac{1}{2}$ oz., ointment of nitrate of mercury 2 oz.; mix.—**Dr. PARIS.**

MARSDEN'S ANTISCORBUTIC DROPS, Morton's, Perry's, Lignum's, and other antiscorbutic drops, contain corrosive sublimate.—**Dr. PARIS.**

MATHIEU'S VERMIFUGE. Tin filings 1 oz., fern root $\frac{3}{4}$ oz., worm seed $\frac{1}{2}$ oz., resinous extract of jalap 1 dr., sulphate of potash 1 dr., honey to form an electuary. A teaspoonful every 3 hours for 2 days: then substitute the following—jalap 2 scruples, sulphate of potash 2 scruples, scammony 1 scruple, gamboge 10 gr.; made into an electuary with honey, and given in the same dose.

MINERAL WATERS (FACTITIOUS), AND SALTS FOR PRODUCING THEM. See below.

MORRISON'S ADHESIVE PASTE, for ring-worm. See Pasta Adhesiva, Pocket Formulary.

MORRISON'S PILLS, No. 1, consist of equal parts of aloes and cream of tartar. No. 2, consist of 2 parts of gamboge, 3 of aloes 1 of colocynth, and 4 of cream of tartar; made into pills with syrup.

MAGNESIA, FLUID. A solution of carbonate of magnesia in water by means of carbonic acid gas, forced into it by pressure. MURRAY'S and DINNEFORD'S should contain from 12 to 15 gr. of the carbonate in each fluid oz. See Liquor Magnesiae Carbonatis, Pocket Formulary.

MURRAY'S (Sir J.) FLUID CAMPHOR. Each ounce contains 3 gr. of camphor, and 6 gr. of carbonate of magnesia, dissolved by carbonic acid, as the last.

MOXON'S EFFERVESCING MAGNESIAN APERIENT. The composition, we believe, has not been made public, but the following have been proposed as imitations:—

1. Heavy carbonate of magnesia 2 lb, bicarbonate of soda 1 lb, tartaric acid $1\frac{1}{2}$ lb, refined sugar $\frac{1}{2}$ lb, essence of lemon 40 minims; the powders to be all separately dried at a moderate temperature.

2. Sulphate of magnesia 1 lb, bicarbonate of soda 1 lb, tartaric acid $\frac{1}{2}$ lb; the ingredients to be well dried separately, at a moderate temperature. (Pharmaceutical Journal.)

3. Carbonate of magnesia 1 lb, sulphate of magnesia 2 lb, bicarbonate of soda 2 lb, potassio-tartrate of soda 2 lb, tartaric acid 2 lb; to be separately dried, and mixed.—M. DURANDE.

MONTEIN'S BAREGE BALLS (for Sulphur Baths). Sulphate of lime 8 oz., common salt 2 oz., Flanders glue 1 oz., extract of soapwort 1 oz.; make into 8 balls; to be kept from the air. M. MENIERE recommends,—extract of soapwort $\frac{1}{2}$ oz., water 6 oz., lime in powder 4 oz., sulphur 3 oz., gelatine 1 oz.; dissolve the



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cantharides and 1 dr. euphorbium to be digested in 5 oz. of highly rectified spirit; filter, and add $1\frac{1}{2}$ Venice turpentine previously liquefied with 2 oz. of resin. To be spread on the paper while warm.

PELLETIER'S ÆTHEREAL OPODELDOC. See Balsamum Aceticum Camphoratum, Pocket Formulary.

PETER'S PILLS. Aloes, jalap, gamboge, and scammony, of each 2 dr.; calomel 1 dr.

PILES, popular remedies for. Dr. WARDLEWORTH'S Pills contain $3\frac{1}{2}$ gr. of pitch in each; 2 every night. For ELECTUARIES for piles, see Confectio Resinæ, Confectio Sulphuris Composita, Electuarium Hæmorrhoidale, Electuarium Sulphuris Compositum, in Pocket Formulary. See also WARD'S PASTE, below. For PILE OINTMENTS, see Unguentum Gallæ, Unguentum Gallæ Compositum, Unguentum Gallæ et Opii, Unguentum Hæmorrhoidale, Pocket Formulary. Sir H. HALFORD'S Pile Ointment consists of equal parts of citrine ointment and oil of almonds triturated in a glass mortar till perfectly smooth. Mr. WARE'S is—Powdered nut-gall 2 dr., camphor 1 dr., melted wax 1 oz., tincture of opium 2 dr. Mix.

PILLS. See proprietors' names in alphabetical order. A great variety of formulæ for pills of every kind will be found in the Pocket Formulary.

PILLS, TO COAT, WITH GELATINE	} See Pilulæ, Pocket Formulary.
——, TO SILVER	

M. DURDEN recommends collodion as a covering for pills; others, a solution of gutta percha in chloroform; but their ready solubility in the stomach may be questioned.

PLUNKET'S OINTMENT FOR CANCER. White arsenic, sulphur, powdered flowers of lesser spearwort and stinking chamomile, levigated together, and formed into a paste with white of egg.

POMMADE DIVINE. Beef marrow 3lb; put it into an earthen vessel, and cover it with cold water, and change the water daily for a few days, using rose-water the last day. Pour off and press out the water; add to the marrow 4 oz. each of styrax, benzoin, and Chio turpentine, 1 oz. of orris powder, $\frac{1}{2}$ oz. each of powdered cinnamon, cloves, and nutmeg. Set the vessel in hot water, and keep the water boiling for 3 hours; then strain. For Pomades for the Hair, see HAIR COSMETICS, after PERFUMERY.

PORTLAND (Duke of) GOUT POWDER. Equal quantities of the roots of gentian and birthwort, tops of germander, ground pine, and lesser centaury: all to be powdered and mixed together.

QUININE AND CAMPHOR PILLS. See *Pilulæ Quinæ et Camphoræ*, Pocket Formulary.

RADCLIFFE'S ELIXIR. Aloes 6 dr., cinnamon, zedoary, and cochineal, each $\frac{1}{2}$ dr., rhubarb 1 dr., syrup of buckthorn 2 oz., proof spirit 16 fluid oz., water 5 fluid oz.—Dr. PARIS. According to GRAY, it contains jalap, scammony, and senna.

RASPAIL'S CAMPHOR CIGARETTES. These are merely camphor enclosed in a tube, (a quill or paper tube may be used,) confined by blotting paper, and used cold. Another kind of camphorated cigars is made by saturating dried coltsfoot or other leaves with a strong solution of camphor, and rolling them in the form of cigars.

REECE'S CHIRAYTA PILLS. Extract of chirayta 2 dr., dried carbonate of soda 1 scruple, p. ginger 15 gr. Mix, and divide into 36 pills. Two twice a day.

REGNAULD'S PECTORAL PASTE. Pectoral flowers (mullein, coltsfoot, catsfoot, and red poppies mixed) 16 oz., boiling water 3 lb; infuse, strain, and add to the clear liquor 6 lb of clean gum Arabic; dissolve by a gentle heat, and evaporate to a proper consistence, adding towards the end 6 dr. of tincture of balsam of tolu.

REYNOLD'S GOUT SPECIFIC. It is supposed to be a wine of colchicum.

REVELENTA. It is said to be prepared from the seeds of the *ervum lens*.

ROBINSON'S (Dr.) STIMULATING PURGATIVE PILLS. Watery extract of aloes 1 dr., balsam of Peru 10 gr., oil caraway 10 drops, scammony $\frac{1}{2}$ dr. Mix, and divide into 20 pills: 2 or 3 when required.

ROCHE'S EMBROCATION. Olive oil, with half its weight of oil of cloves and oil of amber.—Dr. PARIS.

ROUSSEAU'S DROPS. See *Vinum Opii Fermentatione Paratum*, P. F.

RYAN'S ESSENCE OF COLTSFOOT. Tincture of balsam of tolu 2 oz., compound tincture of benzoin 2 oz., spirit of wine 4 oz.—GRAY.

RYMER'S TINCTURE. A tincture of capsicum, camphor, cardamom, rhubarb, aloes, and castor, in proof spirit, with a small quantity of sulphuric acid.—Dr. PARIS. (The inventor states that it is impregnated with an aërial acid.)

SALTS, MINERAL. See **WATERS, FACTITIOUS MINERAL**, below.

SCOTT'S PILLS. See **ANDERSON'S PILLS**.

SCOTT'S PLASTER. It appears to be a carefully prepared Emp. Plumbi, spread on calico. If it contains resin, the quantity is probably less than in Emp. Resinæ.

SEIDLITZ POWDERS (in separate powders). One contains 2 dr. of powdered Rochelle salts, and 40 gr. of bicarbonate of soda; the other powder is p. tartaric acid 30 to 35 gr. In the latter case the acid is slightly in excess.

SEIDLITZ POWDER, in one bottle. *Note.*—The powders are all to be thoroughly dried separately, at a gentle heat—the potassio-tartrate of soda at a temperature not exceeding 110° F.; the others not higher than 120°. Take of potassio-tartrate of soda, dried, 15 oz.; tartaric acid, dried, 5 oz. (or citric acid 4¾ oz.), dry bicarbonate of soda 6 oz. Mix, and keep in a well-closed bottle. Dose, 3 dr. The above have no resemblance to the natural water of Seidlitz. See **WATERS (Mineral)** below.

SODA POWDERS. These usually contain in one paper 30 gr. of bicarbonate of soda, and in the other 25 gr. of tartaric acid (or 24 of citric acid). For sherbet, lemonade, and ginger-beer powders, see **BEVERAGES**, in another division of this work.

SMELLOME'S EYE-OINTMENT. Prepared verdigris 30 gr., levigate with 30 drops of olive oil, and add 1 oz. of resinous cerate.

SPEEDIMAN'S PILLS. Rhubarb, aloes, myrrh, and extract of chamomile, of each 60 gr.; oil of chamomile 12 drops. Mix, and divide into 4-grain pills.

SOLOMON'S BALM OF GILEAD. An aromatic tincture, of which cardamoms form a leading ingredient, made with brandy.—Dr. PARIS. It is thought to contain cantharides.

SOLOMON'S ANTI-IMPETIGINES is said to be a solution of corrosive sublimate.

SMITH'S (Dr. HUGH) STOMACHIC PILLS. Aloes, rhubarb, aromatic powder, gum sagapenum, of each 1 dr.; oil of mint and oil of cloves, each 10 drops; balsam of Peru q. s. In 5-grain pills; 2 to 4 every night.



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orange-peel 24 oz., calamus aromaticus 4 oz., rectified spirit and water, of each 6 gallons old measure.

2. Gentian 4 lb, orange-peel 2 lb, cochineal 2 dr., cardamom seed 1 oz., rectified spirit 8 gallons.

STOREY'S WORM CAKES. Calomel 1 scruple, jalap 1 dr., ginger 2 scruples, sugar 1 oz., cinnabar to colour, syrup q. s. to form 10 cakes.

STRUVE'S LOTION FOR HOOPING-COUGH. Emetic tartar 60 gr., water 2 oz., tincture of cantharides 1 oz.

SYDENHAM'S LIQUID LAUDANUM. See Vinum Opii, Pocket Formulary.

TANJORE PILLS. See Pilulæ Arsenici, Pocket Formulary.

TINCTURE OF QUININE (AROMATIC). See Tinct. Quinæ Sulphatis Acida, Pocket Formulary.

TURLINGTON'S BALSAM. Rectified spirit 8 old wine pints, benzoin 12 oz., liquid styrax 4 oz., socotrine aloes 1 oz., balsam of Peru 2 oz., myrrh 1 oz., angelica root $\frac{1}{2}$ oz., balsam of tolu 4 oz., extract of liquorice 4 oz.; make a tincture.—**PHIL. COLL. OF PHARM.** The certified copy of the original recipe is more complex, containing three times as many ingredients.

VALANGIN'S SOLUTION OF SOLVENT MINERAL. Arsenious acid (which has been mixed with muriate of soda, and resublimed) 30 gr., hydrochloric acid 90 gr., distilled water 1 oz.; dissolve, and add distilled water to make up 30 fluid oz. Dose, from 3 drops, increased very gradually to 10.

VENLO'S VEGETABLE SYRUP. It is supposed to be a decoction of burdock, mint, dandelion, senna, &c., boiled with sugar, and a small portion of solution of sublimate added.

WARBURG'S FEVER TINCTURE. M. FUCHS gives the following recipe for imitating this secret remedy:—Hepatic aloes and zedoary root, of each 2 dr., angelica root and camphor, of each 2 gr., saffron 3 gr., proof spirit 3 oz. In 25 dr. of the filtered tincture dissolve 30 gr. of sulphate of quinine. Put it up in 5-drachm bottles.

WARD'S PASTE. The same as Confectio Piperis Nigri of the London Pharmacopœia.

WARD'S WHITE DROPS. To 16 oz. of strong nitric acid add gradually 7 oz. of subcarbonate of ammonia; let it stand 2 or 3 hours, then put it into a bolt-head which it will only half fill,

and to each 16 oz. put 4 oz. of pure quicksilver, and digest in a sand heat till the solution is complete; then gently increase the heat, and add a little more quicksilver at intervals till it will dissolve no more; then evaporate it in a glass or earthen dish placed in sand, till a pellicle appears, and set it aside to crystallize. Dissolve 1 lb of the drained salt in 3 lb of rose-water by the heat of a sand-bath.

WARD'S ESSENCE FOR THE HEADACHE. Spirit of wine 2 lb, roche alum, in fine powder, 2 oz., camphor 4 oz., essence of lemon $\frac{1}{2}$ oz., strong water of ammonia 4 oz.; stop the bottle close, and shake it daily for 3 or 4 days.

WARD'S RED PILL. Glass of antimony levigated with a fourth of its weight of dragon's blood, made into a mass with wine, and divided into pills of a grain and a half each; one pill is a dose, on an empty stomach. In foulness of the stomach and bowels, and obstinate rheumatic disorders.

WARD'S DROPSY PURGING POWDER. Jalap 1 lb, cream of tartar 1 lb, red bole 1 oz.; mix; dose from 30 to 40 gr. in broth or warm beer, repeated for 2 or 3 days, or oftener if necessary.

WARD'S SWEATING POWDER. Similar to Dover's Powder.

WARNER'S CORDIAL. Rhubarb 1 oz., senna $\frac{1}{2}$ oz., saffron 1 dr., liquorice $\frac{1}{2}$ oz., raisins 1 lb, brandy 3 pints; digest for a week, and strain.

WHITEHEAD'S ESSENCE OF MUSTARD. See ESSENCE OF MUSTARD for an imitation of it.

WHITEHEAD'S MUSTARD PILLS. Dr. PARIS says they consist of balsam of tolu and resin.

WHITELAW'S ETHEREAL TINCTURE OF LOBELIA. See Tinctura Lobeliæ Etherea, Pocket Formulary.

WILSON'S GOUT TINCTURE. A vinous infusion of colchicum.

WORM LOZENGES. See CHING'S LOZENGES, and STOREY'S WORM CAKES, above; see also Trochisci Anthelmintici, and Trochisci Santoninæ, Pocket Formulary.

YOUNG'S PURGING DRINK. Carbonate of soda, in crystals, $2\frac{1}{2}$ dr., cream of tartar in crystals 3 dr., water 8 oz.; put it into a stone bottle, and secure the cork.

FACTITIOUS MINERAL WATERS,

AND

Salts for Producing them.

AERATED OR CARBONATED WATERS.

THESE require the aid of the powerful machine employed by soda-water manufacturers, to charge the waters strongly with carbonic acid gas. The gas is made from whiting and diluted sulphuric acid, and is forced by a pump into the watery solution. Sometimes the gas is produced by the mutual actions of the ingredients introduced into the bottle of water, which must be instantly closed: but this method is found practically inconvenient, and only adopted in the absence of proper apparatus. The quantity of gas introduced is directed, in the French and American pharmacopœias, in most cases, to be 5 times the volume of liquid. For chalybeate and sulphuretted waters, the water should be previously deprived of the air it naturally contains, by boiling it, and allowing it to cool in a closed vessel.

BAKEWELL'S apparatus will be found very convenient for making small quantities of aerated waters; and the syphon bottles suitable for holding them.

SIMPLE AERATED WATER. Carbonic acid gas water. Water charged with 5 or more volumes of carbonic acid gas, as above.

ALKALINE AERATED WATERS. Aerated soda and potash waters should be made by dissolving a drachm of the carbonated alkali in each pint of water, and charging it strongly with carbonic acid gas. But the soda water of the shops generally contains but little soda.



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muriate of soda 10 gr., sulphate of magnesia 3 gr., muriate of lime 5 gr., carbonated water a pint. (Or it may be made without apparatus thus:—Bicarbonate of soda 30 gr., muriate of soda 8 gr., sulphate of magnesia 3 gr., water a pint; dissolve, and add a scruple of dry bisulphate of soda, and close the bottle immediately.)

EMS. Carbonate of soda 2 scruples, sulphate of potash 1 gr., sulphate of magnesia 5 gr., muriate of soda, 10 gr., muriate of lime 3 gr., carbonated water a pint.

MARIENBAD. Carbonate of soda 2 scruples, sulphate of soda 96 gr., sulphate of magnesia 8 gr., muriate of soda 15 gr., muriate of lime 10 gr., carbonated water a pint. (Or, Bicarbonate of soda 50 gr., sulphate of soda 1 dr., muriate of soda 15 gr., sulphate of magnesia 10 gr.; dissolve, in a pint of water, add 25 gr. of dry bisulphate of soda, and cork immediately.)

MARIENBAD PURGING SALTS. Bicarbonate of soda 5 oz., dried sulphate of soda 12 oz., dry muriate of soda $1\frac{1}{2}$ oz., sulphate of magnesia, dried, 2 oz., dried bisulphate of soda $2\frac{1}{2}$ oz. Mix the salts, previously dried, separately, and keep them carefully from the air.

PULLNA WATER. Sulphate of soda 4 dr., sulphate of magnesia 4 dr., muriate of lime 15 gr., muriate of magnesia (dry) a scruple, muriate of soda a scruple, bicarbonate of soda 10 gr., water slightly carbonated, a pint. One of the most active of the purgative saline waters.

PULLNA WATER, WITHOUT THE MACHINE. Bicarbonate of soda 50 gr., sulphate of magnesia 4 dr., sulphate of soda 3 dr, muriate of soda a scruple: dissolve in a pint of water; add, lastly, 2 scruples of bisulphate of soda, and close the bottle immediately.

SALTS FOR MAKING PULLNA WATER. Dry bicarbonate of soda 1 oz., exsiccated sulphate of soda 2 oz., exsiccated sulphate of magnesia $1\frac{1}{2}$ oz., dry muriate of soda 2 dr., dry tartaric acid $\frac{3}{4}$ oz. (or rather, dry bisulphate of soda 1 oz.)

SEIDLITZ WATER. This is usually imitated by strongly aerating a solution of 2 dr. of sulphate of magnesia in a pint of water. It is also made with 4, 6, and 8 dr. of the salts to a pint of water.

SEIDLITZ POWDER. The common seidlitz powders (as given p. 164) do not resemble the water. A closer imitation would be

made by using effloresced sulphate of magnesia instead of the potassio-tartrate of soda. A still more exact compound would be the following:—Effloresced sulphate of magnesia 2 oz., bicarbonate of soda $\frac{1}{2}$ oz., dry bisulphate of soda $\frac{1}{2}$ oz.; mix and keep in a close bottle.

SEIDSCHUTZ WATER. Sulphate of magnesia 3 dr., muriate of lime, nitrate of lime, bicarbonate of soda, of each 8 gr., sulphate of potash 5 gr., aerated water 1 pint.

SELTZER WATER. Muriate of lime and muriate of magnesia, of each 4 gr.; dissolve these in a small quantity of water, and add it to a similar solution of 8 gr. bicarbonate of soda, 20 gr. muriate of soda, and 2 gr. of phosphate of soda; mix and add a solution of $\frac{1}{4}$ of a gr. of sulphate of iron; put the mixed solution into a 20-oz. bottle, and fill up with aerated water. But much of the Seltzer water sold is said to be nothing more than simple carbonated water. An imitation of Seltzer water is also made by putting into a stone Seltzer bottle, filled with water, 2 dr. bicarbonate of soda, and 2 dr. of citric acid in crystals, corking the bottle immediately. Sodaic powders are sometimes sold as Seltzer powders.

VICHY WATER. Bicarbonate of soda $1\frac{1}{2}$ dr., muriate of soda 2 gr., sulphate of soda 8 gr., sulphate of magnesia 3 gr., tincture of muriate of iron 2 drops, aerated water a pint.

VICHY SALTS. Bicarbonate of soda $1\frac{1}{2}$ oz., muriate of soda 15 gr., effloresced sulphate of soda 1 dr., effloresced sulphate of magnesia 1 scruple, dry tartarized sulphate of iron 1 gr., dry tartaric acid 1 oz. (or dry bisulphate of soda); mix the powders, previously dried, and keep them in a close bottle.

SALINE WATERS, NOT CARBONATED.

SEA WATER. Muriate of soda 4 oz., sulphate of soda 2 oz., muriate of lime $\frac{1}{4}$ oz., muriate of magnesia 1 oz., iodide of potassium 4 gr., bromide of potassium, 2 gr., water a gallon. A common substitute for sea water as a bath is made by dissolving 5 or 6 oz. of common salt in a gallon of water.

The following mixture of dry salts may be kept for the immediate production of a good imitation of sea water. Muriate of soda (that obtained from evaporating sea water and not recrystallized, in preference,) 85 oz.; effloresced sulphate of soda 15 oz., dry muriate of lime 4 oz., dry muriate of magnesia 16 oz., iodide

of potassium 2 dr., bromide of potassium 1 gr. Mix, and keep dry. Put 5 or 6 oz. to a gallon of water.

BALARUC WATER. Muriate of soda 1 oz., muriate of lime 1 oz., muriate of magnesia $\frac{1}{2}$ oz., sulphate of soda 3 dr., bicarbonate of soda 2 dr., bromide of potassium 1 gr., water a gallon. Chiefly used for baths.

SULPHURETTED WATERS.

SIMPLE SULPHURETTED WATER. Pass sulphuretted hydrogen into cold water (previously deprived of air by boiling, and cooled in a closed vessel), till it ceases to be absorbed.

AIX LA CHAPELLE WATER. Bicarbonate of soda 12 gr., muriate of soda 25 gr., muriate of lime 3 gr., sulphate of soda 8 gr., simple sulphuretted water $2\frac{1}{2}$ oz., water slightly carbonated $17\frac{1}{2}$ oz.

BAREGES WATER. (Cauterets, Bagnères de Luchon, Bonnes, St. Sauveur, may be made the same.) Crystallized hydrosulphate of soda (see Sodæ Hydrosulphas, P. F.), crystallized carbonate of soda, and muriate of soda, of each $2\frac{1}{2}$ gr., water (freed from air) a pint. A stronger solution for adding to baths is thus made:—Crystallized hydrosulphate of soda, crystallized carbonate of soda, and muriate of soda, of each 2 oz., water 10 oz. Dissolve. To be added to a common bath at the time of using.

NAPLES WATER. Crystallized carbonate of soda 15 gr., fluid magnesia 1 oz., simple sulphuretted water 2 oz., aerated water 16 oz. Introduce the sulphuretted water into the bottle last.

HARROWGATE WATER. Muriate of soda 100 gr., muriate of lime 10 gr., muriate of magnesia 6 gr., bicarbonate of soda 2 gr., water $18\frac{1}{2}$ oz. Dissolve, and add simple sulphuretted water $1\frac{1}{2}$ oz.

HARROWGATE SALTS. See Dr. DUFFIN'S, above, p. 155.

CHALYBEATE WATERS.

SIMPLE CHALYBEATE WATER. Water freed from air by boiling 1 pint, sulphate of iron $\frac{1}{2}$ gr.

AERATED CHALYBEATE WATER. Sulphate of iron 1 gr., carbonate of soda 4 gr., water, deprived of air and charged with



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PERFUMERY.

DISTILLED WATERS.

THE simple distilled waters (without spirit) used in perfumery are chiefly those of rose, elder, and orange-flower, cinnamon, &c. The points requisite to be attended to are, that the flowers be fresh, gathered after the sun has risen and the dew exhaled, and that sufficient water be used to prevent the flowers being burned, but not much more than is sufficient for this purpose. The quantities usually directed are—Roses 15 lb, water 40 lb; distil 15 lb for *single*, and the same water with 15 lb of fresh roses, for *double* rose-water.

Orange-flowers 12 lb, water 36 lb; distil 24 lb for *double* orange-flower water; this with an equal quantity of distilled water forms the *single*. The flowers should not be put into the still till the water nearly boils.

ELDER-FLOWER WATER, ACACIA-FLOWER WATER, and BEAN-FLOWER WATER, are prepared in the same manner as rose-water.

CINNAMON WATER. A gallon should be distilled from 20 oz. of fine cinnamon (bruised) and 2 gallons of water.

STRAWBERRY WATER. Bruised strawberries 4 lb, water a gallon; macerate for 12 hours, and distil 6 pints.

The waters prepared without distillation (by diffusing the essential oils through water, after mixing them with chalk or magnesia, or dissolving them in spirit,) are seldom so proper for perfumery purposes as those distilled from the flowers, &c. Rose water, made from the otto (8 drops of otto, previously mixed with a drachm of precipitated chalk, diffused in a quart of distilled water, and afterwards distilled or simply filtered), is to most persons very agreeable; but that distilled from the flower should also be kept, as it is by others greatly preferred.

MUSK WATER, VIOLET WATER, JESSAMINE WATER, and some others, are made by mixing the *spirituous essences* with distilled or pure soft water. A usual proportion is 2 drachms to a pint.

SPIRITUOUS WATERS.

THE spirit employed in perfumery should be selected with great care; it should be perfectly free from grain-oil and other impurities. It should be 60 over-proof, unless otherwise directed.

SIMPLE SPIRIT OF LAVENDER. Lavender flower (free from stalks) 2 lb, rectified spirit 8 pints, water 16 pints; distil 8 pints.

ODORIFEROUS LAVENDER WATER. 1. Rectified spirit 5 gallons, essential oil of lavender 20 oz., oil of bergamot 5 oz., essence of ambergris $\frac{1}{2}$ oz. Sometimes 4 oz. of orris-root are digested with the above.—Mr. BRANDE.

2. Oil of lavender, oil of bergamot, of each 3 dr.; otto of roses and oil of cloves, of each 6 drops; musk 2 gr., true oil of rosemary 1 dr., honey 1 oz., benzoic acid 2 scruples; rectified spirit a pint, distilled water 3 oz.—Dr. PEREIRA.

3. Oil of lavender 2 oz., essence of ambergris 1 oz., eau de Cologne a pint, rectified spirit a quart.

4. Oil of lavender 4 dr.; essence of bergamot, essence of lemon or cedrat, and otto of roses, of each 20 minims; essence of ambergris 1 dr., rectified spirit 3 pints, orange-flower water 4 oz., rose (or distilled) water 12 oz., burnt alum 20 gr. Agitate frequently, then let it stand in a cool place for some days before filtering.

5. Oil of lavender 3 dr., oil of bergamot 20 drops, neroli 6 drops, otto 6 to 12 drops, essence of cedrat 8 or 10 drops, essence of musk 20 drops, rectified spirit 28 fluid oz., distilled (or orange-flower) water 4 oz.

6. *Eau de Lavande au Millefleurs.* Oil of lavender 4 dr.; essence of bergamot, essence of lemon, otto of roses, of each 12 drops; essence of millefleurs 3 dr., essence of ambergris 1 dr., rectified spirit a pint and half.

Note. The oil of lavender in the above should be the finest English oil: that which first comes over is said to be the most fragrant. It should be kept for 12 months before using, either alone or mixed with an equal quantity of alcohol. Some makers prefer a mixture of old and new oil. The lavender water improves by age.

EAU DE COLOGNE—COLOGNE WATER. 1. English oil of lavender, oil of bergamot, oil of lemon, oil of neroli, of each 1 oz.; oil of cinnamon $\frac{1}{2}$ oz.; spirit of rosemary, and spirit of balm (*eau des Carmes*) of each 15 oz.; highly rectified spirit $7\frac{1}{2}$ pints. Let them stand together for 14 days, then distil in a water-bath.—Dr. GRANVILLE.

2. Oil of bergamot, citron, and lemon, of each 3 oz.; oils of rosemary, neroli, and lavender, of each $1\frac{1}{2}$ oz.; oil of cinnamon 6 dr., rectified spirit 24 pints; compound spirit of balm (*eau des Carmes*, below) 3 pints, spirit of rosemary 2 pints. Mix, and after standing a week, distil 24 pints.—FRENCH PHARMACOPŒIA.

3. Essential oils of bergamot, of lemon, of neroli, of orange-peel, and of rosemary, each 12 drops; cardamom seeds a dr.; rectified spirit a pint. It improves by age.—TROMMSDORF.

4. Essence of bergamot 40 minims, essence of lemon 45 minims, oil of rosemary 6, oil of orange 22, neroli 12 minims, highly rectified spirit 6 oz.

EAU DES CARMES—EAU DE MELISSE. Fresh flowering balm 24 oz.; yellow rind of lemon, cut fine, 4 oz.; cinnamon, cloves, and nutmeg (bruised) of each 2 oz.; coriander seed (bruised) 1 oz., dried angelica root 1 oz., rectified spirit a gallon. Macerate for 4 days, and distil in a water-bath.

ARQUEBUSADE WATER. 1. Sage, angelica, wormwood, savory, sweet fennel, hyssop, balm, sweet basil, rue, thyme, marjoram, rosemary, angelica seed, origanum, red calamint, creeping thyme, lavender flowers, of each 10 oz.; sweet flag root 5 oz., rectified spirit 2 gallons, water q. s. Distil 3 gallons.

2. (Simplified.) Balm, rosemary, thyme, calamus root, angelica seeds, lavender flowers, of each 4 oz.; rectified spirit 3 pints, water q. s. Macerate for a day, and distil 4 pints.

QUEEN OF HUNGARY'S WATER. Spirit of rosemary. 1. Rosemary tops 2 lb, rectified spirit a gallon, water q. s. Distil carefully one gallon.

2. Spirit of rosemary (as No. 1) 4 pints, orange-flower water $\frac{1}{4}$ pint, essence of neroli 4 drops.

3. Simple spirit of rosemary 3 pints, simple spirit of lavender a pint, rose-water 8 oz.

EAU D'ANGE. Flowering tops of myrtle 16 oz., rectified spirit a gallon; digest, and distil to dryness in a water-bath. Or dissolve $\frac{1}{4}$ oz. essential oil of myrtle in 3 pints of rectified spirit. Mr.



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EAU D'ISPAHAN. Essential oil of bitter orange peel 4 oz., oil of rosemary 3 dr., oil of mint 1 dr., oil of cloves 7 scruples, neroli 7 scruples, spirit of wine 14 pints. It is used for the same purposes as Eau de Cologne.

EAU SANS PAREILLE. Essential oil of lemon $\frac{1}{2}$ oz., of bergamot $2\frac{1}{2}$ dr., of cedrat $\frac{1}{4}$ oz., rectified spirit 6 pints, spirit of rosemary 8 oz.; mix. Some authorities state that it is improved by distillation.

EAU DE BOUQUET DE FLORE. 1. Honey water 2 oz., tincture of cloves 1 oz., tincture of calamus, of lavender, and of long cyperus, each $\frac{1}{2}$ oz.; eau sans pareille 4 oz., spirit of jessamine 9 dr., tincture of orris 1 oz., spirituous essence of neroli 20 drops.

2. Essence of violets $\frac{1}{2}$ oz., spirit of rosemary $\frac{1}{2}$ oz., essence of lemon 1 dr., rectified spirit 24 oz., rose-water 8 oz.

3. Spirit of rosemary 8 oz., rectified spirit 8 oz., lavender water 2 oz., oil of neroli 5 drops, cloves 1 dr., orris root 2 dr., rose-water 2 oz.; digest for a few days, and filter.

ESPRIT DE BOUQUET. English oil of lavender, oil of cloves, and of bergamot, of each 2 dr.; otto of rose, and oil of cinnamon, of each 20 drops; essence of musk 1 dr., rectified spirit a pint; mix.

EAU DE ROSIERES. Spirit of roses 4 pints, spirit of jessamine a pint, spirit of orange-flowers a pint, spirit of cucumber $2\frac{1}{4}$ pints, spirit of celery seed $2\frac{1}{4}$ pints, spirit of angelica root $2\frac{3}{4}$ pints, tincture of benzoin (simple) $\frac{3}{4}$ of a pint, balsam of Mecca a few drops.

EAU D'AMBRE ROYALE. Rectified spirit 2 lb, tincture of musk seed 1 lb, essence of ambergris 1 oz., tincture of musk 1 oz.; reduced with a proper proportion of orange-flower water.

ESPRIT DE SUAVE. Spirit of jessamine $1\frac{1}{2}$ pint, spirit of acacia flowers $1\frac{1}{2}$ pint, spirit of wine 12 oz., spirit of tuberose 8 oz., oil of cloves $1\frac{1}{2}$ dr., oil of neroli 30 drops, essence of bergamot $1\frac{1}{2}$ dr., tincture of musk 1 oz., rose-water 12 oz.

PARFUM DES ROIS. Spirit of wine 2 gallons, styrax 6 oz., benzoin 16 oz., aloes wood 8 oz., spirit of rose 2 pints, spirit of orange-flowers 2 pints, essence (tincture) of ambergris 8 oz., tincture of musk 8 oz., tincture of vanilla 16 oz.

NEW VICTORIA PERFUME. Cloves, bruised, 2 scruples; vanilla, cut small, 1 dr.; oil of cedrat 4 drops, oil of santal 1 dr., cinnamon 12 gr., oil of verbena 8 drops, otto of roses 8 drops, oil of

neroli 20 drops, oil of lavender 1 dr., ambergris 16 gr., tincture of musk 1 dr., rectified spirit 16 fluid oz.; digest for a few days, and filter. Or the whole except the musk and ambergris may be distilled in a water-bath, and these added to the distilled spirit.

Another similar perfume is—Vanilla $\frac{1}{2}$ dr., yellow saunders 6 dr., cloves No. 16, neroli 3 drops, oil of lavender 6 drops, rectified spirit 4 oz.; digest for 3 days, and add 4 oz. of orange-flower water, water q. s.; distil 6 oz., and add essence of musk 1 dr.

ESPRIT DE ROSE. 1. Macerate the fresh and picked flowers of the most fragrant varieties of the rose, with half their weight of rectified spirit, and distil in a water-bath to dryness.

2. Dissolve from 20 to 30 drops of otto in a pint of rectified spirit. A stronger solution, 16 or 18 drops of otto to an ounce of alcohol, forms essence of roses.

3. It is also made by agitating and digesting the spirit with the perfumed oil or pommade of roses. (See EXTRACTS, below.)

ESPRIT DE JASMIN. *Eau de Jasmin.* It is prepared by digesting and agitating pure spirit with oil or pommade of jessamine made with the flowers. (See EXTRACTS, below.) Spirit of jonquil, tuberose, violet, &c., may be obtained by the same process.

ESPRIT DE VIOLETTE. *Eau de Violette.* Macerate 5 oz. of fine orris root in a quart of rectified spirit for some days, and filter. It may also be obtained by the method just mentioned, or by mixing the product of both processes.

EAU ODORANTE DE JASMIN. Compound spirit of jessamine; for the handkerchief. Spirit of jessamine 1 pint, rectified spirit 1 pint, essence of ambergris a dr., simple tincture of benzoin a dr.

SPIRIT OF ORANGE-FLOWERS, SPIRIT OF ELDER-FLOWERS, AND SPIRIT OF ACACIA-FLOWERS. Fresh flowers 1 lb, rectified spirit 4 lb, or pints, water 2 lb. Distil 4 lb, or pints.

SPIRIT OF ORANGE-PEEL, OF LEMON-PEEL, OF CITRON, AND OF BERGAMOT. Fresh peel 1 lb, rectified spirit 6 lb; macerate for 2 days, and distil in a water-bath to dryness. Or 1 oz. of the essential oil to 2 pints of spirit.

SPIRIT OF CINNAMON, OF CLOVES, OF NUTMEG, AND OF CALAMUS ROOT. Macerate 1 lb of the bruised drug with 8 lb, or a gallon, of rectified spirit, and distil as the last.

SPIRIT OF CUCUMBERS. Cucumbers, grated, 8 lb, rectified spirit 1 lb; distil 2 lb.

SPIRIT OF ROSEWOOD. Rosewood shavings 1 lb, spirit 6 lb, water 2 lb; distil 6 lb. It is also made by adding the essential oil of rhodium to spirit.

SPIRIT OF ANGELICA. Dried angelica root 1 lb, rectified spirit a gallon. Macerate, and distil by water-bath to dryness.

SPIRIT OF BALSAM OF PERU. Balsam 3 parts, spirit 15 parts, carbonate of potash 1 part; macerate for 3 days, and distil by water-bath.

SPIRIT OF STRAWBERRIES, AND OF RASPBERRIES. Fresh fruit 3 lb, rectified spirit 1 lb; macerate 24 hours, and distil 2 lb.

The following tinctures are chiefly used in the compound perfumes:—

TINCTURE OF BALSAM OF PERU, AND OF TOLU. Digest 1 oz. of the balsam with 8 of rectified spirit for some days, shaking it occasionally; then filter. Tincture of Benzoin in the same manner.

TINCTURE OF ANGELICA. One part of the dried root to 8 of rectified spirit; as the last.

TINCTURE (common spirituous essence) OF LEMON, CITRON, ORANGE, AND BERGAMOT. An ounce of the fresh peel to $\frac{1}{2}$ pint of spirit; as above.

TINCTURE OF MUSK SEED. *Essence d'Ambrette.* Digest 16 oz. of bruised musk seed, with 3 pints of rectified spirit for a month, and filter.

TINCTURE OF MUSK. China musk 2 dr., rectified spirit 16 oz. For more compound tinctures of musk, see ESSENCE OF MUSK, below.

TINCTURE OR ESSENCE OF AMBERGRIS. GUIBOURT directs 1 dr. of ambergris to be digested with a gentle heat in 3 oz. of rectified spirit. Another form is—Ambergris 1 dr., subcarbonate of potash 1 dr., spirit of roses 4 oz. (or rectified spirit 4 oz., otto 6 drops.) Some recipes direct a weaker tincture—24 gr. of ambergris to 8 oz. of spirit. For other formulæ, see ESSENCE, below.

TINCTURE OF CIVET. Bruise $\frac{1}{2}$ oz. of civet, $\frac{1}{4}$ oz. of ambergris, and the same of sugar-candy, and macerate in a quart of rectified spirit for 6 weeks, in a warm place; then filter.

TINCTURE OR ESSENCE OF VANILLA. Vanilla, cut very small, 2 oz., rectified spirit a pint; infuse for 2 or 3 weeks. This is sometimes distilled, forming spirit of vanilla.



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ESSENCE OF AMBERGRIS. This name is applied both to the simple and more compound tinctures of ambergris. See **TINCTURE OF AMBERGRIS**, above. Other formulæ may here be given.

1. Ambergris 4 oz., musk 2 oz., tincture of musk seed 7 pints.

2. Ambergris 1 dr., musk $\frac{1}{2}$ dr., oil of cinnamon 18 drops, oil of rhodium 12 drops, rectified spirit 8 oz., spirit of roses 4 oz., carbonate of potash $1\frac{1}{2}$ dr.; digest in a warm place for a few days, and strain. See also **ESSENCE ROYALE**, above.

ESSENCE OF MUSK. A tincture of musk, of various strength. The formula given above (tincture of musk) is that of the Dublin Pharmacopœia. **GUIBOUT** directs 1 part of musk to 12 of proof spirit. Other authorities direct a smaller quantity of musk than in the Dublin formulæ. A French work gives the following—Musk in the bag, cut small, 5 oz., civet 1 oz., tincture of musk seed 7 pints; digest in the sun, or in a warm place for 2 months.

COLOGNE ESSENCE. Oil of bergamot 2 dr., essence of lemon $\frac{1}{2}$ dr., essence of cedrat $\frac{1}{2}$ dr., true oil of rosemary 15 drops, rectified spirit (or spirit of balm) $1\frac{1}{2}$ oz.

ESSENCES FOR SCENTING POMATUMS.—*Millefleur*: Oil of lemon 3 oz., essence of ambergris 4 oz., oil of cloves 2 oz., oil of lavender 2 oz.—*Cowslip*: Essence of bergamot 16 oz., essence of lemon 8 oz., oil of cloves 4 oz., oil of orange-peel 2 oz., oil of jessamine 2 dr., eau de bouquet 2 oz., oil of bitter almonds 16 drops.—*For general use*: Essence of bergamot 16 oz., essence of lemon 8 oz., true oil of origanum and oil of cloves, each 2 oz., oil of orange-peel $1\frac{1}{2}$ oz.

MISTURA ODORATA. Rectified spirit 48 oz., tincture of benzoin 4 oz., tincture of vanilla $\frac{1}{4}$ oz., tincture of musk $\frac{1}{2}$ oz., balsam of Peru $\frac{1}{2}$ oz., oil of cloves, of mace, and of cinnamon, each $\frac{1}{2}$ oz., oil of bergamot 1 oz., oil of cedrat 2 oz.—**GIESKE**.

The following Essences, Spirits, and Waters, are given as specimens of some of the cheaper perfumes, as made in France.

ESSENCES (SPIRITUOUS).

ESSENCE (SPIRITUOUS) OF NEROLI. Spirit of wine $\frac{1}{2}$ pint, orange-peel, cut small 3 oz., orris-root, in powder, 1 dr., musk 2 gr.; let it stand in a warm place for 3 days, and filter.

ESSENCE OF LEMON. Spirit of wine $\frac{1}{2}$ pint, fresh lemon-peel 4 oz.; as above.

ESSENCE OF BERGAMOT. Spirit of wine $\frac{1}{2}$ pint, bergamot-peel 4 oz.; as above.

ESSENCE OF VIOLETS. Spirit of wine $\frac{1}{2}$ pint, orris-root 1 oz.

ESSENCE OF CEDRAT. Essence of bergamot (as above) 1 oz., essence of neroli 2 dr.

ESSENCE OF JESSAMINE. Essence of violets 1 oz., essence of cedrat 2 dr.

ESSENCE OF MUSK. Spirit of wine $\frac{1}{2}$ pint, musk 16 gr.

ESSENCE OF AMBERGRIS. Spirit of wine $\frac{1}{2}$ pint, ambergris 24 gr.

ESSENCE OF CLOVES. Spirit of wine $\frac{1}{2}$ pint, bruised cloves 1 oz.

Other essences in the same manner.

SPIRITS.

SPIRIT OF ROSE. Spirit of wine $\frac{1}{2}$ pint, otto 6 drops.

SPIRIT OF JESSAMINE. Spirit of wine $\frac{1}{2}$ pint, essence of jessamine (as above) a dr.

SPIRIT OF ORANGE. Spirit of wine, essence of orange, or neroli, a dr.

SPIRIT OF LAVENDER. Spirit of wine $\frac{1}{2}$ pint, essential oil of lavender a dr.

SPIRIT OF MUSK. Spirit of wine $\frac{1}{2}$ pint, essence of musk a dr.

Others in a similar manner.

SIMPLE WATERS.

ROSE WATER. Distilled or rain water $\frac{1}{2}$ pint, spirit of roses a drachm.

JESSAMINE WATER, MUSK WATER, VIOLET, ORANGE-FLOWER WATER, &c., by adding a dr. of the above spirits to $\frac{1}{2}$ pint of water.

AMMONIATED PERFUMES.

AMMONIATED COLOGNE WATER. A fragrant and reviving substitute for Spirit of Sal Volatile. Muriate of ammonia 5 dr.,

subcarbonate of potash 8 dr., eau de Cologne 12 oz., essential oil of cedrat and of bergamot of each 15 drops (dissolved in an oz. of rectified spirit), orange-flower water 8 oz.; mix, and carefully distil 15 or 16 oz.

EAU DE LUCE. Mastic 2 dr., rectified spirit 9 dr.; dissolve and add to the clear tincture 30 drops of oil of lavender, 10 drops of bergamot, and a pint of strong water of ammonia. This is more agreeable than the compound of the Pharmacopœia, which, however, should always be used when prescribed medicinally.

ESSENCE FOR SMELLING-BOTTLES. 1. English oil of lavender and essence of bergamot of each a dr., oil of orange-peel, or of cedrat, 8 drops, oil of cinnamon 4 drops, oil of neroli 2 drops, alcohol and strongest water of ammonia of each 2 oz. (or 4 oz. of strong ammoniated alcohol.)

2. Ammoniated alcohol 12 fluid oz., English oil of lavender, essence of bergamot and essence of lemon of each a dr., cloves $\frac{1}{2}$ dr., camphor $\frac{1}{2}$ oz.; macerate for a week, and filter.—Mr. MAGGS.

3. Essence of ambergris and musk 4 dr., otto of rose 20 drops, oil of lavender 1 dr., ammoniated alcohol 10 oz.; mix, and add strongest liquor ammoniæ 10 oz.—PHARM. JOUR.

GODFREY'S SMELLING SALTS. Dr. PARIS says it is prepared by resubliming volatile salts with subcarbonate of potash and a little spirit of wine. It is usually scented with an alcoholic solution of essential oils.

ACETIC PERFUMES.

AROMATIC SPIRIT OF VINEGAR. 1. Strongest acetic acid 16 oz., camphor 1 oz.; when dissolved, add 1 oz. each of essential oils of cloves, lavender, and lemon. This is said to resemble HENRY'S.

2. Glacial acetic acid 8 oz., true oil of rosemary 20 gr., of bergamot 15 gr., of lavender 9 gr., of cloves 24 gr., neroli 4 gr., cinnamon 20; dissolve the oils in 2 dr. of rectified spirit. For another formula, see Pocket Formulary.

AROMATIC VINEGARS are made in France by infusing various flowers, &c., in distilled or finest wine vinegars, with or without the addition of spirit. Others are made by distillation. As they are seldom required in this country, a few examples will suffice.

ROSE VINEGAR. Red roses, picked and dried, $\frac{1}{2}$ lb, best vinegar



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flowers 8 oz.; vanilla, cloves, storax, and benzoin, all bruised, of each 1 dr.; ambergris 20 gr., otto of rose 20 drops. Mix.

2. Calamus root, yellow saunders, of each 1 oz.; vanilla 1 dr., musk 8 gr., ambergris 8 gr., cascarilla 1 oz., orris-root 3 oz., cinnamon 1 oz., lavender-flowers 1 oz., styrax 2 dr., benzoin 2 dr., cloves 2 dr., coriander seeds 1 oz., nutmegs 2 dr., otto of rose 20 drops, oil of neroli 10 drops. The dry ingredients to be coarsely bruised. Mix.

3. French. Take the petals of the pale and red roses, pinks, violets, moss rose, orange-flower, lily of the valley, acacia flowers, clove-gilliflowers, mignonette, heliotrope, jonquils; with a *small* proportion of the flowers of myrtle, balm, rosemary, and thyme; spread them out for some days, and as they become dry, put them into a jar with alternate layers of dry salt, mixed with orris powder; till the vessel is full. Shut it up for a month, then stir the whole up, and moisten it with rose-water.

4. Orris-root 16 oz., dried acacia flowers 8 oz., dried bergamot peel 2 oz., musk seed $\frac{1}{4}$ oz., cloves $\frac{1}{4}$ oz.; pound them together.

SACHETS OR SCENT BAGS. The pot pourri No. 2 or 4, may be put into bags, alone or with any perfume to increase the strength. Or, coarsely powdered patchouli (an herb of the *Pagostemon* genus) may be used, with any other perfume. Or the bags may be filled with carded cotton mixed with any of the following scented powders.

SCENTED POWDERS, BALLS, &c.

Rose. Powdered starch 3 oz., carmine to colour, otto of roses 8 drops, orris powder 1 oz.

Violet. Orris powder 4 oz., essence of bergamot 20 drops, essence of ambergris 20 drops.

Poudre de Chypre. Oak-moss is macerated in clean water for a day or two, and strongly pressed in a cloth; it is then moistened with rose water mixed with a third of orange-flower water for two days, pressed, and pulverized. It serves as a basis for other perfumes, the power of which it is said to increase.

Poudre a la Mousseline. Orris 16 oz., coriander-seed 8 oz., musk-seed 2 oz., cinnamon, cloves, and sandal-wood, each 1 oz., star aniseed $\frac{1}{4}$ oz., mace, ginger, and violet ebony, of each 2 oz.; beat them to a powder, and pass through a sieve.

Poudre a l'Œillet. Red roses 48 oz., orris 48 oz., cloves 6 oz., bergamot peel 20 oz., musk seed 24 oz., cinnamon 6 oz., long

cyperus 6 oz., pale roses 26 oz., dried acacia flowers, orange flowers, and clove stalks, of each 8 oz.

Poudre à la Marechale. Oak-moss in powder 2 lb, plain starch powder 1 lb, cloves 1 oz., calamus 2 oz., cyperus 2 oz., rotten oak-wood powder 2 oz.; mix.—GRAY.

Portugal. Dried orange peel 1 oz., dried bergamot peel $\frac{1}{2}$ oz., cloves 4 oz., storax 1 dr., ambergris, 8 gr., benzoin a drachm, musk-seed a scruple, musk 4 gr.

SCENT BALLS, MEDALLIONS, &c. *Pastilles de Toilette odorantes.*

These consist of perfumed powders, made into a paste, and moulded to any desired form before drying. The above scent powders beaten up with mucilage of tragacanth will answer the purpose; or the following:—

1. Beat the fresh petals of red roses in an *iron* mortar to a smooth paste, with a few drops of essence of ambergris, or other suitable perfume. It becomes sufficiently smooth to take a polish.

2. Powdered orris, oak-moss, and poudrè de mousseline, of each 1 oz.; lamp-black, or other colour, q. s. Form into a stiff paste with a jelly made with 6 dr. of isinglass, 2 of tragacanth, and boiling water q. s. Make it into beads by means of a pill-machine, or into any ornamental form by moulds.

3. Jessamine flowers 1 oz., powdered gum tragacanth $\frac{1}{2}$ oz., vermilion 2 oz.

4. Yellow saunders, cyperus, cloves, balsam of Peru, of each 2 dr., benzoin and styrax, of each $\frac{1}{2}$ oz., musk and civet, of each 10 gr., oil of cinnamon, 5 drops, oil of rhodium 15 drops, essence of jessamine 1 dr., neroli 20 drops, ivory-black $1\frac{1}{2}$ oz., Paris plaster 2 oz., mucilage of tragacanth, made with rose-water, q. s. As the last.

PASTILS FOR BURNING. 1. Yellow saunders 3 oz., styrax 4 oz., benzoin 3 oz., olibanum 6 oz., cascarilla 6 oz., ambergris 1 dr., Peruvian balsam 2 dr., myrrh $1\frac{1}{2}$ oz., nitre $1\frac{1}{2}$ oz., oil of cinnamon 20 drops, oil of cloves $\frac{1}{2}$ dr., otto 30 to 60 drops, oil of lavender $1\frac{1}{2}$ dr., balsam of tolu $1\frac{1}{2}$ oz., camphor $\frac{1}{2}$ oz., strong acetic acid 2 oz., charcoal 3 lb; mix, s. a., and beat into a paste with mucilage of tragacanth, and form into conical pastils. A second and third quality may be made by using, respectively, 4 and 5 lb instead of 3 lb of charcoal. These are highly approved, but rather expensive.

2. (*Clous fumans* of the French Codex.) Benzoin 2 oz., balsam of tolu $\frac{1}{2}$ oz., laudanum 1 dr., yellow saunders $\frac{1}{2}$ oz., light charcoal 6 oz., nitre $\frac{1}{4}$ oz., mucilage of tragacanth q. s. Reduce

the substances to powder, and form into a paste with the mucilage, and divide into small cones with a tripod base.

3. Powdered cascarilla 8 oz., benzoin 4 oz., yellow saunders, 2 oz., styrax calamita 2 oz., olibanum, 2 oz., charcoal 3 lb, nitre $1\frac{1}{2}$ oz., mucilage of tragacanth q. s.

4. Benzoin 1 oz., cascarilla 1 oz., myrrh 8 scruples, oil of nutmeg 4 scruples, oil of cloves 4 scruples, nitre $\frac{1}{2}$ oz., charcoal 6 oz., mucilage of tragacanth q. s.—Dr. PARIS.

MOUTH PASTILS. Dry compounds for perfuming or correcting the breath.

Cachou Aromatise. The basis of these compounds, as the name implies, was originally *catechu*, with which various odoriferous substances were combined. The catechu, however, is now often omitted. The following are some of the most approved forms:

1. Extract of liquorice 3 oz., oil of cloves $1\frac{1}{2}$ dr., oil of cinnamon 15 drops; mix, and divide into one-grain pills, and silver them.

2. M. CHEVALLIER'S chocolate powder, and ground coffee, of each $1\frac{1}{2}$ oz., prepared charcoal 1 oz., sugar 1 oz., vanilla (pulverized with the sugar) 1 oz., mucilage q. s. Make into lozenges of any form, of which 6 to 8 may be used daily to disinfect the breath.

3. *Cachou de Bologne.* Bologna Catechu. Extract of liquorice 3 oz., water 3 oz.; dissolve by heat in a water-bath, and add catechu 1 oz., gum Arabic $\frac{1}{2}$ oz.; evaporate to the consistence of an extract, and add (in powder) $\frac{1}{2}$ dr. each of mastic, cascarilla, charcoal, and orris: remove from the fire, and add oil of peppermint $\frac{1}{2}$ dr., essence of ambergris and essence of musk each 5 drops; roll it flat on an oiled marble slab, and cut it into very small lozenges. [Or it may be rolled into pills, and silvered. They are chiefly used by smokers.]

PASTILS OR LOZENGES, with chlorine, for disinfecting the breath.

1. Sugar flavoured with vanilla 1 oz., powdered tragacanth 20 gr., liquid chloride of soda q. s., any essential oil 2 drops. Form a paste, and divide into lozenges of 15 gr. each.

2. Dry chloride of lime 2 dr., sugar 8 oz., starch 1 oz., gum tragacanth 1 dr., carmine 2 gr. Form into small lozenges.



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SIEMMERLING'S COSMETIC. Make an emulsion with 1 oz. of sweet almonds, $\frac{1}{2}$ oz. of bitter almonds, black-cherry-water 10 oz.; and add bichloride of mercury 5 gr., tincture of benzoin 5 dr., lemon-juice $\frac{1}{2}$ oz.

WITHERING'S (Dr.) COSMETIC. An infusion of horseradish in milk.

LAIT VIRGINAL. Virgin's Milk. Simple tincture of benzoin 2 dr., orange-flower water 8 oz. It may be varied by using rose or elder-flower water.

LAIT DE FRAICHEUR. Double rose-water 8 oz., tincture of benzoin 4 dr., balsam of Mecca $\frac{1}{2}$ oz.

SCHUBARTH'S COSMETIC EMULSION. Almond emulsion (made with rose-water) 8 oz., tincture of benzoin 3 dr.

ITALIAN COSMETIC WASH. Melilot water 12 oz., tincture of benzoin 2 dr.

AUGUSTIN'S. Rose-water 8 oz., salt of tartar 2 dr., tincture of benzoin 3 dr.

KITTOE'S LOTION FOR FRECKLES. Muriate of ammonia 1 dr., spring water a pint, lavender-water 2 dr. Apply with a sponge 2 or 3 times a day.

LEMON CREAM FOR SUNBURNS, FRECKLES, &c. Sweet cream 1 oz., new milk 8 oz., juice of 1 lemon, brandy, or eau de Cologne 1 oz., alum 1 oz., sugar 1 dr. Boil and skim. Buttermilk is used for the same purpose.

LEMON EMBROCATION, for Freckles, &c. Borax 15 gr., lemon-juice 1 oz., sugar candy $\frac{1}{2}$ dr.; mix the powders with the juice, and let them stand in the bottle, shaking occasionally, till they are dissolved.

PASTES, POMMADES, COLD CREAMS, LIP-SALVE, &c.

POMMADE DE BEAUTE. Melt together in an earthen vessel placed in hot water, white wax $1\frac{1}{2}$ dr., spermaceti 2 dr., oil of sweet almonds $\frac{1}{2}$ oz., virgin olive oil $\frac{1}{2}$ oz., oil of poppies $\frac{1}{2}$ oz.; beat them with a few drops of balsam of Peru.

CUCUMBER POMATUM, for softening and cooling the skin. Clarified lard 4 lb, veal suet 1 lb, juice of cucumbers 3 lb; melt the two former together, then beat it up assiduously with the

juice. Next day, pour off the juice that has separated, and add the same quantity of fresh to the melted pommade. Repeat this six times, or until the pommade is sufficiently imbued with the odour of cucumbers. Then melt the pommade by a water-bath, and mix with it 3 dr. of powdered white starch; let it settle, and before it is too cold, pour it off into small pots, taking care not to disturb the dregs.

POMMADE D'HEBE. Incorporate together juice of lily-bulbs, 2 oz., Narbonne honey 2 oz., white wax 1 oz., rose-water 3 dr.; melt the wax with a gentle heat, and add the other ingredients. To be applied at night, and not wiped off till morning. To remove wrinkles. Probably cod-liver oil, used externally and internally, would be a more successful though less agreeable remedy.

PATE DIVINE DE VENUS. Mix equal parts of washed lard, fresh butter, and white honey; add balsam of Mecca and otto of roses, to perfume.

POMMADE DE NINON. Oil of sweet almonds 4 oz., washed lard 3 oz., juice of houseleek 3 oz.; mix. Softening and cooling.

POMMADE EN CREME. Melt together 1 dr. each of white wax and spermaceti, and add oil of sweet almonds 2 oz.; pour it into a warm mortar, and gradually stir in $\frac{1}{2}$ oz. of rose or other perfumed water, and 1 dr. of tincture of tolu.

COLD CREAM. 1. Oil of almonds 16 oz., white wax 4 oz.; melt together in an earthen vessel, and when nearly cold, stir in, by little and little 12 oz. of rose-water.

2. Melt together white wax 2 oz., oil of almonds 8 oz., and stir in 4 oz. of rose-water. Next day, add 6 drops of otto of roses.

3. White wax and spermaceti, of each $\frac{1}{2}$ oz., oil of almonds 4 oz., orange-flower water 2 oz.; mix, s. a.

4. As No. 3, but without the orange-flower water.

5. Lard 16 oz., white wax 2 oz., olive oil 1 oz., magistery of bismuth 1 oz.

6. White wax 1 oz., almond or olive oil 4 oz., rose-water 1 oz., glycerine 2 dr.

N.B. Those cold creams are generally preferred for present use which contain rose or other water, but they keep longer without them.

GRANULATED COLD CREAM. Melt together 1 oz. each of white wax and spermaceti, with 3 oz. of almond oil; when a little

cooled, pour the mixture into a large Wedgwood mortar previously warmed, and containing about a pint of warm water. Stir briskly until the cream is well divided, add sufficient otto of roses to scent it, and pour the whole suddenly into a clean vessel containing 8 or 10 pints of cold water. Throw the whole on muslin, and shake out as much water as possible.—Mr. OWEN, Dublin.

POMMADE DIVINE. Put 3 lb of beef marrow into an earthen vessel, and cover it with cold water, changing the water daily for a few days, and using rose-water the last day; press out the water and add to the marrow styrax, calamita, benzoin, Chio turpentine, each 4 oz.; orris powder 1 oz.; powdered cinnamon, cloves, nutmeg, of each $\frac{1}{2}$ oz. Place them in a well-tinned vessel in a water-bath, and keep the water boiling for 3 hours; then strain.

ALMOND PASTE, for the skin. 1. Powdered bitter almonds 4 oz., white of egg 1 oz., beat them well together to a smooth paste, with equal parts of spirits of wine and rose-water.

2. Sweet and bitter almonds, blanched, of each 2 oz.; spermaceti 2 dr.; oil of almonds $\frac{1}{2}$ oz.; Windsor soap $\frac{1}{2}$ oz.; rose-water 1 oz. or q. s.; otto of roses, and oil of bergamot, of each 12 drops.

3. (Camphorated.) To either of the above add 2 dr. of powdered camphor. A few drops of oil of bitter almonds may be substituted for the otto and bergamot.

4. (French.) Blanch 12 oz. of bitter almonds, and beat them in a mortar with a small quantity of rose or other water to a smooth paste; then add 7 oz. of rice flour, 3 oz. of bean flour, 1 oz. of orris powder, and when perfectly mixed, $\frac{1}{2}$ oz. of carbonate of potash dissolved in rose-water; again beat together, and add 3 oz. of spirituous essence of jessamine, and 2 drops of oil of rhodium, and one of neroli.

ALMOND AND HONEY PASTE. Fine honey may be added to either of the preceding; or mix 16 oz. of clarified honey with 16 oz. of bitter almond powder; and add gradually, in alternate portions, 32 oz. of oil of almonds, and the yolks of 5 eggs.

HONEY PASTE. *Pate au Miel.* It is sometimes made as the last; or by mixing clarified honey with cold cream, or some similar compound.

CAMPBOR BALLS, for rubbing on the hands, after washing them, to prevent chaps, &c. 1. Melt 3 dr. of spermaceti, and 4 dr.



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FACE PAINTS. FARDS.

FINE CARMINE (prepared from cochineal) is used alone, or reduced with starch, &c. And also the colouring matter of safflower, in the form of pink saucers, &c., and other vegetable colours.

ROUGE is prepared from carmine, and the colouring matter of safflower, by mixing them with finely levigated French chalk or talc, generally with the addition of a few drops of olive or almond oil. Sometimes fine white starch is used as the reducing ingredient. It is used in the form of powder, pommade, and *crepons*,—the latter being pieces of crape imbued with the colouring matter. For common purposes vermilion is used; and is sometimes prepared for this purpose by mixing with a few drops of almond oil and of mucilage of tragacanth, placing the mixture in rouge pots, and drying it by a very gentle heat.

FACE WHITES. One of the most innocent kind is prepared from Venetian talc, or French chalk, finely levigated. These are sometimes calcined, to increase their whiteness; but this diminishes their unctuousity and adhesiveness. Digestion with vinegar, and subsequent washing, are practised for the same purpose. Flake white (a fine variety of white lead) was formerly much used; but is now generally condemned as unsafe: it is also liable to become brown under certain circumstances. Pearl or bismuth white (magistery of bismuth*) is less injurious when pure, but is subject to the latter inconvenience. M. THENARD recommends oxide of zinc, with an equal weight of French chalk prepared by vinegar. Magnesia is said to be employed by the American ladies. White starch is used for the same purpose.

TOILET SOAPS, &c.

As the Excise regulations of this country prevent retail druggists and perfumers from making soaps, it is only necessary to mention the means by which the soap, as it comes from the manufacturers, is prepared for the toilet.

SCENTED SOAPS, in general. Cut the best white curd soap (or, for some kinds, palm soap) into thin shavings, and place it in a

* For this purpose a little muriatic acid is added to the solution of the metal in nitric acid, and the magistery is precipitated by a small quantity of water; or the nitric solution is mixed with a weak solution of sea salt. Dr. Ure states that the precipitate thus acquires a more pearly lustre.

copper vessel, with sufficient distilled water, and heat it by a water-bath till the whole is uniformly liquefied. Let it cool 135° F.; then add the colouring matters and perfumes. On the large scale these additions may be mixed with the liquid soap at the maker's, before it is poured into the frames. The quantity of perfume used must depend on the price at which it is to be sold.

ALMOND SOAP. To one hundredweight of the best hard white soap, melted as above, add 20 oz. of essential oil of bitter almonds. (Soap really made from expressed almond oil is, we apprehend, rarely met with in commerce.)

SAVON AU BOUQUET. Melt 60 lb of white curd soap as above, and 8 oz. of oil of bergamot, $1\frac{1}{2}$ oz. each of oils of cloves, sassafras, and thyme, $\frac{3}{4}$ oz. of neroli, and 14 oz. or q. s. brown ochre.

ROSE SOAP. Put into a copper vessel, placed in boiling water, 20 lb of white curd soap, and 30 lb of olive oil soap, both in thin shavings; add 5 lb of soft water, or rose-water; keep the heat below boiling till the soap is uniformly liquefied; then add 12 oz. of finely sifted vermilion, or enough to produce the required tint. Withdraw it from the fire, and when sufficiently cool add $3\frac{1}{2}$ oz. of otto of roses, $\frac{1}{2}$ oz. of oil of cloves, $\frac{1}{2}$ oz. of oil of cinnamon, and $2\frac{1}{2}$ oz. bergamot. For a cheaper article use less perfume.

WINDSOR SOAP. This is said to be made with lard. In France they use lard with a portion of olive or bleached palm oil. Dr. PEREIRA states that it is made with one part of olive oil to nine of tallow. But a great part of what is sold is probably only curd (tallow) soap, scented with oil of caraway and bergamot. The brown is probably coloured with burnt sugar, or umber.

FLOATING SOAPS. These are made by liquefying, as described above, 30 lb of oil soap with about 5 lb of water; and agitating the mixture, by a suitable wooden apparatus turned by a handle, till the froth rises to the top of the vessel. It is then poured into frames to cool. They are variously perfumed and coloured.

TRANSPARENT SOAP. Cut fine white curd soap into thin shavings, and dry them with a gentle heat till it can be reduced to powder. Put 2 lb of this powder into a water-bath with 5 or 6 pints of rectified spirit of wine, and heat it gently (taking care that the water does not quite boil) till the solution is complete; add the perfume, and pour into the frames. When cold cut it into squares. They must be kept some time in a dry place before

they attain their full degree of transparency. By using a still, most of the spirit may be recovered for future use.

WASH BALLS. *Savonettes.* These are made from various kinds of soap, usually with the addition of powdered starch, or hair powder, or of rice flour, together with perfuming and colouring ingredients. They are formed into spherical balls by taking a mass of the prepared soap in the left hand, and a conical drinking glass with rather thin edges in the right. By turning the glass and ball of soap in every direction the rounded form is soon given; when dry, the surface is scraped to render it more smooth and even. One or two examples of this kind of soap will suffice.

COMMON, OR LEMON WASH BALLS. Cut 6 lb of soap into very small pieces; melt it with a pint of water in which 6 lemons have been boiled. When melted withdraw the soap from the fire, and add 3 lb of powdered starch, and a little essence of lemon: knead the whole into a paste, and form into balls of the desired size.

CREAM WASH BALLS. White curd soap 7 lb, powdered starch 1 lb; water, or rose-water, q. s. Beat the whole together, and form into balls. [GRAY'S Supplement.]

CAMPBOR WASH BALLS. White soap 1 lb, spermaceti 1 oz., water q. s.; melt together, and add 1 oz. of powdered camphor.

MRS. SYMONDS'S SOAP PASTE, for the hands. Best soft soap (from olive oil and potash if procurable) 16 oz., spermaceti 4 oz., best olive oil 1 oz., camphor $\frac{1}{4}$ oz., rectified spirit $\frac{1}{2}$ oz., soft water 1 pint, essence of lemon $\frac{1}{2}$ oz., M. S. A. With 8 oz. of pumice-stone, powdered and sifted through fine book muslin, it forms sand soap paste.

POWDERED SOAP. Any of the hard soaps may be pulverized, if first cut into thin shavings, and kept at a gentle heat till sufficiently dry. This process renders the soap more mild.

SHAVING POWDER. Melt together in a water-bath 1 lb of white soap with 1 oz. of powdered spermaceti, and $\frac{1}{4}$ oz. of chlorate of potash dissolved in a little water, or rose-water. Pour the liquefied soap into a shallow mould; when solidified shave it fine, and dry as above.

SHAVING PASTE. 1. Melt together 1 dr. each of spermaceti, white wax, and almond oil; beat it up with 2 oz. of the best white soap, and a little lavender or Cologne water.



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HAIR COSMETICS.

HAIR POWDER. The basis of hair powder is finely powdered starch. It is variously scented, and was formerly tinted with various colours. The plain and violet hair powders are now principally used. The latter is perfumed with orris powder, or essence of violets, usually with the addition of bergamot, &c. GRAY gives the following species for scenting hair powder:—Powdered orris 1 lb, essence of bergamot 12 oz., oil of neroli 1 dr., musk 1 scruple. Hair powder is also perfumed with jessamine, roses, &c., by mixing the flowers with plain powder for 2 or 3 days, stirring the mixture twice or thrice a day, and then sifting out the powder from the flowers.

COMPOUNDS TO PROMOTE THE GROWTH OF THE HAIR.

POMMADES FOR THE CURE OF BALDNESS.

1. **DUPUYTREN'S POMMADE.** The recipe given by BATEMAN and RENNIE for this celebrated preparation—viz. : Almond oil, lard, suet, and essential oils, is remarkable as entirely omitting the active ingredient. It is probable that the preparation first employed by M. DUPUYTREN was more simple in its form than what he subsequently adopted, but *cantharides* was always the essential constituent. The first formula we met with was—Tincture of cantharides (made according to the Paris Codex, 1 part of flies to 8 of proof spirit) 1 part, lard 9 parts. The following are said more nearly to represent the compound in its improved and more elegant form. M. CAP prescribes—Beef marrow 2 oz., spirituous extract of cantharides (made by evaporating the above tincture) 8 gr., rose oil 1 dr., essence of lemon

50 drops. M. FONTAINE directs—Beef marrow 4 oz., calomel $2\frac{1}{2}$ dr., extract of cantharides 18 dr., attar of roses 2 drops. But the following, by M. RECLUZ, is said to have been acknowledged by DUPUYTREN as the true formula :—Beef marrow 6 oz., nervine balsam* 2 oz., Peruvian balsam 2 oz., oil of almonds $1\frac{1}{2}$ oz., extract of cantharides 16 gr.; melt the marrow and nervine balsam with the oil, strain, add the balsam of Peru, and lastly the extract, dissolved in a drachm of rectified spirit. M. GUIBOURT says that no better than the following can be used :—Beef marrow 1 oz., nervine balsam 1 oz., rose oil 1 dr., extract of cantharides (dissolved in spirit) 6 gr. These pommades should be rubbed on the scalp once or twice a day for some weeks. If any soreness is produced it should be less frequently applied.

2. POMMADE CONTRE L'ALOPECIE. Fresh lemon-juice 1 dr., extract of bark (by cold water) 2 dr., marrow 2 oz., tincture of cantharides (as above) 1 dr., oil of cedrat 20 drops, oil of bergamot 10 drops; mix. First wash the head with soap and water, with a little eau de Cologne, then rub it dry. Next morning rub in a small lump of pommade, and repeat it daily. In 4 or 5 weeks the cure of baldness is effected.—Dr. SCHNEIDER.

3. CAZENAVE'S REMEDY FOR BALDNESS. Beef marrow 1 oz., tincture of cantharides (as above) 1 dr., powdered cinnamon 1 dr. To be applied night and morning, the head being first washed with salt and water. Keep the hair short.

4. Dr. CATTELL'S is the same, substituting 10 drops each of oils of origanum and bergamot for cinnamon.

5. Beef marrow 1 oz., castor oil $\frac{1}{2}$ oz., tincture of cantharides 1 dr., essential oil of bitter almonds and of lemon, each 12 drops.

6. Beef marrow 3 dr., almond oil 1 dr., sulphate of quinine 15 gr., otto 2 drops.—SOUBEIRAN.

7. Prepared lard 2 oz., white wax 2 dr.; melt together, remove from the fire, and add 2 dr. balsam of tolu, 20 drops of oil of rosemary; and, in chronic cases, 1 dr. of tincture of cantharides.—Dr. NELIGAN.

8. Camphor 1 scruple, citrine ointment 2 dr., spermaceti cerate 6 dr.; mix. To be applied every night.

9. BATE'S *Unguentum Criniseum*. Labdanum 6 dr., bear's-grease 2 oz., honey $\frac{1}{2}$ oz., powdered southern-wood 3 dr., ashes

* This is made by melting together 4 oz. each of beef marrow and oil of mace, and adding 2 dr. of balsam of tolu, and 1 dr. each of oil of cloves and camphor, dissolved in $\frac{1}{2}$ oz. of rectified spirit.

of reed-root $1\frac{1}{2}$ dr., oil of nutmeg 1 dr., balsam of Peru 3 dr.; mix. Let the bald part be first rubbed with an onion till it is red; then apply the ointment. It should be used daily, or oftener, for 5 or 6 weeks.

10. Box leaves 2 oz., southern-wood 2 oz., lard, marrow, or bear's-grease 8 oz.; digest together by the heat of a water-bath, and strain.

11. *Bear's-grease.* The most approved consists of 2 parts of prepared bear's fat, with 1 of beef marrow, scented at pleasure. We have placed this, on the ground of common report, among the preparations which may possess some efficacy, but reserve the compounds usually sold under this name for the POMATUMS. See below.

12. *Pommade Philocome.* Powdered cinchona 1 dr., oil of almonds 2 dr., beef marrow 6 dr., oil of bergamot 6 drops, balsam of Peru 20 drops; mix.—RADIUS.

LIQUID COMPOUNDS FOR THE CURE AND PREVENTION OF BALDNESS.

1. Dr. LOCOCK'S *Lotion.* Oil of mace (expressed oil of nutmeg) $\frac{1}{2}$ oz., olive oil 2 dr., water of ammonia $\frac{1}{2}$ dr., spirit of rosemary 1 oz., rose-water $2\frac{1}{2}$ oz.; mix.

2. Mr. ERASMUS WILSON'S. Eau de Cologne 2 oz., tincture of cantharides 2 dr., oil of rosemary and oil of lavender, of each 10 drops.

3. Mr. ACTON'S. Equal parts of rectified spirit, castor oil, and eau de Cologne.

4. Mr. ACTON'S, *stronger.* Equal parts of honey-water and tincture of cantharides.

5. Tincture of cantharides 3 dr., acetate of copper 3 gr., oil of almonds and castor oil, of each a fluid oz., with any essential oil to scent it. A small quantity to be applied to the roots of the hair every morning.

6. Vinegar of cantharides (Lond. Pharm.) $\frac{1}{2}$ oz., eau de Cologne 1 oz., rose-water 1 oz.; mix.

7. Castor oil, lavender water, and tincture of cantharides, in equal quantities.

8. *American Shampoo Liquor.* Rum 3 quarts, spirit of wine 1 pint, tincture of cantharides $\frac{1}{2}$ oz., carbonate of ammonia $\frac{1}{2}$ oz., salt of tartar 1 oz.

9. Dr. LANDERER'S. Bay leaves 2 oz., cloves $\frac{1}{4}$ oz., spirit



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moted by assiduously beating the pommade while cooling, with a wooden spatula.

To perfume pomatums, various essential oils, &c., are added (see COMMON POMATUM); but the finer sorts are perfumed by infusing fresh flowers in the melted fats for some hours, and straining; or, in other cases, the simple pommade is thinly spread on plates of glass set in frames, and the fresh flower stuck in the scored surface of the fat; changing the flowers daily till the pomatum is sufficiently perfumed. As these compounds can seldom be prepared to advantage by the retailer, a few varieties only require to be noticed here.

COMMON POMATUM. Mutton suet (prepared as above) 1 lb, prepared lard 3 lb; melt together in a water-bath, pour it into an earthen basin, and beat it assiduously with a wooden spatula. When sufficiently cool, add 2 oz. or q. s. of essence of bergamot, or of lemon, and continue the stirring till nearly cold.

ROSE POMATUM. Prepared lard 16 oz., prepared suet 2 oz.; melt with a gentle heat, and add 2 oz. of rose-water, and 6 drops of otto of roses. Beat them well together, and pour it into pots before it is too cold. For making jessamine, violet, and orange pommade, put the same quantity of water, and 1 drachm of the essence.

MARROW POMATUM. Beef marrow and beef suet, coloured with a little annotto, may be employed for this and other yellow pomatums. For the perfumes employed for these and other pomatums, see *Essences for Scenting Pomatums*, under PERFUMERY.

POMMADE FOR BEAUTIFYING THE HAIR. Oil of sweet almonds a pint, spermaceti 1½ oz., purified lard 2 oz.; melt with a gentle heat; when nearly cold add any agreeable scent, and pour it into pots or wide-mouthed bottles.

BEARS' GREASE (ARTIFICIAL). Bears' grease is imitated by a mixture of prepared veal suet and beef marrow. It may be scented at pleasure; oil of lavender with a very little oil of thyme is sometimes used. The following are some of the compounds sold under this name:—

1. Prepared suet 3 oz., lard 1 oz., olive oil 1 oz., oil of cloves 10 drops, compound tincture of benzoin 1 dr.; mix.
2. Lard 1 lb, solution of carbonate of potash 2 oz.
3. Olive oil 4 flasks, white wax 4 oz., spermaceti 2 oz.; scented with otto of roses and oil of bitter almonds.

HARD, OR ROLL POMATUM. 1. Suet 5 lb, white wax 8 oz., spermaceti 2 oz., oil of lavender and essence of ambergris each $\frac{1}{2}$ oz.

2. Beef suet 16 oz., white or yellow wax 1 oz., with 1 dr. of oil of lavender or bergamot.

3. Lard melted with one-third or half its weight of white wax, and poured into semi-cylindrical paper moulds when nearly set. This is sold under the name of *cosmetique*. It is sometimes coloured to match the hair. See after HAIR DYES, below.

COLOURED POMATUMS. The colouring matters employed are annatto, alkanet, marigold, carmine, indigo, cobalt blue, umber, ivory-black, &c.

CIRCASSIAN CREAM. Two flasks of oil, 3 oz. of white wax, 2 oz. of spermaceti, $\frac{1}{2}$ oz. of alkanet-root. Digest the oil with the alkanet till coloured, strain, melt the wax and spermaceti with the oil, and when sufficiently cool add $2\frac{1}{2}$ dr. of English oil of lavender, and $\frac{1}{2}$ dr. of essence of ambergris.

CRYSTALLINE CREAM. Oil of almonds 8 oz., spermaceti 1 oz.; melt together; when a little cooled add $\frac{1}{2}$ oz. or less of essence of bergamot, or other perfume; put into wide-mouthed bottles, and let it stand till cold.

Camphorated crystalline cream may be made by using camphorated oil (Lin. Camphoræ) instead of oil of almonds.

CASTOR OIL POMMADE. Castor oil 4 oz., prepared lard 2 oz., white wax 6 dr., essence of bergamot 2 dr., oil of lavender 20 drops, eau de Cologne $\frac{1}{2}$ dr.; stir till cold.

CRYSTALLINE CASTOR OIL POMMADE. Castor oil 16 oz., spermaceti $1\frac{3}{4}$ oz.; melt together, and when a little cool add 1 oz. of

essence of bergamot, $\frac{1}{2}$ dr. oil of verbenæ, $\frac{1}{2}$ dr. oil of lavender; pour it into wide-mouthed bottles, and let it stand till cold.

FOX'S CREAM. Marrow pomatum 2 oz., oil of almonds 2 oz.; melt, and add while cooling, with constant stirring, essence of jessamine or of bergamot 2 dr.—**BATEMAN.**

HUILES ANTIQUES.

PERFUMED OILS FOR THE HAIR.

The basis of these oils is either almond oil, olive oil, or oil of ben; whichever is used should be perfectly fresh, and of the finest quality. The perfume is communicated in three ways: by infusing the flowers in the oil by a gentle heat; by placing layers of flowers alternately with folded cotton soaked in the oil, in proper frames, and pressing out the oil when sufficiently imbued with the odour of the flowers; or simply by adding essential oils, &c., to the fixed oil. An example or two of each method will be sufficient.

OIL OF ROSES, BY INFUSION. Heat in a water-bath 1 lb of virgin oil, and add 1 lb of picked fresh petals of Provence roses. Let these remain together in the water-bath for half an hour; then remove from the bath, and leave them together for 24 hours, stirring them twice during the time. Strain through a cloth, and express all the oil. To this oil add fresh roses, and proceed as before; repeating this for 5, 6, or 7 times, till the oil is sufficiently perfumed.

OIL OF JESSAMINE, PERFUMED WITH THE FLOWERS. Fold pieces of white cotton cloth twice or four times; moisten them with fine olive oil, slightly pressing them, and place them in proper frames. Then place on the cloths a rather thick layer of fresh-gathered and dry jessamine flowers, carefully deprived of all green parts. In 24 hours carefully remove the flowers, and replace them by fresh ones, till the oil is sufficiently perfumed. The oil is then expressed. The same method is employed in preparing oils from other delicate flowers; as violet, lily of the valley, &c.

OIL OF ROSES, COMMON. Fine olive or almond oil a pint, otto of roses 16 drops. If required red, colour the oil with alkanet root, and strain before adding the otto. For common sale, essence of bergamot or of lemon is often substituted, wholly or in part, for the more expensive otto.



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given by GRAY:—Olive oil 1 lb, oil of origanum 1 dr. The following French compound is probably named Macassar oil rather to denote its properties than from any resemblance either to the product of Macassar, or to the oil sold under this name in England:—

HUILE DE MACASSAR, DE NAQUET. Oil of ben 14 pints, nut oil 7 pints, spirit of wine 1 quart, essence of bergamot 3 oz., tincture of musk 3 oz., spirit of orange (*esprit de Portugal*) 2 oz., otto of roses 2 dr., alkanet to colour it. Digest them together with a gentle heat for an hour, and shake frequently for a week.

WASHES FOR THE HAIR.

VEGETABLE EXTRACT FOR CLEANSING AND STRENGTHENING THE HAIR. 1. Southernwood 2 oz., box leaves 6 oz., water 4 pints. Boil gently in a saucepan for $\frac{1}{4}$ of an hour, strain, and to each pint of the liquid add 2 oz. of spirit of rosemary and $\frac{1}{2}$ dr. of salt of tartar (or 1 dr. of Naples soap).

2. Boil 1 lb of rosemary in 2 quarts of water, and add to the filtered liquor 1 oz. of spirit of lavender, and $\frac{1}{4}$ oz. of Naples soap, or of salt of tartar.

3. Incinerate 2 oz. each of rosemary, maidenhair, southernwood, myrtle berries, and hazel bark; make a strong solution of the ashes, with which wash the hair at the roots every day. Keep the hair short.—Dr. CATTELL.

WASH FOR REMOVING SCURF AND PROMOTING THE CURLING OF THE HAIR. Beat up the yolk of an egg with a pint of clean rain water. Apply it warm, and afterwards wash the head with warm water.

COMPOUNDS FOR STIFFENING THE HAIR.

EAU COLLANTE. Dissolve, without heat, 8 oz. of clear gum in 2 lb of distilled or rose-water, and filter through coarse filtering paper.

BANDOLINE, OR FIXATURE. Vegetable mucilage, with sufficient spirit to preserve it. Mucilage of quince-seed is used: mucilage of picked Irish moss, carefully strained, is said to answer still better. But the following is employed by some London perfumers:—Finest picked gum tragacanth, reduced to a coarse powder, 1 oz., rose-water a pint; put them into a wide-mouthed

vessel, and shake them together daily for 2 or 3 days; then strain with gentle pressure through fine linen or cambric. If required to be coloured, infuse cochineal in the water employed before making the mucilage. Another form is—linseed (not bruised) a tablespoonful, water $\frac{1}{2}$ pint; boil for 5 minutes, and strain.

POMMADE COLLANTE, FOR FALSE CURLS. Melt together in an earthen pipkin 24 oz. of fine Burgundy pitch, and 8 oz. of white wax, and add 1 oz. of pomatum; remove from the fire, and add 4 oz. of brandy or other spirit, replace it on the fire till it boils slightly, then strain through linen, adding bergamot or other perfume, and cast it into moulds.

HAIR DYES.

ORFILA'S HAIR DYE. Take 3 parts of litharge and 2 of quicklime, both in an impalpable powder, and mix them carefully. When used, a portion of the powder is mixed with hot water or milk, and applied to the hair, the part being afterwards enveloped in oil-skin, or a cabbage-leaf, for 4 or 5 hours.

2. Litharge 2 parts, slaked lime 1 part, chalk 2 parts, all finely powdered, and accurately mixed. When required for use, mix the powder with warm water, and dip a brush in the mixture, and rub the hair well with it. After 2 hours, let the hair be washed.

3. Litharge $4\frac{1}{2}$ oz., quicklime $\frac{3}{4}$ oz.; reduce to an impalpable powder, and pass it through a sieve. Keep it in a dry, close bottle. Wash the hair first with soap and water, then with tepid water; wipe it dry, and comb with a clean comb. Mix the dye in a saucer, with hot water, to the consistence of cream, and apply it to the hair, beginning at the roots. Place over it four folds of brown paper, saturated with hot water, and drained till cool; and over this an oilskin cap and a nightcap. Let it remain from 4 to 8 hours, according to the shade required. When removed, oil the hair, but do not wet it for 3 or 4 days.

4. **CHEVALLIER'S.** Mix 5 dr. of fresh slaked lime with $1\frac{1}{2}$ oz. of water, and strain through silk; put the milk of lime into a 4-ounce bottle. Dissolve 5 dr. of acetate of lead in sufficient water, and add enough slaked lime to saturate the acetic acid (a drachm, or rather more), let it settle, pour off the supernatant liquor, wash the precipitate with water, and add it to the milk of lime.

5. Dr. HANMANN'S. Levigated litharge 11 oz., powdered quicklime 75 oz., hair powder 37 oz.; mix. When used, a portion of the powder is mixed with warm water in a saucer, and applied to the hair with the fingers, taking care to cover the hair to the roots. Cover the whole with a sheet of cotton wadding moistened with water, and this with a folded cloth. Let it remain on for 3 hours; or better, for the night.

6. WARREN'S. Sifted lime 16 oz., white lead 2 oz., litharge, in fine powder, 1 oz.; mix well together, and keep dry. To dye *black*, mix a little powder with water to the consistence of cream. To dye *brown*, use milk instead of water. Apply with a small sponge to every hair.

ESSENCE OF TYRE. GRECIAN WATER. EAU D'EGYPT. EAU DE CHINA. These are solutions of nitrate of silver; in applying them it must be remembered that they stain the *skin* as well as the hair. Hence there is more difficulty in applying than in the preceding; but they are considered to impart a finer colour to the hair, with the disadvantage, however, of rendering it dry and crisp. The following are some of the most approved formulæ:—

1. Dr. CATTELL'S. Nitrate of silver 11 dr., nitric acid 1 dr., distilled water 1 pint, sap green 3 dr., gum Arabic 1 dr.; mix.

2. Nitric acid 1 dr., nitrate of silver 10 dr., sap green 9 dr., mucilage 5 dr., distilled water 37½ fluid oz.

3. Silver 2 dr., iron filings 4 dr., nitric acid 1 oz., distilled water 8 oz. Digest, and decant the clear solution. To be carefully applied with a close brush.

4. Hydrosulphuret of ammonia 1 oz., liquor of potash 3 dr., distilled water 1 oz. Mix. Apply this with a tooth-brush for 15 or 20 minutes: then brush the hair over with the following: Nitrate of silver 1 dr., distilled water 2 oz., using a clean comb to separate the hair. [Pyro-gallic acid also stains the hair an indelible brown.]

These dyes must not be allowed to touch the skin; but only the hair, taking care that every hair receives the stain.

LA FOREST'S COSMETIC WASH FOR THE HAIR. Red wine 1 lb, salt 1 dr., sulphate of iron 2 dr. Boil for a few minutes, and add common verdigris 1 dr.; leave it on the fire 2 minutes, withdraw it, and add 2 dr. of powdered nut-gall. Rub the hair with the liquid; in a few minutes dry it with a warm cloth, and afterwards wash with water.



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powder 10 oz. ; form it into a paste, at the time of using, with a little water ; apply it to the parts, and wash it off when dry.

5. Quicklime 12 parts, hair powder 10 parts, powdered palm soap 4 part, orpiment 1 part. As the last.

6. Turkish Rusma. Quicklime 8 parts, orpiment 1 part ; mixed into a paste, at the time of using, with white of egg and soap lees. This is more active than the preceding.

7. COLLEY'S. (?) Quicklime 1 oz., nitre $\frac{1}{4}$ oz., orpiment 3 dr., sulphur 1 dr., soap lees 4 oz. Mix, and evaporate to a proper consistence.

8. CHINESE. Quicklime 16 oz., pearlash 2 oz., liver of sulphur 2 oz. Reduce to a fine powder, and keep it in a close bottle. Use it as No. 4.

9. Mr. REDWOOD recommends a strong solution of sulphuret of barium, with sufficient powdered starch to form a paste : to be left on for a few minutes, then scraped off with the back of a knife.

TEETH AND MOUTH COSMETICS.

TOOTH POWDERS.

General Directions.—The dry ingredients should be finely pulverized, and the whole well mixed; which is best effected by triturating the powders together, or agitating them in a bottle, and afterwards passing the whole through a sieve. Some ingredients are usually *levigated*, or ground with water, as prepared chalk, coral, &c. The tooth powders which contain acids and acid salts should not be frequently used. For children those only which contain very soft powders should be permitted; the heavy carbonate of magnesia is very suitable for them.

AMERICAN TOOTH POWDER. Coral, cuttle-fish bone, dragon's blood, of each 8 oz., burnt alum and red saunders, of each 4 oz., orris 8 oz., cloves and cinnamon, of each $\frac{1}{2}$ oz., vanilla 2 dr., rosewood $\frac{1}{2}$ oz., rose pink 8 oz.

ANTISEPTIC TOOTH POWDER. Prepared or precipitated chalk 2 oz., dry chloride of lime 10 gr., oil of cassia or of cloves 5 drops; mix. It may be coloured, if preferred, by a little levigated bole.

ANTISCORBUTIC TOOTH POWDER. Extract of rhatany $\frac{1}{2}$ oz., prepared charcoal 2 oz., cinnamon $\frac{1}{4}$ oz., cloves $\frac{1}{4}$ oz.

AROMATIC TOOTH POWDER. Calamus aromaticus 4 dr., charcoal 1 dr., soap 1 dr., oil of cloves 12 drops.—PITTSCHAFT.

ASIATIC TOOTH POWDER. Prepared coral 4 oz., Venetian red 3 dr., ochre 5 dr., pumice 5 dr., musk 1 gr.; mix. Or, Bole 3 parts, chalk 2, ochre 1, pumice 1, musk to scent.

CADET'S, or Dr. COOMBE'S. Sugar 1 oz., charcoal 1 oz., Peruvian bark $\frac{1}{2}$ oz., cream of tartar $1\frac{1}{2}$ dr., cinnamon 24 gr.

CAMPHORATED CHALK. Camphor (pulverized by the aid of a

few drops of spirits) 1 oz., prepared or precipitated chalk 3 oz. Some makers put only one part of camphor to 7 of chalk.

COMPOUND CAMPHORATED TOOTH POWDER. Camphor 1 oz., precipitated chalk 2 oz., cuttle-fish bone $\frac{1}{2}$ oz., myrrh 2 dr., borax 2 dr., lake or rose pink 1 dr., or q. s.

CARTWRIGHT'S DENTIFRICE. Prepared chalk 1 oz., orris 1 oz., Castile soap $\frac{1}{2}$ dr.

CARABELLI'S. Cuttle-fish bone $1\frac{1}{2}$ oz., prepared shells $1\frac{1}{2}$ oz., cinnamon, orris, and lime-tree charcoal, of each 3 dr., vanilla 10 gr.

CHARCOAL, PREPARED. The charcoal, made in iron cylinders, from willow is preferred. It should be reduced to an impalpable powder, and kept from the air. Charcoal of areka nut is highly commended. That of the shells of cocoa-nuts is said to be used for the same purpose. Dr. HEIDER prefers the charcoal of the lime-tree.

CHARCOAL TOOTH POWDER (Grey). Prepared charcoal 1 oz., prepared chalk 3 oz.

CHARCOAL TOOTH POWDER (French). Prepared charcoal 1 oz., sugar 1 oz., oil of cloves 3 drops; mix.

CHARCOAL WITH BARK. Charcoal 1 oz., red cinchona 1 oz., powdered sugar $\frac{1}{2}$ oz., with a few drops of some essential oil. See also RIGHINI'S, below.

CHARCOAL WITH BARK (French recipe). Charcoal 1 oz., Peruvian bark $\frac{1}{2}$ oz., oil of cinnamon, mint, or other oil, 2 drops, essence of ambergris 30 drops.

CHARCOAL WITH QUININE. Charcoal 1 oz., sulphate of quinine 2 to 4 gr., magnesia 4 to 8 gr., otto of roses (or other perfume) 2 drops.

CARBONIC DENTIFRICE (DESFORGES'). Willow charcoal 4 oz., cinchona bark 4 oz., cloves $\frac{1}{2}$ dr.

CIRCASSIAN DENTIFRICE (Dr. HALIFAX'S). Prepared hartshorn 2 oz., sulphate of potash 2 oz., cuttle-fish bone 8 oz., orris 4 oz., yellow sandal-wood 1 oz., rose-pink 3 oz., oil of rhodium 30 drops. Mix the dry ingredients, previously reduced to a fine powder, and add the oil of rhodium.

CORAL DENTIFRICE (*Poudre Dentifrice* of the French Pharmacopœia). Red coral, bole, cuttle-fish bone, of each 3 oz., dragon's blood $1\frac{1}{2}$ oz., cochineal 3 dr., cream of tartar $4\frac{1}{2}$ oz., cinnamon



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KEMMERER'S. Wood-soot $1\frac{1}{2}$ oz., strawberry root $\frac{1}{2}$ oz., and a few drops of eau de Cologne.

LAVENDER TOOTH POWDER. Crimson lake 1 drachm, Chinese blue (or Turnbull's blue) a scruple; mix, and add bicarbonate of soda $\frac{1}{2}$ oz., cuttle-fish bone 2 oz., precipitated chalk 6 oz., oil of lavender 8 drops.

LARDNER'S TOOTH POWDER. See COMPOUND CHARCOAL TOOTH POWDER (*gray*).

LEFOULON'S TOOTH POWDER. Scurvy-grass, horse-radish, guaiacum, cinchona, mint, pellitory root, calamus, rhatany, of each equal quantities. Reduce to an impalpable powder. A little calcined magnesia is sometimes added.

MAURY'S CARBONIC TOOTH POWDER. Charcoal 8 oz., cinchona 4 oz., sugar 8 oz., oil of mint $\frac{1}{2}$ oz., oil of cinnamon $\frac{1}{4}$ oz., tincture of ambergris $\frac{1}{2}$ drachm.

METGES' TOOTH POWDER. Prepared chalk $3\frac{1}{2}$ lb, lake or rose pink 1 lb, orris 2 lb, cream of tartar 12 oz., levigated pumice 1 oz., sugar 9 oz., oil of cloves 1 dr.

MIALHE'S RATIONAL DENTIFRICE. Sugar of milk 3 oz., pure tannin 3 dr., lake 1 dr., oil of mint 8 drops, oil of aniseed 8 drops, neroli 4 drops.

MYRRH DENTIFRICE. Myrrh 1 oz., cuttle-fish bone 4 oz., orris 3 oz.; mix.

NICHOLS' TOOTH POWDER. Cuttle-fish bone, prepared chalk, orris, of each 1 oz.; cassia $\frac{1}{2}$ oz., myrrh $\frac{1}{2}$ oz.; mix.

PALMER'S TOOTH POWDER. Prepared chalk 1 lb, camphor 1 oz., orris 1 lb, cuttle-fish bone 4 oz., rose pink 1 oz.

PEARL DENTIFRICE. Precipitated chalk 16 oz., talc 8 oz., finest smalts $\frac{1}{2}$ oz., or q. s. to give it a slight tint.

PELLETIER'S QUININE DENTIFRICE. Sulphate of quinine 4 gr., prepared red coral 1 oz., myrrh a scruple. For the coral may be substituted levigated bole 2 dr., precipitated chalk 6 dr.

REGNAUD'S DENTIFRICE. Calcined magnesia $\frac{1}{2}$ oz., sulphate of quinine 8 gr., carmine (or cochineal) $\frac{1}{2}$ dr., oil of peppermint 3 drops.

RATANHY TOOTH POWDER. Ratanhy root 2 oz., cuttle-fish bone 4 oz., prepared chalk 8 oz., borax 1 dr.

RIGHINI'S CHARCOAL AND BARK. Charcoal 4 parts, yellow bark 1 part.

ROSE DENTIFRICE. Lake $\frac{1}{2}$ dr., myrrh 2 dr., bicarbonate of soda 2 dr., orris 2 oz., cuttle-fish bone 2 oz., precipitated chalk 6 oz., otto of rose 16 drops; or it may be coloured with rose pink to any desired shade.

RUSPINI'S DENTIFRICE. Cuttle-fish bone 8 oz., prepared hartshorn 2 oz., alum 1 oz., cream of tartar 2 oz., orris 1 oz., oil of rhodium 6 drops.

RUSSIAN TOOTH POWDER. Peruvian bark 2 oz., orris root 1 oz., sal ammoniac $\frac{1}{2}$ oz., catechu 6 dr., myrrh 6 dr., oil of cloves 6 or 8 drops.

SAUNDERS' DENTIFRICE. Prepared chalk 2 oz., cuttle-fish bone 1 oz., orris 1 oz., myrrh $\frac{1}{2}$ oz., sulphate of quinine 10 gr.

Dr. SCHOEPF'S TOOTH POWDER, *against mercurial salivation.* Alum 2 scruples, cinchona bark 1 oz.

VIOLET TOOTH POWDER. Orris root 2 oz., cuttle-fish bone 4 oz., precipitated chalk 12 oz., bicarbonate of soda $\frac{1}{2}$ oz., essence of violets 1 dr., pure prussian blue of iron and crimson lake or rose pink, enough to give it a pale violet colour.

TOOTH PASTES.

Any of the above tooth powders may be formed into a paste with honey, clarified honey, or honey of roses. A little perfumed spirit may be added. A common objection to these pastes, or electuaries, is their liability to fermentation, or effervescence. Some makers keep the paste in the bulk for a considerable time, till the effervescence has completely subsided, and then put it up in pots for sale. Others heat the honey, stir in the powders, and keep the mixture warm till any effervescence produced by the action of the acidity of the honey on the cretaceous powders has subsided. It would perhaps be preferable in all cases to use the *prepared* honey (see Mel Preparatum, Pocket Formulary) for these purposes. Electuaries of this kind are termed by the French *opiat*s, although they may contain no opium in any form.

CORAL TOOTH PASTE. *Opiat dentifrice.* 1. Prepared coral 5 oz., cream of tartar 3 oz., cuttle-fish bone 3 oz., cochineal $\frac{1}{2}$ dr., Narbonne honey 16 oz.—**DESFORGES.**

2. *Opiat Dentifrice Rouge.* Prepared coral 8 oz., cochineal

1 oz., cinnamon 2 oz., alum 3 dr., honey 20 oz., water 1 oz.; triturate the cochineal with the alum and water, add the honey, then the coral and cinnamon; leave the whole for 24 hours, or till the effervescence has subsided; then rub it up with a few drops of oil of cloves, or other aromatic oil, and put it into covered pots for sale.

DYON'S CHARCOAL PASTE. Triturate $\frac{1}{2}$ dr. of chlorate of potash with $\frac{1}{2}$ oz. of mint water, and add gradually 1 oz. of powdered charcoal.

METGES' TOOTH PASTE. Metges' tooth powder (as above) 48 oz., Narbonne honey 32 oz., syrup 64 oz., cochineal 1 oz., alum 1 oz., water 4 oz.; triturate the cochineal and alum with the water, add the honey and the syrup, and lastly the powder.

PELLETIER'S ODONTINE. This is said to consist of magnesia and butter of cacao, aromatized with some essential oil.

ROSE TOOTH PASTE. Cuttle-fish bone 3 oz., prepared or precipitated chalk 2 oz., orris 1 oz., lake or rose pink to give it a pale rose colour, otto of roses 16 drops, honey of roses q. s.

RED OR CHERRY PASTE. See CORAL PASTE, No. 2.

ROSEMARY PASTE. Levigated bole 4 oz., myrrh 1 oz., oil of rosemary 2 dr. (dissolved in 1 oz. rectified spirit), clarified honey q. s.

SALINE TOOTH PASTE. Sulphate of potash 1 oz., bay salt $\frac{1}{2}$ oz., clarified honey q. s., eau de Cologne 2 dr., (or essence of ambergris 30 drops.)

VANILLA TOOTH PASTE. (French.) Charcoal 1 oz., white honey 1 oz., vanilla sugar 1 oz., Peruvian bark $\frac{1}{2}$ oz., and a few drops of any essential oil. The vanilla sugar may be made by triturating a drachm of saturated tincture of vanilla with 1 oz. of pure sugar, and drying the mixture with a gentle heat.

WHITE TOOTH PASTE. 1. (French.) Orris, sal ammoniac, cream of tartar, of each 2 oz., tincture of cinnamon and tincture of vanilla of each $\frac{1}{2}$ oz., oil of cloves 60 drops, clarified honey and syrup to form a paste.

2. Precipitated chalk 4 oz., sulphate of potash $\frac{1}{2}$ oz., prepared honey sufficient to form a paste; to be flavoured with a few drops of otto of roses, or oil of cinnamon, &c.



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drops, essence of peppermint 1 oz.; mix, digest for 15 days, and filter.

LEFANDINIERE'S ELIXIR. Rasped guaiacum wood $\frac{1}{2}$ oz., pellitory 1 dr., nutmegs 1 dr., cloves $\frac{1}{2}$ oz., oil of rosemary 10 drops, oil of bergamot 4 drops, brandy a pint; macerate for a fortnight, and filter.

EAU DE BOTTOT. Aniseed 4 oz., cinnamon 1 oz., cloves 1 oz., cochineal 2 dr., oil of mint 2 dr., spirit of wine or brandy 8 lb; macerate 8 days, and filter.

EAU DENTIFRICE DE STAHL. Spirit of wine or brandy 2 gallons, rose-water 3 quarts, pellitory 5 oz., cypress root 3 oz., tormentil 3 oz., balsam of Peru 3 oz., cinnamon 5 dr., goat's rue 1 oz., rhatany 1 oz.; macerate for 6 days, shaking it occasionally; let it rest 24 hours, and pour off the clear. Add to the clear liquor, oil of mint $1\frac{1}{2}$ dr., cochineal 4 dr.; in 3 or 4 days, filter.

EAU DU DR. O'MEARA. It is a tincture of pellitory, vetiver, cloves, orris, and coriander, with creasote, &c.

BORIES' ODONTALGIC ELIXIR. Pellitory root 2 oz., simple spirit of lavender 16 oz., muriate of ammonia $\frac{1}{2}$ dr.; digest 24 hours, and filter.

GREENOUGH'S TINCTURE. Bitter almonds 2 oz., Brazil wood $\frac{1}{2}$ oz., cinnamon $\frac{1}{2}$ oz., orris-root $\frac{1}{4}$ oz., cochineal, alum, salt of sorrel, each 1 dr., spirit of wine 32 fluid oz., spirit of scurvy-grass 1 oz.

HUDSON'S PRESERVATIVE. Tincture of myrrh, tincture of bark, cinnamon-water, of each 3 oz., arquebusade water 1 oz., powdered gum $\frac{1}{2}$ oz.

CHELTENHAM DENTAL TINCTURE. Camphor $4\frac{1}{2}$ oz., myrrh 2 oz., bark 5 oz., rectified spirit 36 fluid oz., distilled water 8 oz.

LEFOULON'S ELIXIR FOR THE TEETH. Fresh roots of horseradish, fresh leaves of scurvy-grass and of mint of each 6 dr., guaiacum, cinchona, pellitory, calamus, and rhatany, each 5 dr., proof spirit a quart; macerate 16 days, and strain.

EAU DE MADAME DE LA VRILLIERE POUR LES DENTS. Cinnamon 2 oz., cloves 6 dr., fresh lemon-peel $1\frac{1}{2}$ oz., dried rose-petals 1 oz., scurvy-grass 8 oz., spirit 3 lb; macerate 24 hours, and distil in a water-bath.

RUSPINI'S TINCTURE. Orris 8 oz., cloves 1 oz., spirit 32 fluid

oz., essence of ambergris 1 oz. (or ambergris a scruple) ; macerate 14 days, and filter.

FRENCH ELIXIR FOR THE TEETH. Rose-water 16 oz., spirit of scurvy-grass 2 oz., tincture of galbanum 1 oz.; colour with cochineal.

ALKALINE LOTION, for preventing injury to the teeth from acid medicines. Bicarbonate of soda 4 dr., distilled water 8 oz., eau de Cologne 8 dr., aromatic spirit of ammonia 1 dr. The mouth to be rinsed out with the lotion *immediately* after swallowing any medicine containing an acid.

LOTION OF CHLORINATED SODA, for purifying the breath, cleansing the mouth, removing unpleasant odours, &c. Liquid chlorinated soda 1 oz., distilled water 19 oz.; mix. A teaspoonful in a glass of water. The same direction applies to most of the above.

STRONGER TINCTURES, SOLUTIONS, OR ESSENCES, FOR TOOTHACHE.

These are applied by moistening a little cotton wool or lint with the liquid, and introduced into the cavity of the decayed and aching tooth. Where there is no cavity, they are sometimes applied to the gums surrounding the affected tooth. Most of them are stated by their several inventors or patrons to give "immediate relief." The cavity should be dried with lint before applying the remedy.

1. M. PIESTE'S. Water of ammonia, with half the quantity of tincture of opium; applied as above.

2. Creasote 1 dr., spirit of camphor 2 dr., laudanum 1 dr. Creasote is also used alone: so is *carvacrol*, a liquid of similar properties. LAENNEC prescribes 1 part of creasote, and 10 of alcohol. See also No. 14.

3. M. COTTEREAU'S. Ether saturated in the cold with camphor, and then a few drops of ammonia added.

4. Mr. BLAKE'S. Finely powdered alum 1 dr., spirit of nitric ether 7 dr.

5. *Paraguay-roux, or Compound Tincture of Para Cress.* Flowers of Para cress 4 parts, Italian elecampane (*inula bifrons*) 1 part, pellitory root 1 part, rectified spirits 8 parts; macerate 14 days, express, and filter.

6. Mr. BRANDE'S *Tincture*. Bruised pellitory $\frac{1}{2}$ oz., cam-

phor 3 dr., opium 1 dr., oil of cloves $\frac{1}{2}$ dr., rectified spirit 6 oz.; digest for 10 days, and strain.

7. *Pellitory*, ginger, cloves, camphor, of each 1 oz., tincture of opium 4 oz., spirit of wine 16 oz.; macerate for 8 days, and strain.

8. Camphor 1 dr., ether 4 dr.; dissolve.

9. Camphor 2 dr., chloroform 1 dr., spirit sal volatile $\frac{1}{2}$ dr.

10. Opium 2 oz., mastic $\frac{1}{2}$ oz., balsam of tolu 1 dr., camphor 1 oz., oil of cloves 1 dr., rectified spirit 16 fluid oz., oil of bitter almonds 8 drops.

11. *BOERHAAVE'S Odontalgic*. Rectified spirit 1 oz., camphor $\frac{1}{2}$ oz., opium 1 scruple, oil of cloves 80 drops.

12. *LEMAZURIER'S Odontalgic*. Cherry-laurel water 2 oz., acetate of morphia 1 gr. Wash the mouth with warm water to a glass of which a few drops of this mixture have been added.

13. Oil of rosemary 2 oz., tincture of galbanum 1 oz.; mix. Cotton wet with this is to be introduced into the ears.

14. *RIGHINI'S*. Alcohol 4 dr., creasote 6 dr., tincture of cochineal 2 dr., oil of peppermint 3 drops.

15. *Mr. DRUITT'S*. Tannin 20 gr., mastic 5 gr., ether 2 dr. Wash the mouth with warm water containing a little carbonate of soda; lance the gums, and apply the tincture to the cavity of the tooth on cotton.

16. *Mr. TOMES* recommends a solution of mastic in chloroform. The mastic serves to retain the chloroform, but the latter may be used alone on cotton or lint. *Mr. BEATSON* uses a solution of copal in chloroform.

HENBANE FUMIGATION FOR TOOTHACHE. A popular remedy is to throw henbane seed on hot cinders, inverting a cup over them to receive the smoke and empyreumatic oil produced. The cup is then filled with hot water, and the steam conveyed to the affected side of the mouth. *Dr. DOWNING'S Aneuralgicon* would probably prove a more effective means of applying remedies of this kind.

PILLS, OR PASTES, FOR TOOTHACHE.

MASSES ODONTALGIQUES.

1. *DE HANDEL'S*. Opium 12 gr., camphor 24 gr., cajeput oil 4 drops, tincture of cantharides 4 drops, extract of hen-



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of collodion, to which a little morphia has been added, fills the cavity with asbestos, and saturates with collodion, placing over all a pledget of blotting paper.

7. **OSTERMAIER'S CEMENT.** Mix 12 parts of dry phosphoric acid with 13 of pure and pulverized quicklime. It becomes moist in mixing, in which state it is introduced into the cavity of the tooth, where it quickly becomes hard. [In some hands this has failed, from what cause we are not aware.]

8. **SILICIA.** This name has been given to a mixture of Paris plaster, levigated porcelain, iron filings, and dregs of tincture of mastic, ground together.

9. **WIRTH'S CEMENT.** It is said to consist of a viscid alcoholic solution of resins, with powdered asbestos.

10. **METALLIC CEMENTS.** Amalgams for the teeth are made with gold or silver, and quicksilver, the excess of the latter being squeezed out, and the stiff amalgam used warm. Inferior kinds are made with quicksilver and tin, or zinc. A popular nostrum of this kind is said to consist of 40 gr. of quicksilver and 20 of fine zinc filings, mixed at the time of using. Mr. EVANS states that pure tin, with a small portion of cadmium, and sufficient quicksilver, forms the most lasting and least objectionable amalgam. But this class of stoppings is altogether disapproved of by other authorities. Pure leaf gold seems the least objectionable.

11. **MARMORATUM.** Finely levigated glass, mixed with tin amalgam.

12. **POUDRE METALLIQUE.** The article sold under this name in Paris appears to be an amalgam of silver, mercury, and ammonium, with an excess of mercury, which is pressed out before using it.

13. **FUSIBLE METAL.** Melt together 8 parts of bismuth, 5 of lead, and 16 of quicksilver, with as little heat as possible. It melts at 150° ; in which state it is introduced into the tooth.

[For Cachou Aromatisé, and other compounds for sweetening the breath, see PERFUMERY.]

BEVERAGES, DIETETIC ARTICLES AND CONDIMENTS.

BEVERAGES, AND POWDERS FOR PREPARING THEM.

WE have placed here such beverages as are rather employed as a refreshing luxury than either medicinally, or as regular articles of diet. Wines, spirits, &c., are necessarily excluded. The medicinal mineral waters will be found elsewhere.

GINGER BEER. 1. Infuse 3 oz. of bruised ginger in 4 gallons of boiling water till cold. Strain through tammy or flannel. Dissolve in the liquor 5 lb of loaf sugar, and add half a pint of solid yeast, and 2½ oz. of cream of tartar. In cold weather it will be necessary to set the cask near the fire, so as to excite brisk fermentation. As soon as this subsides rack off the clear liquor, return it into the cask previously washed out, and allow it to work for a day or two longer. Then draw it off, and bottle it.
—Mr. DONOVAN.

2. Ginger sliced 1 oz., dried orange-peel ½ oz.; tie them in a bag, and boil with 16 lb of water, and strain; add ¾ of an oz. of tartaric or citric acid, 25 drops of essence of lemon, and 24 oz. of loaf sugar. When sufficiently cool add 2 tablespoonfuls of fresh yeast; let it work for 12 hours, and bottle it.

3. Ginger sliced ¾ oz., essence of lemon (rubbed with sugar) ½ dr., lump sugar 12 oz., boiling water 8 lb; infuse till cold, and strain. Ferment as above, with 3 or 4 spoonfuls of yeast, and bottle.

4. Boil 2½ oz. of bruised ginger and 3 lb of sugar in 3½ gallons of water for 20 minutes; put into a large pan 1 oz. cream of tartar, and the juice and rind of 2 lemons; pour the boiling

liquor over them, and stir the whole well together; when milk-warm add $\frac{1}{4}$ pint of good ale yeast, cover it, and let it work for 2 or 3 days, skimming it frequently; then strain it through a jelly-bag into a cask, add $\frac{1}{2}$ pint of brandy, bung down close, and in 2 or 3 weeks bottle it in the usual way.

5. Prepare a clear decoction or infusion of ginger with sugar and lemon as above; but instead of fermenting it with yeast, charge it strongly with carbonic acid gas by means of a machine.

6. *Imperial Pop.* Cream of tartar 3 oz., ginger 1 oz., white sugar 24 oz., lemon-juice 1 oz., boiling water a gallon and half; when cool, strain, and ferment with 1 oz. of yeast, and bottle.

GIRAMBING, OR LIMONIATED GINGER BEER. 1. Boil $4\frac{1}{2}$ oz. of ginger with 11 quarts of water; beat up 4 eggs to a froth, and add them with 9 lb of sugar to the preceding. Take 9 lemons, peel them carefully, and add the rind and juice to the foregoing. Put the whole into a barrel, add 3 spoonfuls of yeast, bung down the barrel, and in about 12 days bottle it off. In 15 days it will be fit for drinking; but it improves by keeping.

2. To 10 gallons of water add $11\frac{1}{2}$ lb of loaf sugar, and the whites of 10 eggs well beaten; boil till the scum rises, and add 6 oz. of bruised ginger; boil for 20 minutes, then pour the hot liquor on the rinds of 12 lemons thinly peeled; when cold put into a barrel the juice of 12 lemons, 1 oz. of isinglass, a gill of brandy, and a spoonful of yeast, and fill the barrel with the liquor. In a fortnight it will be ready to bottle.

GINGER BEER POWDERS. Fine powder of Jamaica ginger 4 or 5 drachms, bicarbonate of soda $3\frac{1}{2}$ oz., refined sugar in powder 14 oz., essence of lemon 30 drops. Mix, and divide into 5 dozen powders. (Or 4 to 5 grains of ginger, 28 of bicarbonate of soda, 112 of sugar, and $\frac{1}{2}$ drop of essence of lemon, in each powder.) In the other powder put 32 grains of tartaric acid; or 35 grains, if a more decidedly acidulated beverage is required. Or from 30 to 33 grains of citric acid.

[Other formulæ are also in use. Dr. PEREIRA gives the following:—Bicarbonate of soda 30 gr., white sugar 1 dr., powdered ginger 5 gr.; in each blue paper: and 25 gr. of tartaric acid in each white paper. This is less agreeable, but perhaps more friendly to the stomach, than when the acid is in slight excess. The following is from the *Pharmaceutical Journal*:—Sugar 2 dr., sesquicarbonate of soda 2 scruples (misprinted 2 drachms in vol. 3), ginger 4 or 5 gr., essence of lemon $1\frac{1}{2}$ or 2 drops, in each blue paper; with 35 gr. of tartaric acid.]



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35 or 40 grains of citric or tartaric acid in crystals, and cork immediately, placing the bottles in a cool place, or preferably, in iced water. Mr. BARTLETT recommends 2 scruples of sesquicarbonate of soda, 2 dr. of sugar, 4 drops of essence of lemon, and half a pint of water; lastly, a dr. of tartaric acid in crystals. Care must be taken to avoid accidents from the bursting of the bottles. Another form is—Into a soda-water bottle nearly filled with water add 1 oz. of sugar, 2 drops of essence of lemon (dropped on the sugar), 20 grains of bicarbonate of potash in crystals; and, lastly, 30 to 40 grains of citric acid, also in crystals. Cork immediately.

MILK LEMONADE. Dissolve $1\frac{1}{2}$ lb of sugar in a quart of boiling water, add $\frac{1}{4}$ pint of fresh lemon-juice, and the same of sherry; and, lastly, two-thirds of a pint of cold milk. Stir together, and strain.

DRY LEMONADE, OR ACIDULOUS LEMONADE POWDER. Citric acid $\frac{3}{4}$ oz., refined sugar 8 oz., essence of lemon 36 drops. Some recipes direct a larger quantity of acid, others a much larger proportion of sugar.

EFFERVESCING LEMONADE POWDERS. Bicarbonate of soda $3\frac{1}{2}$ oz., refined sugar 14 oz., essence of lemon 60 drops. [Sometimes 12 or more grains of the powdered yellow rind of lemon peel are added to colour it.] Mix, and divide into 60 powders, or 140 gr. in each blue paper. In the white papers put from 30 to 32 gr. of citric acid, or from 32 to 35 gr. of tartaric acid. Or the mixed alkaline powder and the acid may be put into separate bottles, furnished with measures holding the proper quantity of each.

EFFERVESCING LEMONADE POWDERS, IN ONE BOTTLE. *Note.*—The powders must all be separately and carefully dried, at a moderate temperature, before mixing, and when mixed be carefully secured from the air.

1. Bicarbonate of soda 1 oz., refined sugar $3\frac{1}{2}$ oz., tartaric acid $1\frac{1}{4}$ oz., essence of lemon 30 drops; mix, and put into well-corked bottles.

2. Mix $3\frac{1}{2}$ oz. bicarbonate of soda, 14 oz. of double refined sugar, 60 drops of essence of lemon, and 4 oz. to $4\frac{1}{2}$ oz. of tartaric acid.

3. *Lemon Kali. Acidulated Kali.* Sesquicarbonated soda 8 oz., tartaric acid 8 oz., refined sugar 16 oz., essence of lemon 100 drops; mix.—Pharmaceutical Journal.

ORANGEADE, OR SHERBET. 1. Juice of 4 oranges, thin peel of 1 orange, lump sugar 4 oz., boiling water 3 pints.

2. Juice and peel of 1 large orange, citric acid $\frac{1}{2}$ dr., sugar 3 oz., boiling water a quart.

EFFERVESCENT OR AERATED ORANGEADE, OR SHERBET. 1. Mix 1 lb of syrup of orange-peel, a gallon of water, and 1 oz. of citric acid, and charge it strongly with carbonic acid gas with a machine.

2. Syrup of orange juice $\frac{3}{4}$ oz., aerated water half a pint.

3. Simple syrup $\frac{1}{2}$ fluid oz., tincture of orange-peel $\frac{1}{2}$ dr., citric acid 1 scruple; fill the bottle with aerated water.

4. Put into a soda-water bottle $\frac{1}{2}$ oz. to 1 oz. of syrup of orange-peel, 30 gr. of bicarbonate of potash, 8 oz. of water, and lastly 40 gr. of citric acid in crystals, and cork immediately.

5. Put into each bottle 2 or 3 dr. of sugar, 2 drops of oil of orange-peel, 30 gr. of bicarbonate of potash, or 25 gr. of bicarbonate of soda; water to fill the bottle, and 40 gr. of citric acid, as before.

AERATED SHERBET, OR ORANGEADE POWDERS. Powdered sugar $14\frac{1}{2}$ oz., powdered orange-peel, 12 gr., oil of orange-peel 60 drops, essence of cedrat, 12 drops, bicarbonate of soda $3\frac{1}{2}$ oz.; mix, and put 145 gr. in each blue paper. In the white paper put 32 gr. of tartaric (or rather 30 gr. of citric) acid. Or the alkaline and acid powders may be put into separate bottles, with a measure holding the proper proportion of each. The orange-peel may be omitted.

AERATED SHERBET POWDERS, IN ONE BOTTLE. Double refined sugar $14\frac{1}{2}$ oz., [powdered orange-peel 12 gr.,] bicarbonate of soda $3\frac{1}{2}$ oz., essence of cedrat 12 drops, oil of orange-peel 60 drops, tartaric acid 4 oz. The powders must be carefully dried, mixed quickly, and afterwards kept dry and securely corked. A measure holding nearly 3 dr. of the powder, should accompany each bottle.

ORANGEADE POWDER NOT AERATED. Citric acid $\frac{1}{2}$ oz., sugar 8 oz., oil of orange-peel 20 drops.

SODA POWDERS. The usual proportions are—30 or 32 gr. of bicarbonate of soda in each blue paper; and 25 or 26 gr. of tartaric acid in each white paper.

ACIDULATED EFFERVESCENT POWDERS; for making effervescing drinks with concentrated syrups of lemon, ginger, &c.

Put into separate papers, distinguished by their different colours, 20 gr. of bicarbonate of soda, and 28 gr. of citric or tartaric acid. One of each powder to be dissolved separately in one-third of a tumbler of water, and a teaspoonful of the syrup added to the acid solution, and the liquids mixed.

[The CONCENTRATED SYRUPS are thus made—

Concentrated Syrup of Ginger. Simple syrup $7\frac{1}{2}$ fluid ounces, essence of ginger (1 part ginger to 4 of spirit) $\frac{1}{2}$ oz.

Concentrated Syrup of Lemon-peel. Strong tincture of lemon-peel* 1 oz., simple syrup 15 fluid ounces.

Concentrated Syrup of Orange-peel. Strong tincture of fresh orange-peel* $\frac{1}{2}$ oz., simple syrup $7\frac{1}{2}$ fluid ounces.

Syrup of raspberries, pine-apples, and other fruits, may be used with the above powders in the same way.]

For Seidlitz and other Medicated Powders, see MINERAL WATERS and POWDERS, at the end of PATENT MEDICINES, &c.

SPRUCE BEER. Water 10 gallons, treacle, or lump sugar (according to the colour required) 6 lb; essence of spruce 4 oz.; add yeast, and ferment as for ginger beer.

SPRUCE BEER POWDERS. In each blue paper put 5 scruples of powdered sugar, 28 gr. of bicarbonate of soda, and 10 gr. essence of spruce. In each white paper 30 gr. of tartaric acid.

TREACLE BEER. Brown sugar 1 lb, treacle 1 lb, bruised ginger 1 oz., hops $\frac{1}{4}$ oz.; boil for a few minutes in 3 quarts of water, strain, and add 5 quarts of cold water; add a spoonful of fresh yeast; let it work all night, and bottle it in the morning.

CAPILLAIRE. To a pint of boiling water add 3 oz. of fine maiden-hair; remove from the fire, cover, and set near the fire for 3 hours; strain, and add $\frac{1}{4}$ pint of orange-flower water. Boil a gallon of fine syrup till reduced to 7 pints, then add the infusion, and boil for 10 minutes; strain through a jelly-bag, and when quite cold, bottle the syrup. It is used to give a fine flavour to water.

LIMONIATED CAPILLAIRE. Refined sugar 24 oz., water 12 oz.; dissolve by a gentle heat; and add essence of lemon 30 drops, neroli 3 drops, citric acid 2 oz., orange-flower water 4 oz.

* These tinctures are thus made:—Fresh lemon-peel, thin, and cut small 4 oz.; rectified spirit 8 oz.; digest for some days, and strain. Fresh peel of Seville orange 4 oz., spirit 16 oz.



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with clear skins, peel them, squeeze out the pulp and juice, taking care to remove all the pips. Boil the peel, divided into quarters till they are sufficiently tender; scrape clean all the inside from them, lay them in folds, and cut them into very thin slices about an inch long. Weigh your juice, pulp, and boiled peel, and add broken lump sugar equal in weight to the whole, and boil for half an hour, carefully removing the scum. Then put it into pots, and when quite cold cover them over.

2. Instead of using all Seville oranges, let only half or a third of them be bitter, and the rest common sweet oranges. Proceed in the same way. Some add honey.

CURRANT JELLY. Pick the currants, put them in an earthen jar, and place it in boiling water till the juice is extracted. Strain through a sieve without pressing them, and boil the juice in an enamelled saucepan with its weight of loaf sugar, removing the scum as it rises. When it will jelly on the back of a cold spoon, it is sufficiently done. A little of the jelly dissolved in warm water forms an agreeable beverage.

DIETETIC ARTICLES.

As the ingredients of some of the following compounds are usually sold by druggists, who may be expected to furnish information as to the manner of using them, and as they may all be regarded as auxiliaries to medical treatment, some notice of them here seems desirable, though it must necessarily be brief and incomplete.

ARROW-ROOT. [West India arrow-root is the fecula of the tubers of the *Maranta arundinacea*; East India arrow-root is obtained from the *Curcuma angustifolia*; South Sea or Tahiti arrow-root from the *Tacca pinnatifida*. They have all the same properties, and are used in the same manner.] Mix a dessert spoonful of arrow-root with sufficient cold water to form a soft paste; rub it till quite smooth, and add half a pint of boiling water, stirring it briskly. Boil for a minute or two, and when removed from the fire add a tablespoonful of sherry or other white wine (where wine is admissible), with a little grated nutmeg or lemon-peel, and sugar to the taste. For young children milk should be used instead of water, and the wine omitted: it is also more nourishing in this form for those invalids with whom milk agrees.

TOUS LES MOIS. [The fecula of a species of *Canna*.] It is used

in the same way as arrow-root ; but rather less is required. It forms a more tenacious, but less transparent jelly.

SAGO. [The granulated fecula of the pith of one or more species of the Sago Palm.] Wash an ounce of pearl sago in cold water ; then boil it very gently in a pint of fresh water, stirring it frequently till dissolved. It may be flavoured with wine, spices, and sugar, as directed for arrow-root. For children, and for consumptive and debilitated patients, it may be made with milk instead of water. The common sago, being in larger grains, requires more time to dissolve ; and is usually steeped for some hours before boiling it.

TAPIOCA. [Obtained from the tuberous root of the Cassava, *Japipha manihot*. It is usually sold in small lumps, formed by drying the fecula on hot plates.] It is used in the same way as sago ; but requires to be previously steeped for some hours, or to be simmered for a longer time. It forms a clear jelly, which may be flavoured with wine, spices, and sugar, as directed for arrow-root ; but is more nourishing when made with milk.

SAGO AND TAPIOCA PUDDINGS. These are made in the same manner as rice puddings : but the tapioca should be steeped for a night.

BARLEY WATER. See *DECOCTUM HORDEI*, and *DECOCTUM HORDEI COMPOSITUM*. ROBINSON'S Patent Barley is a convenient preparation ; printed directions accompany it.

LINSEED TEA. Take $1\frac{1}{2}$ oz. of clean linseed, and $\frac{1}{2}$ an oz. of bruised liquorice root ; put them into a warm teapot or jug, and pour on them 2 pints of boiling water ; let them stand, covered, near the fire for 3 or 4 hours, stirring them occasionally ; then strain. To save time, the ingredients may be boiled for 15 or 20 minutes, instead of infusing them ; but the tea so made is less agreeable.

ICELAND MOSS. Infuse an ounce of picked Iceland Moss for 15 minutes in half a pint of hot water ; strain off the water, and boil the moss in a quart of fresh water till reduced to a pint and a half. Half an ounce of liquorice root may be added, towards the end of the boiling, if agreeable : or milk may be used instead of water.

JELLY OF ICELAND MOSS. See *Gelatina, Lichenis*, Pocket Formulary. Another form is the following—Infuse 2 lb of the moss

for half an hour, in sufficient boiling water to cover it; drain the moss, and boil it in $2\frac{1}{2}$ gallons of water, for an hour and strain. Boil the moss with fresh water, adding an oz. of isinglass; strain; mix the product of the two boilings, and let it stand till clear. Evaporate the clear liquor to the consistence of a stiff jelly, adding, towards the end, 6 lb of fine lump sugar, 2 oz. of French brandy, and half an oz. of orange-flower-water. It may be taken, almost at pleasure, dissolved in water or milk.

ICELAND MOSS CHOCOLATE. See *Chocolata Lichenis*, Pocket Formulary.

IRISH MOSS, OR CARRAGEEN. Steep a $\frac{1}{4}$ of an oz. of the moss in cold water for a few minutes; then withdraw it, shaking the water from each sprig, and boil it in a quart of milk till it attains the consistence of jelly, and sweeten to the taste. A decoction of the same quantity of moss in a quart of water is also used as a demulcent in coughs, &c. BLANC-MANGE may be made by washing $\frac{1}{2}$ oz. of the moss as above, and boiling it in $1\frac{1}{2}$ pint of new milk to such a consistence that it will retain its form when cold; sweetening and flavouring it to the taste. An agreeable jelly may be made by boiling it with water instead of milk, and adding lemon or orange-juice or peel, wine, &c.

CEYLON MOSS. Boil $\frac{1}{2}$ oz. of the prepared moss in a quart of water for 25 minutes; or till a spoonful taken out forms a firm jelly in 2 or 3 minutes: then flavour with wine, cinnamon, or with lemon or orange-juice or peel; and sweeten to the taste. Boil for 5 minutes longer, and press through a jelly-bag, or doubled muslin. Pour it into earthen moulds, and leave it undisturbed till it has set. If the jelly is required *bright* it must be clarified with white of egg, as directed for gelatiné jelly. For BLANC-MANGE add 1 oz. of prepared moss to a quart of boiling water, and boil gently till reduced to a third; add the milk and flavouring ingredients, and pour into earthen moulds.

AUSTRALIAN MOSS. This has been introduced for the same uses as Irish and Ceylon mosses, but has not been very generally adopted. Soak $\frac{1}{2}$ oz. of the moss in water for an hour or two, pour away the water, and boil the moss in a quart of fresh water till dissolved. Strain through a hair sieve, and sweeten and flavour to the taste.



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WACAKA DES INDES. Roasted cacao beans (chocolate) in powder 2 oz., sugar 6 oz., cinnamon $\frac{1}{4}$ oz., vanilla (powdered with part of the sugar) $\frac{1}{2}$ dr., ambergris 3 gr., musk $1\frac{1}{2}$ gr. Sometimes a drachm of prepared annotto is added, and the ambergris and musk omitted.

RACAHOUT DES ARABES. This is professedly a preparation of acorns (perhaps those of the *Quercus ballotta*, which are naturally sweet, or of other kinds deprived of their bitterness by being buried in the earth); but it is imitated by the following:—1. Chocolate in powder 1 oz., rice flour 3 oz., sugar 9 oz., potato arrow-root 3 oz., vanilla (pulverized with part of the sugar) 1 dr. Mix.

2. Chocolate in powder 4 oz., salep 1 oz. (or powdered tragacanth 1 oz.), potato arrow-root 5 oz., sugar (flavoured with vanilla) 8 oz.—CADET.

DICTAMIA. Sugar 7 oz., potato arrow-root 4 oz., flour of brent-barley (*Triticum monococcum*) 3 oz., Trinidad and Granada chocolate, each 1 oz., vanilla 15 gr.

PALAMOUD. Chocolate 1 oz., rice flour 4 oz., potato arrow-root 4 oz., red saunders in fine powder 1 dr. Mix. [In the above by chocolate is meant the cacao beans roasted and pulverized without addition. For the potato arrow-root, Indian arrow-root or *Tous les Mois* may be substituted.]

FERCULUM SAXONIA. Barley flour 2 $\frac{1}{2}$ oz., sugar 7 oz., cinnamon 1 dr. Mix, and bake them in an oven, enveloped in a paste of wheat flour, and placed in an earthen vessel. When sufficiently baked, remove the crust, and when the contents are cool, reduce them to powder. About $\frac{1}{2}$ oz. to 1 oz. is boiled with broth, &c., as a nourishing diet. It is often medicated with the addition of sarsaparilla, bark, &c.

BRIGHT'S NUTRITIVE FARINA, and the **PRINCE OF WALES' FOOD**, (the basis of which is potato starch); **GARDINER'S Alimentary Preparation** (said to consist chiefly of fine rice flour); **HARD'S** and **DENSHAM'S Farinaceous Food** (the basis of which is carefully baked wheat flour, with a mixture of barley flour, probably, in the latter); **Ervalenta** and **Revelenta** (the prepared meal of lentils); **BRIGHT'S Breakfast Beverage** (a combination of

chocolate with his nutritive farina); BOWEN'S Patent Sago; ROBINSON'S Patent Barley, and Groats; and some other similar compounds, being always accompanied with printed directions for use, require no further notice here.

HUNT'S BREAKFAST POWDER, (Rye, carefully roasted in the same way as coffee); and chicory (the roasted root of wild endive or succory); are used as economical and not unwholesome substitutes for coffee, and to adulterate the ground berry. DANDELION COFFEE is noticed elsewhere,—page 148.]

GRUEL is made either from oatmeal, or from groats or grits (oats deprived of their cuticle) either whole or crushed (Embden groats). Dr. THOMSON directs 3 oz. of groats, previously washed, to be boiled slowly in 4 pints of water, till reduced to 2 pints, then strained through a sieve. The Embden groats require less boiling. Dr. KITCHENER directs one or two table-spoonfuls of oatmeal (according as the gruel is preferred thin or thick) to be well mixed with 3 spoonfuls of cold water gradually added, a pint of boiling water poured on it, and the whole boiled for 5 minutes, constantly stirring it; it is then skimmed, and strained through a hair sieve; a little butter is usually added, and sometimes milk, with salt, or otherwise sugar and spices to the taste. Thorough trituration of the oatmeal and cold water, and constant stirring of the gruel while on the fire, render long boiling unnecessary.

BEEF TEA. Professor LIEBIG directs 1 lb of beef, free from fat, to be minced very small, mixed with an equal weight of cold water, and heated slowly to boiling; when it has boiled for a minute or two, strain through a cloth. It may be coloured with roasted onion or burnt sugar, and salted to the taste. Dr. SEYMOUR directs 2½ lb of lean beef to be put into 3 pints of cold water, and simmered slowly, without boiling, till reduced to a pint and a half; and then carefully strained.

BREAD, UNFERMENTED. Mix carefully ½ oz. of bicarbonate of soda and ¼ oz. of salt with 4 lb of flour; mix this with a quart (or rather 41 or 42 fluid oz.) of very cold water, previously mixed with ½ a fluid oz. and 20 minims of muriatic acid of 1.16 specific gravity, into a thin dough, with as little kneading as possible, and let it be *immediately* placed in the oven; it requires rather more time than fermented bread. By mixing 26 measures of the acid with 46 of water, a diluted acid is obtained, of which a fluid ounce and a half may be taken for every ½ oz. packet of soda.—Mr. DEANE.

A pamphlet on the subject directs for *Brown Bread*, 3 lb of wheatmeal and 10 dr. (Apoth. weight) of bicarbonate of soda to be well mixed, and made into dough, with 25 oz. of cold water, previously mixed with $12\frac{1}{2}$ fluid dr. of muriatic acid.

Another form of unfermented bread is as follows:—Mix 1 oz. of bicarbonate of soda, $\frac{3}{4}$ oz. of tartaric acid, and $\frac{1}{4}$ oz. of salt, with 7 lb (half a peck) of flour; mix the whole thoroughly, taking care that all the ingredients are perfectly dry; add, in 2 or 3 portions, 4 pints of cold water, and incorporate quickly; place it in tins, and send it to the oven immediately. If not baked in tins, less water must be used.

GLUTEN BREAD, (for diabetic patients.) It is sometimes made with the gluten of flour, a small portion only of the starch being retained. Dr. PERCY proposes the following method:—Take the matter left after removing the starch from 16 lb. of rasped potatoes, $\frac{3}{4}$ lb. of mutton suet, 12 eggs, $\frac{1}{2}$ lb. of butter, and $\frac{1}{2}$ oz. of carbonate of soda; mix, and add 2 oz. of diluted hydrochloric acid; divide into eight cakes, and bake immediately in a quick oven. [Might not the Cassava bread (made from the dried pulp of the Cassava root, after the juice has been expressed for obtaining the fecula) be used in these cases?]

CONDIMENTS, AND VARIOUS CULINARY COMPOUNDS.

CURRY POWDER. The recipes for “true Indian Curry Powder” are numerous, and vary much in the number and proportion of the ingredients. The total quantity of powder in each of the following recipes being nearly equal, the relative proportion of the different colouring, heating, and flavouring ingredients, will at once be seen. Dr. KITCHENER complains that the proportion of cayenne is generally so large, that a proper quantity of the powder cannot be used to obtain the benefit of the other ingredients: and the Editor of the *Pharmaceutical Journal* justly observes that many recipes contain too large a proportion of turmeric. All the ingredients should be of fine quality and recently ground.



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5. Dr. KITCHENER'S *Savoury Ragout*. Salt 2 oz., mustard, black pepper, and grated lemon-peel, of each 1 oz., allspice, ginger, and nutmeg, of each $\frac{1}{2}$ oz., cayenne $\frac{1}{4}$ oz.

6. *Soup Herb and Savoury Powder*. Mix 3 parts of No. 7 with one part of No. 5.

7. Dr. KITCHENER'S *Soup Herb Powder, or Vegetable Relish*. Dried parsley, winter savoury, sweet marjoram, lemon thyme, of each 2 oz., dried lemon-peel, and sweet basil, of each 1 oz.; mix. They should be carefully dried in a Dutch oven, powdered, passed through a hair sieve, and kept in closely-covered bottles. For sauces, soups, &c.

8. *Pease Powder*. Pound together in a marble mortar 2 oz. each of dried mint and sage, $\frac{1}{4}$ oz. each of celery seed and black pepper, and rub them through a hair sieve.

HORSERADISH POWDER. Take up the roots in November or December, dry them carefully with a gentle heat, and reduce to powder.

SOLUBLE CAYENNE. To 1 lb of the best cayenne pepper, add as much rectified spirit as will form it into a paste. Cover this up for 2 hours; then place it in a percolator, and gradually pour on it more spirit till a pint of liquid is procured. A little water cautiously poured on the pepper will displace most of the remaining spirit. Distil off most of the spirit for future use, and add to the residue 3 lb of fine salt, and evaporate the mixture to dryness by the heat of a water-bath. It is usually coloured, but is better without it.

CULINARY ESSENCES, TINCTURES, ETC.

ALMOND FLAVOUR. Essential oil of bitter almonds 1 part, rectified spirit 7 parts. Some put 1 part of oil to 15 of spirit: others, 1 part to 3. It should not be sold without a caution as to the quantity to be used; or rather, the oil should be first purified from its hydrocyanic acid, by mixing it with a solution of perchloride of iron and cream of lime, with a little peroxide of mercury, and after a few days' contact, carefully redistilling the oil.

FLAVOURING ESSENCE. Purified oil of bitter almonds 8 drops, essence of lemon 12 drops, oil of cinnamon 8 drops, oil of nutmeg 4 drops, highly rectified spirit 1 oz. A few drops to be added to puddings, custards, &c.

LEMON FLAVOUR. Fresh lemon-peel, cut thin, 3 dr., essence of

lemon 1 dr., alcohol 3 oz. [Another method is to rub a lump of sugar on clean, dry lemons, till the yellow rind is taken up by the sugar; then scrape off the saturated part of the sugar, and keep it in a closely-covered pot for use.]

TINCTURE OF CINNAMON (KITCHENER'S). Bruised cinnamon 3 oz., a bottle of Cognac brandy; digest for a fortnight, and strain. [Tincture of Allspice, Nutmeg, Cloves, in the same manner.]

ESSENCE OF CINNAMON. Bruised cinnamon 2 dr., oil of cinnamon 1 dr., highly rectified spirit 3 oz.; digest, and strain.

ESSENCE OF NUTMEG, MACE, CLOVES, ALLSPICE, &c. These are made from the spices and their essential oils, as **ESSENCE OF CINNAMON**.

ESSENCE OF CELERY. Celery seed $\frac{1}{2}$ oz. to 1 oz., brandy 4 oz.; digest for 8 or 10 days, and filter.

ESSENCE OF CARAWAY. Bruised caraway seed 1 oz., rectified spirit 8 oz., oil of caraway $\frac{1}{4}$ oz., brown sugar $\frac{1}{4}$ oz.; digest for 8 or 10 days, and filter.

AROMATIC ESSENCE OF GINGER. Fresh grated ginger 3 oz., fresh thin lemon-peel 2 oz., brandy $1\frac{1}{2}$ pint; macerate for 10 days.—Dr. KITCHENER.

ESSENCE OF CAYENNE (KITCHENER'S). Put $\frac{1}{2}$ oz. cayenne pepper into half a pint of brandy; let it steep for a fortnight, then pour off the clear liquor.

SPIRIT OF SAVOURY SPICES (KITCHENER'S). Black pepper 1 oz., allspice $\frac{1}{2}$ oz., nutmeg $\frac{1}{4}$ oz., (all pounded); infuse in 16 fluid oz. of brandy for 10 days.

SPIRIT OF SOUP HERBS (KITCHENER'S). Lemon thyme, winter savoury, sweet marjoram, sweet basil, each 1 oz., grated lemon-peel and shallots, each $\frac{1}{2}$ oz., celery seed 1 dr.; infuse in a pint of brandy for 10 days.

SPIRIT OF SAVOURY SPICES. Infuse half the Savoury Ragout Powder (see MIXED SPICES, &c., No. 5, above) in a quart of brandy for 10 days.

KITCHENER'S SOUP HERB AND SAVOURY SPICE SPIRIT. A mixture of equal measures of the last two.

CULINARY VINEGARS, SAUCES, ETC.

TARRAGON VINEGAR. Put fresh tarragon leaves into a stone jar, and pour on them a sufficient quantity of the best wine vinegar to cover them. Set the jar in a warm place for 14 days; then strain through a jelly-bag. In the same way may be made elder-flower, basil, green mint, and burnet vinegars. Cress and celery vinegar are made with $\frac{1}{2}$ oz. of the bruised seed to a quart of vinegar. Horseradish vinegar, with 3 oz. of the scraped root, 1 oz. of minced shallots, 1 dr. of cayenne, to a quart of vinegar. Garlic vinegar is made with 2 oz. of minced garlic, to a quart of wine vinegar. Shallot vinegar in the same proportion. Chilli vinegar, with 50 English chillies, cut or bruised (or $\frac{1}{4}$ oz. cayenne pepper), to a pint of the best vinegar; digest for 14 days.

CAMP VINEGAR. Take 12 chopped anchovies, 2 cloves of garlic, minced, 1 dr. of cayenne, 2 oz. of soy, 4 oz. of walnut catsup, and a pint of the best vinegar; digest for a month, and strain.

2. Vinegar a quart, walnut catsup a pint, mushroom catsup 3 tablespoonfuls, garlic 4 heads, cayenne $\frac{1}{2}$ oz., soy 2 tablespoonfuls, port wine 2 glasses, 3 anchovies, and a tablespoonful of salt; put them into a bottle, shake daily for a month, and decant.

CURRY VINEGAR. Infuse 3 oz. of curry powder in a quart of vinegar, near the fire for 3 days.

RASPBERRY VINEGAR. Macerate 2 lb of fresh raspberries with a pint of the best vinegar for 14 days, and strain. Or to a quart of the juice add 2 oz. of strong acetic acid, or enough to render it sufficiently acid.

ESCHALOT WINE. Bruised shallots 3 oz., sherry wine a pint; infuse for 10 days. An ounce of scraped horseradish, and a drachm of thin lemon-peel may be added. [“The most elegant preparation of the onion tribe.”—Dr. KITCHENER.] Wines of several herbs may be made in the same proportion as the vinegars.

FRENCH MUSTARD. This is sold with a great variety of flavours. A good substitute may be made by mixing good flour of mustard with the liquor of walnut and other pickles; or with the flavoured vinegars, above. The following is one of the published recipes:—Salt 12 oz., scraped horseradish 8 oz., a clove of garlic, $\frac{1}{2}$ oz. of sugar, a gallon of French vinegar (hot, but not boiling). Macerate for 24 hours, and strain. Mix.



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port wine $\frac{1}{4}$ pint, 6 anchovies, and 6 shallots (both pounded); soy a tablespoonful, cayenne $\frac{1}{2}$ dr.; simmer together gently for 10 minutes, strain, and bottle.

WATERLOO SAUCE. Vinegar 4 pints, port wine 1 pint, cayenne 1 oz., walnut catsup $\frac{1}{2}$ pint, mushroom catsup $\frac{1}{2}$ pint, essence of anchovies 4 oz., powdered cochineal 1 oz., garlic 12 cloves.

SAUCE SUPERLATIVE (Dr. KITCHENER'S). Port wine, and mushroom catsup, of each a pint; walnut or other pickle liquor $\frac{1}{2}$ pint, pounded anchovies 4 oz.; fresh lemon-peel cut thin, sliced shallots, and scraped horseradish, of each 1 oz.; allspice and black pepper, of each $\frac{1}{2}$ oz.; cayenne 1 dr., curry powder 3 dr., celery seed 1 dr.; put them into a wide-mouthed bottle, stop it close, shake daily for a fortnight, and strain: a $\frac{1}{4}$ pint of soy may be added.

[A variety of sauces may be made by mixing, in different proportions, the ingredients of the last 3 sauces.]

CASSAREEP. The expressed juice of the bitter cassava; used as a condiment in the West Indies.

SOY. Boil a gallon of the seeds of *dolichos soja* till soft, add a gallon of bruised wheat, keep them in a warm place for 24 hours; add a gallon of salt, and 2 gallons of water, and after keeping them bunged up in a stone jar for 2 or 3 months, press out the liquor.

PICKLES.

A few recipes are here given as illustration of the methods employed in preparing these condiments. For full particulars the reader is referred to the popular treatises on Cookery. The best vinegar (pickling, or No. 24 vinegar) should be employed. Some prefer the crystal or white vinegar (distilled vinegar, or rather pure diluted wood-vinegar) especially for white pickles; but the best wine vinegar is more agreeable. Stoneware jars, not glazed with lead, should be used to keep the pickles in; or otherwise green glass jars.

SPICED VINEGAR, FOR PICKLES GENERALLY. Bruise in a mortar 2 oz. of black pepper, 1 oz. of ginger, $\frac{1}{2}$ oz. of allspice, and 1 oz. of salt. If a hotter pickle is desired, add $\frac{1}{2}$ dr. of cayenne, or a few capsicums. For walnuts add also 1 oz. of shallots. Put these into a stone jar, with a quart of vinegar, and cover them with a bladder wetted with the pickle, and over this a piece of

leather. Set the jar on a trivet near the fire for 3 days, shaking it 3 times a day, then pour it on the walnuts or other vegetables. For walnuts it is used hot, but for cabbage, &c., cold. But to save time, it is usual to simmer the vinegar gently with the spices; which is best done in an enamelled saucepan.

BEEF ROOT. Boil the roots till 3 parts done (from $1\frac{1}{2}$ to $2\frac{1}{2}$ hours); then take them out, peel them, and cut them in thin slices. Put them into a jar, and pour on them sufficient cold spiced vinegar (as above) to cover them.

CABBAGE, WHITE. Cut it in thin slices, put them into an earthen pan, sprinkle them with salt, and let them lie for 2 days; then drain them, and spread them out before the fire for some hours; put them into a stone jar, and add sufficient white vinegar, or pale wine vinegar, to cover them, and a little mace and white pepper corns.

RED CABBAGE. Remove the outer leaves and stalks, and cut the cabbage in quarters, and shred them into a colander, and sprinkle them with salt; next day drain them, put them into a jar, and pour on them sufficient cold spiced vinegar to cover them. Others hang up the cabbage for a few days to dry, then shred the leaves, and put them in layers in a jar with a little salt, pepper, and ginger, and fill up with cold vinegar. Others use vinegar without spice.

CAULIFLOWER AND BROCOLI. These should be sliced, and salted for 2 or 3 days, then drained, and spread upon a dry cloth before the fire for 24 hours; then put into a jar, and covered with spiced vinegar. Dr. KITCHENER says, that if vegetables are put into cold salt and water (a $\frac{1}{4}$ lb of salt to a quart of water) and gradually heated to boiling, it answers the same purpose as letting them lie some days in salt.

CUCUMBERS. Gherkins. Small cucumbers, but not too young, are wiped clean with a dry cloth, put into a jar, and boiling vinegar, with a handful of salt, poured on them. Boil up the vinegar every 3 days, and pour it on them, till they become green; then add ginger and pepper, and tie them up close for use. Or cover them with salt and water (as above) in a stone jar, cover them, and set them on the hearth before the fire for 2 or 3 days, till they turn yellow; then put away the water, and cover them with hot vinegar, set them near the fire, and keep them hot for 8 or 10 days, till they become green; then pour off the vinegar, cover them with hot spiced vinegar, and cover them close.

MANGOES. Large cucumbers, or small melons, are split so that a marrow-spoon may be introduced, and the seeds scooped out; they are then parboiled in brine strong enough to float an egg, dried on a cloth before the fire, filled with mustard seed and a clove of garlic, and then covered with spiced vinegar.

MUSHROOMS. Clean them with water and flannel, and throw them into boiling salt and water in a stewpan, and let them boil for a few minutes. Drain them in a colander, and lay them on a linen cloth, covering them with another. Put them into bottles with a blade or two of mace, and fill up with white vinegar, pouring some melted mutton fat on the top, if intended to be kept long.

NASTURTIUMS, FRENCH BEANS, and other small green vegetables, are pickled in the same way as **GHERKINS**.

ONIONS. 1. Let them lie in strong salt and water for a fortnight; then take them out and peel them; put them in fresh salt and water for another fortnight; take them out, wash them clean, and let them lie in fresh water all night. Next day put them on a cloth to drain; then put them in a jar, and pour over them hot spiced vinegar. If you wish them of a nice colour, use white vinegar.

2. Peel small silver button onions, and throw them into a stewpan of boiling water; as soon as they look clear, take them out with a perforated spoon, and lay them on a folded cloth, covered with another, and when quite dry, put them into a jar, and cover them with hot spiced vinegar. When quite cold, bung them down, and cover with bladder wetted with the pickle, and leather.

WALNUTS. Take 100 young walnuts, lay them in salt and water for 2 or 3 days, changing the water every day. (If required to be soon ready for use, pierce each walnut with a larding-pin, that the pickle may penetrate.) Wipe them with a soft cloth, and lay them on a folded cloth for some hours. Then put them in a jar, and pour on them sufficient of the above spiced vinegar, hot, to cover them. Or they may be allowed to simmer gently in strong vinegar, then put into a jar with a handful of mustard seed, 1 oz. ginger, $\frac{1}{4}$ oz. mace, 1 oz. of allspice, 2 heads of garlic, and 2 split nutmegs, and pour on them sufficient boiling vinegar to cover them. Dr. KITCHENER recommends the walnuts to be gently simmered with the brine, then laid on a cloth for a day or two, till they turn black, put into a jar, and hot spiced vinegar poured on them.



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TRADE CHEMICALS.

MISCELLANEOUS PREPARATIONS, AND COMPOUNDS EMPLOYED IN THE ARTS, IN DOMESTIC ECONOMY, CHEMICAL RESEARCH AND AMUSEMENT, ETC.

THIS division of the work comprises those chemical compounds which are employed for other purposes than those of medicine, and which have not been noticed in the former parts of this volume. It includes a variety of miscellaneous articles which are sometimes sold by the retail druggist, or the materials of which he is expected to furnish, or with the composition of which it is desirable he should be acquainted. The limits of the work do not admit of a minute description of the processes and manipulations employed in the manufacture of such chemicals as are only made on the large scale, and never by the retailer; nor of those chemical arts which have no immediate connexion with the trade.

ACETATES. Such as are employed in medicine will be found in the Pocket Formulary. The only Acetates requiring notice here are—

ACETATE OF ALUMINA. This is made, for the use of dyers and calico printers, by decomposing acetate of lime by alum. It may be conveniently made by adding to a boiling solution of 5 parts of alum, a solution of 6 parts of sugar of lead. When the mixture is cold, the clear liquid is poured off; from which the dry salt may be obtained by careful evaporation. It contains, besides acetate of alumina, some sulphate of potash.

ACETATE OF IRON, OR IRON LIQUOR. Usually obtained, for the use of dyers, by digesting scraps of iron in redistilled wood-vinegar.

ACETATE OF LIME. Impure acetate (or pyrolignite) of lime, is made by neutralizing pyroligneous acid with cream of lime or chalk, and evaporating to dryness. By using pure acetic acid a purer acetate is obtained.

ACETATE OF SODA. By mixing the above impure acetate of lime, in solution, with a solution of sulphate of soda, filtering, and evaporating the clear liquid, an impure acetate of soda is obtained; which by repeated crystallization is rendered colourless, and fit for yielding pure concentrated acetic acid by distillation with sulphuric acid.

ACID, ACETIC. See VINEGAR. For the methods of procuring the concentrated acetic acid, see *Acidum Aceticum*, Pocket Formulary. The process of the Edinburgh Pharmacopœia yields a stronger acid than that of the London Pharmacopœia. A stronger acid, very suitable for making aromatic spirit of vinegar, is procured by distilling crystallized verdigris in an earthen retort coated with clay, into a series of 3 globes, connected by opposite tubulures, and kept constantly cool, the last being furnished with a WELTER'S safety tube. The acid which comes over is usually coloured, and requires to be rectified by a slow and careful redistillation in a glass retort. Acetic acid of moderate strength may be rendered stronger by redistilling it over acetate of potash, rejecting the first portions that come over, and taking care that the temperature does not rise above 572° F. By redistilling it, rejecting the first and last portions, glacial acetic acid is procured. The same acetate of potash may be used repeatedly.

ACID, CHROMIC. It may be obtained pure by mixing bichromate of potash with nitrate of silver in solution, washing the precipitate, and decomposing it with an equivalent quantity of muriatic acid. In a few minutes the clear solution may be poured off. A cheaper method, where great purity is not required, is to add from 120 to 150 volumes of strong sulphuric acid to 100 volumes of a cold saturated solution of bichromate of potash. Dry the acid which separates on porous tiles. Or add 2 parts of concentrated sulphuric acid to 1 part of dry chromate of lead, leave the paste for 12 hours, then treat it with water; decant the clear red liquid, and evaporate it in a retort. Keep it boiling for some time, then allow it to cool. Most of the acid separates in crystals; more may be obtained by evaporating the solution till its density is 1.55.

ACID, FLUORIC. The anhydrous acid is made by distilling pow-

dered fluor spar with twice its weight of oil of vitriol, in a leaden or rather *silver* alembic, the pipe of which fits into a bottle of the same material, surrounded with ice. But as it is usually required in a diluted state, water equal in weight to the spar may be put into the receiver. Great care must be taken, as the acid, both in its gaseous and liquid form, is very destructive.

ACID, MURIATIC, OR HYDROCHLORIC. Commercial muriatic acid is largely produced by the action of sulphuric acid on common salt, in the manufacture of sulphate of soda for the purpose of making soda ash and washing soda by the decomposition of that salt. From the impurity of the ingredients it is apt to be contaminated with arsenic and sulphurous acid; as well as sulphuric acid, and iron. It may be purified from arsenic by redistilling it over strips of bright copper. Dr. GREGORY'S method of procuring *pure* muriatic acid is as follows:—Put into a matrass 6 parts, by weight, of purified salt, and 10 oz. of oil of vitriol previously diluted with 4 of water and cooled. Fix in the matrass a tube twice bent at right angles and having a bulb blown on the descending limb. Into a bottle surrounded with ice and water introduce distilled water equal in weight to the salt employed, and let the bent tube dip an eighth of an inch into the water. Apply a gentle heat of a sand-bath to the matrass as long as acid comes over. In about 2 hours the operation will be finished. The water is increased two-thirds in bulk, and converted into hydrochloric acid of 1.14 or 1.15 sp. gr. To procure it of 1.21 sp. gr. employ part of this acid during the first half of a similar operation, and it will speedily be saturated. See also *Acidum Hydrochloricum purum*, Pocket Formulary. Mr. PHILLIPS says a perfect colourless acid may be obtained from the commercial sulphuric acid and common salt.

ACID, NITRIC, AND FUMING NITROUS ACID. Put into an iron or stoneware pot, nitre or nitrate of soda, and add rather more than half its weight of strong sulphuric acid, and lute on a stoneware head. The vapour is conducted into a series of two-necked stoneware vessels containing a sixth of their capacity of water. The acid is usually obtained of the density of about 1.45. It is coloured with nitrous acid gas, forming what is commonly but improperly termed *nitrous acid*. By gently heating the coloured acid in a retort, the nitrous acid is driven off, and the acid remains nearly colourless, usually of the density of 1.38, to 1.42. This is weaker than the Pharmacopœia directs, but sufficiently strong for most purposes. (See *Acidum*



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tin and lead, and frequently with arsenic, or selenium, and compounds of nitrogen. The purification of oil of vitriol by distillation is attended with some difficulty. No luting must be employed; and to prevent the violent jumpings which attend the ebullition, strips of platina, or fragments of rock crystal, should be introduced into the retort. The receiver should be large, and the whole defended from currents of cold air. The first portions which come over should be rejected till the indigo test proves it to be free from nitric acid. By boiling a portion of the acid with a few drops of solution of sulphate of indigo, the latter is discoloured if nitric acid is present. The Edinburgh Pharmacopœia directs the nitrous acid to be got rid of by heating 8 fluid ounces of commercial oil of vitriol to near the boiling point with from 10 to 15 gr. of sugar. When sulphuric acid is diluted with water, the *metallic* impurities may be removed by a little solution of sulphuret of barium, and allowing the precipitates to subside, when the pure diluted acid may be decanted for use.

DRY OR ANHYDROUS SULPHURIC ACID. Into a retort, placed in a freezing mixture, and having a receiver attached, put some dry phosphoric acid (see above), and add $\frac{3}{4}$ ths of its weight of strong sulphuric acid. Remove the retort from the freezing mixture, and place the receiver attached to it there; a gentle heat being now applied to the retort, the anhydrous acid is obtained in silky crystals.

ACID, SULPHUROUS. For the mode of obtaining an aqueous solution of this acid, see Acidum Sulphurosum, Pocket Formulary. The following are cheaper methods of obtaining it for bleaching purposes, &c. BERTHIER directs a mixture of 100 parts black oxide of manganese, and 12 or 14 of sulphur, to be heated in a glass retort, and the gas received into water kept very cold. Mr. REDWOOD directs $\frac{1}{2}$ oz. of powdered charcoal to be acted on by 4 fluid oz. of oil of vitriol. Treacle is sometimes used instead of charcoal.

ACID, TANNIC. *Tannin.* Place coarsely-powdered Aleppo galls in a damp cellar for 3 or 4 days, then mix it with sufficient sulphuric ether to form a soft paste. Place this in a close vessel for 24 hours, then wrap it in linen ticking, and submit it to the action of a powerful press. Scrape off the tannin from the surface of the ticking, remove the *cake* from within it, rub this into powder, form it into a paste with a mixture of 100 parts of ether and 6 of water, well shaken together before pour-

ing it on the galls, and proceed as before. Let the syrupy liquid thus obtained be thinly spread on plates, and dried at 113° Fahrenheit.

ACIDS, MIXED, FOR GALVANIC BATTERIES. 1. For troughs, for general purposes, medical galvanism, &c.: Nitric acid 1 fluid oz., sulphuric acid 1½ fluid oz., water 4 pints.

2. Dr. FARADAY. Oil of vitriol 2 fluid oz., nitric acid 1 fluid oz., water 5 pints. It should be tried by dipping into it a piece of sheet zinc. A continuous succession of *small* bubbles should be produced.

3. For Mr. SMEE'S Battery. One measure of sulphuric acid to 7 of water. The intensity of its action is increased by the addition of a few drops of nitric acid, but this tends to destroy the plates. In electro-metallurgy the water should only contain a sixteenth of sulphuric acid.

4. For Mr. GROVES' Battery: For the outer vessel, 1 part sulphuric acid to 7 of water: for the inner, concentrated nitric acid.

5. For DANIEL'S Battery: For the porous tube containing the zinc, 1 part of sulphuric acid with 10 of water. For the outer cylinder, a saturated solution of sulphate of copper, with a tenth part of sulphuric acid.

ACIDULATED KALI. See BEVERAGES.

ALCOHOL. There is, perhaps, no better method of obtaining absolute alcohol than that of the Edinburgh Pharmacopoeia. See Alcohol, Pocket Formulary.

ALLOYS AND AMALGAMS. A few only of these metallic compounds require notice here:—

Fusible Metal. 1. Tin 8 parts, lead 4, bismuth 3; melt together, removing the scum. Used as a metal-bath.

2. DARCEY'S, for the same purpose: Bismuth 8 parts, lead 5, tin 3.

3. Lead 3 parts, tin 2, bismuth 5. This melts at 197° Fahrenheit.

4. For anatomical injections: Melt together with a gentle heat 174 parts of tin, 312 of lead, 514 of bismuth, with a little charcoal; remove from the fire, and add 100 parts of mercury, previously heated. It is fluid at 173°; solid at 140° Fahrenheit.

Bronze. 1. For medals and small castings: Copper 95, tin 4.

2. Copper 89, tin 8, zinc 3.

3. *Ancient.* Copper 100, tin 7, lead 7.
4. *KELLY'S.* Copper 91, zinc 6, tin 2, lead 1.
5. For gilding: Copper 14, zinc 6, tin 4.
6. *Bell-metal.* Copper 78, tin 22.

German Silver. 1. Copper $40\frac{1}{2}$, nickel $31\frac{1}{2}$, zinc $25\frac{1}{2}$, iron $2\frac{1}{2}$.

2. Pure copper 55, nickel 23, zinc 17, iron 3, tin 2.

Gold, Factitious. Platina 7, copper 16, zinc 1; fuse together.

Common Gold. Copper 16, silver 1, gold 2.

Or-molu. Copper 45 to 48, zinc 52 to 55.

Solders. 1. For Gold: Pure gold 12 parts, silver 2, copper 4.

2. *Soft Solder.* Tin 2 parts, lead 1.

3. For brass: Brass 2 parts, zinc 1.

Alloys for Electrottype. Clichée Moulds. Bismuth 8 parts, tin 4, lead 5, regulus of antimony 1; melt repeatedly together, and pour out in drops, till perfectly mixed.

Amalgam, for Electrical Machines. 1. Fuse 1 oz. of zinc with $\frac{1}{2}$ oz. tin, at as low a temperature as possible; then add $1\frac{1}{2}$ oz. of quicksilver, previously made hot; mix, pour out, and when cold reduce it to powder, and triturate it with sufficient quicksilver to bring it to a proper consistence.

2. Zinc 1 part, tin 1, quicksilver 2; melt together.

3. Zinc 2, tin 1, mercury 5.

4. *LA BEAUME'S.* Pour into a chalked wooden box 6 oz. of quicksilver; put into an iron ladle $\frac{1}{2}$ oz. beeswax, with 2 oz. purified zinc, and 1 oz. of grain tin; set it over a brisk fire, and when the metals are melted, pour them into the box, avoiding the dross. When cold, reduce it to powder, and mix it with lard. Keep it in a box, covered with tallow and spread it on leather for use.

Liquid Amalgam, for Silvering Globes, &c. Pure lead 1 oz., grain tin 1 oz.; melt in a clean ladle, and immediately add 1 oz. of bismuth. Skim off the dross, remove the ladle from the fire, and before the metal sets, add 10 oz. of quicksilver. Stir together, avoiding the fumes.

Amalgam for Varnishing Figures. Melt 2 oz. of tin with $\frac{1}{2}$ oz. of bismuth, and add $\frac{1}{2}$ oz. of quicksilver. When cold, grind it with white of egg, and apply to the figure.

ALUM. It is prepared by lixiviating calcined aluminous schist, and concentrating the solution to 1.4 or 1.5 density, and adding the requisite quantity of muriate of potash, soap-boilers' ash, or kelp, to supply the alkali. By recrystallization it is obtained colourless. In some manufactories sulphate of ammo-



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5. Mr. PIGNE, for preserving pathological specimens. Cressote 3 to 6 drops, water a pint.

6. Dr. STAPLETON, for pathological specimens. In a quart of saturated solution of alum, dissolve $\frac{1}{2}$ dr. of nitre. A recent preparation immersed in this liquid, becomes discoloured; but within a few days the colour returns. It is then put up in a saturated and filtered solution of alum.

7. Chloride of tin 4 parts (or corrosive sublimate 5 parts), in 100 of water, with 2 of muriatic acid.—Mr. COOLEY.

8. *For preserving Animals.* Alum 32 oz., nux vomica 3 oz., water 5 pints; boil to $4\frac{1}{2}$ pints. When cold, filter or decant. This serves for injection. The residue, mixed with yolk of egg, is used for anointing the interior of the skin, and fleshy parts left in skinning animals.

9. *For preserving Feathers.* Strychnine 16 gr., rectified spirit a pint. See STUFFING BIRDS, &c.

ANNOTTO, PURIFIED. To a boiling solution of pearlash add as much annotto as it will dissolve. When cold, decant the clear solution, and neutralize with diluted sulphuric acid, avoiding any excess. Wash the precipitate with a little cold water, and dry it.

ANNOTTO, SOLUTION OF. Boil equal weights of annotto and pearlash with water, and dilute to the required colour.

ANTI-ATTRITION, AND AXLE GREASE. 1. One part of fine black lead, ground perfectly smooth, with 4 parts of lard. Some recipes add a little camphor.

2. BOOTH'S AXLE GREASE. (Expired patent.) Dissolve $\frac{1}{2}$ lb of common soda in 1 gallon of water, add 3 lb of tallow, and 6 lb palm oil. (or 10 lb of palm oil only); heat them together to 200 or 210° F.; mix, and keep the mixture constantly stirred till the composition is cooled down to 60 or 70°. A thinner composition is made with $\frac{1}{2}$ lb of soda, a gallon of water, a gallon of rape oil, and $\frac{1}{4}$ lb of tallow or palm oil.

ANTI-FERMENT. Sulphate of lime; or equal parts of sulphate of lime and ground black mustard seed. Used to check the fermentation of cider, &c.

AQUA FORTIS. Double aqua fortis is nitric acid of 1.36 specific gravity; single aqua fortis, about 1.22.—Dr. PEREIRA. A compound acid was formerly used under this name by dyers, and for cleaning brass, consisting of strong spirit of nitre 20 lb, oil of vitriol 7 lb, water 30 lb.—ELABORATORY LAID OPEN.

AQUA REGIA. See **NITROMURIATIC ACID**, above.

ARABINE. Gum Arabic dissolved in water, and precipitated by alcohol.

ARGENTUM MUSIVUM. Fuse $\frac{1}{2}$ oz. each of grain tin and bismuth in a crucible, and add $\frac{1}{2}$ oz. of mercury.

AURUM MUSIVUM. See **Stannum Sulphuretum**, **Pocket Formulary**. Dr. URE directs 12 oz. of tin to be melted, and 3 oz. of mercury added. This amalgam is triturated with 7 oz. of sulphur, and three of sal ammoniac, and the powder put into a matrass, which is bedded deep in sand, and kept for several hours at a gentle heat. The heat is then raised, and continued for several hours, taking care not to raise it so high as to blacken the mass.

ARBOR DIANÆ. See **TREES**, Metallic.

AROMATIC PASTILS. See **PERFUMERY**.

BALDWIN'S PHOSPHORUS. Heat nitrate of lime till it melts; keep it fused for 10 minutes, and pour it into a heated iron ladle. When cool, break it into pieces, and keep it in a closely-stoppered bottle. After exposure to the sun's rays, it emits a white light in the dark.

BALLS, FOR HORSES. See **Veterinary Formulary**.

BALLS, ASH. The ashes of fern, or other kinds of wood-ashes, made into balls.

BALLS, HEEL. 1. Melt together 4 oz. of mutton suet, 1 oz. of bees'-wax, 1 oz. of sweet oil, $\frac{1}{2}$ oz. oil of turpentine, and stir in 1 oz. of powdered gum Arabic, and $\frac{1}{2}$ oz. of fine lamp-black.

2. Bees'-wax 8 oz., tallow 1 oz., powdered gum 1 oz., lamp-black q. s. These are used, not merely by the shoemaker, but to copy inscriptions, raised patterns, &c., by rubbing the ball on paper laid over the article to be copied. ULLATHORNE'S Balls answer the purpose very well. For copying ancient monumental brasses, a similar compound, coloured with bronze powder instead of lamp-black, is sometimes employed.

BALLS FOR SCOURING—BREECHES BALLS, CLOTHES BALLS.

1. Bath-brick 4 parts, pipe-clay 8 parts, pumice 1, soft-soap 1; ochre, umber, or other colour to bring it to the desired shade q. s.; ox-gall to form a paste. Make it into balls, and dry them.

2. Pipe-clay 4 oz., fuller's-earth $\frac{1}{2}$ oz., whiting $\frac{1}{2}$ oz., white pepper $\frac{1}{4}$ oz., ox-gall sufficient to form it into a paste.

3. Pipe-clay 3 oz., white pepper 1 dr., starch 1 dr., orris powder $1\frac{1}{2}$ dr. It may be kept in powder, or formed into balls, as above.

BALLS, BLACKING. See BLACKING, below.

BALLS, FURNITURE. See FURNITURE PASTE.

BEEBLE WAFERS. These are made with flour, sugar, and red lead, heated in wafer irons.

BENZOLE. A volatile liquid, procured by distilling light coal naphtha at a temperature not exceeding 200° F., by the method patented by Mr. MANSFIELD. It is a solvent for gutta percha; and also, with heat and long digestion, of Indian rubber.

BEVERAGES, AND POWDERS FOR PREPARING THEM. See above, page 223.

BIRD LIME. Boil the middle bark of the holly 7 or 8 hours in water: drain it, and lay it in heaps in the ground, covered with stones, for 2 or 3 weeks, till reduced to a mucilage. Beat this in a mortar, wash it in rain-water, and knead it till free from extraneous matters. Put it into earthen pots, and in 4 or 5 days it will be fit for use.

BISULPHURET OF CARBON. This is used in the arts, as a solvent for India rubber, gutta percha, &c. To procure it, MULDER recommends the following process as the most convenient. Provide an iron bottle (a quicksilver bottle answers very well) and make a second opening into it. To one opening adapt a copper tube bent twice at right angles; and to the other a straight tube dipping into the bottle. Having nearly filled the bottle with pieces of charcoal (recently heated to redness), and having screwed on the bent and straight tubes, place the bottle in a furnace, closing the mouth of the latter with a stone or clay cover in two pieces, hollowed in the centre so as to fit the upper part of the bottle, and defend it from the action of the fire. Connect the curved tube with a WOOLFE'S bottle half filled with water, and placed in a freezing mixture; and when the iron bottle is sufficiently heated, introduce by the straight tube fragments of sulphur, and immediately close the mouth of the tube with a plug. The bisulphuret, as it comes over, falls to the bottom of the water. Separate it from the water, and distil over dry muriate of lime.

BLACKING, LIQUID, FOR SHOES, &c. [*Note.*—By ivory-black, bone-black, which is usually sold under this name, is intended.



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an unchemical composition ; but is inserted (as are many similar ones) because it is in actual use. The next is of a different character.

2. Melt 8 oz. of bees'-wax in an earthen pipkin, and stir into it 2 oz. of ivory-black, 1 oz. of Prussian blue ground in oil, 1 oz. of oil of turpentine, and $\frac{1}{4}$ oz. of copal varnish. Make it into balls. To be applied with a brush, and polished with an old handkerchief.

BLACK REVIVER. 1. Bruised nutgalls 1 lb, logwood 1 lb, water 5 quarts ; boil to 4 quarts, and add sulphate of iron 4 oz. ; dissolve, and strain. When cold, add 8 oz. of ox-gall.

2. Galls 3 oz., logwood 1 oz., copperas, iron filings, and sumach, of each 1 oz., vinegar 2 pints.—GRAY'S SUPPLEMENT.

BLACK JAPAN. True asphaltum $1\frac{1}{2}$ oz., boiled linseed oil 4 pints, burnt umber 4 oz. Heat together till the whole is incorporated, remove from the fire, and when sufficiently cool, add as much oil of turpentine as will bring it to a proper consistence.

BLEACHING LIQUID. Solutions of chloride of lime, and chloride of soda, are sold for this purpose, with directions for use. The following is also used :—Mix 3 lb of common salt and 1 lb of black oxide of manganese with as much water as will form a paste. Put the mixture into a retort, and add 2 lb of oil of vitriol previously diluted with 4 lb of water. Pass the gas into a solution of 1 lb of common pearlash, or 11 oz. of caustic potash, in 6 lb of water. The retort may be placed, after a short period, in hot water, to extricate the remaining gas. In bleaching cotton by chloride of lime, 1 lb is dissolved in 3 gallons of water for each pound of cloth ; it is afterwards passed through diluted muriatic or sulphuric acid, and then washed.

BONES, SULPHATED. Bones, burnt white, and coarsely ground 2 lb ; oil of vitriol 1 lb ; water 3 lb ; macerate at a gentle heat for 2 or 3 days. Or, to a bushel of ground bones add from 10 to 14 lb of oil of vitriol, previously mixed with half its bulk of water. It is sometimes mixed with an equal weight of salt, and a sufficient quantity of bran. Turnip seed may be mixed with this compound, and sown together.

BOOT-TOP LIQUID. 1. Solution of muriate of tin 3 dr. ; French chalk, or Venetian talc, in powder, 1 oz. ; salt of sorrel $\frac{1}{2}$ oz. ; flake white 1 oz. ; burnt alum $\frac{1}{2}$ oz., powdered cuttle-fish bone 1 oz., white arsenic 1 oz., boiling water a quart. Probably sulphate of barytes might be substituted for arsenic, the use of which it is desirable to discourage.

2. Sour milk 3 pints, cream of tartar 2 oz., oxalic acid 1 oz., alum 1 oz.—Mr. REDWOOD.

3. Wash the tops with soap and water, and scrape them with the back of a knife. Then apply the following with a harefoot brush:—Oxalic acid 1 oz., water a pint. Use the back of a knife as before; then polish with the following:—Powdered gum Arabic $\frac{1}{2}$ oz., red spirits of lavender 2 oz., powdered turmeric $\frac{1}{2}$ oz.; pencil this over the top, let it half dry, then polish by rubbing it, one way only, with a flannel till it shines.

4. Sour milk 3 pints, butter of antimony 2 oz., cream of tartar 2 oz., citric acid, alum, burnt alum, of each 1 oz.—GRAY'S SUPPLEMENT.

5. *White Top.* One ounce each of magnesia, alum, cream of tartar, and oxalic acid; $\frac{1}{4}$ oz. salt of sorrel; and $\frac{1}{4}$ oz. of sugar of lead; dissolve in a quart of water; and apply with a sponge.

6. *Brown Top.* Oxalic acid, alum, annotto, of each 1 oz.; isinglass $\frac{1}{2}$ oz.; sugar of lead $\frac{1}{2}$ oz.; salt of sorrel $\frac{1}{4}$ oz.; boil together in a quart of water for 10 minutes. Apply with a sponge.

BOOK-BINDERS' STAINS, FOR LEATHER. *Black.* A solution of 1 part of sulphate of iron in 6 of water. *Blue.* A solution of indigo. (See CHEMIC BLUE.) *Brown.* A solution of pearl-ash, or of common soda.

BOOT POWDER. Finely-powdered French chalk, or Venetian talc.

BREAD, UNFERMENTED. See DIETETIC ARTICLES, p. 230.

BRONZE POWDER. The best methods of preparing these powders are probably kept secret. The following are some of the published recipes:—

1. Gold leaf, or alloys of gold, reduced to powder by grinding them with sulphate of potash, or with honey, and washing away the extraneous matter with hot water, and drying the metallic powder.

2. Dutch metal, and other similar alloys, treated in the same way.

3. Verdigris 4 oz., tutty 2 oz., sublimate 1 dr., borax 1 dr., nitre 1 dr.; mix them into a paste with oil, and fuse the mixture in a crucible. This has failed in some hands—perhaps from the tutty being factitious.

4. Mix together 100 parts of sulphate of copper, and 50 of crystallized carbonate of soda; apply heat till they unite. Powder the mass, when cold, and add 15 parts of copper filings;

mix well, and keep it at a white heat for 20 minutes. Wash and dry the product.

See also AURUM MUSIVUM, and ARGENTUM MUSIVUM, above.

BRONZING LIQUIDS, FOR BRONZING COPPER MEDALS, FIGURES, INSTRUMENTS, &c. 1. Sal ammoniac 1 dr., oxalic acid 15 gr., vinegar a pint; after well cleaning the article to be bronzed, warm it gently, and brush it over with the liquid, using only a small quantity at a time. When rubbed dry, repeat the application till the desired tint is obtained. [For copper medals, electrotypes casts, &c.]

2. Sal ammoniac 1 oz., cream of tartar 3 oz., salt 6 oz.; dissolve in a pint of hot water, add 2 oz. of nitre, and 2 oz. of nitrate of copper dissolved in $\frac{1}{2}$ pint of water.

3. Salt of sorrel 1 oz., sal ammoniac 2 oz., white vinegar 14 oz. [To give an antique appearance to bronze figures, &c.]

4. A diluted solution of muriate of platina. [For copper binding-screws, and other small articles.]

5. A weak solution of hydro-sulphuret of ammonia, or of sulphuret of potassium. [For electrotypes medals. Another method is the following:—Immediately on removing the electrotypes cast from the solution, brush it over with good black lead; then heat it moderately, and brush it over with a painting brush, the slightest moisture being used.]

BRONZING BALL. See BALL (HEEL).

BROSSE DE CORAIL. The roots of lucern (*medicago sativa*) cleaned, dried, and hammered at the end. Used as a tooth-brush.

BROWNING, OR BRONZING LIQUIDS, FOR GUN BARRELS. 1. Aquafortis $\frac{1}{2}$ oz., sweet spirit of nitre $\frac{1}{2}$ oz., spirit of wine 1 oz., sulphate of copper 2 oz., water 30 oz., tincture of muriate of iron 1 oz.; mix.

2. Sulphate of copper 1 oz., sweet spirit of nitre 1 oz., water a pint; mix. In a few days it will be fit for use.

3. Sweet spirit of nitre 3 oz., gum benzoin $1\frac{1}{2}$ oz., tincture of muriate of iron $\frac{1}{2}$ oz., sulphate of copper 2 dr., spirit of wine $\frac{1}{2}$ oz.; mix, and add 2 lb of soft water.

4. Tincture of muriate of iron $\frac{1}{2}$ oz., spirit of nitric ether $\frac{1}{2}$ oz., sulphate of copper 2 scruples, rain water $\frac{1}{2}$ pint. The above are applied with a sponge, after cleaning the barrel with lime and water. When dry, they are polished with a stiff brush, or iron scratch brush.

BRUNSWICK BLACK. Melt asphaltum, and add to it half its



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CAMPBOR BALLS. See SKIN COSMETICS, after PERFUMERY.

CANDIES. These belong rather to the confectioner than the druggist. The green stalks of angelica, the peels of orange, lemon, and citron, green roots of ginger, &c., are first boiled in water till soft, then in syrup till they are transparent, and dried in a stove, at a heat not exceeding 104° F. Candied horehound is made by boiling lump sugar with a little strong decoction or infusion of dried horehound, till a portion taken out and cooled becomes solid. It is then poured on to a slab, or into paper or tin moulds dusted with powdered sugar.

CANTON'S PHOSPHORUS. Put calcined oyster shells in layers, alternately with sulphur, and heat strongly in a covered crucible for an hour.

CAOUTCHOUC, SOLVENTS FOR. See SOLVENTS.

CAPSULES, GELATINOUS. These are used to contain copaiva and other nauseous liquids which do not dissolve gelatine, so that they may be swallowed without inconvenience. They are made by "dipping the bulbous extremity of an iron rod into a concentrated solution of gelatine. When the rod is withdrawn, it is to be rotated, in order to diffuse the gelatine equally over the bulb." When sufficiently hardened, they are removed, placed on pins to dry, and, when dry, filled with the balsam or oil, and the orifice closed with liquid gelatine. They are usually of an olive form, and contain 10 gr. of balsam in each. See Dr. PEREIRA'S "Elements," article COPAIVA. M. GIRAUD recommends the following composition for capsules:—Transparent gelatine 12 parts, syrup of gum 2 parts, syrup 2 parts, water 10 parts. Melt it in a water-bath, remove the scum, and dip the mould, previously oiled, into the compound.

CARBON. See CHARCOAL.

CARBONIC ACID. See GASES.

CARMINE. See PIGMENTS.

CASE HARDENING POWDER. This is merely ferroprussiate of potash, dried, and finely powdered. By sprinkling it on iron heated to bright redness, the metal becomes case-hardened, or superficially converted into steel. The iron should be plunged into cold water as soon as the powder has acted on it. The following compound is used for the same purpose:—Sal ammoniac 2 oz., burnt bone dust 2 oz., HENWOOD'S composition (see HENWOOD'S COMPOSITION) $\frac{1}{2}$ oz. Used as the former.

CASSOLETTES. See PERFUMERY.

CAYENNE, SOLUBLE. See CONDIMENTS, p. 238.

CEMENTS AND LUTES, VARIOUS.

Shell-lac Cement, or Liquid Glue. Fine orange shell-lac, bruised, 4 oz., highly rectified spirit 3 oz. Digest in a warm place, frequently shaking, till the shell-lac is dissolved. Rectified wood naphtha may be substituted for spirit of wine, where the smell is not objectionable. A most useful cement for securely joining almost any material.

Shell-lac Cement without Spirit. Boil 1 oz. of borax in 16 of water, add 2 oz. powdered shell-lac, and boil in a covered vessel till the lac is dissolved. Cheaper than the above, and for many purposes answers very well. Both are useful in fixing paper labels to tin, and to glass when exposed to damp.

Armenian Cement, for Glass, China, &c. 1. KELLER'S. Soak 2 dr. of cut isinglass in 2 oz. of water for 24 hours; boil to 1 oz., add 1 oz. spirit of wine, and strain through linen. Mix this, while hot, with a solution of 1 dr. of mastic in 1 oz. of rectified spirit, and triturate with $\frac{1}{2}$ dr. powdered gum ammoniac, till perfectly homogeneous.

2. Dr. URE'S *Diamond Cement.* Isinglass 1 oz., distilled water 6 oz., boil to 3 oz., and add $1\frac{1}{2}$ oz. of rectified spirit. Boil for a minute or two, strain, and add, while hot, first, $\frac{1}{2}$ oz. of a milky emulsion of ammoniac, and then 5 dr. of tincture of mastic. [There are various kinds of this cement sold, and some of the improvements introduced by particular makers have not been made public.]

Cheese Cement, for Earthenware, &c. Mix together white of egg beaten to a froth, quicklime, and grated cheese, and beat them to a paste.

Curd Cement. Add $\frac{1}{2}$ pint of vinegar to $\frac{1}{2}$ pint of skimmed milk; mix the curd with the whites of 5 eggs well beaten, and sufficiently powdered quicklime to form a paste. It resists water, and a moderate degree of heat.

Cement for joining Spar and Marble Ornaments, &c. Melt together 8 parts of resin, 1 of wax, and stir in 4 parts, or as much as may be required, of Paris plaster. The pieces to be made hot.

SINGER'S Cement, for Electrical Machines and Galvanic Troughs. Melt together 5 lb of rosin and 1 lb of bees'-wax, and stir in 1 lb of red ochre (highly dried, and still warm), and 4 oz. of

Paris plaster, continuing the heat a little above 212° , and stirring constantly till all frothing ceases. Or (for troughs), Rosin 6 lb, dried red ochre 1 lb, calcined plaster of Paris $\frac{1}{2}$ lb, linseed oil $\frac{1}{4}$ lb.

Botany Bay Cement. Botany Bay gum, melted and mixed with an equal quantity of brickdust.

Cap Cement. As SINGER'S; but 1 lb of dried Venetian red may be substituted for the red ochre and Paris plaster.

Bottle Cement. Rosin 15 parts, tallow 4 (or wax 3) parts, highly dried red ochre 5 parts, or ivory black q. s. The common kinds of sealing-wax are also used.

TURNERS' Cement. Bees'-wax 1 oz., rosin $\frac{1}{2}$ oz., pitch $\frac{1}{2}$ oz. Melt, and stir in fine brickdust q. s.

Coppersmiths' Cement. Powdered quicklime, mixed with bullock's blood, and applied immediately.

Engineers' Cement. Equal weights of red and white lead, with drying oil, spread on tow or canvass. For metallic joints, or to unite large stones, in cisterns, &c.

Cement for Steam Pipes. Good linseed oil varnish ground with equal weights of white lead, oxide of manganese, and pipe clay.

Iron Cement, for closing the joints of iron pipes. Iron borings, closely powdered, 5 lb, powdered sal ammoniac 2 oz., sulphur 1 oz., water sufficient to moisten it. It quickly hardens; but if time can be allowed, it sets more firmly without the sulphur. It must be used as soon as mixed, and rammed tightly into the joints.

GAD'S Hydraulic Cement. Powdered clay 3 lb, oxide of iron 1 lb, boiled oil to form a stiff paste.

Cements for Masonry of Chambers for Chlorine, &c. Equal parts of pitch, rosin, and plaster of Paris.

Roman Cement. A mixture of clay, lime, and oxide of iron, separately calcined, and finely powdered. It must be kept in close vessels, and mixed with water when used.

MAISSIAT'S Cement, as an air-tight covering for bottles, &c. Melt India-rubber (to which 15 per cent. of wax or tallow may be added), and gradually add finely-powdered quicklime till a change of odour shows that combination has taken place, and a proper consistence is obtained.

Cement for attaching Metal Letters to Plate Glass. Copal varnish 15 parts, drying oil 5 parts, turpentine 3 parts, oil of turpentine



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of the lute mixed with water, then placed in the centre of the paste, rolled out to about $\frac{1}{4}$ or $\frac{1}{3}$ of an inch thickness, and the edges of the latter raised and moulded to the glass, taking care to press out all the air.

For cements for plugging teeth, see **TEETH COSMETICS**, page 222.

CHARCOAL. Wood charcoal is made by burning wood with only a partial access of air. For chemical purposes, that made in iron cylinders, in the manufacture of wood vinegar, is preferred.

CHARCOAL, ANIMAL. The most common form is that of bone-black (commonly called ivory-black), made by distilling bones, from which the grease has been removed by boiling, in iron or earthen retorts, the ammoniacal liquor, &c., being collected in proper receivers. The residue is bone-black. When used for the purpose of decolorization, further treatment is required: either the bone-earth may be entirely removed by muriatic acid, as directed in the *Pharmacopœia*; or more commonly, in the refining of sugar, and for other manufacturing purposes, this is only partially effected, in some such way as the following:—Mix 8 lb of the bone-black, coarsely powdered, with sufficient water to form a paste, and add 1 lb of muriatic acid. In an hour, pour boiling water on the mass; let it settle, pour off the liquid, add more water, and repeat this till the water comes off free from taste. Drain and press the black in a cloth, and dry it. Its power is increased by mixing it with a little potash, heating it to dull redness in a covered crucible, and again washing it.

CHAMELEON MINERAL. Mix equal weights of black oxide of manganese and pure potash, and heat them in a crucible. Keep the compound in closely-stopped bottles. A solution of it in water passes through various shades of colour from green to red.

CHEMIQUE, OR CHEMIC BLUE—SULPHATE OF INDIGO. To 7 or 8 parts of oil of vitriol, in a glass or earthen vessel placed in cold water, add gradually 1 part of fine indigo in powder, stirring the mixture at each addition with a glass rod, or piece of tobacco-pipe. Cover the vessel for 24 hours, then dilute with an equal weight of water. Sometimes it is sold without diluting. The German fuming acid answers best, 4 or 5 parts of it being sufficient for 1 of indigo. For dyeing silk, &c., carbonate of potash, soda, or ammonia, is added, to neutralize the acid, taking care not to add it in excess.

CHLORATE OF POTASH. Mix carbonate of potash with an equal weight of dry slaked lime; spread the mixture thinly in a suitable receiver or chamber, and pass chlorine gas into it as long as it is absorbed. Heat the mixture gently, to drive off any excess of chlorine, lixivate it with water, and concentrate the solution, so that the chlorate may crystallize, and the muriate of potash remain in solution.—GRAHAM. Or dissolve chloride of lime in water, add solution of muriate of potash, and boil to dryness. Dissolve the mass in hot water, and filter if necessary: on cooling, a large quantity of chlorate of potash is deposited.—LIEBIG.

CHLORIDE OF LIME, OR CHLORINATED LIME. *Bleaching Powder.* Chlorine gas (slowly evolved from a mixture of 10 parts of common salt and 10 to 14 parts of oxide of manganese, placed in an alembic of lead, and heated by steam, and from 12 to 14 parts of oil of vitriol previously diluted with a fourth of its weight of water, added) is conveyed into a chamber where sifted slake lime is thinly spread on shelves. It is so cheaply made by the large manufacturers for bleaching purposes, that it is seldom prepared by druggists. The liquid chloride of lime may be made either by triturating the dry chloride with a little cold water till perfectly smooth, then adding more water, and filtering the solution; or by passing chlorine gas into a mixture of lime and water. We have no standard solution in this country. The Paris Codex directs 1 part of dry bleaching powder to be diffused in 45 of water. SOUBEIRAN directs 1 part to 50; but prefers passing the gas from 1 part of oxide of manganese and 4 of muriatic acid into a mixture of 1 part of lime and 50 of water.

CHLORIDE OR HYPOCHLORITE OF POTASH. *Eau de Javelle.* Pass chlorine gas, as above, into a solution of 1 lb of carbonate of potash in a gallon of water. Or mix 8 oz. of dry chloride of lime with 6 pints of water; and dissolve 16 oz. of carbonate of potash in a quart of water. Mix the liquids, and filter.

CHLORIDE OF SODA, OR CHLORINATED SODA. See Soda Chlorinata, and Liquor Sodæ Chlorinatae, in the Pocket Formulary. A more ready way of preparing it, for other purposes than dispensing prescriptions is the following:—Diffuse 1 lb of chloride of lime in 30 lb of water. Dissolve 2 lb of crystallized carbonate of soda in 15 lb of water. Mix the solutions, let the mixture settle, pour off the clear liquid and filter it.

CHLORINE. See GASES.

CHLOROFORM. Into a copper still placed in a water-bath put 7 gallons of water; heat to 100° F.; add 10 lb of lime slaked in a solution of 20 lb of chloride of lime. Add 3 lb of rectified spirit; mix them well, lute on the head immediately, and raise the heat rapidly to 212° . When the extremity of the neck of the still becomes hot, damp the fire, and the distillation will continue regularly. When it ceases, add to what remains in the still $17\frac{1}{2}$ pints of water, raise the heat to 100° , add 8 lb of lime, and 20 lb of chloride of lime, stir carefully, add the distilled liquor from which the chloroform has been separated, with $1\frac{3}{4}$ pint of spirit; stir, and proceed as before. If the still is large enough, this may be repeated 3 or 4 times, with a constantly increasing product. The chloroform sinks to the bottom of the distilled liquid, and may be rectified by distilling it with oil of vitriol. Its density should not be less than 1.496; LIEBIG says 1.480, but at that density it is not pure. Chloroform may be obtained by a similar process from rectified wood naphtha (pyroxylic spirit), but it is contaminated with an empyreumatic oil, lighter than water, which cannot be entirely separated from it. It is therefore unfit for inhalation; but when rectified over sulphuric acid and chloride of calcium, may be used as a solvent. The process recommended by Dr. SIMPSON is that of DUMAS:—Chloride of lime in powder 4 lb, water 12 lb, rectified spirit 12 oz. Mix in a capacious still, and distil as long as a dense liquid, which sinks to the bottom of the water which comes over with it, is produced. It is rectified as the last.

CHOCOLATE. See Chocolata, Pocket Formulary.

CHROMATE OF POTASH. Mix 4 parts of chrome ore (chromate of iron) with 2 of pearlash and 1 of nitre, and heat the mixture in a reverberatory furnace for several hours. Lixivate, and crystallize. The chromate is converted into bichromate by adding sulphuric acid, or rather acetic acid, to the solution.

CHROMATE OF LEAD. See PIGMENTS.

CHROME OXIDE. Mix bichromate of potash with half its weight of muriate of ammonia; heat the mixture to redness, and wash the mass with plenty of boiling water. Dry the residue.

CHROMIC ACID. See ACID, CHROMIC.

COLLODION. Mix in a glass, stoneware, or porcelain vessel, 30 parts of strong sulphuric acid and 20 of powdered nitre; place the vessel in cold water; add 1 part of carded cotton-wool, and open and stir it in the acid mixture by means of 2 glass or por-



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Green. 1. An infusion of saffron added to the above blues.

2. Sulphate of copper 4 oz., bichromate of potash $\frac{1}{2}$ dr., water q. s.

3. By adding to the above deep or light blues, a small quantity of chromate or bichromate of potash till the desired tint is produced, various shades of green may be obtained.

4. Sulphate of copper, with muriate of soda, or muriate of iron.

5. *Emerald Green.* Nitrate of copper 3 oz., muriatic acid 4 oz., nitric acid 4 oz., water 2 gallons.

6. *Very Fine Emerald.* Nickel 3 oz., muriatic acid 4 oz., nitrous acid 2 oz.; digest for 24 hours, add 2 gallons of water, and filter.

Red. 1. Dried rose petals 8 oz., boiling water a gallon; digest for 12 hours, strain; digest the roses with more water, and strain; mix the infusions, add a pint of diluted sulphuric acid, and filter.

2. Cochineal $\frac{1}{2}$ oz., boiling water a gallon; digest, strain, add $\frac{1}{2}$ oz. of sulphuric acid, and water to make up 2 gallons.

3. *Crimson.* Iodine, and iodide of potassium, of each 2 dr.; triturate with a dr. of water, and add 3 gallons of water, and 4 oz. of muriatic acid.

4. *For External Lamps.* Camphine, strongly coloured with alkanet root.

Pink. Dissolve muriate or nitrate of cobalt in water, and add sufficient carbonate of ammonia to re-dissolve the precipitate first thrown down; then water q. s.

Purple. To the last add sufficient of the blue No. 3, to give the desired shade.

Lilac. Smalts 4 oz., nitric acid 4 oz.; let it stand 24 hours, add 2 gallons of water, 1 oz. of alum, and 4 oz. of water of ammonia. Or rather as the purple.

Yellow. 1. Chromate or bichromate of potash, with water q. s.

2. Bichromate of potash 2 dr., hot water, 4 oz.; dissolve, and add 4 oz. sulphuric acid, and 2 gallons of water.

3. Bichromate of potash, nitrate of potash, and water.

Amber. 1. Deep chrome yellow 3 oz., pearlash 9 oz., water 2 gallons; boil gently for half an hour, take it off to cool, and add 6 oz. muriatic acid, and water to the desired colour.

2. Dragon's blood, digested with sulphuric acid, and diluted with water to the desired shade.

Olive. Sulphate of iron 3 oz., sulphuric acid 3 oz., water 2

gallons; dissolve, and add the green No. 5, q. s. to brighten the colour.

LIQUID COLOURS FOR MAPS, &c. See **INKS, DYES, CHEMIQUE BLUE, LAKE, LIQUOR, &c.** Gamboge and some of the cake colours, mixed with water, are also used.

COLOURS FOR CONFECTIONERS. Many fatal accidents occur from confectionary being coloured with poisonous pigments. The following may be safely used:—Cochineal and its preparations, sap green, vegetable lakes, Prussian blue; a mixture of a yellow lake and Prussian blue for green.

COLOURING FOR BRANDY, &c. Sugar melted in a ladle till it is brown, and then dissolved in water, or lime-water.

COLOURS FOR LIQUEURS. Pink is given by cochineal; yellow by saffron or safflower; violet, by litmus; blue, by sulphate of indigo, saturated with chalk; green, by the last with tincture of saffron, or by sap green.

COLOURS FOR LEATHER. See **BOOKBINDERS' COLOURS.**

COLOURS, IMPROVED VEHICLES FOR. 1. One measure of saturated solution of borax, with 4 of linseed oil. The pigment may be ground with the oil or the mixture.

2. A solution of shell-lac with borax, as in making **COAT-HUPE'S Ink.** See **INK.**

3. Water colours, mixed with gelatine, and afterwards fixed by washing with a solution of alum.

4. Curd of milk, washed and pressed, then dried on fine net, and, when required for use, mixed with water and the colouring matter.

COPPER, OXIDE OF. The *black* oxide is made by calcining the nitrate; or by adding caustic potash to sulphate of copper, in solution, and washing and drying the precipitate. The red oxide may be made as directed for **Bronze Powder No. 4**, or in the moist way thus:—Pour a solution of 27 parts of sugar in 60 of water, over 9 parts of hydrated oxide of copper, weighed in its compressed but still moist state. A solution of 18 parts of caustic potash in 60 of water is added, and the whole agitated together without heat, and filtered. The clear liquid heated in a water-bath, and continually stirred, deposits the red oxide, and the liquid becomes colourless.

NITRATE OF COPPER. Dissolve copper in nitric acid to saturation, evaporate to dryness, re-dissolve, filter, and evaporate so that

the salt may crystallize. Or add a solution of sulphate of copper to a solution of nitrate of lead, so long as sulphate of lead is precipitated; filter, evaporate, and crystallize. For the other salts of copper, see Cuprum, Pocket Formulary.

COTTON POWDER. See GUN COTTON.

DEPILATORIES. See HAIR COSMETICS, after PERFUMERY.

DEXTRINE, OR STARCH GUM. Heat 4 gallons of water in a water-bath to between 77° and 86° Fahrenheit; stir in $1\frac{1}{2}$ or 2 lb of finely ground malt; raise the temperature to 140° , add 10 lb of potato or other starch; mix all thoroughly, raise the heat to 158° , and keep it between that and 167° for 20 or 30 minutes. When the liquid becomes thin, instantly raise the heat to the boiling point, to prevent the formation of sugar. Strain the liquor, and evaporate it to dryness, as the dextrine will not keep long in a liquid form. Another method is to boil solution of starch with a few drops of sulphuric acid, filter the solution, and add alcohol to throw down the dextrine. See GUM [BRITISH] for another form of dextrine.

DEXTRINE VARNISH. Dextrine 2 parts, water 6 parts, rectified spirit 1 part.—BARON DE SYLVESTRE.

DIASTASE. Macerate ground malt in cold water; strain with pressure, heat the clear solution in a water-bath to 158° Fahrenheit to coagulate the albumen; filter again, and add rectified spirit as long as diastase falls. If required very pure, re-dissolve it in water, and again precipitate with spirit. Dry it at a low temperature. Well-malted barley contains about 1 per cent. of pure diastase; one part of which is capable of converting 2,000 parts of starch into dextrine or sugar.

DIETETIC ARTICLES. For these see another division of the work.

DISINFECTING AND DEODORIZING COMPOUNDS. 1. Sir WM. BURNETT'S *Patent Solution*. It is made by dissolving zinc in commercial muriatic acid to saturation. It contains about 1 lb of chloride of zinc in each gallon.

2. ELLERMAN'S *Deodorizing Fluid*. This consists chiefly of a persalt of iron (the peracetate).

3. LEDOYEN'S *Solution*. This is a solution of nitrate of lead, and contains about 20 oz. of the salt in a gallon. The specific gravity should be 1.40. A similar compound may be made by mixing $13\frac{1}{2}$ oz. of litharge with 6 pints of water, and adding 12 oz. of nitric acid at 1.38 specific gravity (or 8 oz. at 1.50); and digesting at a gentle heat till the solution is complete.



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cipal colouring matters and mordants may here be noticed ; for further information, the reader is referred to “Dr. Ure’s Dictionary of the Arts,” “Parnell’s Applied Chemistry,” “Berthollet of Dyeing,” &c.

Blue Dyes. The most important of these is indigo. Being insoluble in water, it is prepared for use by sulphate of iron and alkalies or lime, by fermentation and alkalies, and by solution in sulphuric acid.

1. Triturate 1 lb of indigo with water and a little caustic potash ; then add 3 lb of lime, and afterwards $2\frac{1}{2}$ lb of sulphate of iron in solution, stirring them well together. The solution contains *disoxygenized indigo*, which is soluble in lime and alkalies. The cotton, linen, &c., to be dyed is repeatedly dipped in the solution, and afterwards rinsed in water soured with muriatic acid.

2. To 45 or 50 gallons of water, heated to 122° F., add 12 oz. of indigo, 8 oz. of madder, 8 oz. of bran, and 24 oz. of potash. In 36 hours, introduce 12 oz. more of potash, and the same in 12 hours after. In 72 hours, add a little lime to check the fermentation. Wool, silk, linen, and cotton may be dyed in this bath. Another form of this dye is—Indigo 2 parts, common soda 5 parts, lime 2 parts, clarified honey 1 part, water as much as may be sufficient. Keep it warm in an earthen jar till the indigo is dissolved.

3. A solution of indigo in sulphuric acid (see CHEMIC BLUE) is used as a dye, but a purer tone of colour is obtained by the following method :—The sulphate of indigo, mixed with water, is heated in a copper kettle ; wool is immersed in it, and the whole allowed to cool for 24 hours. The wool is then taken out, washed till the water comes off colourless and free from acid ; it is then boiled in water containing about 2 per cent of pearlash, or other alkaline carbonate, for a quarter of an hour. The quantity of pearlash should be equal to $\frac{1}{3}$ the weight of the indigo.

Logwood, with verdigris, or sulphate of copper, gives a blue dye, bordering on violet : with alum and tartar, a violet.

Prussian Blue is sometimes used in dyeing, after being triturated and digested for 24 hours with its weight of muriatic acid. A blue is also given by immersing silk, &c., in a solution of peracetate of iron, then in a solution of prussiate of potash, and afterwards rinsing it in acidulated water. Boiling water is sufficient to discolour articles thus dyed.

Red Dyes. The various shades of red are given by madder,

cochineal, lac dye, safflower, &c.; fixed by aluminous or tin mordants. Less permanent dyes are produced by Brazil wood, peach wood, and archill. Some of these require peculiar treatment. Safflower contains a yellow as well as a red colouring matter. The first, being soluble in cold water, is extracted by putting the safflower in a bag, and kneading it under water. The safflower, thus deprived of the yellow matter, yields its red colour to alkaline liquids; at the time of using which, lemon-juice or some other acid is added sufficient to saturate the alkali. Pink saucers are made by adding lemon-juice to an alkaline infusion of washed safflower, and allowing the colouring matter to deposit. Madder also contains a dun colouring matter, which deteriorates the red unless previously removed. This may be partially effected by washing it in cold water: another mode is to treat the madder with its own weight of sulphuric acid, which carbonizes the other matters, but leaves the red colour uninjured. As madder gives out but little of its red colouring matter to water, the decoction is not strained off, but the madder left in the bath. With acetate of iron, madder yields a purple tint. Lac dye, as imported from India, requires acids for its solution. See LAC SOLVENT, below.

Yellow Dyes. These are given by French berries, quercitron bark, turmeric, weld, yellow wood, &c. Also by some mineral colours, as the following:—The material to be dyed is first paddled in a solution of bichromate of potash (8 oz. to a gallon of water), then in a solution of acetate or nitrate of lead. Cotton is dyed yellow by alternate dippings in iron liquor and lime-water, or solution of pearlash. A yellow colour is given to silk by passing it through a mixture of equal measures of nitric acid (sp. gr. 1.288) and water, heated to 95° or 100° Fahrenheit, and from thence into a stream of water, or a mixture of chalk and water. This is termed mandarining.

Nankeen Dye is made by boiling annotto with an equal weight of pearlash in sufficient water. Orange is given by annotto; or by a mixture of red and yellow dyes; or by the successive application of acetate of alumina, a bath of quercitron, and the madder-bath.

Greens are given to woollens by first dyeing them blue, immersing the article in acetate of alumina, drying it, and finally immersing it in a quercitron-bath. For silks, the order is reversed.

Browns are given by catechu, by walnut-peels with alum, by red-wood and copperas, by madder and black dye, &c.

Drabs are given by fustic with iron liquor.

Blacks. These are given by salts of iron, with galls, sumach, and logwood. The best black cloths are previously dyed blue with indigo.

By the mixture of various dyes, every variety of shade is produced; and often several tints from one colouring matter, by the use of different mordants.

Mordants are earthy and metallic compounds, the base of which unites both with the fibres of the material to be dyed, and the colouring matter, thus rendering the dyes fixed. In *calico-printing*, the mordants are formed into a paste with some gum or other thickening material, and printed with wooden blocks on the cloth; which, after being dried, &c., is passed through the liquid dyes. The colouring matter combines with the parts so printed, but is easily discharged from the other parts.

The principal Mordants are the following:—

Alum Mordants. 1. Alum with one-fourth its weight of tartar.

2. ACETATE OF ALUMINA. (See page 246.) This is commonly prepared in solution for the purpose: 100 parts of alum in solution, with 150 parts of pyrolignite of lime of 20° B. density, is sometimes employed.

3. A solution of alum, with crystallized carbonate of soda, in the proportion of 1 oz. to each pound of alum.

4. HAUSMANN'S. This consists of a solution of alum with sufficient strong solution of caustic potash to re-dissolve the precipitated alumina; to which mixture a portion of linseed oil is added.

Tin Mordants. 1. *Protochloride of Tin.* To strong muriatic acid add gradually small pieces of grain tin till no more is dissolved. It may be obtained in crystals by evaporation. In re-dissolving them, it is necessary to add to the water a few drops of muriatic acid.

2. *Nitro-muriate, or Perchloride of Tin.* Mix 1 measure of nitric acid with 4 of muriatic acid, and add tin in small quantities as long as any is dissolved. Or mix 4 oz. of muriatic with 1 of nitric acid, and 1 of water; dissolve in it, by small portions at a time, 2 dr. of grain tin.

3. Aqua fortis (or equal parts of nitric acid and water) 8 parts, sal ammoniac 1 part; mix, and add gradually 1 part, or as much as it will dissolve, of grain tin.

4. Dr. BANCROFT'S *Murio-sulphate of Tin.* Digest 2 parts of tin with 3 of strong muriatic acid for an hour. Add very cautiously 1½ parts of oil of vitriol. Keep up the heat as long



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EGGS, TO PRESERVE. JAYNE'S Liquid (expired patent) is thus made:—Take a bushel of lime, 2 lb of salt, $\frac{1}{2}$ lb of cream of tartar, and water sufficient to form a solution strong enough to float an egg. In this liquid, it is stated, eggs may be preserved for two years.

ELAINE. See OLEINE.

ELECTROTYPE MOULDS. These are sometimes made with fusible metals; others with non-metallic compounds, having their surface covered with a conducting substance. The *fusible metal* is composed of 8 parts of bismuth, 3 of tin, and 5 of lead. The French Clichée moulds consist of 8 parts of bismuth, 4 of tin, 5 of lead, and 1 of antimony. These are repeatedly melted together till perfectly mixed; and after being poured out on a suitable surface, are well stirred, and the medal forcibly pressed on the compound at the moment it is about to become solid. *Composition Moulds* are made with 8 oz. of spermaceti, $1\frac{3}{4}$ oz. of white wax, and the same of strained mutton suet. These are melted together, and a little fine plumbago or of flake-white stirred in. To copy plaster casts, the cast is set in a plate of hot water, with its face above the water, till it has absorbed water; it is surrounded with a ring of cardboard, and the melted composition poured on it. The composition mould requires to be brushed over with finely-powdered genuine black lead. See SOLUTIONS.

ENGRAVING MIXTURE, FOR WRITING ON STEEL. Sulphate of copper 1 oz., sal ammoniac $\frac{1}{2}$ oz. Pulverize separately, adding a little vermilion to colour it, and mix with $1\frac{1}{2}$ oz. of vinegar. Rub the steel with soft soap, and write with a clean hard pen, without a slit, dipped in the mixture.

ETCHING FLUIDS. *For Copper.* 1. Aqua fortis 2 oz., water 5 oz.; mix.

2. CALLOT'S *Eau Forte, for Fine Touches.* Dissolve 4 parts each of verdigris, alum, sea-salt, and sal ammoniac, in 8 parts of vinegar; add 16 parts of water, boil for a minute, and let it cool.

For Steel. 1. Iodine 1 oz., iron filings $\frac{1}{2}$ drachm, water 4 oz.; digest till the iron is dissolved.

2. Pyroligneous acid 4 parts, by measure, alcohol 1 part; mix, and add 1 part of double aqua fortis (sp. gr. 1.28). Apply it from $1\frac{1}{2}$ to 15 minutes.

ETCHING VARNISHES. 1. White wax 2 oz., asphaltum 2 oz.;

melt the wax in a clean pipkin, add the asphaltum in powder, and boil to a proper consistence. Pour it into warm water, and form it into balls, which must be kneaded and put into taffeta for use.

2. White wax 2 oz., Burgundy pitch and black pitch each $\frac{1}{2}$ oz.; melt together, and add by degrees 2 oz. of asphaltum in powder, and boil till a drop cooled on a plate becomes brittle.

3. Equal quantities of linseed oil and mastic, melted together.

FILTERING POWDER. Fuller's earth washed, dried, and coarsely powdered; mixed with prepared bone-black (see CHARCOAL, ANIMAL) coarsely powdered.

FININGS, FOR GIN. Subcarbonate of potash 4 oz., roche alum 8 oz. Brewers' Finings consist of isinglass dissolved in stale beer.

FIRES, COLOURED. The ingredients for these compounds must be dry, not too finely powdered, and mixed very uniformly. The nitrate of strontian requires to be gently heated in an iron pan till it falls to powder. The chlorate of potash must be pulverized separately, and mixed very lightly with the other powders; the whole must then be passed through a sieve once or twice.

White Fires. 1. Nitre 30, sulphur 10, black antimony 5; mix.

2. Nitre 48, sulphur $13\frac{1}{4}$, black antimony 5 parts; mix.

3. Nitre 12, sulphur 16, black antimony 4, charcoal $\frac{1}{4}$, white arsenic $\frac{1}{4}$; mix.

4. Nitre $46\frac{1}{2}$, sulphur 23, meal powder $12\frac{1}{2}$, zinc filings 18.

5. For stars: Nitre 57, sulphur 28, zinc filings 15.

Blue and Purple Fires. 1. Chlorate of potash 9, dried verdigris 2, sulphur 1 oz.; mix.

2. Nitre 12, sulphur 16, black antimony 4, charcoal $\frac{1}{4}$ oz., orpiment $\frac{1}{4}$.

3. Chlorate of potash 9, sulphur 12, refiner's blue verditer 3 oz.; mix.

4. *Purple.* Chlorate of potash 5, nitrate of strontian 16, realgar 1, sulphur 2, lampblack 1; mix.

5. Nitre 5, sulphur 2, metallic antimony 1; mix.

6. *Purple.* Chlorate of potash 2 oz., sulphur 1 dr., oxide of copper 1 oz.; mix.

7. *Violet.* Chlorate of potash 1 dr., pure copper $\frac{1}{2}$ dr., sulphur a scruple, charcoal 16 gr.; mix.

Yellow Fires. 1. Nitre 3 oz., meal powder 3 oz., flowers of sulphur 3 oz., dried salt 2 oz.; mix.

2. Nitrate of soda 6, sulphur 1, lampblack 1; mix.

Red Fires. 1. Chlorate of potash 10, nitrate of strontian 80, sulphur 26, charcoal 6; mix.

2. Chlorate of potash 3, nitrate of strontian 24, sulphur 7, lampblack 1, sulphuret of antimony 2. [Half the lampblack or charcoal only may be added at first; and if on trial it does not burn freely, add more.]

3. Chlorate of potash 1, nitrate of strontian 5, sulphur 1, black sulphuret of antimony 1; mix.

4. Chlorate of potash $2\frac{1}{2}$, nitrate of strontian 20, sulphur $6\frac{1}{2}$, sulphuret of antimony 2, charcoal $\frac{1}{2}$; mix.

5. Chlorate of potash 5, nitrate of strontian 28, sulphur 13, sulphuret of antimony 4, lampblack 1.

6. Chlorate of potash 35, nitrate of strontian 360, sulphur 93, sulphuret of antimony 60, charcoal 10.

7. Nitrate of strontian 72, sulphur 20, coal-dust 2, gunpowder 6; mix.

Lilac Fire. Chlorate of potash 49, sulphur 25, dry chalk 20, black oxide of copper 6 parts. For pans.

Green Fires. 1. Sulphur $10\frac{1}{2}$, nitrate of barytes $62\frac{1}{2}$, chlorate of potash $23\frac{1}{2}$, sulphuret of arsenic $1\frac{3}{4}$, charcoal or lampblack $1\frac{3}{4}$; mix.

2. Sulphur 13, nitrate of barytes 77, chlorate of potash 5, metallic arsenic 2, charcoal 3; mix.

3. Nitrate of barytes 20, sulphur $1\frac{1}{2}$, sulphuret of antimony $\frac{1}{2}$, chlorate of potash 10, charcoal $\frac{1}{4}$; mix.

4. Nitrate of barytes $10\frac{1}{2}$ dr., sulphur 2 dr., chlorate of potash 162 gr., lampblack 26 gr.; mix.

COLOURED FLAMES. The flame of alcohol may be coloured by mixing certain salts with the spirit. A green colour is given by muriate of copper, or boracic acid: red by nitrate of strontian, nitrate of iron, or nitrate of lime; yellow by nitrate of soda, &c.

FLINTS, LIQUOR OF. Soluble glass. Mix 70 parts of pearlash, 54 of washing soda, and 152 of silicious sand, and fuse the mixture in a crucible. It is soluble in water, and the filtered solution evaporated to dryness leaves a transparent glass. It has been proposed to render wood, muslins, &c., incombustible by means of the solution. Dr. TURNER directs 1 part of carbonate of potash, and 3 of silica.

FLY POISON. A common poison for flies consists of white arsenic, or King's yellow, with sugar, &c., but the use of such com-



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2. Mix 4 oz. of nitrate of ammonia, 4 of crystallized carbonate of soda, and 4 of water. In 3 hours 10 oz. of water may be frozen.

3. Nitrate of ammonia and water, in equal proportions.

4. Nitrate of ammonia 5 parts, nitrate of potash 5, sulphate of soda, 8, water 16 parts.

5. Phosphate of soda 9 parts, diluted nitric acid 4 parts.

6. Sulphate of soda 8 parts, muriatic acid 5 parts.

7. Sulphate of soda 6 parts, nitrate of ammonia 5 parts, diluted nitric acid 4 parts.

With Ice.

1. Snow or pounded ice 2 parts, muriate of soda, 1 part.

2. Snow 2 parts, cryst muriate of lime 3 parts.

3. Snow 8 parts, muriatic acid 5 parts.

4. Snow or pounded ice 12 parts, muriate of soda, 5 parts, nitrate of ammonia 5.

5. Snow 7 parts, diluted nitric acid 4 parts.

6. Snow 3 parts, diluted sulphuric acid 2 parts.

FRENCH POLISH. This is an alcoholic solution of shell-lac; some of the softer resinous gums are usually added, but too much of them renders the polish less durable. Highly rectified spirit, not less than 60 over proof, should be used. Rectified wood naphtha is sometimes substituted, to which the unpleasant smell is the only objection.

1. Orange shell-lac 22 oz., rectified spirit 4 pints; dissolve.

2. Shell-lac 3 oz., gum sandarac $\frac{1}{2}$ oz., rectified spirit a pint.

3. Shell-lac 4 oz., gum thus $\frac{1}{2}$ oz., rectified spirit a pint; dissolve, and add almond or poppy oil 2 oz.

4. Shell-lac 5 oz., seed-lac 1 oz., gum juniper $\frac{1}{2}$ oz., mastic 1 oz., rectified spirit a pint.

5. Shell-lac 3 oz., seed-lac 3 oz., gum juniper $1\frac{1}{2}$ oz., mastic 1 oz., rectified spirit a quart.

6. Shell-lac 5 oz., oxalic acid $\frac{1}{2}$ oz., rectified spirit a pint; dissolve, and add linseed oil 4 oz.

7. Shell-lac 5 oz., gum benzoin 5 oz., oxalic acid 10 dr., rectified spirit a quart; dissolve, and add $\frac{1}{2}$ pint of linseed oil.

8. Shell-lac 8 oz., gum elemi $1\frac{1}{2}$ oz., rectified spirit 4 pints.

9. Shell-lac 10 oz., seed-lac 6 oz., gum thus 3 oz., sandarac 6 oz., copal varnish 6 oz., rectified naphtha 8 pints. Or dissolve 8 oz. each of seed-lac, gum thus, and sandarac, separately in a pint of naphtha; and 1 lb of shell-lac in 8 pints of naphtha. Then mix 6 oz. of copal varnish, 12 oz. of solution of seed-lac,

6 oz. of solution of frankincense, and 12 of solution of sandarac, and $5\frac{3}{4}$ lb of solution of shell-lac. Let the copal varnish be put into the tincture of shell-lac, and well shaken, and the other ingredients added. A correspondent informs me that this polish cannot be excelled.

10. Copal $\frac{1}{4}$ oz., gum Arabic $\frac{1}{4}$ oz., shell-lac 1 oz. Pulverize, mix, and sift the powders, and dissolve in a pint of spirit.

French polish is sometimes coloured with dragon's blood, turmeric root, &c. The general directions for preparing the polish are to put the gums with the spirit in a tin bottle, and set it on the hob, or in water, so as to keep it at a gentle heat, shaking it frequently. The cork should be loosened a little before shaking it, taking care that there is no flame near to kindle the vapour. When the gums are dissolved, let it settle for a few hours, and pour off the solution from the dregs. The method of using it is to have a roll of list, over the end of which five or six folds of linen rag are placed. The polish is applied to the linen with a sponge, and a little linseed oil is dropped on the centre of it.

FULMINATING COMPOUNDS. *Fulminating Powder.* Mix together in a warm mortar 3 parts of pulverized nitre, 2 of dry subcarbonate of potash, and 1 of sulphur. A small quantity heated on an iron shovel or ladle till it fuses, suddenly explodes with great violence. It should be used with great caution. Another kind of fulminating or detonating power is made by mixing 3 gr. of chlorate of potash with 1 of sulphur, by strongly triturating it with strong pressure in a marble mortar, a succession of sharp explosions is produced. The same mixture, or 6 gr. of chlorate of potash, 1 of sulphur, and 4 of charcoal, struck with a hammer on an anvil gives a loud report.

Chloride of nitrogen and *iodide of nitrogen* cannot be meddled with without extreme danger. *Fulminating gold*, and the *fulminating silver* prepared with ammonia, are also dangerous compounds, even in minute quantities. As they serve no practical use, the mode of preparing them is omitted.

Fulminating Mercury (HOWARD'S, as improved by Dr. URE). Dissolve by a gentle heat 1 oz. of quicksilver in $7\frac{1}{2}$ fluid oz. (or 10 oz. by weight) of nitric acid, of 1.4 specific gravity, in a glass retort, the beak of which is loosely inserted into a large balloon or bottle. When the mercury is dissolved, the solution, at the temperature of 130° Fahrenheit, should be slowly poured through a funnel into 10 fluid oz. of alcohol of .830 specific gra-

vity, contained in a vessel that will hold 6 times the quantity of ingredients. When the action ceases, pour the contents of the matrass on a double filter in a glass funnel; wash out any powder that may remain in the matrass with a little cold water, and throw this also on the filter; and wash the fulminate with more water till it passes free from acid. When sufficiently drained, lift the filter out of the funnel, and lay it open on a copper or earthen plate, and dry the fulminate at 212° , or under, by hot water or steam. Its manufacture requires great caution; some valuable lives have been sacrificed in its preparation.

Fulminating Silver (BRUGNATELLI'S). On 100 gr. of pulverized nitrate of silver, in an open glass vessel, pour first an oz. of alcohol, and then as much strong nitrous acid. The mixture boils, and gives out ethereal vapours. When all the powdered nitrate has taken the form of white clouds, cold distilled water must be added to suspend ebullition, otherwise the fulminate will be dissolved. Collect the powder on a filter, and dry it at a low temperature. Dr. TURNER directs 1 part of silver to be dissolved in 10 of nitric acid, at a gentle heat, 20 parts of rectified spirit to be added, and the mixture warmed. When it begins to boil, set it aside to cool, collect and wash the crystals on a filter, and carefully dry them. This is more violent and dangerous than fulminating mercury.

FUMIGATIONS. See Fumigatio, Pocket Formulary, for their medicinal uses. Though not strictly belonging to this place, it may be useful to give a few directions for the management of these important agents, as disinfectants and purifiers.

Chlorine Fumigation. This is probably the most effective in destroying noxious effluvia and putrid odours, and in checking the spread of contagious diseases. But as the gas is itself deleterious, except in a very diluted state, it must be used with caution in occupied apartments. To disinfect rooms from which the occupants have been removed, mix common salt and black oxide of manganese in equal quantities. Mix also in an earthen basin equal weights of oil of vitriol and water, and, when it has cooled, put it into a bottle for use. Into a china or earthen basin put from 1 to 3 oz. of the powder, according to the size of the room, and pour over it twice or thrice as much of the mixed acid. Place it in the apartment, and close the doors and windows for a few hours; the doors and windows are then thrown open till the smell of chlorine disappears. Dr. A. T. THOMSON directs a mixture of 1 oz. of salt and $\frac{1}{2}$ oz. of oxide of manganese to be put into a china cup, and 6 fluid drachms of oil of



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strong acetic acid, is employed as a disinfectant, but its efficacy is now considered to be very limited. It may be used by keeping the vinegar boiling over a lamp. A coarser method sometimes used is to plunge a red-hot poker into a cup of vinegar. Aromatic vinegar, merely held to the nose, may afford some slight protection to those who attend upon the sick.

Sulphur Fumigation. The fumes of burning sulphur may possibly have some effect in decomposing miasmata and noxious effluvia; but as they have no advantage over chlorine, and are very disagreeable, and otherwise objectionable, they are not likely to be employed. Formerly the following powder was burnt to destroy contagious miasmata. Flowers of sulphur, nitre, and powdered myrrh, of each 1 oz.

Tar Fumigation. The vapour of boiling tar has been used as a disinfectant, as well as a palliative in some affections of the respiratory organs. The usual plan is to keep the tar boiling over a lamp. See *Fumigatio Picea*, Pocket Formulary.

Benzoin, styrax, and other odoriferous gums, cascarilla bark, coffee berries, and the compounds termed aromatic pastilles, are burnt as purifiers and disinfectants. But little confidence is now placed in them as prophylactics against infection. The same may be said of camphor and tobacco. They should not be depended on to the exclusion of more efficient means, nor be made a substitute for free ventilation, and the removal of all sources of noxious effluvia, when practicable.

FUMIGATING PASTILLES. See PERFUMERY.

FURNITURE CREAM. 1. Soft water a gallon, soap 4 oz., bees-wax in shavings 1 lb; boil together, and add 2 oz. of pearlash. To be diluted with water, laid on with a paint-brush, and polished off with a hard brush or cloth.

2. Wax 3 oz., pearlash 2 oz., water 6 oz.; heat them together, and add 4 oz. of boiled oil, and 5 oz. spirit of turpentine.

3. The name is sometimes given to a mixture of 1 oz. of white or yellow wax, with 4 of oil of turpentine.

FURNITURE PASTE. 1. Melt 1 lb of bees-wax with $\frac{1}{4}$ pint of linseed oil, and add $\frac{1}{2}$ oz. of alkanet root; keep it at a moderate heat till sufficiently coloured; then remove from the fire, add $\frac{1}{4}$ pint of oil of turpentine, strain through muslin, and put it into small gallipots to cool.

2. Scrape 4 oz. of wax, and put it into a pipkin with as much oil of turpentine as will cover it, and $\frac{1}{4}$ oz. of powdered resin;

melt with a gentle heat, and stir in sufficient Indian red to colour it.

3. Equal weights of bees-wax, spirit of turpentine, and linseed oil.

FURNITURE OIL. 1. Linseed oil a pint; alkanet $\frac{1}{2}$ oz.; digest in a warm place till coloured, and strain.

2. The same with $\frac{1}{4}$ pint of oil of turpentine.

3. Linseed oil a pint, alkanet root 1 oz., rose-pink 1 oz.; let them stand in an earthen vessel all night.

4. A quart of linseed oil 6 oz. of distilled vinegar, 3 oz. of spirit of turpentine, 1 oz. of muriatic acid, and 2 oz. spirit of wine.

5. Linseed oil 8 oz., vinegar 4 oz. oil of turpentine, mucilage, rectified spirit, each $\frac{1}{2}$ oz.; butter of antimony $\frac{1}{4}$ oz.; muriatic acid 1 oz.; mix.

6. Linseed oil 16 oz., black rosin 4 oz., vinegar 4 oz., rectified spirit 3 oz., butter of antimony 1 oz., spirit of salts 2 oz.; melt the rosin, add the oil, take it off the fire and stir in the vinegar; let it boil for a few minutes, stirring it; when cool put it into a bottle, add the other ingredients, shaking all together. [The last two are especially used for reviving French polish.]

7. Linseed oil a pint, oil of turpentine $\frac{1}{2}$ pint, rectified spirit 4 oz., powdered rosin $1\frac{1}{2}$ oz., rose pink $\frac{1}{2}$ oz.; mix.

8. Linseed oil 14 oz., vinegar $1\frac{1}{2}$ oz., muriatic acid $\frac{1}{2}$ oz.; mix.

FUSIBLE METAL. See ALLOYS.

GALL, CLARIFIED. Ox-gall is prepared for the use of artists in the following manner:—To a pint of fresh ox-gall, boiled and skimmed, add 1 oz. finely powdered alum; leave it on the fire till the alum is dissolved, then let it cool, put it into a bottle, and cork it loosely. Treat another pint in the same way with 1 oz. of salt instead of alum. After standing more than 3 months, carefully decant from each bottle the clear portion and mix them together. The colouring matter is precipitated, and a clear colourless liquid is obtained by filtration. It is used for mixing artists' colour, and to prepare ivory, oiled paper, &c., to receive the colours. Also for taking out grease spots.

GANNAL'S SOLUTION. See page 253.

GANTEINE. A composition for cleaning kid gloves; said to consist of soap with essence of lemon, in the form of a paste. M.

DUVIGNAU has given the name of *Saponine* (a term already appropriated to a peculiar vegetable principle) to the following composition :—Dissolve 3 oz. of soap by heat in 2 oz. of water, and when nearly cold add 2 oz. of eau de Javelle, 1 dr. of water of ammonia ; to form a paste, which is to be rubbed over the glove with flannel till sufficiently clean.

GARROT'S COVERING FOR PILLS. Soak 1 oz. of purified gelatine in 2 or 3 dr. of water ; keep it liquefied in a salt water bath. The pills are stuck on long pins and dipped in the solution ; when cold the pins are withdrawn, after being heated by a small flame, which melts the gelatine and closes the hole.

GASES. These are generated in gas bottles fitted, by grinding, with an S-formed tube ; or in flasks to which a bent tube is adapted by means of a cork ; in a common retort ; or sometimes in iron bottles with a metal tube. They are usually collected in vessels filled with water placed with their open end in a vessel of water. *Pepy's Gas Holder* is very useful for receiving, retaining, and transferring gases. The *pneumatic trough* consists of a vessel for holding water with a shelf for sustaining the jars or bottles that are to be filled ; these are filled by sinking them under water, and are then lifted on the shelf, above which the water rises, with their open end downwards. The beak of the retort, or bent tubes, are so placed that the gas issuing from them rises through the water into the vessel, and takes the place of the water in them. Some gases being very easily absorbed by water, are collected over mercury. Sometimes they are collected in dry bottles. For light gases, as ammonia, place a bottle in a vertical position with its mouth downward over the tube from which the gas issues, which should touch the bottom of the bottle. When the bottle is filled with gas, and this escapes from the mouth, quietly withdraw the tube and close the bottle, still inverted, with a greased stopper. For gases heavier than air, as chlorine, or carbonic acid, the bottle must be placed with its mouth uppermost, and the tube delivering the gas must descend to the bottom of the bottle. When full of the gas, close it with the greased stopper. The tube connected with a flask in which a gas is generated should have a ball blown in it, into which asbestos may be introduced to arrest any particles thrown up by effervescence.

The following are the processes for procuring the principal gases :—

Ammoniacal Gas. This is obtained by mixing equal weights of slaked lime (previously cooled) and powdered sal ammoniac,



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Phosphuretted Hydrogen. The spontaneously inflammable variety of this gas is made by boiling phosphorus with solution of potash in a small retort, the beak of which is kept under water; as each bubble of gas rises from the water, it inflames, and forms a ring of white smoke, which dilates as it ascends. The spontaneous inflammability of the gas when mixed with atmospheric air or oxygen, renders caution necessary in its preparation. The other varieties of phosphuretted hydrogen have no special interest or application.

Sulphuretted Hydrogen. Mix together 2 parts of iron filings, with 1 of sulphur, into a thin pap with water, and heat it gently in an iron vessel. Combination takes place with the evolution of heat. Cover it till cold. On this compound, contained in a gas bottle, or other suitable apparatus, pour sulphuric acid previously diluted with 7 parts of water. If more acid be afterwards required, dilute the strong acid with only 4 of water. It is absorbed by water.

Nitrogen, or Azote. Atmospheric air affords an unlimited supply of nitrogen, by exposing it to the action of substances which combine with its oxygen. By burning phosphorus in a large bell glass standing in water, and allowing it to stand over the water a few hours, nearly pure nitrogen is obtained, and may be further purified by agitating it with solution of pure potash.

Protoxide of Nitrogen. Nitrous Oxide of DAVY. It is most conveniently made by heating nitrate of ammonia (formed by neutralizing pure nitric acid, diluted with 3 parts of water, with carbonate of ammonia, and boiling the solution till a drop let fall on a cold plate solidifies, adding a little ammonia towards the end, to ensure neutrality) in a retort, at a heat not exceeding 500° Fahrenheit, till it is nearly all decomposed. It may be collected over warm water.

Oxygen Gas. Mix chlorate of potash with a third of its bulk of black oxide of manganese; put the mixture into a gas-bottle, or clean flask, to which a bent tube is fitted by a cork, and apply a gentle heat. The gas, which comes over freely, may be collected over water.

Sulphurous Acid Gas. It is procured in a nearly pure state by heating 2 parts of quicksilver with 3 of oil of vitriol, and collecting the gas over mercury. By passing the gas through a tube surrounded with a freezing mixture, it is condensed into a liquid. For ordinary purposes, the gas may be obtained as directed under ACID, SULPHUROUS: or from sulphuric acid and linseed oil.

GELATINE, PURIFIED. *Grenetine.* It is made by various processes from gelatinous animal matters. **NELSON'S** *Patent Gelatine* is made from cuttings of the hides of beasts, and skins of calves. These freed from hair, flesh, fat, &c., are washed and scored, then macerated for 10 days in a ley of caustic soda, and afterwards placed in covered vessels at a temperature of 60° or 70° until they become tender; then washed from the alkali, exposed to the vapour of burning sulphur until they become sensibly acid, dissolved in earthen vessels heated to 150°, strained, put into settling vessels, heated to 100° or 120° for 9 hours, the clear liquor drawn off, and poured on the cooling slabs to the depth of $\frac{1}{2}$ an inch. When cold, the jelly is cut in pieces, washed till free from acid, redissolved at 85°, poured on slabs, cut up, and dried on nets.

Bone Gelatine. The bones are boiled to remove the fat, then digested in diluted muriatic acid till the earthy matter of the bone is dissolved. The gelatine, which retains the form of the bone, is washed in a stream of water, plunged in hot water, and again in cold, to remove all remains of acid, and sometimes put into a solution of carbonate of soda. When well washed, it is dried on open baskets or nets. By steeping the raw gelatine in cold water, dissolving it in boiling water, evaporating the jelly, and cutting it into tablets, it may be dried and preserved in that form.

GERMAN PASTE, for feeding insectivorous singing birds. Blanched sweet almonds 1 lb, pea meal 2 lb, butter 3 oz., saffron a few grains, honey q. s. Form the whole into a paste, and granulate it by pressing it through a colander. Some add the yolks of 2 eggs.

GILDING. Leaf gold is affixed to various surfaces, properly prepared by gold size, or other adhesive medium. Metallic surfaces are coated with gold by means of amalgam of gold and mercury, applied with a wire brush, wet with an acid solution of mercury, made by dissolving 10 parts of mercury in 11 of nitric acid, by a gentle heat, and adding $2\frac{1}{2}$ parts of water. The article thus coated is heated over charcoal till the mercury is dissipated, and afterwards burnished. To give it a redder colour, it is covered with gilders' wax (a compound of verdigris, ochre, alum, and yellow wax), again exposed to heat, and afterwards washed and cleaned by a scratch brush and vinegar. An inferior kind of gilding is effected by dissolving gold, with a fifth of its weight of copper, in nitro-muriatic acid, dipping rags

in the solution, drying and burning them, and rubbing the ashes on the metallic surface with a cork dipped in salt and water.

Electro-gilding, by Elkington's patent process, is thus performed:—A solution of 5 oz. of gold (see ACID, NITRO-MURIATIC, p. 249) is prepared, and boiled till it ceases to give out yellow vapours: the clear solution is mixed with 4 gallons of water 20 lb of bicarbonate of potash added, and the whole boiled for 2 hours. The articles, properly cleaned, are suspended on wires, and moved about in the liquid from a few seconds to a minute, then washed, dried, and coloured in the usual way.

The solution used in gilding with the voltaic apparatus is made by dissolving $\frac{1}{4}$ oz. of oxide of gold with 2 oz. of cyanide of potassium in a pint of distilled water.

GINGER BEER. See BEVERAGES.

GINGER BREAD. Flour 14 oz., butter $\frac{1}{4}$ lb, treacle $\frac{1}{2}$ lb, powdered ginger 1 oz., sugar 3 oz., powdered caraway seeds $\frac{1}{2}$ oz.; mix all the other ingredients together, then add the treacle, previously warmed. Roll it out, and cut it into cakes.

GLASS OF BORAX. Calcine borax with a strong heat till the water of crystallization is expelled, and the salt fuses into a clear glass.

GLASS, SOLUBLE. Mix 10 parts of carbonate of potash, 15 of quartz (or of sand free from iron and alumina), and 1 part of charcoal. Fuse together. The mass is soluble in 4 or 5 parts of water; and the filtered solution evaporated to dryness yields a transparent glass, permanent in the air.—FUCHS.

GLASS. The different kinds of common glass consists essentially of silica with soda or potash; most of the white kinds also contain oxide of lead. Crown glass and green bottle glass contain a portion of lime. Green glass, and some kinds of foreign white glass, are free from lead, and should therefore be selected for chemical uses.

To mark on Glass. Glass may be written on, for temporary purposes, by French chalk: pencils of this substance will be found convenient. Glass may be written on with ink if the surface is clean and dry, and the pen held nearly perpendicular. The shell-lac ink (see INK) is the best for labels, as it resists damp, &c. *To scratch glass*, a scratching diamond is used; or a piece of flint, or crystal of quartz, or the point of a small 3-square file. *To engrave on glass*, fluoric acid is used, either in the liquid state, or in vapour. The glass must be warmed, and



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fectly clean and dry, is then applied to it in such a way as to exclude all air bubbles, and to bring the glass and foil into perfect contact. The plate, after being inclined so as to allow the superfluous quicksilver to drain off, is loaded with weights, under which it remains till the adhesion is complete. To convex and concave mirrors the amalgamated foil is applied by means of accurately fitting plaster moulds. The interior of globes is silvered by introducing a liquid amalgam (see AMALGAM, page 252), and turning about the globe till every part is covered with it. But a method of literally silvering glass has lately been patented by Mr. DRAYTON. He mixes 1 oz. of nitrate of silver, 3 oz. of water, 1 oz. of [liquid?] ammonia, and 3 oz. of spirit of wine, and filters the solution after it has stood 3 or 4 hours. To every ounce of the solution he adds $\frac{1}{4}$ oz. of sugar (*grape* sugar, if possible), dissolved in equal quantities of water and alcohol. The surface to be silvered is covered with this liquid, and a temperature of 160° F. maintained till the deposition of silver is complete. When quite dry, the coated surface is covered with mastic varnish. Other substances besides sugar occasion the deposition of silver from the ammoniacal solution; as oil of cassia, oil of cloves, and other essential oils, aldehyde, &c.; but M. VOHL prefers an alkaline solution of gun-cotton. Dissolve gun-cotton in a solution of caustic potash, pour it into a solution of nitrate of silver, and add ammonia sufficient to redissolve the precipitate. The liquor being slowly heated in a water-bath becomes brown, effervesces, and deposits silver of superior brilliancy.

GLAZES. Common earthenware is glazed with a composition containing lead, on which account it is unfit for many pharmaceutical purposes. The following glaze has been proposed, among others, as a substitute:—100 parts of washed sand, 80 of purified potash, 10 of nitre, and 20 of slaked lime; all well mixed and heated in a black lead crucible, in a reverberatory furnace till the mass flows into a clear glass. It is then to be reduced to powder. The goods to be slightly burnt, placed under water, and sprinkled with the powder.

GLAZE FOR PORCELAIN. Feldspar 27 parts, borax 18, Lynn sand 4, nitre 3, soda 3, Cornwall china clay 3 parts. Melt together to form a frit, and reduce it to powder with 3 parts of calcined borax.—ROSE.

GLUE is made by boiling parings of ox-hides and other skins in water, evaporating the solution to a due consistence, allowing it

to gelatinize in wooden boxes, cutting it into layers with a wire, and drying them on nets stretched on wooden frames. *Bones* also yield a pale glue, described under GELATINE. Bank-note glue, or mouth glue, is made by dissolving 1 lb of fine glue, or gelatine, in water, evaporating it till most of the water is expelled, adding $\frac{1}{2}$ lb of brown sugar, and pouring it into moulds. Some add a little lemon-juice. It is also made with 2 parts of dextrine, 2 of water, and 1 of spirit.

GLUE, LIQUID. Dissolve bruised orange shell-lac in an equal weight of rectified spirit, or of rectified wood naphtha, by a gentle heat. It is very useful as a general cement and substitute for glue. Another kind may be made by dissolving 1 oz. of borax in 12 oz. of soft water, adding 2 oz. of bruised shell-lac, and boiling till dissolved, stirring it constantly.

GLUE, MARINE. This valuable compound consists of India rubber, shell-lac, and coal naphtha.

GLUTEN, VEGETABLE. Form wheat flour into a stiff paste with cold water; then knead it under a stream of water till all the starch is washed away. What remains is impure gluten.

GUM, BRITISH. (See DEXTRINE.) It is also prepared by heating starch alone, or previously mixed with an acid. PINEL directs half a gallon of nitric and half a pint of muriatic acid to be mixed with 100 gallons of water, and as much potato fecula added as will form a paste. In 2 hours remove the paste in buckets, prepared for the purpose, to drain off all the water. Then place the paste in small lumps in a drying room till dry; pulverize it, and expose the powder the first day to the temperature of 100° , the next day raise it to 150° , on the third day to 190° . It is then powdered, sifted, and heated from 300° to 350° . To give it the appearance of gum, after it has gone through the stove, and is powdered and sifted, mix it to a paste with water to which 1 per cent. of nitric acid has been added, spread it on copper plates in layers $\frac{3}{4}$ of an inch thick, and heat it in an oven from 240° to 300° , then remove it to the open air to cool.

GUM ARABIC, PURIFICATION OF. PICCIOTTO'S process. The gum is dissolved in water, and sulphurous acid gas passed into it. The sulphurous acid is sufficiently removed for common purposes by gently boiling the mucilage in a retort with a receiver attached. But to obtain the gum in a purer state,

carbonate of barytes is added, the mixture is filtered, afterwards agitated with gelatinous alumina, again filtered, and evaporated.

GUN COTTON. Mix $1\frac{1}{2}$ fluid oz. of each of the strongest nitric and sulphuric acid; put the mixture in a Wedgwood mortar, and when cool, add 100 gr. of cotton wool. Stir it with a glass rod, and when it is fully soaked, squeeze out the acid with the pestle or a porcelain spoon, throw the cotton into a large quantity of water, squeeze it again, and wash it under a stream of water till quite free from acid. In the specification, the patentee directs 1 measure of nitric acid, sp. gr. 1.45 or 1.50, to be mixed with 3 measures of sulphuric acid, sp. gr. 1.85; the cotton to be soaked in the acid, then squeezed from it, and left in a covered vessel for an hour; and after washing, to be dipped in a solution of 1 oz. carbonate of potash in a gallon of water, then pressed, and partially dried; again dipped in a weak solution of nitre, then dried in a room heated to 150° . This destructive compound has already fallen into disuse as to the purposes for which it was introduced; but seems likely to be usefully applied to other objects. See COLLODION.

GUN POWDER. A compound of nitre, charcoal, and sulphur. The nitre should be purified by recrystallization, the sulphur by distillation, and the charcoal selected of the best quality; that of the dog-wood, alder, poplar, chestnut, or willow, is preferred. The following is the composition of some of the most approved kinds:—

	Nitre.	Charcoal.	Sulphur.
Royal Mills, Waltham Abbey	75	15	10
Marsh's Sporting	76	15	9
———— Mining	65	15	20
French (Government)	75	12.5	12.5
———— Sporting	78	12	10
Chinese	75	14.4	9.9

GYP SUM, TO HARDEN. KEATING'S patent process is to moisten calcined gypsum with a solution of 1 lb of borax, 1 lb of tartar, in 11 lb of water; it is then heated to redness for 6 hours, and pulverized. ERDEMANN recommends plaster figures, &c., to be soaked in a solution of FUCH'S soluble glass.

HAHNEMANN'S WINE TEST. See TESTS.

HEADING FOR BEER. Equal parts of alum and sulphate of iron.
—GRAY.

INDIGO. The principal preparations of indigo are described under



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of hot water for 12 hours, then put into a percolator, and the rest of the water passed through it.

5. *Anti-corrosive Ink.* Aleppo galls 10 lb, logwood 5 lb, pomegranate-peel $2\frac{1}{2}$ lb, cloves $2\frac{1}{2}$ oz., soft water 8 gallons. Let the whole boil gently for an hour or two, then cover the copper and leave it for 12 or 24 hours, stirring it now and then. Strain off the decoction and add 2 gallons more water to the ingredients; simmer gently for an hour, and strain. Mix the liquors, and let them settle; draw off the clear liquor from the dregs; dissolve in a portion of it $2\frac{1}{2}$ lb of gum Arabic, and $\frac{1}{2}$ lb of sugar candy; and in another portion $2\frac{1}{2}$ lb of green sulphate of iron. Strain both solutions and mix the whole together; then add 1 oz. of calcined borax, and $\frac{1}{4}$ oz. of creasote dissolved, $\frac{1}{4}$ pint of spirit of wine. [Dr. HARE recommends an ink free from acid, to be made with galls and "finery cinder;" but we are not sure what is intended by this name.]

6. RIBAUCOURT'S *Ink.* Galls 1 lb, logwood $\frac{1}{2}$ lb, gum 6 oz., sulphate of iron $\frac{1}{2}$ lb, sulphate of copper 2 oz., sugar 2 oz., water 12 lb (or 5 quarts). This has the disadvantage of corroding the steel pens and the penknives with which it comes in contact.

7. Galls 3 oz., sulphate of iron 1 oz., logwood $\frac{1}{2}$ oz., gum $\frac{1}{2}$ oz., ale a quart. Let it stand in a loosely-corked bottle, in a warm place, for a week or more, shaking it daily.

8. Boil 4 oz. of logwood for an hour in 6 quarts of water, adding boiling water as it evaporates: then add 16 oz. of blue galls coarsely bruised, 4 oz. of dried sulphate of iron (i. e. heated till it becomes whitish and pulverulent), 3 oz. of brown sugar, 6 oz. of gum Arabic, and $\frac{1}{4}$ oz. of acetate of copper ground with a little of the decoction. Keep the whole in a bottle uncorked for a fortnight, shaking it twice a day.

9. READE'S Patent. This differs from common black ink, in containing a portion of soluble Prussian blue.

10. BERZELIUS recommends a solution of vanadate of ammonia in infusion of galls. Dr. URE states that this forms the most perfect ink that can be desired; but the price of the vanadate in this country is at present an obstacle to its use.

Packers' Marking Ink is merely the dregs of black ink, for marking parcels with a brush.

Copying Ink. Mr. BRANDE directs 1 oz. of brown sugar to be added to No. 1, for copying. Another kind is made by dissolving $\frac{1}{2}$ oz. of gum, and 20 gr. of Spanish liquorice, in 13 dr. of water, and adding to it a drachm of lampblack, previously mixed with a teaspoonful of sherry. If the lampblack is greasy,

it should be heated to redness in a covered crucible. Another published form is—Black ink 3 oz., sugar candy 1 oz.

Ink Powder. This consists of dry ingredients for ink, powdered and mixed. 1. Powdered galls 4 oz., sulphate of iron (heated till it becomes white and pulverulent) 1 oz., powdered gum 1 oz., white sugar $\frac{1}{2}$ oz.; mix. To make a quart of ink, with water, or beer.

2. Powdered galls 2 lb, green vitriol 1 lb, powdered gum 8 oz. In 2 oz. packets, each for one pint of ink.—GRAY.

Red Writing Ink. 1. Best ground Brazil wood 4 oz., diluted acetic acid a pint, alum $\frac{1}{2}$ oz. Boil them slowly in a covered tinned copper, or enamelled saucepan, for an hour; strain, and add $\frac{1}{2}$ oz. of gum. Some direct the Brazil wood to infuse for 2 or three days before boiling.

2. Boil 2 oz. of good Brazil wood, $\frac{1}{2}$ oz. of alum, and $\frac{1}{2}$ oz. of cream of tartar, in 16 oz. of rain water, till reduced to half; strain, and dissolve in it $\frac{1}{2}$ oz. of gum Arabic, and add a tincture made with $1\frac{1}{2}$ dr. of cochineal in $1\frac{1}{2}$ of spirit of wine.—HENSELER.

3. Triturate 1 dr. of cochineal and 1 dr. of subcarbonate of potash, with a little boiling water; then add 1 dr. of burnt alum and 2 dr. of cream of tartar, and water to bring it to the desired colour. [Not so permanent as the Brazil Ink.]

4. Heat a scruple of carmine with 3 oz. of water of ammonia for some minutes, a little below boiling, and add 15 or 20 gr. of gum.

Blue Ink. READE'S Patent. Prepare a solution of iodide of iron, from iodine, iron, and water; add to the solution half as much iodine as first used. Pour this solution into a semi-saturated solution of ferro-prussiate of potash, containing nearly as much of the salt as the whole weight of iodine. Collect the precipitate, wash it, and finally dissolve it in water, to form the blue ink. The solution from which the precipitate is separated, evaporated to dryness, and the residue fused, redissolved, and crystallized, yields pure iodide of potassium. [This process being patented, ink must not be prepared by it for sale.]

2. Dissolve 1 dr. of perchloride of iron in 24 oz. of water, and add 1 dr. of cyanide of potassium. Drain the precipitate till it weighs only 6 oz., then add a drachm of oxalic acid, and agitate them together in a bottle.—HORNUNG.

3. Chemic, or Saxon blue (sulphate of indigo), diluted with water to the desired shade.

4. Pure Prussian blue, triturated with a sixth part of its weight of oxalic acid, with a little water, to a smooth paste, and

more water added to bring it to the proper colour. A larger proportion of the acid is ordered in some recipes.

5. Digest 2 oz. of the cuttings of tin plate with 4 oz. of nitrous acid, and add the solution to a gallon of water in which 2 oz. of prussiate of potash has been dissolved. [This requires frequent shaking, to keep the precipitate (which is Prussian blue) suspended.]

Yellow Ink. 1. Gamboge triturated with water, and a little alum added.

2. Boil 8 oz. of French berries with 1 oz. of alum in a quart of water; strain, and add 1 oz. of gum.

Green Ink. 1. Dissolve 3 dr. of bichromate of potash in 1 oz. of water; add to the hot solution $\frac{1}{2}$ oz. of alcohol, and decompose the mixture by a little strong sulphuric acid till it assumes a brown colour. Evaporate the liquid to half, let it cool, dilute with a sufficient quantity of water, and filter; add to the filtered liquor 2 dr. of alcohol, decompose it with a few drops of sulphuric acid, and let it rest. After some time it assumes a fine green colour. A little gum may be added.—

WINKLER.

2. Distilled verdigris 2 oz., cream of tartar 1 oz., water, 8 oz.; boil to half, and filter.

3. Add to the yellow ink No. 2 sufficient sulphate of indigo.

4. Dissolve sap green in water with a little alum.

Gold and Silver Ink. Fine bronze powder, or gold or silver leaf, ground with a little sulphate of potash, and washed from the salt, is mixed with water and a sufficient quantity of gum.

Indestructible Writing Fluids. The common writing inks being liable to be obliterated by many chemical agents, several compounds more capable of resisting these agents have been proposed, of which the following appear deserving of notice.

1. *Carbon Ink.* Dissolve real Indian ink in common black ink; or add a small quantity of lampblack, previously heated to redness, ground perfectly smooth with a small portion of the ink.

2. *Shell-lac Ink, or COATHUPE'S Writing Fluid.* To 18 oz. of water add 1 oz. of powdered borax, and 2 oz. of bruised shell-lac, and boil them in a covered vessel, stirring them occasionally, till dissolved. Filter, when cold, through coarse filtering paper; add 1 oz. of mucilage; boil for a few minutes, adding sufficient finely-powdered indigo and lampblack to colour it. Leave the mixture for 2 or 3 hours, for the coarser par-



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fire till it kindles, or nearly so. Extinguish the flame, let the mixture cool a little, and pour it into moulds.

Inks for Marking Linen. Some of these are used with types; others with a clean quill pen.

1. Sulphate of manganese 1 dr., water 1 dr., powdered sugar 2 dr., lampblack $\frac{1}{2}$ dr. Triturate them together, and stamp it on the linen with types. When dry wash the part with liquor potassæ; dry; and wash with plenty of water.

2. Dr. SMELLIE'S. Sulphate of iron 1 dr., linseed oil 1 oz., vermilion $\frac{1}{2}$ oz.: grind perfectly smooth. Printer's ink is also used with type.

3. Heat to redness equal weights of black oxide of manganese and caustic potash, and mix it with an equal weight of pipe-clay, and sufficient water to give it a due consistence. To be applied with types or stencils. It becomes brown, and does not wash out. The following are used with a quill pen:—

4. Nitrate of silver 100 gr., water 1 oz., gum Arabic 2 dr., sap green a scruple. Dissolve. The linen is first to be wetted with the following *pounce*, dried and rubbed smooth, then written on by a clean quill or bone pen, dipped in the ink. *Pounce or Mordant.* Subcarbonate of soda $\frac{1}{2}$ oz., water 4 oz. [A great variety of recipes might be given, slightly differing from the above in the proportion of the ingredients, and in the colouring matter. GRAY directs 2 dr. of nitrate of silver, 6 dr. of water, and 2 of mucilage, and a pounce of 1 oz. of subcarbonate of soda in 16 of water, with a little sap green. Another form is—nitrate of silver 1 oz., distilled water 5 oz., powdered gum $1\frac{1}{4}$ oz., sap green sufficient to colour it. The linen to be first wet with the following preparation:—subcarbonate of soda 1 oz., water 6 oz., gum 1 oz.; dissolve. Some add a little powdered bole to the preparation; the object in colouring it being merely that the part which has been wetted may be more readily distinguished. The quantity of nitrate of silver should not be much less than 100 grains in an ounce of ink; the proportion of the other ingredients is of less importance. Some direct a drop or two of nitric acid.]

5. Mr. MURRAY recommends $\frac{1}{4}$ oz. of strong solution of nitrate of silver, 1 oz. of solution of nitrate of iron, $\frac{1}{4}$ oz. solution of prussiate of ammonia, and $\frac{1}{2}$ oz. of tincture of galls. It may be coloured with a little Indian ink.

6. *Italian.* Moisten the linen with a solution of recently-prepared muriate of tin, and write with a neutral solution of salt of gold.

Marking Ink, without Preparation. These merely require

to have a hot iron passed over the part written on, to be held pretty near the fire till the writing assumes a dark colour.

1. Nitrate of silver 2 dr., water $1\frac{1}{2}$ oz.; dissolve, and as much liquid ammonia as will redissolve the precipitate formed by it; add 2 dr. of mucilage, and a little sap green, and water if required to make up the measure 2 oz. A little ivory black, Indian ink, or indigo, is sometimes used to colour it. Some recipes contain nitrate of copper in addition to nitrate of silver. Several recipes might be given, but they will all probably be superseded by Mr. REDWOOD'S. [In operating with ammonia and nitrate of silver, fulminating silver is sometimes unexpectedly formed, and may prove a source of danger. Perhaps in this respect, as well as others, Mr. REDWOOD'S preparation claims a preference.]

2. Mr. REDWOOD'S. Dissolve separately 1 oz. nitrate of silver, and $1\frac{1}{2}$ oz. subcarbonate of soda, in distilled water; mix the solutions, and wash the precipitate on the filter. Triturate it while still moist with 8 scruples [or 3 dr.] of tartaric acid; add 2 oz. of distilled water, then mix in 6 dr. of white sugar, 10 dr. of powdered gum Arabic, $\frac{1}{2}$ oz. of archil, and water to make up 6 oz. by measure.

3. Rev. J. B. READE'S patent. Rub together in a mortar nitrate of silver and the proper equivalent of tartaric acid, in a dry state; then add water, and sufficient ammonia to neutralize the acid, and dissolve the tartrate of silver with gum and colouring matter. [This modification of Mr. REDWOOD'S process is probably an improvement. Unfortunately, the trade are restricted from the use of it by the patent. The quantities of the ingredients may be the same as in Mr. REDWOOD'S Formula.]

5. Add to the last an ammoniacal solution of an oxide or salt of gold.—READE. [This addition prevents its being acted on by cyanide of potassium, and some other agents which the silver ink fails to resist.]

6. Triturate 1 dr. of crystallized nitrate of silver with 2 dr. of Rochelle salts, and 3 or 4 dr. of water, and add sufficient strong ammonia to render the mixture clear; then add archil or sap-green, gum, and water to make up 6 fluid drachms.

Printing Ink. This is usually made by boiling linseed oil in a large iron pot, setting fire to it, and letting it burn for half an hour or more. Various additions are made to it by some manufacturers, the use of which is not very evident. A viscid varnish is obtained, which is ground with lampblack, vermilion, or other colouring matters, till perfectly smooth. $2\frac{1}{2}$ oz. of

lampblack are sufficient for each pound of varnish. See VARNISHES.

Copper-plate Printing Ink. This is not rendered so viscid as the former, and is coloured with Frankfort black.

READE'S *Patent Printing Inks.* The *blue* consists of his soluble Prussian blue (see BLUE WRITING INK, above) ground with oil as above. The *black*, by evaporating his black ink, and mixing the product with oil as usual. The *red* in the same manner, from his patent red ink.

Sympathetic or Secret Inks. The solutions used should be so nearly colourless as that the writing is not seen till the agent is applied to render it visible.

1. Digest 1 oz. of zaffre, or oxide of cobalt, at a gentle heat, with 4 oz. of nitro-muriatic acid till no more is dissolved, then add 1 oz. of common salt, and 16 oz. of water. If this be written with, and the paper held to the fire, the writing becomes green, unless the cobalt should be quite pure, in which case it will be blue. The addition of a little nitrate of iron will impart the property of becoming green. It is used in chemical landscapes, for the foliage.

2. Put into a phial $\frac{1}{2}$ oz. of distilled water, 1 dr. of bromide of potassium, and 1 dr. of pure sulphate of copper. The solution is nearly colourless, but becomes brown when heated.

3. Boil oxide of cobalt in acetic acid. If a little common salt be added, the writing becomes green when heated; but with nitre, it becomes a pale rose colour.

4. A solution of acetate of lead. Colourless, but becomes brown when exposed to sulphuretted hydrogen gas.

5. A weak solution of sulphate of copper. The writing becomes blue when exposed to the vapour of ammonia.

6. A solution of sulphate—or preferably, persulphate—of iron. It becomes black when washed with infusion of galls; *blue*, by prussiate of potash. [This constitutes colourless ink, which becomes visible when written with on paper containing galls, or tannin, or prussiate of potash.]

7. Mix equal quantities of sulphate of copper and sal ammoniac, and dissolve in water. It becomes yellow when heated.

8. A weak solution of nitrate of mercury. Becomes black by heat.

9. Rice water, or any solution of starch. It becomes blue when washed over with an alcoholic solution of iodine.

10. Lemon-juice, milk, juice of onions, and some other liquids, become black when the writing is held to the fire.



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and not folded (leaf and honeycomb isinglass), or folded (book isinglass), or twisted into the shape of a lyre or horseshoe (short and long staple). The leaf isinglass is sometimes rolled out into thin plates (riband and rolled leaf isinglass). The inner membrane, which is insoluble, is removed from the opened air-bags, in the best kinds. The Russian isinglass, which is most esteemed, is made from the air-bags of several species of accipenser (sturgeon); particularly *A. HUSO* (the *Beluga*); *A. GULDENSTADTII* (the *Ossetea*); *A. RUTHENUS* (the *Sterlet*); *A. STELLATUS* (the *Sewruga*); and also from the *Siluris glanis* (the *Som*) which yields the Samovey isinglass. Brazilian and East India isinglass are of inferior quality; it is not certainly known from what genera or species of fish they are obtained. New York isinglass is the air-bladder of the common hake, macerated in water, and rolled out into ribands. The sounds of the cod yield an inferior kind. Prepared sole-skins are used as a cheap substitute for isinglass. See Dr. PEREIRA'S "Elements," for the description of each variety.

IVORY BLACK. Burn shavings and waste pieces of ivory from the ivory turners in a covered crucible till no more smoke issues. Cover it closely while cooling. It should be afterwards washed with diluted muriatic acid, then with water till no longer acid, dried, and again heated in a covered crucible. It is of a deeper colour than bone-black, and is used as a pigment, a tooth powder, and to decolorize syrups and other liquids.

IVORY, TO STAIN. Ivory is stained with the usual dyeing materials: it should be first steeped in the mordant and afterwards in the hot colour. Nitro-muriate of tin is the mordant for red, with decoction of brazil or cochineal; for yellow, with fustic; for violet, with logwood. After being plunged into hot liquor it should be placed in cold water. A black stain is given by nitrate of silver.

JELLIES. See DIETETIC ARTICLES.

KYAN'S SOLUTION, for preventing the dry rot. Dissolve 1 lb of corrosive sublimate in 5 gallons of water.

LABARRAQUE'S CHLORO-SODAIC LIQUOR is nearly identical with the *Liquor Sodæ Chlorinatæ* of the London Pharmacopœia. It is made by passing the chlorine gas from 2 oz. black oxide of manganese, and 8 oz. of muriatic acid, into a solution of 15 oz. of crystallized subcarbonate of soda in 3 pints of water; or

sufficient to bring it to the density of 12° Baumé, or 1.09 specific gravity. See CHLORIDE OF SODA.

LAC, PREPARATIONS OF. Stick-lac consists of twigs of several kinds of trees, encrusted with a resinous matter produced by the puncture of an insect (the *coccus lacca*). This, triturated with water and dried, forms seed-lac. The seed-lac heated and pressed in cotton bags forms shell-lac. Lac dye is the colouring matter extracted from stick-lac by water, and evaporated to dryness with the addition of earthy matters, and formed into square cakes. Seed-lac and shell-lac are chiefly used in varnishes dissolved in rectified spirit, or rectified wood naphtha. The alcoholic solution is rendered paler, so that it may be used for polishing light-coloured woods, by digesting it in the sun, or near a fire, for 2 or 3 weeks with good animal charcoal, and then filtering it through paper in a funnel heated with hot water. Shell-lac may be bleached by dissolving it in a solution of potash or soda, and passing chlorine into the solution. The precipitated lac is collected and well washed. KASTNER directs 3 parts of carbonate of potash to be dissolved in 24 of water, and 3 of lime added, and the whole digested in a close vessel for 24 hours. The clear liquor is poured off, and boiled with 4 parts of shell-lac. When cold, dilute with 4 times its bulk of water, and filter; then add chloride of lime, and afterwards diluted muriatic acid.

LACQUERS. See VARNISHES.

LAKES. These consist of vegetable colours in combination with alumina. Alum is usually added to an infusion or decoction of the colouring ingredient, and afterwards potash added, which throws down the colouring matter combined with alumina. Some of the lakes are noticed under PIGMENTS.

LAKE LIQUOR. Boil 1 oz. each of cochineal and salt of tartar in 8 oz. of water; then add 1 oz. of cream of tartar, and the same of alum.

LEMON JUICE, FACTITIOUS. Dissolve 4 oz. of citric acid in 3 pints of water, with 8 drops of essence of lemon, rubbed with the acid, or dissolved in a little spirit. After standing a few days, filter it, and preserve it in well-closed bottles.

LINSEED OIL, REFINED. (WILKS' Patent.) Into 236 gallons of oil pour 6 lb of oil of vitriol, and stir them together for 3 hours; then add 6 lb of fullers' earth, well mixed with 14 lb of hot lime, and stir for 3 hours. Put the oil into a copper

boiler, with an equal quantity of water, and boil for 3 hours; then extinguish the fire, and when the materials are cold, draw off the water, and let the oil stand to settle for a few weeks before using.

LINSEED OIL, CLARIFIED, FOR VARNISHES. Heat in a copper boiler 50 gallons of linseed oil to 280° F.; add $2\frac{1}{2}$ lb of calcined white vitriol, and keep the oil at the above temperature for half an hour; then remove it from the fire and in 24 hours decant the clear oil, which should stand for a few weeks before it is used for varnish.

LITMUS. A preparation of some kind of lichen, probably *Lecanora tartarea*, or *Rocella tartarea*, or both. The exact mode of preparing it is kept secret. It is imported in small cubical masses, which DR. PEREIRA found to contain, besides the colouring matter and tissues of the lichen, indigo, chalk, &c. See TESTS.

LOZENGES. See Trochisci, P. F., and LOZENGES, under PATENT MEDICINES, in this volume.

LUCIFERS. See MATCHES, below.

MARBLE, TO CLEAN. Mix soft soap, solution of potash, and slaked lime, to a paste; spread it over the marble, and leave it for a day or two. Then wash it off.

MARBLE, TO STAIN. Make the marble hot, and pour on it the coloured liquid, also made hot. The stains usually employed are, archil, solution of indigo, solution of verdigris, decoction of Brazil wood, logwood, and sulphate of iron, tincture of dragon's blood, &c. But the most penetrating medium is wax, which may be coloured with alkanet, annotto, verdigris, &c.

MARINE GLUE. See GLUE.

MATCHES FOR INSTANTANEOUS LIGHT. 1. *Chlorate Matches (without sulphur).* Chlorate of potash, separately powdered, 6 dr., vermilion 1 dr., lycopodium 1 dr., fine flour 2 dr.; mix carefully the chlorate with the flour and lycopodium, avoiding much friction, then add the vermilion, and mix the whole with a mucilage made with—1 dr. powdered gum Arabic, 10 gr. of tragacanth, 2 dr. of flour, and 4 oz. of hot water; mix, add sufficient water to bring it to a proper consistence, and dip in it the wood, previously dipped into a solution of 1 oz. of gum thus, and $\frac{1}{2}$ oz. of camphor, in 6 oz. of oil of turpentine.

2. *With sulphur.* Chlorate of potash 9 gr., sulphur 2 gr.,



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Nitro-muriatic acid, in different degrees of dilution; sulphuric acid, with 5 parts of water; 1 part of sulphuric, 2 of muriatic acid, and 8 of water; a strong solution of citric acid; 1 part nitric acid, 2 sulphuric, and 18 of water. Solution of potash is also used.

MORDANTS. See DYES, p. 273.

NITRATE OF BARYTES. This may be made from the carbonate, by dissolving it in dilute nitric acid, evaporating, and crystallizing; but more cheaply from the sulphate of barytes, by converting it into a soluble sulphuret by heating it with charcoal, and decomposing the filtered solution with nitric acid. M. WEISS recommends mixing the pulverized sulphate of barytes (cawk, or heavy spar) with one-eighth of charcoal and one-fourth of flour, heating it in a covered crucible, pulverizing the product and forming it into balls, with one-eighth of charcoal and a little water, and again heating them placed between layers of charcoal. Hot water extracts the sulphuret, which crystallizes from the filtered solution. By decomposing this by nitric acid (avoiding the gas which escapes) the nitrate is obtained. The other salts of barytes are obtained in a similar manner.

NITRATE OF SILVER. See ARGENTI NITRAS, P. F. It may be prepared from impure silver by the following process. Dissolve it in nitric acid, add common salt till no more silver remains in solution. Wash the precipitate thoroughly; then add water and a very little hydrochloric acid, and introduce some pieces of zinc; let them remain together 24 hours, stirring frequently. Remove the zinc, and wash the reduced silver thoroughly. Again dissolve it in nitric acid, diluted with 2 or 3 parts of water; filter, and evaporate, that it may crystallize.

NITRATE OF STRONTIAN. This may be obtained from the native carbonate of strontian, or more cheaply from the native sulphate, by the processes employed for Nitrate of Barytes.

NITRIC AND NITRO-MURIATIC ACIDS. See ACIDS.

NOVARGENT. This is said to consist of a solution of fresh precipitated chloride of silver in hyposulphite of soda (or, according to the Pharmaceutical Journal, of oxide of silver in cyanide of potassium), mixed with prepared chalk.

OILS, PURIFICATION AND BLEACHING OF. Fish and other fat are improved in smell and colour, by passing hot air or steam through them. DUNN'S method is to heat the oil by steam to 170° or 200° , and force a current of air through it, under a

chimney, till it is bleached and purified. Mr. CAMERON'S method of bleaching palm oil is to keep it at 230° with continual agitation by passing into it high-pressure steam, through leaden pipes of two inches diameter. Four tons of oil require 10 hours' steaming. Palm oil is also bleached by chloride of lime. Take from 7 to 14 lb of chloride of lime, triturate it in a mortar, adding gradually 12 times the quantity of water, so as to form a smooth cream. Liquefy 112 lb of palm oil, remove it from the fire, add the solution of chloride of lime, and stir well with a wooden stirrer. Allow it to cool, and when become solid, break it into small fragments, and expose it to the air for 2 or 3 weeks. Then put into a cast-iron boiler, lined with lead, and add sulphuric acid in equal weight to the chloride of lime, and diluted with 20 parts of water. Boil with a moderate heat till the oil drops clear from the stirrer; then let it cool.

To remove the foetor from fish oils treat them in the same way (except the exposing to the air), using only 1 lb chloride of lime to 112 lb of oil. It does not remove the natural smell of the oil.

Fresh burnt animal charcoal has some effect in improving the colour and smell of most kinds of oil; but its effects are limited.

Calcined magnesia has been used to deprive oils of their rancidity.

Mr. WATT'S patented method of bleaching oil is by chromic acid. For palm oil it is thus used:—The oil is heated in a steam vessel, allowed to settle and cool down to 130° F., then removed into wooden vessels, taking care that no water or sediment accompany it. For a ton of palm oil make a saturated solution of 25 lb of bichromate of potash; add 8 lb sulphuric acid, and 50 lb muriatic acid (or an equivalent quantity of salt and sulphuric acid). Put the muriatic into the oil, and let it be constantly stirred till it becomes of a light-green colour. If not sufficiently decoloured, add more of the mixture. Let the oil settle for half an hour, then pump it into a wooden vat, boil it for a few minutes with fresh water, by means of a steam-pipe, and let it settle. For linseed, rape, and mustard oil, a dilute solution of chromic acid is used, with a little muriatic acid: for olive, almond, and castor oil, no muriatic acid is required. Fish oils and fats are first boiled in a steam apparatus with a weak soda ley ($\frac{1}{2}$ lb soda for every ton of fat) for half an hour; then $\frac{1}{2}$ lb sulphuric acid, diluted with 3 lb of water, is added; the whole boiled for 15 minutes, and allowed to settle for an hour or more, when the water and sediment are drawn off, and the oil further bleached by a solution of 4 lb of bichromate of potash and 2 lb of sulphuric acid.

Mr. DAVIDSON treats whale oil first with a solution of tan, next with water and chloride of lime, and lastly, with diluted sulphuric acid and warm water. Rape and other seed oils are also refined by means of sulphuric acid and twice as much water. Mr. GRAY directs 2 lb. of oil of vitriol to 112 lb of oil. The oil should be carefully washed from the acid, and filtered.

Mr. BANCROFT'S process for refining common olive oil, lard, oil, &c., for lubricating purposes, is to agitate them with from $3\frac{1}{2}$ to 8 per cent. of caustic soda ley, of 1.2 specific gravity. If on trial of a small quantity the ley be found to settle clear at the bottom, enough has been added. The oil is allowed to rest for 24 hours, for the soapy matter to subside; the supernatant oil is then filtered.

Another plan of purifying oil, (especially lamp oils,) is to agitate them with a strong solution of common salt.

The above methods of treating oil are of doubtful propriety in reference to such as are to be used as medicines. Oils which have been so carefully prepared from sound and fresh materials as to require no purification should be selected for this purpose. This is especially important in reference to cod-liver oil. See LINSEED OIL.

OLEINE. This may be prepared by boiling fine olive oil with absolute alcohol, and evaporating the solution.

OXYGENATED WATER, OF DEUTOXIDE OF HYDROGEN. THE-NARD'S oxygenated water is thus made:—Expose fragments of perfectly pure barytes to a current of oxygen gas, in a green glass tube heated to dull redness, to form a deutoxide of barium. To 7 oz. of water add as much pure muriatic acid as will dissolve 4 dr. of barytes; add to this, by degrees, 3 dr. of pulverized deutoxide of barium, and when this is dissolved, add sulphuric acid, drop by drop, till the barytes falls down in the state of sulphate. Then add more deutoxide, and precipitate by sulphuric acid as before. Then filter the solution; and repeat the solution and precipitation several times, till about 3 oz. of deutoxide of barium is used, filtering the liquid after every second repetition. Sulphate of silver is then added to remove the hydrochloric acid, and afterwards pure barytes, to throw down the sulphuric acid, and a few drops of diluted sulphuric acid to remove any excess of barytes.

This energetic compound must not be confounded with the oxygen water formed by impregnating water with oxygen gas; nor with



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exceeding 100° ; then redistilled, and the same process repeated till it is obtained perfectly pure. The liquid paraffine is redistilled, and burned in lamps. The solid is made into candles.

PASTES. See **BLACKING PASTE**, **FURNITURE PASTE**, &c., above. For flour paste, see **CEMENTS**. For almond paste, honey paste, and tooth pastes, see **COSMETICS**.

Paste for Cleaning Brass, &c. 1. Rotten stone in very fine powder 2 oz., soft soap 1 oz., oil of amber 1 dr.

2. Neat's-foot oil 16 oz., water of ammonia 1 oz., powdered rotten stone sufficient to form a paste.

3. Rotten stone $4\frac{1}{2}$ lb, oxalic acid (dissolved in the water) 2 oz., soft soap 8 oz., sweet oil 8 oz., oil of amber 1 oz., boiling water 1 lb. Some substitute oil of turpentine for oil of amber.

Paste for Razors. 1. Emery very finely levigated in the same manner as prepared chalk, mixed with lard, or tallow, or a mixture of these with neat's-foot oil.

2. Equal parts of jewellers' rouge, black lead, and prepared suet.

3. **PRADIER'S.** Best putty powder 1 oz., jewellers' rouge 1 oz., scales of iron $\frac{1}{2}$ oz., levigated Turkey stone 3 oz., beef suet $1\frac{1}{2}$ oz.

4. Mix equal parts of dried sulphate of iron and salt, and apply a gradually increased heat, in a closed vessel. Pulverize, elutriate, and mix with lard or tallow.

PASTILLES, AROMATIC. See **PERFUMERY**.

PAYNE'S PROCESS FOR RENDERING WOOD FIRE-PROOF. The wood is introduced into a close vessel, which is exhausted of air; the liquid is then admitted, and forced in by the pump till the pressure is from 110 to 140 lb to the square inch. The liquids employed are the liquid sulphuret of calcium, or of barium; a solution of sulphate of iron is afterwards forced into the wood.

PERCUSSION CAPS, Priming for. 100 gr. of fulminating mercury are triturated, with a wooden muller on marble, with 30 gr. of water and 60 gr. of gunpowder. This is sufficient for 400 caps. Dr. **URE** recommends a solution of gum mastic in turpentine as a medium of attaching the fulminate to the cap.

PHOSPHORUS. See **Pocket Formulary**.

PHOSPHORUS MATCHES. See **LUCIFERS**. The old phosphorus

bottles with sulphur matches were made by melting phosphorus with a fourth part wax in the bottles placed in warm water, and turning them about so as to coat the sides.—GRAY.

PHOTOGRAPHIC COMPOUNDS. For the manipulations of the art, see several treatises on the subject.

PHOTOGRAPHIC SOLUTIONS. 1. *Solution of Common Salt*. This is made of various strengths, with 1 part of salt to 6, 8, 10, 20, and 25 parts of water.

2. *Solution of Nitrate of Silver*. This consists of pure crystallized nitrate of silver dissolved in distilled water. The strength varies from 20 to 120 gr. of the nitrate to each ounce of water.

3. *Gallo-nitrate of Silver*. Dissolve 100 gr. of crystallized nitrate of silver in 2 oz. of distilled water, and add 2 fluid dr. and 40 minims of acetic acid. Mix these at the time of using with an equal measure of cold saturated solution of gallic acid. It is used in preparing Calotype paper.

4. *Bromide Solution*. This consists of 40 gr. of bromide of potassium to 1 oz. of distilled water.

5. *Iodide Solution*. Dissolve 100 gr. of iodide of potassium in 4 oz. of distilled water.

6. *Hyposulphite Solution*. Dissolve 1 oz. of pure hyposulphite of soda in a pint of distilled water.

7. *Barytic Solution*. Muriate of barytes (chloride of barium) 35 gr., distilled water 2 oz.

8. *Sal Ammoniac Solution*. Dissolve 40 gr. of muriate of ammonia in 4 oz. of water.

9. *Chromate Solution (simple)*. A saturated solution of bichromate of potash. A little sulphate of indigo is sometimes added to vary the colour.

10. *Compound Chromate Solution*. Dissolve 10 gr. of bichromate of potash and 20 gr. of sulphate of copper in an ounce of water.

11. *Hydriodate of Iron and Barytes Solution*. Hydriodate of barytes 40 gr., water 1 oz., pure sulphate of iron 5 gr.; mix, filter, add a drop or two of diluted sulphuric acid, and when settled, decant the clear liquor for use.

For Solution of Chlorate of Potash, and of Ammonio-Citrate of Iron, no definite formulæ have been met with.

PHOTOGRAPHIC PAPERS. [The paper should be the finest satin post paper, of uniform texture, free from the maker's mark, specks, and all imperfections. The papers must be prepared by candle-light, and kept in the dark till used.]

1. *Simple Nitrated Paper.* This is merely paper brushed over with a strong solution of nitrate of silver. In brushing over the paper, it must not be crossed. Its sensitiveness is increased by using spirit of wine instead of water. This paper only requires washing in water to fix the drawing.

2. *Muriated Paper.* The paper is first soaked in solution of common salt, pressed with a linen cloth or blotting-paper, and dried. It is then brushed over on one side (which should be marked near the edge) with the solution of nitrate of silver, and dried at the fire. The stronger the solution, the more sensitive the paper. If the barytic solution, No. 7, be used instead of common salt, richer shades of colour are obtained. The sal ammoniac solution No. 8 gives a very sensitive paper. A due proportion must be observed in the silver and salt solutions.

Mr. HUNT gives the following as proper proportions:— Sensitive paper for the camera. 50 gr. of common salt to 1 oz. of water; and 120 gr. of nitrate of silver to 1 oz. of water. Or, 60 gr. of the nitrate, with the solution No. 8. Or, 100 gr. with the solution No. 7.—Less sensitive for copying engravings, botanical and entomological specimens, &c. The salt solution to contain 25 gr. of salt to 1 oz. of water. The silver solution, 90 gr. in 1 oz.—Common, for copying lace-work, feathers, patterns, &c. The salt solution 20 gr., the silver solution, 40 gr. to an ounce. To fix the drawings on these papers, they must be first washed in lukewarm water, then dipped twice in the solution of hyposulphite of soda, No. 6; then in pure water, and dried.

3. *Iodized Paper.* Brush over the paper on one side (which should be marked) with strong solution of nitrate of silver (100 gr. to 1 oz.); then dip it in the solution No. 5; wash it in distilled water, drain, and dry it.

4. *Bromide Paper.* Soak the paper in the solution No. 4; then brush it over with strong solution of nitrate of silver, and dry in the dark.

5. *Calotype Paper.* Brush iodized paper (3) with the gallo-nitrate of silver (solution No. 3), and mark the side; in half a minute dip it into water, and press it between blotting paper. It is then ready for the camera, where it remains from half a minute to five minutes. When removed from the camera, dip it into water, press it between blotting paper, and wash it with solution of 100 gr. of bromide of potassium in 8 or 10 oz. of water.

6. *Chromatype Paper.* Soak the paper in the solution No. 9, and dry it at a brisk fire. To fix the drawing, careful immer-



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trate of silver to the ounce, are selected. The calotypé is still more certain. The papers intended for the camera require to be very carefully prepared.]

PIGMENTS. A few of these have been noticed before : see INDIGO, LAKES, PRUSSIAN BLUE, PURPLE OF CASSIUS. They generally constitute a distinct branch of manufacture, but a brief account of the composition of some of them may be useful. Those of which the colouring matter is derived from the animal and vegetable kingdom will first be noticed ; then the mineral colours.

Carminé. Several processes have been published for this beautiful pigment, but probably some minute precautions, not generally known, may be necessary to the production of the finest quality. The climate and the state of the atmosphere are said to influence the result.

1. *Madame CÈNETTE'S process.* Into 6 pails of boiling clear, soft water, in a copper vessel, throw 2 lb of powdered cochineal of good quality ; boil for 2 hours, add 3 oz. of purified nitre, and after a few minutes, 4 oz. of salt of sorrel. Remove the vessel from the fire, let the contents settle for 4 hours, draw off the clear liquor with a syphon into flat plates, and leave it at rest for 3 weeks. Carefully detach the pellicle of mould from the surface, withdraw the liquid with a syphon and pipette, and dry the deposit in a stove.

2. Boil 4 quarts of soft water in a pewter kettle, add to it 4 oz. of finely-powdered cochineal ; boil for 5 minutes, adding 2 dr. of powdered cream of tartar ; then add 8 scruples of Roman alum, and keep the whole on the fire for a minute longer. Let the decoction settle, decant it into cylindrical glasses, and cover them. When the carmine has subsided, pour off the clear liquor, and dry the sediment. By adding solution of tin to the liquid, more carmine is obtained.

3. Into a 14-gallon boiler of tinned copper put 10 gallons of distilled water, or filtered rain water ; when it boils, sprinkle in, by small quantities, 1 lb of powdered cochineal, and keep it boiling for half an hour. Then add $3\frac{1}{2}$ oz. of crystallized carbonate of soda ; in a minute or two, draw the fire, and add $1\frac{1}{2}$ oz. of Roman alum in fine powder ; stir with a glass rod till the alum is dissolved, leave it to settle for 25 minutes, draw off the liquor with a glass syphon, and strain the rest through a coarse linen cloth. Clean the boiler, return into it the clear coloured liquor, and stir into it the whites of 2 eggs, previously well beaten with a quart of warm (not hot) water. Then light the

fire, and heat the liquor till it begins to boil; separate the coagulum by filtration, wash it on the filter with distilled water, spread it thinly on earthen plates, and dry it in a stove.

Inferior carmine may be improved by dissolving it in water of ammonia, and precipitating it by acetic acid and alcohol.

Cochineal Lake. Add 2 lb of pearlash to the red liquor from which the carmine has been prepared in the last process, and return it to the boiler with the dregs of the cochineal; boil for half an hour, draw the fire, and when the sediment has subsided, draw off the clear liquor into an earthen vessel. Pour on the sediment a solution of 1 lb of pearlash in 2 gallons of water, and boil for half an hour. Filter, and return both liquors into the copper. When as hot as the hand can bear, add to the liquor, by little and little, 3 lb of powdered Roman alum, and let it simmer for 5 minutes. Allow it to settle, draw off the clear liquor, collect the sediment on a filter, wash it with clean rain water, and leave it covered with a cloth for a few days, till half dry; form it into small lumps, and dry them in a stove.

Carthamine, or Safflower Lake. Wash safflower till the water comes off colourless; mix it with water, holding 15 per cent. of carbonate of soda in solution, so as to form a thick paste; leave it for several hours, then press out the red liquid, and nearly neutralize it with acetic acid. Then put cotton into it, and add successive small portions of acetic acid, so as to prevent the liquid becoming alkaline. In 24 hours take out the cotton, wash it, and digest it for half an hour in water holding 5 per cent. of crystallized carbonate of soda in solution. Immediately on removing the cotton, supersaturate the liquid with citric acid, and collect the precipitate, which must be repeatedly washed in cold water. For pink saucers the liquid is allowed to deposit in the saucers. Mixed with the scrapings of French chalk it constitutes rouge.

Lakes are also obtained from Brazil-wood and madder, by adding alum to a concentrated decoction of the former, or to a cold infusion of the latter (made by triturating the madder, enclosed in a bag, with the water), and afterwards sufficient subcarbonate of potash or soda to throw down the alumina in combination with the colouring matter. The precipitate is to be washed and dried. A little solution of tin added with the alum improves the colour. Lakes may be obtained from most vegetable colouring matters by means of alum and an alkaline carbonate. *Yellow Lake* is made from French or Persian berries, by boiling them in water, with a little soda or potash, and

adding alum to the strained liquor as long as a precipitate is thrown down.

Rose Pink. Boil 6 lb of Brazil-wood and 2 lb of peach-wood in water, with $\frac{1}{4}$ lb of alum; and pour the strained decoction on 20 lb of sifted whiting.

Bistre. A watery extract of the root of beech-wood.

Sap Green. The expressed juice of buckthorn berries (and sometimes of other species of rhamnus, and also of privet berries) is allowed to settle, and the clear liquid evaporated to dryness. A little gum Arabic is sometimes added to the juice.

MINERAL PIGMENTS. *Azure Blue, or Smalts.* The common is made by fusing zaffre (roasted cobalt ore calcined with siliceous sand) with potash. A finer quality is obtained by precipitating a solution of sulphate of cobalt by a solution of silicate of potash. Another cobalt blue is obtained by adding a solution of phosphate of soda to a solution of nitrate of cobalt, and mixing the precipitate, washed but not dried, with eight times its weight of fresh hydrated alumina. When dry, heat it to a cherry red.

Egyptian Azure. Carbonate of soda 16 oz., calcined flints 24 oz., copper filings 4 oz. Pulverize, mix, and fuse in a crucible for two hours. When cold reduce to powder.

Blue Verditer. It is generally stated to be made by adding chalk to a solution of nitrate of copper produced in the process of refining silver: but Mr. PHILLIPS did not succeed in making it by this means, and found no lime in the best samples.

Brunswick Green. Pour a saturated solution of muriate of ammonia over copper filings in a close vessel placed in a warm situation; add more of the solution from time to time till three parts of the muriate have been used to two of copper. After standing for a few weeks, the pigment is separated from the unoxidized copper by washing through a sieve. It is then to be well washed, and dried slowly in the shade. It is often reduced with white lead; some samples contain arsenic.

Chrome Yellow. To a solution of bichromate of potash add a solution of nitrate of lead as long as a precipitate forms. Wash the precipitate and dry it with a gentle heat. An inferior kind is said to be made by 4 lb of pure white lead, 1 lb of bichromate of potash, and 20 lb of water, and boiling till the water becomes colourless.

Chrome Red. Melt saltpetre in a crucible heated to dull redness, and add chrome yellow, by small portions, till no more red fumes arise. Allow the mixture to settle; then pour off the



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Chrome Green. A mixture of chrome yellow and Prussian blue.

Ultramarine, Factitious. Take 70 parts of silica, or pure siliceous sand, in fine powder; 240 parts of recrystallized alum, calcined; 144 parts of sulphur; 48 parts of finely powdered charcoal; 240 parts of dry carbonate of soda. These are mixed together with the greatest care till the mixture appears of uniform colour under a powerful magnifier, and the mixture exposed to a moderate red heat in a closely-covered crucible for an hour and a half. Wash the product with boiling water. Mix the powder with its own weight of sulphur and $1\frac{1}{2}$ its weight of dried soda, and burn as before; heat it again with sulphur and soda, and wash it till the filtered fluid no longer colours acetate of lead. If a sample of the dried powder becomes blue when burnt with sulphur, it is ready for the last operation. Spread over a cast iron plate a layer of sulphur a line in thickness, and over it an equal layer of the dried powder after having passed it through a gauze sieve. Heat the plate so as to burn away the sulphur at the lowest possible temperature. Reduce the pigment to powder and repeat the burning with sulphur and pulverization till the colour is perfect.

PLATES, DAGUERREOTYPE, are prepared by cleaning and polishing the silver surface, exposing it to the vapour of dry iodine or tincture of iodine, or iodide of bromine, or bromide of lime. After having the image thrown on them they are exposed to the vapour of mercury. But the manipulations and precautions necessary to the success of the operation are too numerous to detail here.

PLATE-BOILING POWDER. Equal parts of cream of tartar, alum, and common salt. A small quantity added to the water in which plate is boiled gives it a silvery whiteness.

PLATE POWDERS. 1. *Jeweller's Rouge.* Dissolve green vitriol in hot water, and add a solution of pearlash as long as it throws down a precipitate. Wash the precipitate repeatedly with warm water, drain it on calico, and finally calcine it till it assumes a bright colour. It is sometimes made by calcining the sulphate of iron with a strong heat till oxide of iron only remains. Let it be triturated with water, and prepared in the same way as prepared chalk.

2. *French Plate Powder.* Mix 1 part of jeweller's rouge with 12 of carbonate of magnesia.

3. Finely prepared chalk, or burnt hartshorn. One way in which these are used is to boil them with water, with pieces of rag; the finer particles are entangled in the fibres of the rags, which are dried and kept for use.

4. Quicksilver with chalk 1 oz., prepared hartshorn 8 oz., prepared chalk 4 oz. Powders containing quicksilver, besides the necessary wearing of the surface, are supposed to render the plate more brittle. If used it should not be in larger proportion than the above.

5. Finest putty powder 1 oz., levigated chalk 5 oz.; a little rouge may be added to colour it.

See NOVARGENT, SILVERING POWDER, &c., for restoring the silver to plated goods.

PLATINA, BLACK (OXIPHOROUS). Dissolve protochloride of platina in a boiling solution of potash, add alcohol in small portions till all effervescence ceases. Boil the black precipitate successively with alcohol, muriatic acid, and potash, and finally 4 or 5 times with water.

PLATINA, CHLORIDES OF. Dissolve platina in nitro-muriatic acid, and evaporate with a gentle heat to dryness. The red bichloride remains. Heated to 450° the protochloride remains.

PLATINA SPONGE. Dissolve separately in rectified spirit chloride of platinum and sal ammoniac. Mix the solutions, and heat the precipitate to redness. For balls for hydrogen lamps, form the precipitate into balls while moist, and afterwards burn them.

PLATINATED ASBESTOS. Dip asbestos in a solution of chloride of platinum, and heat it to redness. It causes the inflammation of hydrogen in the same manner as sponge platina.—Dr. HARE.

PLATINIZED SILVER. Silver plates for SMEE'S voltaic battery are covered with pulverulent platina, by adding a little bichloride of platinum to acid water, and decomposing the solution by the use of a platinum terminal in connexion with the copper of a battery, the silver plate to be platinized, being in connexion with the zinc. Platinum itself is sometimes platinized in the same way.

POISON. See BEETLE WAFER, BUG POISONS, and RAT POISON. A few recipes omitted in their proper place are here inserted.

Poison for Beetles. Put a drachm of phosphorus in a flask

with 2 oz. of water; plunge the flask into hot water, and when the phosphorus is melted pour the contents into a mortar with 2 or 3 oz. of lard. Triturate briskly, adding water, and $\frac{1}{2}$ lb of flour with 1 or 2 oz. of brown sugar.—**PHARMACEUTICAL JOURNAL.** Plaster of Paris with oatmeal destroys cockroaches. A more effectual but unsafe poison is arsenic mixed with honey.

Bug Poison. Scotch snuff and soft soap.—**CHAMBERS' JOURNAL.**

POLISH. See **FRENCH POLISH.**

POT POURRI. See **PERFUMERY.**

POUNCE. Powdered gum juniper is used under this name for preparing parchment for writing on. For liquid pounce, see **INK, MARKING.**

POUDRE CLARIFIANTE. Beat together the whites and yolks of eggs, dry them with a very gently heat, and reduce to powder. For clarifying wines and syrups.

POWDERS. See **TOOTH POWDERS**, and **HAIR POWDERS**, under **COSMETICS**; **SCENT POWDERS**, under **PERFUMERY**, &c.

PRESERVATIVE LIQUIDS. See **ANATOMICAL SUBJECTS**, and **ANIMAL SUBSTANCES, TO PRESERVE.**

PRUSSATE OF POTASH (YELLOW). What is known in commerce by this name is the ferro-prussiate of potash, or ferrocyanide of potassium. It is prepared by fusing in an egg-shaped iron pot a mixture of 2 parts of pearlash, and 5 parts of dry animal matters such as horns, hoofs, tallow-chandlers' greaves, &c.; till fetid vapours cease to be produced. Iron filings are sometimes added, but usually the iron necessary to the formation of this salt is derived from the iron pots and stirrers. The fused mass (*prussiate cake*) is allowed to cool, dissolved in warm water, and the clear filtered or decanted solution evaporated, that crystals may form. These are dissolved in hot water, and the solution allowed to cool very slowly, that large crystals may form.

RED PRUSSATE OF POTASH. *Ferridcyanide of Potassium.* Into a dilute solution of the above prussiate of potash a current of chlorine gas is passed, till the solution ceases to give a blue precipitate with persalts of iron. It is then evaporated, crystallized, and recrystallized till quite pure. M. POSSELT advises to add a few drops of solution of potash to the boiling liquor, to decompose the green matter that is formed; to filter the hot



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the name of naphtha, and is regarded by chemists as an hydrated oxide of methule. After the pyroxylic spirit has come over, the crude pyroligneous acid distils, which still holds some tar and empyreumatic oil in solution. It is purified by saturating it either directly with common soda, or first with lime, or rather chalk, and when the neutral solution has become clear, evaporating it to 1.114 sp. gr., and adding sufficient saturated solution of sulphate of soda to decompose the impure acetate of lime. The clear solution obtained by either process is then evaporated, that the acetate of soda may crystallize. This is afterwards roasted at a temperature of about 500° Fahrenheit, to destroy the tar, again dissolved, and crystallized. The purified acetate is then distilled with sulphuric acid, to obtain a purer pyroligneous or acetic acid. See *Acidum Aceticum*, P. F. For some manufacturing purposes; an impure acid is obtained by merely saturating the crude pyroligneous acid with lime, evaporating to dryness, and distilling with sulphuric acid.

If acetate of lime or acetate of lead be distilled without addition, and the liquid which comes over be rectified over lime, *pyroacetic spirit* is obtained: this is the medicinal naphtha of Dr. HASTINGS, and is also termed, *acetone*. See *NAPHTHA*, P. F.

PYROPHORUS. This name is given to several compounds, prepared by calcination, which take fire when exposed to the air, especially when breathed upon. The following are perhaps some of the best:—

1. Heat tartrate of lead in a tube of hard glass, and securely close the tube before the charred residuum becomes cold. A little poured out and breathed upon takes fire. The tartrate of lead is made by dissolving separately 2 dr. of tartaric acid and 5 dr. of crystallized acetate of lead in sufficient water, mixing the solutions, and collecting, washing, and drying the precipitate.

2. Calcine tartar-emetic in a similar manner, or in a closed crucible.

3. Mix 11 parts of lamp-black with 2 of powdered sulphate of potash, and heat the mixture strongly in a closely-covered crucible. The product is so combustile that it can scarcely be transferred to a bottle without danger.

4. Mix 3 parts of powdered alum with 1 of flour, and calcine the mixture in a common phial, coated with clay or placed in sand, till it ceases to emit a blue flame. Before it is cold, close it securely with a sound cork or glass stopper.

5. Mix neutral chromate of lead with 1-6th its weight of sulphur; triturate them with water sufficient to form a paste

and make it into pellets; dry these perfectly, then heat them in a tube till the sulphur is all driven off, and secure as the last.

RAT AND MICE POISONS. [Such as contain arsenic are placed first, and afterwards several compounds which have been introduced as substitutes for that mineral, which has proved so destructive of human life. If arsenic must be employed, it should be sold mixed with substances which would prevent its being taken by mistake, or insure detection if designedly administered.]

1. For barn floors. Mix a pint of good flour with as much yellow arsenic as will lie on a shilling; put this in a small heap on the floor, and over this put another pint of good flour unmixed. Draw a track up to the heap with a feather dipped in oil of aniseed and oil of caraways, and sprinkle this over with a little flour.*

2. Mix a quart of the best oatmeal, 2-oz. of powdered loaf sugar, 6 drops each of the oils of rhodium, caraway, and aniseed, and $\frac{1}{4}$ gr. of musk. Mix them very perfectly without touching the mixture with the hands. Place in a retired place 6 or 8 pieces of clean board, and on each two tablespoonsful of the powder, for a few successive nights, without disturbing the rats. About the sixth night, if they are found to eat freely, mix a teaspoonful of white arsenic with the powder. What remains in the morning should be burnt, avoiding the fumes.—THE CHEMIST, vol. vi.

3. White arsenic 2 oz., carbonate of barytes 2 oz., white sugar $3\frac{3}{4}$ oz., rose pink $\frac{1}{4}$ oz., oil of aniseed and oil of rhodium, of each 5 drops.

4. Malt flour 1 lb, oil of rhodium 3 drops, sugar 2 oz., 8 cloves, a tablespoonful of caraway seeds, all beaten in a mortar. Lay it in small parcels where they frequent, for 3 or 4 nights, till they eat it freely, then add some arsenic dissolved in spirit of salts.—MAYER.

5. *Ointment for Rats in Ricks.* Mix together 1 lb of fresh butter, free from salt, $1\frac{1}{2}$ oz. of calomel, 8 oz. of crumbs of white bread, 2 oz. of sugar, and 5 drops each of oil of nutmeg and rhodium, and 2 drops of oil of aniseed. To use it, make a hole with the arm under the ridge; into this hole insert a stick, and on the middle of it, where it does not touch the rick, put a lump of the ointment.

* The following is an old rat-catcher's receipt for oils to attract rats:—Two dr. of oil of aniseed, 2 drops of nitrous acid, and 2 gr. of musk. Oil of rhodium is also supposed to be very attractive to these vermin. Assafoetida with these oils is also used.

6. *For Traps.* Put the same, with 2 or 3 drops of oil of thyme.

7. *Hampshire Millers' Rat Powder.* Mix 1 oz. of nux vomica in powder with a pound of fresh oatmeal, and add a few drops of oil of rhodium, or what answers better, oil of aniseed with musk.

8. *Philanthrope Muophobon.* A French preparation so called consists of 1 part of emetic tartar to 4 of farinaceous and other ingredients.

9. Put into a flask 2 dr. of phosphorus and 5 or 6 oz. of water, put the flask in warm water (about 150° Fahrenheit) till the phosphorus is liquefied; pour the contents into a mortar, and immediately add 5 or 6 oz. of rye-meal; when cool, add the same quantity of melted fresh butter, and 4 oz. of sugar.

10. Another form of the phosphorus compound is—Melt 1 lb of lard in a bottle plunged in water, and heated to 150° Fahrenheit. Introduce into it $\frac{1}{2}$ oz. of phosphorus, and add a pint of proof spirit. Cork the bottle securely after its contents have been heated to 140°, and taking it out of the water-bath, agitate it briskly till the phosphorus is uniformly diffused; repeat the agitation occasionally as it cools, and when cold, pour off the spirit which has separated (which may be reserved for the same purpose), and incorporate with the fatty compound wheat flour and sugar. Place little lumps of this in the rat-holes, and set some water near for them to drink.

11. Valentia almonds 1 oz., treacle 2 oz., carbonate of barytes 1 oz., oil of aniseed 5 drops, flour enough to form a pasté.

RENNET. The stomach of a calf, washed, salted, and dried.

RENNET LIQUID. ESSENCE OF RENNET. Fresh rennet 12 oz., salt 2 oz., proof spirit 2 oz., white wine a quart; digest for 24 hours, and strain. A quart of milk requires 2 or 3 teaspoonsful. WISLIN directs, 10 parts of a calf's stomach, salt 3 parts. The membrane of the stomach is to be cut with scissors, and kneaded with the salt, and the rennet found in the interior of that organ; the whole left in a cool place in an earthen pot till the cheesy odour is replaced by the proper odour of rennet, which will be in 1 or 2 months. Then add 16 parts of water and 1 of spirit. Filter, and colour with burnt sugar.

RUST, TO PREVENT AND REMOVE. Steel goods are rubbed over with a mixture of lime and oil, to preserve them from rusting. Mercurial ointment has been recommended for the same purpose. M. PAYEN recommends plunging the articles into a solution of common soda. Spots of rust are removed by rubbing them with



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oz., King's yellow $\frac{1}{2}$ oz., Prussian blue $\frac{1}{4}$ oz., magnesia as for brown.

Gold. 1. Venice turpentine 4 oz., fine shell-lac 8 oz., leaf-gold 14 sheets, bronze powder $\frac{1}{2}$ oz., magnesia (made into a paste with oil of turpentine) $1\frac{1}{2}$ drachm.

2. Use gold talc instead of leaf-gold and bronze.—GRAY.

Marbled. Melt each coloured wax separately, and just as they begin to grow solid, mix together.—GRAY.

Red. 1. *Fine Carmine Wax.* Venice turpentine 2 oz., finest shell-lac 4 oz., colophony 1 oz., Chinese vermilion $1\frac{1}{2}$ oz., magnesia as for gold wax.

2. *Finest Red.* Venice turpentine 4 oz., shell-lac 7 oz., cinnabar 4 oz., carbonate of magnesia with oil of turpentine $1\frac{1}{2}$ drachm.

3. As the last, with only $3\frac{1}{2}$ oz. of cinnabar.

4. Venice turpentine 4 oz., shell-lac $6\frac{1}{2}$ oz., colophony $\frac{1}{2}$ oz., cinnabar $2\frac{1}{2}$ oz., magnesia with oil of turpentine $1\frac{1}{2}$ drachm.

5. Venice turpentine 4 oz., shell-lac 6 oz., colophony $\frac{3}{4}$ oz., cinnabar $1\frac{3}{4}$ oz., magnesia as before.

6. As last, but use colophony and cinnabar each $1\frac{1}{2}$ oz.

7. Venice turpentine 4 oz., shell-lac $5\frac{1}{2}$ oz., colophony $1\frac{1}{2}$ oz., cinnabar $1\frac{1}{4}$ oz., magnesia as before.

8. *English.* Venice turpentine 2 oz., shell-lac 4 oz., vermilion 1 oz.

9. *Spanish.* Venice turpentine 8 oz., shell-lac 2 oz., colophony 4 oz., vermilion 1 oz. Remove from the fire, and add $\frac{1}{2}$ oz. rectified spirit.

Yellow. Venice turpentine 2 oz., shell-lac 4 oz., colophony $1\frac{1}{4}$ oz., King's yellow $\frac{3}{4}$ oz., magnesia as before.

Perfumed Wax. Add to any of the above a small quantity of fine benzoin.

Common Bottle Wax. 1. Dark rosin 18 oz., shell-lac 1 oz., bees-wax 1 oz. Melt together, and colour with red lead, Venetian red, or lamp-black.

2. Rosin 19 oz., bees-wax 1 oz.; colour as before.

SHAVING PASTE AND LIQUID. See pages 196, 197.

SILVERING POWDER, &c., for silvering copper, covering the worn parts of plated goods, &c. 1. Nitrate of silver 30 gr., common salt 30 gr., cream of tartar $3\frac{1}{2}$ dr. Mix. Moistened with water and rubbed on dial plates or other copper articles, it coats them with silver.

2. Silver precipitated from its nitric solution by copper 20 gr., alum 30 gr., cream of tartar 2 dr., salt 2 drachms.

3. Precipitated silver $\frac{1}{2}$ oz., common salt 2 oz., muriate of ammonia 2 oz., corrosive sublimate 1 dr.; make it into a paste with water. Copper utensils are previously boiled with tartar and alum, and rubbed with this paste, then made red-hot, and afterwards polished.

4. Dissolve muriate of silver in a solution of hyposulphite of soda, and mix this with prepared hartshorn or other suitable powder.

For SILVERING GLASS, see GLASS.

SILVER, TO PURIFY AND REDUCE. Silver, as used in the arts and coinage, is alloyed with a portion of copper. To purify it, dissolve the metal in nitric acid slightly diluted, and add common salt which throws down the whole of the silver in the form of chloride. To reduce it into a metallic state several methods are used:—1. The chloride must be repeatedly washed with distilled water, and placed in a zinc cup; a little diluted sulphuric acid being added, the chloride is soon reduced. The silver when thoroughly washed is quite pure. In the absence of a zinc cup, a porcelain cup containing a zinc plate may be used. The process is expedited by warming the cup.

2. Digest the washed chloride with pure copper and ammonia. The quantity of ammonia need not be sufficient to dissolve the chloride. Leave the mixture for a day, then wash the silver thoroughly.—HORNUNG.

3. Boil the washed and moist chloride in solution of pure potash, adding a little sugar: when washed it is quite pure.

SIZE. *Oil size* is made by grinding yellow ochre or burnt red ochre with boiled linseed oil, and thinning it with oil of turpentine. *Water size* (for burnished gilding) is parchment size ground with yellow ochre.

SMALTS. See PIGMENTS.

SOAP. FOR PERFUMED AND TOILET SOAPS, see page 194. For the manufacture of soaps generally see Dr. URE's Dictionary of the Arts, and other similar works. Hard soaps are made by boiling oils or fats with a ley of caustic soda. Soft soaps consist of oil and potash; and as they do not separate from the ley like the hard soaps, they generally contain an excess of caustic alkali. Silica soap has silicate of soda incorporated with it. Soap is adulterated by earthy matters, as pipeclay, &c.; these other impurities remain when soap is dissolved in alcohol and

SOLVENTS FOR INDIAN RUBBER. *Æther* for this purpose should be agitated with water and decanted. *Benzole* will dissolve caoutchouc with warmth and long digestion. *Rectified coal naphtha* forms an imperfect solution employed in MACKINTOSH'S water-proof fabrics. *Oil of turpentine*, rendered pyrogenous by absorbing it with bricks or porous ware, and distilling it without water, and treating the product in the same way, is also used for this purpose. It is stated that the solution on evaporation does not leave the caoutchouc in a sticky state. Another method is to agitate oil of turpentine repeatedly with a mixture of equal weights of sulphuric acid and water; and afterwards expose it to the sun for some time. *Bisulphuret of carbon* is a good solvent, dissolving the gum without heat. This constitutes PARKES'S Patent Solvent. *Chloroform* is an excellent but rather expensive solvent. *Caoutchoucine* has also been employed as a solvent. It is prepared by distilling Indian rubber without addition, increasing the heat to 600° Fahr. The product is rectified by distilling it with one-third of water. It is then a colourless fluid of .680 specific gravity. Its smell is improved by agitating it with 5 oz. of nitro-muriatic acid to each gallon. Indian rubber is rendered more readily soluble by first digesting it with a solution of carbonate of soda, or water of ammonia.

SOLVENTS FOR GUTTA PERCHA. Benzole readily dissolves it. So do chloroform and bisulphuret of carbon.

SOLVENT FOR OLD PUTTY AND PAINT. Soft soap mixed with solution of potash or caustic soda; or pearlash and slaked lime mixed with sufficient water to form a paste. Either of these laid on with an old brush or rag, and left for some hours, will render it easily removable.

SOLUBLE GLASS. See GLASS.

SOLUTIONS USED IN ELECTROTYPE MANIPULATIONS, &c.

1. *Gold Solution.* Dissolve 2 oz. of cyanide of potassium (by LIEBIG'S method) in a pint of warm distilled water, and add $\frac{1}{4}$ oz. of oxide of gold, and agitate together.

2. *Silver Solution.* Dissolve 2 oz. of LIEBIG'S cyanide of potassium in a pint of distilled water; add $\frac{1}{4}$ oz. of moist oxide of silver (precipitated by lime-water from a solution of the crystallized nitrate), and agitate together till the oxide is dissolved.

3. *Solution in which Steel Articles are dipped before Elec-*



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by machinery, rasped by a revolving grater, and the pulp washed on hair-sieves till freed from the starchy matter. Successive portions of the pulp are thus treated till the vessel over which the sieves are placed is sufficiently full. The starch held in suspension in water subsides to the bottom; the water is then drawn off, and the starch stirred up with fresh water, and again allowed to subside. This is repeated several times till the starch is sufficiently pure. The fibres and the washing waters are used as manures. The washed fibres have also been recommended as an ingredient in bread for diabetic patients.

Wheat Starch. Wheat flour is steeped in water for a week or two and allowed to ferment. The acid liquor is drawn off, and the residue washed on a sieve: what passes through is allowed to settle, the sour liquor drawn off, and the starch thoroughly washed from the slimy matter. It is then drained in perforated boxes, cut up into square lumps, placed on bricks to absorb the moisture, and dried in a stove. See Dr. PEREIRA'S Elements.

Various means are used to free the starch from gluten and other impurities. In the patent rice starch, and probably other kinds of starch, alkaline solutions are used. Ammonia has been recommended, as it does not, like potash and soda, dissolve any portion of pure starch.

The various kinds of fæcula are distinguishable by the form of their particles or grains. By a microscopical examination of these the mixture or substitution of potato starch with the more expensive kinds is readily detected. Figures of the different kinds of starch grains are given in the Pharmaceutical Journal, vol. iv., in Dr. PEREIRA'S Elements, &c. M. GOBLEY has proposed to distinguish them by the coloration produced when the several kinds are exposed to the vapour of iodine; but the effect seems to depend greatly on the relative dryness of the samples.

STEARINE, STEARIC ACID. Fat is saponified, and the soap decomposed by an acid, with a large quantity of water, the mixture being kept warm and well stirred. The water being drawn off, the fatty matter is well washed, allowed to cool, and submitted to strong pressure.

STORM GLASS. Take $2\frac{1}{2}$ dr. of camphor, 38 gr. of nitre, and 38 gr. of sal ammoniac; dissolve them in 9 dr. of water, and 6 dr. of rectified spirit, with a gentle heat. It is placed in a glass tube covered with a brass cap, with a small hole to admit

air. Its various changes are supposed to indicate changes of weather, but the indications are not to be relied on.

• **STUFFING BIRDS AND ANIMALS, PREPARATIONS FOR.** 1. Camphor 1 oz., corrosive sublimate 1 oz., alum $\frac{1}{2}$ oz., sulphur 1 oz.; all finely powdered and mixed.

2. Tanners' bark dried and powdered 2 oz., burnt alum 1 oz., snuff 1 oz.; mix, and add arsenic $\frac{1}{4}$ oz., camphor $\frac{1}{4}$ oz., sulphur 1 dr.

3. **BECŒUR'S Arsenical Soap.**—Camphor 5 dr., arsenic 4 oz., white soap 4 oz., carbonate of potash 12 oz., air-slaked lime 4 oz.; make a stiff paste with a little water.

STYROL. Mix 20 parts of storax with 7 of carbonate of soda, and put them into a retort with water, and apply heat. A limpid fluid distils, which becomes when heated to a certain point, a transparent solid.

SUGAR RESIN. Mix 16 parts of strong sulphuric acid with 8 of the strongest nitric acid; when cooled to 70° Fahr., stir in one part of finely powdered sugar. In a few seconds, when the sugar has become pasty, take it out of the acid and plunge it into cold water. Add more sugar to the acid, and proceed as before. Wash the resinous matter carefully, and dissolve it in alcohol or ether. Evaporate the solution with a gentle heat. It is very combustible. Its solution may be used to render gunpowder, lucifer matches, &c., waterproof.

SULPHITE OF COPPER. To a concentrated solution of bisulphite of potash, add a cold solution of sulphate of copper, filter, and heat it gently.

SULPHO-CYANIDE OF AMMONIUM. Saturate 2 parts of common water of ammonia (sp. gr. .950) with sulphuretted hydrogen; and add 6 parts of the same ammonia. To this mixture add 2 parts of sulphur, and the product of the distillation of 6 parts of prussiate of potash, 3 of sulphuric acid, and 18 of water. Digest till the sulphur is no longer acted on, and the liquid becomes yellow. Boil the liquid till it becomes colourless, filter, evaporate, and crystallize.

SULPHURET OF CARBON. See **BISULPHURET OF CARBON.**

SYRUP OF MILK. Evaporate, with constant stirring, 6 lb of skimmed milk to 3 lb; add 4½ lb of sugar; dissolve with a gentle heat, and strain. It may be flavoured with the addition of 1 oz. of cherry-laurel water. [For other Syrups see P. F.] Milk

may be preserved by first heating it, and when cold, charging it with carbonic acid gas.

TANNIN. See ACID, TANNIC, page 250.

TERPINE. Leave oil of turpentine for a long time in contact with a mixture of nitric acid and alcohol. Crystals of terpene form. By boiling an aqueous solution of terpene with a small quantity of sulphuric or other acid, *terpinole* is formed, and may be separated by distillation. It has the odour of hyacinths.

TEST LIQUORS, TEST PAPERS, &c. Distilled water only should be used in these preparations. In preparing the papers, the liquid should be placed in an earthenware plate or dish, and the paper carefully immersed in it so as to be uniformly wetted, then dried out of the reach of acid, ammoniacal, or other vapours likely to affect them; and afterwards kept in bottles, jars, or cases. Dr. FARADAY recommends unsized paper, but Mr. PARNELL and other good authorities direct good letter paper to be used.

Brazil Paper. Dip paper in a strong decoction of Brazil wood, and dry it. [It is rendered purple by alkalies.]

Cabbage Paper. Make a strong infusion of red cabbage leaves, strain it, and evaporate it by a gentle heat till considerably reduced. Then dip the paper in it, and dry it in the air. [This paper is of a grayish colour; alkalies change it to green, acids to red. It is a very delicate test; if rendered slightly green by an alkali, carbonic acid will restore the colour.]

Dahlia Paper. From the petals of violet dahlias, as cabbage paper.

Elderberry Paper. This is merely paper stained with the juice of the berries. Its blue colour is changed to red by acids, and to green by alkalies.

Indigo Paper. Immerse paper in sulphate of indigo, wash it with water rendered slightly alkaline, then with pure water, and dry it in the air.

Iodide of Potassium and Starch Paper. Mix starch paste with solution of iodide of potassium, and moisten bibulous paper with it. [It becomes blue when exposed to ozone. Chlorine has the same effect.]

Lead Paper. Paper dipped in a solution of acetate of lead. [When moistened it detects sulphuretted hydrogen, which renders it black.]

Blue Litmus Paper. Bruise 1 oz. of litmus in a mortar, and add boiling water; triturate together, put them in a flask and add boiling water to make up to half a pint; when cool, strain



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above for litmus paper. Or an ounce of powdered litmus may be triturated with 6 oz. of boiling water, digested near the fire for an hour, and mixed, when cool, with 2 oz. of spirit. Or digest 1 oz. of powdered litmus in a pint of proof spirit for 7 days. If required red, a few drops of acetic acid are added to either of these. The next day, decant the clear liquor. Dr. PEREIRA directs 1 part of litmus to 25 of water. When made very strong, it must be diluted when used.

Tincture of Galls, Infusion of Galls, &c. Fresh powdered blue galls 1 oz., proof spirit 8 oz.; digest in a close vessel for a week, and filter. A watery infusion of galls may be made in the same proportion with boiling water for immediate use. PETTENKOFFER directs 1 oz. of powdered galls to be infused in 3 or 4 oz. of boiling water for several hours, and 2 oz. of salt added. After filtration, it retains its transparency and power of precipitating gelatine for years. [These are used to detect iron, with the salts of which it produces a black colour; for gelatine, which it precipitates in brownish-white flocks; and several of the organic alkaloids.]

MARSH'S *Dahlia Test*. Make a strong infusion of the petals of dark dahlias; strain, and add to every pint $\frac{1}{2}$ oz. of strong sulphuric acid; stir with a glass rod, and when cold, add to each pint 2 gr. of corrosive sublimate. Filter through coarse cloth, and bottle. When required for use, neutralize it carefully with ammonia, and use the liquid by dipping paper in it.

Syrup of Violets. On 4 oz. of fresh petals of violets pour half a pint of water at 104° Fahrenheit, stir them together, and in a minute or two strain off the water with gentle pressure, and pour 8 oz. of boiling distilled water on the flowers. In 12 hours, strain through linen, let the infusion settle, and decant. Then dissolve in it twice its weight of refined sugar, by a gentle heat. [A delicate test for acids and alkalies.]

Dr. CLARK'S *Test for Hardness of Water*. Dissolve 1 oz. of Hawes's best white soap in a gallon of proof spirit. If not of such strength that it requires 32 measures to be added to 100 measures of solution of chloride of calcium of 16 degrees of hardness (see below) before it lathers, it must be adjusted to that strength. [The chloride of calcium solution is thus made:—Dissolve 16 gr. of pure carbonate of lime in a small quantity of pure hydrochloric acid, avoiding loss from effervescence; evaporate the solution to dryness, and dissolve the residue in water, and again evaporate till a neutral solution is obtained; then dissolve in a gallon of water. This forms the standard solution of 16 degrees of hardness. One measure of this solu-

tion with 15 of distilled water constitutes a solution of 1 degree of hardness; and so on, up to 16 degrees. The degree of hardness expresses the number of grains of carbonate of lime per gallon contained in the water. For the mode of using this test, see Dr. CLARK'S pamphlet, or PARNELL'S Chemical Analysis.]

Solution of Carbonate of Ammonia. Mr. PARNELL directs this test to be prepared by dissolving 1 part of sublimed carbonate of ammonia in 3 of water, and adding 1 part of water of ammonia.

Solution of Oxalate of Ammonia. Dissolve 1 oz. of crystallized oxalate of ammonia in a pint of water.

Solution of Sulphuretted Hydrogen. Pass sulphuretted hydrogen gas (see GASES, page 290) through cold distilled water, which has been recently boiled, till it will absorb no more. Keep it in small bottles securely closed.

Solution of Hydrosulphuret of Ammonia. Pass sulphuretted hydrogen gas (see page 290) through water of ammonia till the liquid occasions no precipitate in a solution of sulphate of magnesia.

Solution of Ammonio-nitrate of Silver. To a solution of nitrate of silver (1 part crystallized nitrate to 20 of distilled water) add gradually weak water of ammonia till a mere trace of the oxide first precipitated is left undissolved. Let it settle, and decant into a clean, stoppered bottle, and keep it from the light. The Edinburgh Pharmacopœia directs 44 gr. of nitrate of silver to be dissolved in a fluid ounce of water, and sufficient ammonia added, as above. [It gives a pale yellow precipitate with arsenious acid, and a chocolate red with arsenic acid; the same with their salts.]

Solution of Nitrate of Silver. The Edinburgh Pharmacopœia directs this test to be prepared by dissolving 40 grains of the nitrate in a fluid ounce of distilled water. Mr. PARNELL recommends 1 part to 15 or 20 of water. [It is used chiefly for the detection of chlorine or muriatic acid. The precipitate, chloride of silver, is insoluble in nitric acid. Also for hydrocyanic acid, with which it gives a white precipitate, which is decomposed by heat, the silver being reduced.]

Solution of Ammonio-sulphate of Copper. Dissolve 1 drachm of sulphate of copper in 2 oz. of water, and add ammonia till the precipitate first thrown down is nearly all dissolved. Let it settle, and pour off the clear solution. [Chiefly used as a test for arsenical compounds, with which it gives a green precipitate.]

HAHNEMANN'S Wine Test, for detecting lead in wine. Sulphuret of lime 3 oz., tartaric acid 3 oz., water, 2 lb, mix, decant, and add 1 oz. of tartaric acid. Or, simple sulphuretted hydrogen water, 4 oz., tartaric acid 1 dr.

[Solutions of various salts, as well as the acid and alkalies, are used as tests: they must of course be quite pure, and should be, too, concentrated. Besides these, which are too numerous to describe here, there are two or three special tests, or modes of testing, which may be noticed here, as they are often referred to by name.]

TROMMER'S Test for sugar in urine. Put some of the suspected urine into a large test-tube, and add a few drops of solution of sulphate of copper, then sufficient solution of potash to render it strongly alkaline. If sugar be present, the precipitated oxide redissolves into a blue liquid, and on boiling *red* oxide of copper is precipitated.

PETTENKOFER'S Test for bile, in urine, &c. Put a small quantity of the suspected liquid into a test-tube, and add to, drop by drop, strong sulphuric acid till it becomes warm, taking care not to raise the temperature above 122° Fahr. Then add from 2 to 5 drops of syrup, made with 5 parts of sugar to 4 of water, and shake the mixture. If the liquid contain bile, a violet coloration is observed. Acetic acid, and those substances which are converted into sugar by sulphuric acid, may be substituted for sugar.

TOBACCO WATER, for destroying insects in plants. Infuse 1 lb of tobacco in a gallon of boiling water, and cover up till cold. See also **WASHES** for vermin on plants.

TREES, METALLIC. *Lead Tree.* Dissolve 1 oz. of sugar of lead in a quart of distilled or filtered rain water, adding a few drops of acetic acid. Filter, and put the clear solution into a decanter or bottle. Suspend in it a piece of zinc, and set it aside.

Silver Tree. Dissolve 20 gr. of crystallized nitrate of silver in an ounce of distilled water; put it into a phial, and add about $\frac{1}{2}$ a drachm of pure quicksilver.

Tin Tree. Dissolve 3 dr. of muriate of tin in a pint and half of water, with 10 or 15 drops of nitric acid; and suspend in it a rod of zinc.

TURPENTINE, VENICE (factitious). It is usually made by dissolving black resin in oil of turpentine. Dr. PEREIRA states the proportion to be 5 fluid oz. of the oil to 16 oz. of rosin; but some makers put as much as 8, 10, or even 12 oz. of oil of tur-



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2½ oz., highly rectified spirit a quart, powdered glass 3 oz. Mix the powdered glass and resins, and sift them; introduce them into a matrass with the spirit, and heat to boiling, constantly agitating till the gums are dissolved; then add the turpentine. Heat the varnish for half an hour, and, when removed from the fire, agitate till cold.

Brilliant Amber Spirit Varnish. Fused amber 4 oz., sandarach 4 oz., mastic 4 oz., highly rectified spirit a quart. Expose to the heat of a sand-bath, with occasional agitation, till dissolved. [The amber is fused in a close copper vessel, having a funnel-shaped projection, which passes through the bottom of the furnace by which the vessel is heated.]

Chinese Varnish. Mastic 2 oz., sandarach 2 oz., rectified spirit a pint. Close the matrass with bladder with a pin-hole for the escape of vapour; heat to boiling in a sand or water-bath, and, when dissolved, strain through linen.

Crystal Varnish. Picked mastic 4 oz., rectified spirit a pint, animal charcoal 1 oz. Digest and filter.

French Polish and Lacquers are varieties of spirit varnishes. The former have already been noticed (page 282). A few formulæ for the latter are here added:—

Pale or Gold Lacquers. To a pint of rectified spirit add as much gamboge as will give it a bright yellow colour, then add 12 oz. of seed-lac in fine powder, and set it in a sand-bath till dissolved. Or a tincture of annotto (1 part to 8 of spirit) may be added to give the desired colour.

Dark Lacquer. Clear seed-lac 1 lb, dragon's blood 1 oz.; pulverize together, and add them to a pint and half of rectified spirit. Set in a warm place till dissolved.

Lacquer for Brass Work. Turmeric 1 oz., saffron ¼ oz., Spanish annotto ¼ oz., rectified spirit a pint. Digest at a gentle heat for several days; strain through coarse linen, put the tincture in a bottle, and add 3 oz. of good seed-lac coarsely powdered. Place in a moderate heat, and shake frequently, till dissolved; if wanted of a redder shade, increase the quantity of annotto, or add a little dragon's blood. [Some makers prepare a strong tincture of the various colouring ingredients, and add them to the lacquer to produce the required shade.]

Oil of turpentine, and other essential oils, are used as solvents, forming essence varnishes, as the following:—

Mastic Varnish. Clean mastic 5 oz., rectified oil of turpentine (camphine) a quart. Digest in a warm place, shaking frequently, till the solution is complete, then strain.

Picture Varnish. Chio turpentine 2½ oz., mastic 12 oz.,

camphor $\frac{1}{2}$ dr., pounded glass 4 oz., rectified oil of turpentine 3 pints. For oil paintings.

Canada Varnish. Clear balsam of Canada 4 oz., camphine 8 oz.; warm gently, and shake together till dissolved. For maps, drawings, &c., they are first sized over with a solution of isinglass, taking care that every part is covered; when dry, the varnish is brushed over it.

TINGRY'S Essence Varnish. Mastic, in powder, 12 oz., pure turpentine $1\frac{1}{2}$ oz., camphor $\frac{1}{2}$ oz., powdered glass 5 oz., rectified oil of turpentine a quart.

Common Turpentine Varnish. This is merely clear pale rosin dissolved in oil of turpentine; usually 5 lb of rosin to 7 lb of turpentine.

Oil Varnishes. These consist of copal and other gums dissolved by heat in boiled linseed oil; generally with the addition of oil of turpentine.

Cabinet Varnish. Fuse 7 lb of African copal, and pour on it 4 pints of hot clarified linseed oil (see OILS); in 3 or 4 minutes, if it feels stringy, take it out of the building, where there is no fire near, and, when it has cooled to 150° , mix in 3 gallons of oil of turpentine of the same temperature, or sufficient to bring it to a due consistence. [Various qualities of copal varnish are made for different purposes; inferior gums are often substituted for or mixed with copal.]

Amber Varnish. Amber 16 oz.; melt in an iron pot, and add $\frac{1}{2}$ pint of drying linseed oil, boiling hot, and add 3 oz. of rosin and 3 oz. of asphalte, each in fine powder. Stir till they are thoroughly incorporated; remove from the fire, and add a pint of warm oil of turpentine.

Common Oil Varnish. Rosin 3 lb, drying oil $\frac{1}{2}$ a gallon; melt together, and add, when removed from the fire, 2 quarts of warm oil of turpentine.

Varnish for Printers' Ink. To every 10 lb of clarified linseed oil (page 308) add 5 lb of clear black rosin, and $\frac{1}{2}$ lb of oil of turpentine. It is then ready for mixing with lamp-black or other colouring matter. A twelfth part of Canada balsam is sometimes added for the finer sorts.

A few miscellaneous varnishes are added:—

Varnish for Engraving on Copper. Yellow wax 1 oz., mastic 1 oz., asphaltum $\frac{1}{2}$ oz.; melt, pour into water, and form into balls for use. A softer varnish for engravers is made with 1 part of tallow and 2 of yellow wax; or with 2 oz. of wax, 1 dr. of common turpentine, and 1 dr. olive oil. See ETCHING VARNISHES, p. 278.

Varnish for Engraving on Glass. 1. Wax 1 oz., mastic $\frac{1}{2}$ oz., asphaltum $\frac{1}{4}$ oz., turpentine $\frac{1}{2}$ dr.

2. Mastic 15 parts, turpentine 7, oil of spike 4 parts.

LE BLOND'S Varnish. Keep 4 lb of balsam of copaivi warm in a sand or water-bath, and add 16 oz. of copal, previously fused and coarsely powdered, by single ounces daily, and stir it frequently; when dissolved add a little Chio turpentine.

BESSEMER'S Varnish, for metallic paint. This is made with 8 lb of copal, $2\frac{1}{2}$ gallons of drying oil, and 25 gallons of oil of turpentine. These are made into a varnish nearly as directed for Cabinet Varnish; and afterwards mixed with a gallon of slaked lime, and left for 3 days to settle. The clear portion is then drawn off, and 5 parts of varnish mixed with 4 parts of bronze powder.

MACKINTOSH'S Caoutchouc Varnish. Dissolve 1 lb of India rubber cut in shreds in a quarter of a pint of rectified coal naphtha. [Caoutchouc varnishes may be made with either of the solvents noticed above, page 332. The following are also used:

India Rubber Varnish, for boots. Dissolve $\frac{1}{4}$ oz. of caoutchouc in 2 oz. of mineral naphtha. Dissolve also $\frac{1}{2}$ oz. of asphaltum in 1 oz. of oil of turpentine. Mix the solutions.

Balloon Varnish. Melt India rubber in small pieces with its weight of boiled linseed oil, and thin it with oil of turpentine.

Varnish for Frames for Hot Beds. 4 oz. of pulverized white cheese, 2 oz. of slaked lime, and 4 oz. of boiled linseed oil; mix, and add 4 oz. each of whites and yolks of egg, and liquefy the mixture by heat. This curious mixture is said to produce a pliable and transparent varnish.

Coloured Varnishes. Oil varnishes are coloured by grinding with them the most transparent colours, as distilled verdigris for green, &c. Spirit varnishes are also coloured with dragon's blood, gamboge, &c.

Sealing-Wax Varnish. Black or coloured sealing-wax broken small, and sufficient rectified spirit to cover it, digested till dissolved. An article called black lac is sold as an economical substitute for black sealing-wax.

Black Japan. Boil together a gallon of boiled linseed oil, 8 oz. of umber, and 3 oz. of asphaltum. When sufficiently cool, thin it with oil of turpentine.

Brunswick Black. Melt 4 lb of asphaltum, add 2 lb of hot boiled linseed oil, and when sufficiently cool add a gallon of oil of turpentine.

Varnish for Gun Barrels, after browning them. Shell-lac



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2. Linseed oil 8 oz., boiled ditto 10 oz., suet 8 oz., yellow wax 8 oz. Melt.

3. Dr. HARVARD'S. Wax 8 oz., rosin 4 oz., mutton suet 4 oz.; boil together, and apply warm to new boots.

4. Col. HAWKER'S. Drying oil 1 pint, wax 2 oz., Burgundy pitch 1 oz., oil of turpentine 2 oz. Melt over a slow fire, and add a few drops of oil of lavender, or thyme. Brush the boots repeatedly with the composition before the fire, till they appear fully saturated.

For Cloth. It is alternately dipped in a solution of acetate of lead with a little gum, and solution of alum.

For Hats. Boil 8 lb shell-lac, 3 lb frankincense, and 1 lb borax in sufficient water.

WAX. Yellow bees-wax is bleached by pouring the melted wax in a divided state on a revolving cylinder partly immersed in water, so as to form it into fine ribands, which are exposed to air and moisture till bleached, and subsequently refined by melting with water containing sulphuric acid.—Dr. PEREIRA. It has been proposed to bleach wax by adding to each pound of melted wax 2 oz. of powdered nitrate of soda, and afterwards stirring in, by little at a time, 1 oz. of sulphuric acid diluted with 10 parts of water, keeping the mixture warm, and constantly stirred with a glass rod in a capacious earthen vessel; till all the acid is added. It is then allowed to become somewhat cool, and the vessel filled with boiling water, well agitated, and set aside. The cake of wax is removed into boiling water, till this no longer produces a precipitate with chloride of barium.—M. INGENHOL. [We have not found this render wax perfectly white.]

WAX FOR MODELLING. Lead plaster 8 oz., bees-wax 8 oz., Burgundy pitch 8 oz.; melt together, and stir in sufficient chalk to form a paste, and form it into small sticks for use. [For SEALING-WAX, see page 329.]

WHEAT, STEEP FOR. A pound of genuine sulphate of copper, in sufficient water, for each sack of seed. Arsenic is also used; sulphate of zinc has been recommended; so has quicklime. But sulphate of copper seems to give the most satisfactory results. It would be desirable, however, to find an innocuous substitute, as traces of copper have been found in wheat grown from the steeped seed. This appears to have been discovered in the use of a solution of sulphate of soda with lime, which has proved

more successful in France than either arsenic or sulphate of copper.

YEAST, ARTIFICIAL. Honey 5 oz., cream of tartar 1 oz., malt 16 oz., water at 122° F. 3 pints; stir together, and when the temperature falls to 65°, cover it up and keep it at that temperature till yeast is formed.

ZINC, AMMONIACO-CHLORIDE OF. By dissolving equal equivalents of chloride of zinc and sal ammoniac a crystallizable salt is formed, which dissolves oxides of copper and of iron, and is useful in tinning or zincing those metals.

ZINC, AMALGAMATED, (*for voltaic plates.*) Put a little mercury on the zinc plate, and pour on it dilute sulphuric acid; then rub the mercury over the surface by means of a piece of linen.

ZINC, OXIDE OF. It may be obtained from the purified sulphate by precipitating it from a *hot* solution by carbonated or bicarbonated alkalies. It cannot be obtained pure by caustic ammonia.—M. J. LEFORT. Mr. MIDGLEY prepares it on a large scale by the combustion of zinc in a muffle, heated by a furnace of peculiar construction; the zinc is introduced into the muffle from time to time, as the combustion proceeds; he is thus able to prepare one or two hundredweights at a time, by a continuous process.

ZINC, PURIFICATION OF. Granulate zinc by melting it, and pouring it while very hot into a deep vessel filled with water. Place the granulated metal in a hessian crucible in alternate layers with one-fourth its weight of nitre, with an excess of nitre at the top. Cover the crucible, and secure the lid; then apply heat. When deflagration takes place, remove from the fire, separate the dross, and run the zinc into an ingot mould. It is quite free from arsenic.

ADDITIONAL RECEIPTS, AND USEFUL MEMORANDA.

[Some of the following were omitted in their proper place ; others are inserted by request of correspondents.]

ACETIMETRY. The strength of vinegar is estimated for the duty by an instrument named an acetimeter, which determines the quantity of acetic acid present by the specific gravity of the vinegar after neutralization by slaked lime. Dr. URE's plan is to add to a given weight of vinegar bicarbonate of potash till exactly neutralized ; every 2 gr. of the bicarbonate indicate 1 gr. of real acetic acid. In this and the following operations it is convenient to have a long tube (with a foot) to hold 1000 gr. of water. The tube may be three-fourths of an inch internal diameter, and $9\frac{1}{2}$ inches in length ; or five-eighths of an inch diameter and 14 inches in height ; and should be graduated into 100 equal divisions numbered from the top downwards. The quantity of test solution used is then at once seen. In the present case the 200 gr. of the alkaline carbonate being dissolved in sufficient water to fill the graduated portion of the measure, each of the divisions used in neutralizing the vinegar is equivalent to 1 gr. of absolute acetic acid. The best proof of vinegar contains 5 per cent. of acetic acid ; consequently 100 gr. of such vinegar will require $\frac{5}{100}$, and 1000 gr. $\frac{50}{100}$ of the test solution.

ACIDIMETRY. Acids generally are estimated by the quantity of alkalies or carbonated alkalies required to neutralize them. Weigh 100 gr. of the acid and dilute it with a few times its weight of water. Then add sufficient dry or crystallized carbonate of soda, or carbonate of potash, to exactly neutralize the acid. The above graduated tube may be used for the solution of the alkali. By a reference to the table of chemical equivalents, the quantity of real acid of any kind represented by the quantity of alkali required to neutralize it may be estimated. Thus 54 gr. of dry carbonate of soda, or 144 of the crystallized, or 70 gr. of dry carbonate of potash, or 101 of crystallized bicarbonate, represent 51 gr. of real acetic acid, 37 of hydrochloric acid, 36 of dry and 63 of crystallized oxalic acid, 40 of dry and 49 of liquid sulphuric acid.

ALKALIMETRY. The quantity of real alkali contained in the commercial alkalies (common soda, soda ash, potashes, pearlash,



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LAN, noticed and figured in the *Pharmaceutical Journal*, vol. vii. page 343.

LIEBERT'S COSMETIC FOR CHAPPED NIPPLES. Dissolve 10 gr. of nitrate of lead in 1 oz. of water. A pair of fine lead shields accompany the lotion, to be worn after applying it. The nipples must be carefully washed before the child is put to the breast.

LIQUORICE, PURIFIED EXTRACT OF. Italian or Spanish juice may be purified by the following method:—Take a sugar mould, close the vent-hole with a stopper, place inside it some coarse tow, and over this some clean straw, laid crossways in layers of an inch each, then the sticks of liquorice placed upright, and packed closely in the mould with chopped straw cut rather long. When this arrangement is completed to within an inch of the brim, pour water over the liquorice, allow it to remain for 24 hours, then draw it off, and add more. The liquor, on evaporation, yields an extract perfectly soluble in water.

MILK OF HOUSELEEK. As milk of roses, substituting expressed juice of houseleek for the rose water, or a portion of it.

POLISHING POWDER. See page 322. Lord Rosse makes his rouge for polishing specula for telescopes by precipitating a dilute solution of sulphate of iron by excess of ammonia, washing the precipitate, pressing it nearly dry in a screw press, and exposing it to a heat which in the dark appears a low dull red.

PYROGALLIC ACID. Heat powdered nutgalls in a dish covered with thin filtering paper pasted to its edges, and surmounted with a bell-formed receiver, kept cool. A solution of the condensed acid, decoloured by animal charcoal, and mixed with spirit, is used to stain the hair (and skin) brown.

RUSPINI'S STYPTIC. This consists, according to Dr. THOMSON, of gallic acid, dissolved in spirit, and rose water.

STAINS, TO REMOVE. Stains of *iodine* are removed by rectified spirit. *Ink* stains by oxalic acid or super-oxalate of potash. *Iron moulds* by the same; but if obstinate, it has been recommended to moisten them with *ink*, then remove them in the usual way.

Grease Spots. See SCOURING DROPS.

Red Spots on black cloth, from acids, are removed by spirits of hartshorn, or other solutions of ammonia.

Stains of Marking Ink, or Nitrate of Silver, to remove. 1.

Apply a solution of chloride of lime, then a solution of hydrochlorate of ammonia.

2. Use a solution of corrosive sublimate with hydrochlorate of ammonia.

3. Moisten the spot with a strong solution of iodide of potassium, then with hyposulphite of soda.

4. They may also be removed by cyanide of potassium; but this should be done by the druggist, and not entrusted to any one else.

Vegetable Stains generally are removed by chloride of lime, or other bleaching compounds.

WATER DISTILLED. A convenient apparatus for distilling water over a gas flame, which requires little attention, has been invented by Mr. ABRAHAM, of Liverpool. See **PHARMACEUTICAL JOURNAL**, vol. ix. p. 170.



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AVOIRDUPOIS WEIGHT.

℔		oz.		dr.		gr.		French
Pound.		Ounces.		Drachms.		Grains.		Grammes.
1	=	16	=	256	=	7000	=	453·544
		1	=	16	=	437·50	=	28·346
				1	=	27·34	=	1·771

Other weights used are, the ton, 10 hundred weight; the hundred weight, 112 ℔; and the quarter, 28 ℔.

Table for converting Troy into Avoirdupois Weights.

(From Dr. Duncan’s “Edinburgh Dispensatory.”)

Troy ounces.		Avoirdupois ounces.	grains.	Troy ounces.		Avoirdupois ounces.	grains.
1	=	1	42½	7	=	7	297½
2	=	2	85	8	=	8	340
3	=	3	127½	9	=	9	382½
4	=	4	170	10	=	10	425
5	=	5	212½	11	=	12	30
6	=	6	255	12	=	13	72½

175 Troy ounces are equal to 192 Avoirdupois.

Troy ℔		Avoirdupois ℔	oz.	gr.	Troy ℔		Avoirdupois ℔	oz.	gr.
1	=	0	13	72½	18	=	14	12	430
2	=	1	10	145	19	=	15	10	65
3	=	2	7	217½	20	=	16	7	137½
4	=	3	4	290	30	=	24	10	425
5	=	4	1	362½	40	=	32	14	275
6	=	4	14	435	50	=	41	2	125
7	=	5	12	70	60	=	49	5	412½
8	=	6	9	142½	70	=	57	9	262½
9	=	7	6	215	80	=	65	13	112½
10	=	8	3	287½	90	=	74	0	400
11	=	8	0	360	100	=	82	4	250
12	=	9	13	432½	175	=	144	0	0
13	=	10	11	67½	200	=	164	9	62½
14	=	11	8	140	300	=	246	13	312½
15	=	12	5	212½	400	=	293	2	125
16	=	13	2	285	500	=	411	6	375
17	=	13	15	359½	1000	=	822	13	312½

A more copious table will be found in Professor Redwood’s improved edition of “Gray’s Supplement.”

The following are the divisions of the *old wine gallon*, adopted in the editions of the London Pharmacopœia previous to 1836; and in the last edition of the Dublin, and United States Pharmacopœias. Its use is no longer legal: to sell by it is simply giving short measure.

FORMER APOTHECARIES' MEASURE.

C.	O.	f℥	f℥	f℥j.	Minims.
1	= 8	= 128	= 1024	= 3072	= 61440
	1	= 16	= 128	= 384	= 7680
		1	= 8	= 24	= 480
			1	= 3	= 60
				1	= 20

Comparison between the Old and New Measures.

Grains of distilled Water.			Cubic Inches.	
	OLD.	NEW.	OLD.	NEW.
Gallon .	58317·8	70000	231	277·274
Pint .	7289·7	8750	28·875	34·659
f℥j .	455·6	437·5	1·804	1·733
f℥j .	56·9	54·7	·225	·216

[In the Dub. Ph. 1807, the weight of a gallon (old measure) of water is stated to be 58443 grains; in that of 1826, 58327·5 grains. U. S. estimates it at 58328·8 grains.]

The old gallon is very nearly $\frac{5}{6}$ ths of the new: the new $\frac{6}{5}$ ths of the old. 115500 imperial gallons are exactly equal to 138637 old. The exact factor for converting the old measure into new is ·83311; and for converting new into old 1·20032.

Relative value of [the former] Apothecaries' Measure, and the present Imperial Measure.

(From the "American Dispensatory.")

OLD.					NEW.				
	O.	f℥	f℥	℥.		C.	O.	f℥	℥.
Cong. =	6	13	2	23	Cong. =	1	1	9	8
O. =		16	5	18	O. =		1	3	38
f℥ =		1	0	20	f℥ =			7	41
f℥ =			1	2½	f℥ =				58

To find the weight of any given measure of a liquid, multiply the weight of water it will contain by the specific gravity, water being 1.000. The weight of a gallon of any liquid, in avoird. lbs and decimal parts, is at once seen from its density, merely removing the decimal point one place to the right. Thus a gallon of ether at .750 weighs 7.50 ($7\frac{1}{2}$) lbs. The weight of a pint of any liquid, in avoirdupois ounces and decimal parts, is likewise at once seen by doubling the specific gravity, and removing the decimal point as before. Thus a pint of ether at .750, weighs $.750 \times 2 = 1.500$, which becomes 15.00, or 15 ounces.

The following memorandum may be useful:—

1000 minims of water weigh . $911\frac{1}{2}$ grains nearly.

$1097\frac{1}{7}$ “ “ . 1000 grains.

A cubic inch of water weighs 252.458 grains.

1000 grains of water = 3.961 cubic inches.

A cubic foot of water at 62, weighs 997.136969 oz. avoirdupois.



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WEIGHTS AND MEASURES OF OTHER COUNTRIES.

In the United States of America the weights are the same as in this country ; but they have not adopted our imperial measure, and retain the old wine gallon and its divisions in the Pharmacopœia.

The unit of the British India ponderary system is the tola, equal to 180 Troy grains. 32 tolas are equal to 1 lbj Troy. The maund is equal to 100 Troy ounces.

In France the metrical or decimal system is now the only legal one. The following table shows the correspondence of the French metrical weights with English grains:—

	Troy Grains.		Troy Grains.
Milligramme	= .0154	Decagramme	= 154.34
Centigramme	= .1543	Hectogramme	= 1543.40
Decigramme	= 1.5435	Kilogramme	= 15434.00
Gramme	= 15.4340	Myriagramme	= 154340.00

The measures of capacity in France are multiples and divisions of the LITRE, which is the measure occupied by a kilogramme (15434 Troy grains) of distilled water at its greatest density. It exceeds the old Paris *pinte* by $\frac{1}{4}$ th, and is equal to 35 fluid ounces and 143 minims, or 1.7608 imperial pints, or 61.028 English cubic inches. 4½ litres make an imperial gallon, within f3 x.

The following table will show the relations between the litre and the imperial gallon:—

Litres.	Cubic Inches.	Galls.	Pts.	Fl.3	Fl.3	Min.
$\frac{1}{1000}$ = Millilitre	.061028					16.9
$\frac{1}{100}$ = Centilitre	.61028				2	49
$\frac{1}{10}$ = Decilitre	6.1028			3	4	13
1 = Litre	61.028		1	15	2	13.3
10 = Decalitre	610.28	2	1	12	6	13
100 = Hectolitre	6102.8	22	0	7	6	10
1000 = Kilolitre	61028.	220	3	17	5	40
10000 = Myrialitre	610280.	2204	6	17	0	40

French Measures of Length.

The standard unit is the *metre*, equal to 39.371 English inches, or 1 yard, 3 inches, and $\frac{37}{100}$ ths. The *kilometre* (1000 metres) is 4 furlongs, 213 yards, 1 foot, 11 inches.

The following are some of the weights and measures formerly used in France.

The old French pound, *livre poids de marc*, was equal to 489.5 grammes, or 7561 troy grains ; but the metrical pound, *livre metrique*, substituted for it in 1812, contained exactly 500 grammes, or 7717 English grains. Both are now abolished. The following are their divisions:—

Livre.	Once.	Gros.	Scruple.	Grs.		Poids de Marc.	Metrique.
1	16	128	384	9261	=	grammes 489.5	500
	1	8	24	576	=	" 30.6	31.25
		1	3	72	=	" 3.824	3.90
			1	24	=	" 1.274	1.30
				1	=	" .053	.054

In the Paris Codex and medical works, the grain is represented by 0.05 grammes (5 centigrammes), 2 grains by 0.1 (1 decigramme); the half drachm by 2 grammes; the drachm by 4 grammes; and the ounce by 32 grammes.

The old French measures used in pharmacy were

Other Commercial Measures.

	Litres.		Litres.
La Pinte	= 0.931	8 Pintes (un velte)	= 7.450
La Chopine	= 0.466	13.97 (ancien boisseau)	= 13.010
Le demi-Sotier	= 0.233	288 = 1 muid	= 268.220
Le Poisson	= 0.116	576 = 1 tonneau d'Or-	} = 536.440
Le demi-Posson	= 0.058	léans, ou 2 muids	

(From GUIBOUT'S "*Pharmacopée Raisonnée*.")

The Litre, with its divisions and multiples, is the measure now used. It contains 1000 grammes of water; the number of grammes of other liquids corresponds with their specific gravity; water being 1000.

The former measures of length in France were the

Toise = 1.949 metres, or 6.3945 English feet.

Foot (pied) = 0.32484 metres = 12.785 Eng. inches.

Inch (pouce) = 0.02707 metres, or 1.0654 Eng. inches.

Line (ligne) or $\frac{1}{12}$ of an inch = .002256 metres.

The metre is equal to 3 ft. 11 lines old French measure, or 3 ft. 3.7 in. English.

OTHER FOREIGN WEIGHTS AND MEASURES.

1.—*Medicinal pounds of 12 ounces, in English grains.*

(From Jourdan's "*Pharmacopée Universelle*.")

The following are divided as our Apothecaries' weight.

The pound of Austria weighs 6482.42 grains; Bavaria, 5556.24; Holland, 5787.75; Lubec, 5697.09; Nuremberg (German pound), 5522.96; Poland, 5533.25; Prussia, 5113.99; Sweden, 5498.01; Venice (*sottile*), 301.2297.

The division of the following differs in the scruple being divided into 24 grains.

Bologna, 5026.32; Lucca, 5162.67; Modena, 5254.61; Parma, 5062.35; Portugal, 5312.23; Rome, 5233.25; Spain, 5325.84; Tuscany, 5240.49; Piedmont [Turin], 5123.49.

The Naples pound contains 5490.63 troy grains; the ounce is divided into 10 drachms; the scruple into 20 grains.

2.—Various Foreign Weights.

The old Paris pound was divided into 16 ounces; the scruple into 24 grains. Its weight has been given above. The pound by which drugs are weighed in Turkey is the *Tchegy*, equal to 4957 English grains, and is divided into 100 drachms, each drachm into 16 killos, and each killo into 4 grains.

The *obolo*, is half a Spanish scruple; 3 *silicua* make 1 *obolo*, and 4 grains a *silicua*.

A *loth*, in Germany, Poland, &c., is half an ounce.

The commercial pound in several countries differs from the pharmaceutical. The civil pounds of Bavaria and mark of Vienna are each about $19\frac{3}{4}$ avoirdupois ounces. That of Holland is the French kilogramme, or 12 grains more than 2 lb $3\frac{1}{4}$ oz. avoirdupois. The mark is half a kilogramme. The Coburg commercial pound is nearly 18 oz. avoirdupois.

3.—Foreign Measures.

The Austrian *masz* or *kanne* is equal to 1.415015 litres, or $2\frac{1}{2}$ imperial pints, within 40 minims.

The *kanna* of Sweden = to nearly 2.62 litres, or about 4 pints, 12 ounces imperial.

Russian pound of water = 25.019 English cubic inches.

The *pott* (half *kanne*) of Denmark = 0.9653 litres.

The *arroba* of Spain = 16.073 litres.

The *almude* of Portugal = 16.451 litres.

The Prussian quart = 1.145 litres; or 1 qt., 3 fl. dr. imp.

The *barile* of Naples = 43.6216 litres; of Rome, 58.3416 litres of Tuscany, 45.584 litres.

The *wedro* of Russia (10 *stof* or 30 Russian pounds) = 12.29 litres, or 21 pints, 12 oz., $12\frac{1}{2}$ dr. imperial.

The *mass* of Wurtemberg = 1.837 litres, or about 3 pints, $4\frac{3}{4}$ ounces imperial.

Comparison of Thermometric Scales.

To convert the degrees of centigrade into those of Fahrenheit, multiply by 9, divide by 5, and add 32.

To convert degrees of centigrade into those of Reaumur, multiply by 4 and divide by 5.

To convert degrees of Fahrenheit into those of centigrade, deduct 32, multiply by 5, and divide by 9.

To convert degrees of Fahrenheit into those of Reaumur, deduct 32, divide by 9, and multiply by 4.

To convert degrees of Reaumur into those of centigrade, multiply by 5 and divide by 4.

To convert degrees of Reaumur into those of Fahrenheit, multiply by 9, divide by 4, and add 32.

In De Lisle's thermometer, used in Russia, the graduation begins at boiling point, which is marked *Zero*, and the freezing point is 150° .



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TABLE OF CHEMICAL ELEMENTS, ETC.—*Continued.*

ELEMENTS.	SYMBOL.	HYDROGEN 1.		OXYGEN 100.
		Brande.	Turner.	Berzelius.
Selenium	Se.	40	39·6	494·58
Silicium	Si.	8	22·5	277·31
Silver [Argentum]	Ag.	108	108·	1351·61
Sodium [Natrium]	Na.	24	23·3	290·90
Strontium	Sr.	44	43·8	547·29
Sulphur	S.	16	16·1	201·17
Tellurium	Te.	32	64·2	801·76
Thorium	Th.	60	59·6	744·90
Tin [Stannum]	Sn.	58	57·9	735·29
Titanium	Ti.	24	24·3	303·66
Tungsten [Wolfram] . . .	W.	100	99·7	1183·00
Vanadium	V.	68	68·5	856·89
Uranium	U.	61	217·	2711·36
Yttrium	Y.	32	32·2	402·51
Zinc	Zn.	32	32·3	403·23
Zirconium	Zr.	22	33·7	420·20

REMARKS.—The first column of figures shows the equivalent numbers adopted by Prout, Brande, Dumas, Phillips, and other chemists who regard all equivalent numbers as simple multiples of that of Hydrogen, which they adopt as unity.

In the second column are those of Turner and others, who adopt Hydrogen as unity, but do not consider that the other equivalents are exact multiples of it.

In the third column are the numbers of Berzelius, Graham, &c., who adopt Oxygen as unity, or rather as 100.

Besides the differences arising from these causes, chemists differ as to the composition of some of the compounds from which the equivalents are determined. For example, whether alumina consists of 1 atom of aluminum and 1 of oxygen; or 2 of aluminum and 3 of oxygen.

The following are some additional variations:—

Alumina.	<i>Phillips,</i>	10·	Phosphorus.	<i>Graham,</i>	31·44
Antimony.	<i>Graham,</i>	129·24	“	<i>Pelouze,</i>	400·30
Arsenic.	<i>Graham,</i>	75·34	Potassium.	<i>Pelouze,</i>	932·50
“	<i>Pelouze,</i>	937·50	Silicon.	<i>Graham,</i>	22·22
Barium.	<i>Pelouze,</i>	858·03	“	<i>Pelouze,</i>	88·94
Lithium.	<i>Graham,</i>	6·44	Sodium.	<i>Pelouze,</i>	287·17
Mercury,	<i>Graham,</i>	101·43	Tungsten.	<i>Graham,</i>	94·80

COMPOSITION, EQUIVALENT NUMBER, AND SYMBOLS OF SOME OF
THE MORE IMPORTANT COMPOUNDS EMPLOYED IN PHARMACY
AND THE ARTS.

[The numbers here adopted for the elements are those of the first column
of the preceding table.]

	Symbols.	Equiv.
Acetone	$C_3 H_3 O$	29
Acid, Acetic	$C_4 O_3 H_3$, <i>or</i> , \overline{A}	51
— Acetic, glacial	\overline{A} , HO	60
— Arsenic	$As O_{2\frac{1}{2}}$	58
— Benzoic	$C_{14} H_5 O_3$	113
— Boracic	$Bo O_6$	68
— Carbonic	$C O_2$, <i>or</i> , \ddot{C}	22
— Citric (dry)	$C_4 O_4 H_2$ <i>or</i> \overline{Ci}	58
— Cryst. (commercial)	\overline{Ci} , $1\frac{1}{3}HO$	70
— Hydrochloric	$H Cl$	37
— Hydrocyanic	$C_2 N H$	27
— Hydrosulphuric	$S H$	17
— Nitric (dry)	$N O_5$	54
— Nitric, sp. gr. 1.5	NO_5, HO	63
— Oxalic (dry)	$C_2 O_3$, <i>or</i> , \overline{O}	36
— Oxalic, cryst.	$C_2 O_3 3 HO$	63
— Phosphoric	$PO_{2\frac{1}{2}}$	36
	(<i>or</i> , $P_2 O_5$	72)
— Sulphuric	SO_3	40
— Sulphuric liquid	$SO_3 HO$	49
— Tartaric	$C_4 O_5 H_2$, <i>or</i> , \overline{T}	66
— Tartaric, cryst.	\overline{T} , HO	75
— Chromic	$Cr O_3$	52
Alcohol	$C_2 H_3 O$	23
	(<i>or</i> , $C_4 H_5 O, HO$	46)
Alumina	$Al O_3$	51
Alum, cryst.	$\left\{ Al O_3, 3 (SO_3) KO, SO_3 \right\}$ $\left\{ +24 HO \right\}$	475
Ammonium	NH_4	18
Amidogen	NH_2	16
Ammonia	NH_3	17
— Hydrochlorate	$NH_3, H Cl$	54

	Symbols.	Equiv.
Ammonia, Sulphate, cr.	$\text{NH}_3, \text{SO}_3, 2 \text{HO}$	75
— Sesquicarb	$\text{NH}_3, 1\frac{1}{2} \text{CO}_2, \text{HO}$	59
Antimony sesquioxide	$\text{Sb O}_{1\frac{1}{2}}$	77
	(or, $2 \text{Sb}, \text{O}_3$	154)
— Potassio-tartrate	$\text{KO}, \overline{\text{T}}, 2 \text{Sb O}_{1\frac{1}{2}}, \overline{\text{T}}, 3 \text{HO}$	361
Baryta	Ba O	77
— Carbonate	$\text{Ba O}, \text{CO}_2$	99
— Sulphate	$\text{Ba O}, \text{SO}_3$	117
Barium, chloride	Ba Cl	105
Bismuth, oxide	Bi O	80
— trisnitrate	$3 \text{Bi O}, \text{NO}_5$	294
Borax	$\text{Na BO}_6, 10 \text{HO}$	190
Calcium, chloride	Ca Cl	56
— chloride, crys.	$\text{Ca Cl}, 6 \text{HO}$	110
— Oxide (Lime)	Ca O	28
Chloroform	$\text{C}_2 \text{H Cl}_3$	121
Copper, oxide	Cu O	40
— Dioxide	$\text{Cu}_2 \text{O}$	72
— Sulphate	$\text{Cu O}, \text{SO}_3$	80
— Sulphate, cryst.	$\text{Cu O}, \text{SO}_3, 5 \text{HO}$	125
— Nitrate	$\text{Cu O}, \text{NO}_5$	94
— Nitrate, cr.	$\text{Cu O}, \text{NO}_5, 3 \text{HO}$	121
— Acetate, cr.	$\text{Cu O}, \overline{\text{A}}, \text{HO}$	100
Cyanogen	$\text{C}_2 \text{N}, (\text{or Cy})$	26
Ether	$\text{C}_4 \text{H}_5 \text{O}$	37
Ethule	$\text{C}_4 \text{H}_5$	29
Glycerine	$\text{C}_3 \text{H}_3 \text{O}_2$	37
Gum	$\text{C}_{13} \text{H}_{12} \text{O}_{12}$	186
Iron, protoxide	Fe O	36
— Black oxide	$\text{Fe}_3 \text{O}_4$	116
— Sesquioxide	$\text{Fe O}_{1\frac{1}{2}}$	40
— Chloride	Fe Cl	64
— Sesquichloride	$\text{Fe Cl}_{1\frac{1}{2}}$	82
— Iodide (dry)	Fe I	154
— Sulphate	$\text{Fe O}, \text{SO}_3$	76
— Sulphate, crys.	$\text{Fe O}, \text{SO}_3, 7 \text{HO}$	139
— Potassio-tartrate	$\overline{\text{T}} \text{KO}, \text{Fe O}_{1\frac{1}{2}}, \overline{\text{T}}$	220
Lead, Acetate, cr.	$\text{Pb O}, \overline{\text{A}}, 3 \text{HO}$	190
— Diacetate	$2 (\text{Pb O}) \overline{\text{A}}$	275
— Protoxide	Pb O	112
— Carbonate	$\text{Pb O}, \text{CO}_2$	134



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	Symbols.	Equiv.
Potash, Chromate	K O, Cr O_3	100
— Bichromate	K O, 2 Cr O_3	152
— Nitrate	K O, NO_5	102
— Sulphate	K O, SO_3	88
— Tartrate	$\text{K O, } \overline{\text{T}}$	114
— Bitartrate	$\text{K O, 2 } \overline{\text{T}}, \text{H O}$	189
Potassium, Bromide	K Br	118
— Chloride	K Cl	76
— Iodide	K I	166
Quina	$\text{C}_{20} \text{H}_{12} \text{O}_2 \text{N}$	162
— Disulphate, crys.	$2 (\text{C}_{20} \text{H}_{12} \text{O}_2 \text{N}), \text{SO}_3, 8 \text{H O}$	436
Silver, Oxide	Ag O	116
— Chloride	Ag Cl	144
— Iodide	Ag I	234
— Cyanide	Ag Cy	134
— Nitrate	Ag O, NO_5	170
Soda	Na O	32
— Carbonate	Na O, CO_2	54
— Carbonate, crys.	$\text{Na O, CO}_2, 10 \text{H O}$	144
— Bicarbonate	$\text{Na O, 2 CO}_2 \text{H O}$	85
— Sesquicarbonate	$\text{Na, } 1\frac{1}{2} \text{CO}_2, 2 \text{H O}$	83
— Sulphate, dry	Na O, SO_3	72
— Sulphate, crys.	$\text{Na O, SO}_3, 10 \text{H O}$	162
— Potassio-tartrate, crys.	$\text{Na O, K O, 2 } \overline{\text{T}}, 10 \text{H O}$	302
Sodium, chloride	Na Cl	60
Sugar (anhydrous)	$\text{C}_{12} \text{H}_9 \text{O}_9$	153
Sulphuretted Hydrogen	SH	17
Water	H O	9
— Oxygenated	H O_2	17
Zinc, oxide	Zn O	40
— Carbonate	Zn O, CO_2	62
— Sulphate, cr.	$\text{Zn O, SO}_3, 7 \text{H O}$	143
— Chloride	Zn Cl	68

TABLE OF THE NEUTRALIZING PROPORTIONS OF SOME OF THE ACIDS AND ALKALINE CARBONATES, OMITTING MINUTE FRACTIONS. THE BEST COMMERCIAL PREPARATIONS ARE INTENDED.

Tartaric Acid.	Citric Acid.	Lemon Juice.	Cr. Subcarb. of Soda.	Sesqui or bicarb. of Soda, & Subcarb. of Potash.	Bicarbonate of Potash.	Carbonate of Magnesia.	Sesquicarbonate of Ammonia.	Bicarbonate of Ammonia.
Grs.	Grs.	f 3	Grs.	Grs.	Grs.	Grs.	Grs.	Grs.
10	9 $\frac{1}{4}$	2 $\frac{1}{6}$	19	11	13 $\frac{1}{2}$	6 $\frac{1}{2}$	8 $\frac{1}{4}$	10 $\frac{1}{2}$
10 $\frac{3}{4}$	10	2 $\frac{1}{3}$	20 $\frac{1}{2}$	12	14 $\frac{1}{2}$	7	8 $\frac{1}{2}$	11 $\frac{1}{2}$
13	12	2 $\frac{4}{5}$	25	14 $\frac{1}{2}$	17 $\frac{1}{2}$	8 $\frac{1}{4}$	10	13 $\frac{1}{2}$
15	14	3 $\frac{1}{4}$	29	17	20 $\frac{1}{3}$	9 $\frac{1}{2}$	12	16
15 $\frac{1}{2}$	14 $\frac{1}{2}$	3 $\frac{1}{3}$	30	17 $\frac{1}{4}$	21	10	12 $\frac{1}{4}$	16 $\frac{1}{2}$
18	17	4	34 $\frac{1}{2}$	20	24 $\frac{1}{4}$	11 $\frac{1}{2}$	14	19
20	18 $\frac{1}{2}$	4 $\frac{1}{3}$	38 $\frac{1}{2}$	22 $\frac{1}{3}$	27	12 $\frac{3}{4}$	15 $\frac{1}{2}$	21
20 $\frac{1}{2}$	19	4 $\frac{1}{2}$	40	23	27 $\frac{1}{2}$	13	16	21 $\frac{1}{2}$
26	24	5 $\frac{1}{2}$	50	29	35	16 $\frac{1}{2}$	20 $\frac{1}{4}$	27
27	25	5 $\frac{5}{8}$	52	30	36	17	21	28 $\frac{1}{2}$
32	30	7	61	36	43	20 $\frac{1}{2}$	25	33 $\frac{1}{2}$
36	33 $\frac{1}{2}$	7 $\frac{5}{6}$	69	40	48 $\frac{1}{2}$	23	28	38
47	44	10 $\frac{1}{4}$	90	52 $\frac{1}{2}$	63	30	37	49 $\frac{1}{2}$
52	48 $\frac{1}{2}$	11 $\frac{1}{3}$	100	58	70	33	41	55
62	58	13 $\frac{1}{2}$	120	69	84	40	49	65 $\frac{1}{2}$
73	68	15 $\frac{5}{6}$	140	82	98	46 $\frac{1}{2}$	57	77
75	70	16 $\frac{1}{4}$	144	84	101	48 $\frac{1}{2}$	59	79
90	84	19 $\frac{1}{2}$	172	101	121	57 $\frac{1}{2}$	71	94 $\frac{1}{2}$
92	86	20	177	103	124	59	72	97
100	93	21 $\frac{2}{3}$	192	112	134	64	78	105 $\frac{1}{2}$
108	100	23 $\frac{1}{3}$	206	120	145	69	84	113
180	168	39 $\frac{1}{5}$	344	202	242	115	141	190

We have estimated the equivalent of subcarbonate of potash (Potassæ Carbonas of the Pharmacopœia), and of sesquicarbonate of soda, at 84 each. Mr. PHILLIPS makes the former 83·5; but ·5 may be allowed for impurity and extra moisture: the sesquicarbonate of soda he makes 83, but the composition of the best commercial specimens approaches nearer to the bicarbonate, which is 85.

TABLE OF THE RELATION BETWEEN THE PRINCIPAL AREOMETERS
FOR LIQUIDS LIGHTER THAN WATER.

[The first five columns are from SOUBEIRAN, the last from Dr. CHRISTISON and Mr. REDWOOD. The degrees of GAY-LUSSAC's alcohometer indicate the percentage by measure of pure alcohol; but are not quite exact as here given, the fractions being neglected.]

Baumé.	Cartier.	Pharm. Batava.	Specific Gravity.	Gay- Lussac.	Sykes.
					Under proof.
10	10.	0	1000	0	100
11	10.92	1	993	5	93.5
12	11.84	2	987	10	83.5
13	12.76	3	979	17	73.5
14	13.67	4	973	23	62
15	14.59	5	966	29	51
16	15.51	6	960	34	42
17	16.43	7	953	39	32
18	17.35	8	947	43	25
19	18.26	9	941	47	20
20	19.18	10	935	50	14
21	20.10	11	929	53	8
22	21.02	12	923	56	3
23	21.94	13	917	59	1
					Over proof.
24	22.85	14	911	61	7
25	23.77	15	905	64	12
26	24.69	16	900	66	15
27	25.61	17	894	69	20
28	26.53	18	888	71	25
29	27.44	19	883	73	28
30	28.38	20	878	75	32
31	29.29	21	872	77	38
32	30.31	22	867	79	41
33	31.13	23	862	81	44
34	32.04	24	857	83	45
35	32.96	25	852	84	48
36	33.88	26	847	86	51
37	34.80	27	842	88	54
38	35.72	28	837	89	56
39	36.63	29	832	91	59
40	37.65	30	827	92	61.5
41	38.46	31	823	93	
42	39.40	32	818	94	
43	40.31	33	813	96	
44	41.22	34	809	97	
45	42.14	35	804	98	
46	43.06	36	800	99	
47	43.19	37	795	100	
48	44.90	38	791		



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