

LEATH & ROSS'S HOMŒOPATHIC PHARMACIES

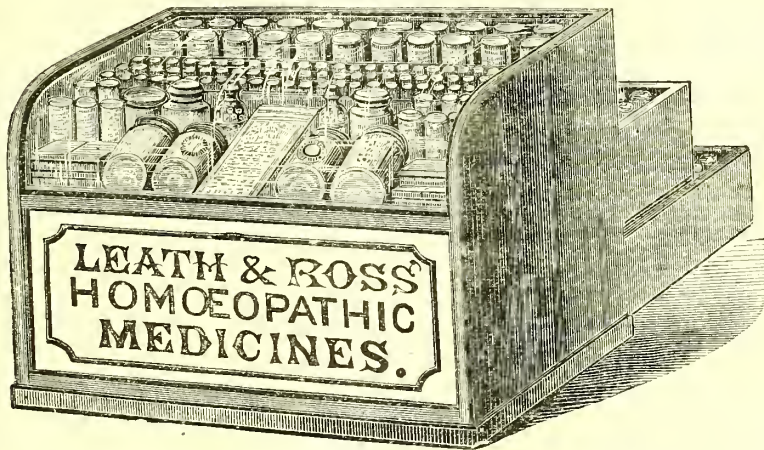
9 VERE STREET, W.,

And 5 ST. PAUL'S CHURCHYARD, E.C., LONDON.

OUR £10 10s. AGENTS' SHOW CASE.

Contents realise £17 17s. 8d.

DIMENSIONS.—Length, 18 in.;
Breadth, 13 in.; Height, 13 in.



DESCRIPTION.—A Handsome Bent Glass Case, with three drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in the other two in alphabetical order.

WHOLESALE PRICE LIST OF MEDICINES PUT UP READY FOR SALE.

GLOBULES or PILULES—

Sixpenny Tubes	... ..	2/9 per dozen.
Ninepenny „	... ..	4/3 „
Shilling „	... ..	5/- „

TINCTURES or TRITURATIONS—

Sixpenny Bottles	... ..	2/9 per dozen.
Ninepenny „	... ..	4/3 „
Shilling „	... ..	5/- „

PROPRIETARY ARTICLES.

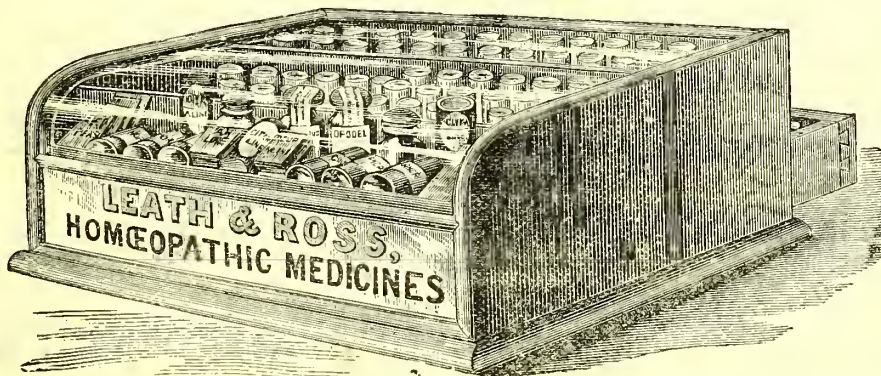
Neuraline	... ..	1/1½	Berberine	... ..	1/1½	Linimentum Auricularis	... ..	1/1½
Glykaline	... ..	1/1½	Chilblain Liniment	... ..	1/1½	Bryonia Liniment	... ..	1/1½
Phospho-muriate of Quinine	1/1½		Odontagie Essence	... ..	1/1½	Corn Eradicator	... ..	1/1½

All the above Proprietary Articles, 9/6 per dozen.

OUR £6 6s. AGENTS' SHOW CASE.

Contents realise £10 18s. 3d.

DIMENSIONS.—Length, 20 in.;
Breadth, 15½ in.; Height, 9½ in.



DESCRIPTION.—A Handsome Bent Glass Case, with two drawers, the contents of top drawer visible, the Pilules and Tinctures arranged in alphabetical order.

Telephone No. 7525.

Prize Medals,
CALCUTTA & VIENNA,
1884. 1883.
LONDON 1881.

Cable Address—IODINE, LONDON.**FLETCHER, FLETCHER & STEVENSON,**

NORTH LONDON CHEMICAL WORKS,

**HOLLOWAY, LONDON, N.**

MAKERS OF

CITRATE OF IRON AND QUININE

FLUID EXTRACTS

(EVAPORATED IN VACUO).

Pepsine Pure P.B. Pepsine Porci.

LIQUID AMMONIA .880 AND CARBONATE.

RESUBLIMED IODINE.

QUININE, STRYCHNINE, AND OTHER ALKALOIDS,

ACID CARBOLIC PURE, P.B.,

BEECHWOOD CREASOTE

(INSOLUBLE IN PRICE'S GLYCERINE),

CONCENTRATED FRUIT ESSENCES.

TINCTURES AND SPIRITS SHIPPED IN BOND.

Sulphuric, Nitric, Phosphoric, AND EVERY OTHER
PURE ACID.



FLETCHERS' Permanent!
CONCENTRATED
UNIFORM!
ECONOMICAL! **LIQUORS.**

Any Quantity of a required Syrup at a moment's notice.

In Daily Use in Pharmacies and Dispensaries throughout the World.

May be obtained through any Wholesale Drug or Patent Medicine House.

When Ordering, please Specify "FLETCHERS."

LIQUOR
Ferri Iodidi.

EACH fluid drachm contains 34.4 grains of Iodide of Iron.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Iodidi of full Pharmacopœia strength.

**Liquor Ferri et Quiniæ
et Strychniæ Phosph.**

EACH fluid drachm contains 4 grains of Phosphate of Iron, 4 grains of Phosphate of Quinia, and $\frac{1}{8}$ grain of Strychnia.

ONE volume added to three volumes of *Syrupus*, *B.P.*, forms Easton's Syrup.

LIQUOR
Calcis Lactophosph.

EACH fluid drachm contains 8 grains of anhydrous Calcium Phosphate combined with Lactic Acid.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Calcis Lactophosph.

LIQUOR
Ferri Phosph.

EACH fluid drachm contains 8 grains of Ferrous Phosphate.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Phosph.

LIQUOR
Ferri Phosph. Comp.

EACH fluid drachm contains, in addition to the alkaline Phosphates, 4 grains of Phosphate of Iron, and 8 grains of Phosphate of Calcium, dissolved in pure Phosphoric Acid.

ONE volume added to three volumes of *Syrupus*, *B.P.*, forms "Chemical Food."

LIQUOR
Ferri Hypophosph.

EACH fluid drachm contains 8 grains of Hypophosphite of Iron.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Hypophosph.

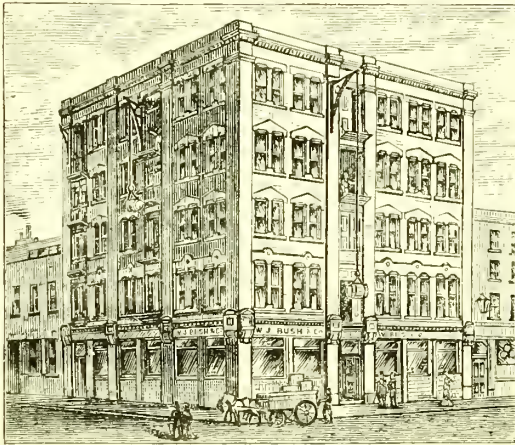
Fletcher, Fletcher, & Stevenson,
North London Chemical Works, Holloway, London, N.

W. J. BUSH & CO., Manufacturing Chemists, Drug Merchants,

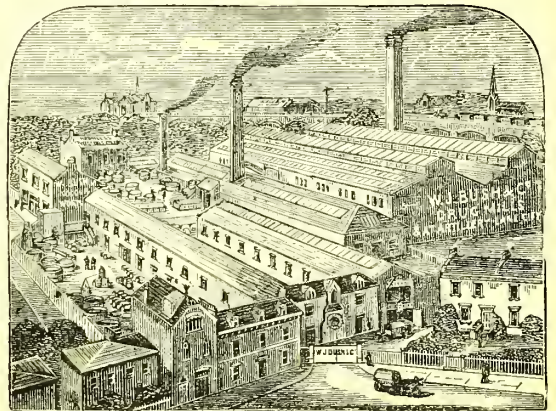
DISTILLERS AND IMPORTERS OF ESSENTIAL OILS,
FRUIT ESSENCES. INVENTORS OF SOLUBLE ESSENCES.

MAKERS OF

GRANULATED CITRATE OF MAGNESIA, ETC., ETC.



WAREHOUSES—ARTILLERY LANE, E.C.



WORKS—ASH GROVE, HACKNEY.



LONDON, 1862.



PARIS EXHIBITION, 1878.

ELEVEN GOLD MEDALS AND HIGHEST AWARD.

MEDICAL AND SANITARY EXHIBITION, 1881,
HIGHEST AWARD.

BRUSSELS EXHIBITION, 1881,
DIPLOME D'HONNEUR, HIGHEST AWARD.

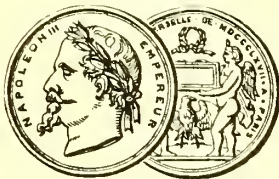
ANTWERP EXHIBITION,
HORS DE CONCOURS, JURORS.

ARTILLERY LANE, BISHOPSGATE, LONDON.

WORKS: ASH GROVE, HACKNEY.



SYDNEY, 1879.



PARIS, 1867.



VIENNA, 1873.



NEW ZEALAND, 1882.



MELBOURNE, 1880.

W. J. BUSH & CO.'S SPECIALITIES.

FRENCH CREAM GUM EXTRACT,

PROTECTED BY ROYAL LETTERS PATENT,

For producing a head of Creamy Richness upon all kinds of Syrups, Aerated Waters, Beers, Ales, Cider, Champagne, &c., 2s. 6d. per pound.

W. J. BUSH & CO. regret having to Caution the Trade against spurious imitations of this Article, most of which are mere rubbish.

W. J. BUSH & CO.'S ENGLISH DRAWN ESSENTIAL OILS.

OL. AMYGD. ESSENT. ANG.
OL. AMYGD. ESSENT. ANG. SINE
ACID PRUSSIC.
OL. ANETHI ANG.
OL. CARUI ANG.
OL. CARYOPH. ANG.
OL. CARDAMOM. ANG.
OL. CEDRI ANG.
OL. CORIANDRI ANG.
OL. CUBEBAE ANG.
OL. COPAIBAE ANG.

OL. CINNAM. VER. ANG.
OL. LAVAND. ANG.
OL. LUPULI ANG.
OL. MYRISTICÆ ANG.
OL. MENTH. PIP. MITCH.
OL. MENTH. PIP. MITCH. RECT.
OL. PIMENTÆ ANG.
OL. PATCHOULI ANG.
OL. SANTAL. FLAV. ANG.
OL. SASSAFRAS ANG.
OL. JUNIPER ANG.

OL. LIMONIS, NEW EXCEPTIONAL QUALITY. }
OL. BERGAMOT, " " }
OL. AURANT. " "

W. J. BUSH & CO.'S
SPECIALITY.

ARTILLERY LANE, BISHOPSGATE, LONDON.

WORKS: ASH GROVE, HACKNEY.

W. J. BUSH & CO.'S OIL OF SANTAL FLAVENED.

Copy of certificate received from DR. HENDERSON, of GLASGOW, concerning

W. J. BUSH & CO.'S ENGLISH DRAWN SANDAL WOOD OIL.

3 Bath Street, Glasgow, June 25th, 1886.

MESSRS. W. J. BUSH & CO.,

SIRS,—I have carefully examined and tested the Sample of **ENGLISH OIL OF YELLOW SANDAL WOOD** you sent me last month. **IT IS A PURE OIL OF A HIGH CHARACTER.**

I have tried it in numerous cases of Gonorrhœa. **IT WAS RAPIDLY SUCCESSFUL IN ALL.** In two, where it appeared not to succeed, one of the patients used too small doses. The other patient referred to stopped taking the medicine too soon, and his complaint returned.

THE OIL DISAGREED WITH NO ONE. It was made up in Emulsion, and as a concentrated Solution in Alcohol, with a little Oil of Cassia. Diet was attended to, and other aids prescribed.

I am quite satisfied from the results of my experience of your Oil of Yellow Sandal Wood that the failures in using the Medicine would be much reduced if the Oil administered were nearly **AS GOOD AS I HAVE PROVED YOURS TO BE.**

I am, Sirs, yours faithfully,
(Signed) **T. BROWN HENDERSON, M.D., F.F.P. & S., Glw.**

From "THE CHEMIST AND DRUGGIST," July 10, 1886:

MESSRS. W. J. BUSH & CO. have received a remarkable testimonial in favour of their English-Drawn Sandal Wood Oil from Dr. Brown Henderson, of Glasgow, who states that in using it in cases of gonorrhœa he has been singularly successful. The oil disagreed with no one, and it only did not succeed when the doses were too small. Dr. Henderson is a well-known authority in the North. Recently attention has been called to the very variable nature of the sandal wood oils of commerce. Apart from several substitutions, such as cedar wood oil and venezuela oil, there has been some dubiety about oils which have undoubtedly been derived from santalum species. It was this dubiety which led Messrs. Bush & Co. to institute inquiries in India regarding the actual conditions of supply. As has recently been pointed out in this journal there are many varieties of sandal wood which reach our markets, most of them being taken as oil-producing woods, and frequently used as such. By an arrangement which they have come to, Messrs. Bush & Co. receive periodically supplies of wood from one plantation, whose area is not so extensive as to permit any marked difference in climatic and other influences which tend to induce differences in plant products. The oil which they produce is of a very uniform character. It has a specific gravity of 0.976, at 16.5° C., is soluble in less than its own volume of rectified spirit, and responds to the recognised tests for true sandal oil. It has a pale golden colour, is free from fluorescence, and possesses a very delicate aroma. The fact that Dr. T. B. Henderson, of Glasgow, who first called attention to this remedy, speaks highly of this oil, is the best proof of its therapeutic activity.

NO OTHER SHOULD BE USED IN MEDICINE.

**ARTILLERY LANE, BISHOPSGATE, E.C.
WORKS: ASH GROVE, HACKNEY.**

**W. J. BUSH & CO.'S
SOLUBLE ESSENCES.**

Much Stronger and Infinitely Superior in Flavour to all Imitations,
consequently cheaper in use.

**W. J. BUSH & CO.'S
CONCENTRATED FRUIT ESSENCES.**

Five or Six times the Strength and vastly Superior to all others.

**W. J. BUSH & CO.'S
ENGLISH DRAWN ESSENTIAL OILS.**

Always Uniform and of Exceptionally Fine Quality.

THE ONLY MAKERS OF EVERY KIND OF ENGLISH DRAWN ESSENTIAL OILS.

**W. J. BUSH & CO.'S
FRENCH CREAM GUM EXTRACT.**

**W. J. BUSH & CO.'S
HARMLESS VEGETABLE
COLOURS and CARMINES.**

ARTILLERY LANE, BISHOPSGATE, E.C.

WORKS: ASH GROVE, HACKNEY.

IMPORTANT TO VISITORS FROM INDIA AND THE COLONIES.

We have just issued a **COMPLETE CATALOGUE OF DRUGGISTS' SUNDRIES**, containing many Saleable Novelties. **1,000 Illustrations.** We will Mail it to any part of the World on receipt of Business Card.

SPECIALITIES.

Adhesive Plaster, in 6d. Tins.	Cold Cream, Pots (flat series).	Glycerine Soap.	Pill Coaters.
Areca-nut Tooth Paste.	Corn Rubbers.	Gutta-Percha Tooth Stopping.	Plasters (Porous, &c.)
Beetle Powder.	Ear Syringes.	Higginson's Enemas,	Prometheans.
Benzine (Perfumed).	Electro Magnetic Apparatus.	Hair Wash Powder.	Respirators.
Cachou Lozenges.	Feeding Bottles, "The Pet" (in 22 patterns).	Inhalers.	Smelling Bottles.
Carded Goods (a large variety).	Floating Lights (Tin).	Insect Powder.	Sponges (Carded).
Cement (Chinese and Holdfast).	Fly Paper.	Japanese Curl Papers.	Spray Producers.
Cherry Tooth Paste.	Fuller's Earth Powder.	„ Medicated Paper.	Teething Pads.
Chest Protectors.	Glycerine Jelly.	Mustard Leaves.	Thermometers.
		Nursery Lamps.	Vagina Syringes.
		Parchment Paper.	Violet Powders.
			Wafer Paper.

BOURNE, JOHNSON & LATIMER,

WHOLESALE AND EXPORT DRUGGISTS' SUNDRIESMEN,

34 & 35 FURNIVAL STREET, LONDON, E.C.

HOLMAN LIVER PAD CO.'S REMEDIES.



(Trade Mark.)

	PRICE LIST.	Retail	Per doz.
Holman's Liver and Stomach Pad (regular size)	10/	10/	90/
Holman's Liver and Stomach Pad (special size)	15/	15/	135/
Holman's Infant Pad (for children's diseases)	7/6	7/6	67/6
Holman's Splenic Pad (for inveterate cases)	35/	35/	315/
Holman's Kidney Pad (for the kidneys & bladder)	10/	10/	90/
Holman's Pectoral Pad (for lung diseases)	15/	15/	135/
Holman's Abdominal Pad (for female complaints)	42/	42/	378/
Holman's Absorbent Body Plasters	2/6	2/6	22/6
Holman's Absorbent Foot Plasters, per pair	2/6	2/6	22/6
Absorption Salt (for medicinal baths)	1/	1/	7/6
Tablets (for constipation)	5/	5/	45/

MADE AND PREPARED ONLY BY

THE HOLMAN LIVER PAD CO.,
NEW YORK, U.S.A.

Trade supplied by JOHN W. RICHARDS, 46 Holborn Viaduct, London, E.C.

EISNER & MENDELSON,

IMPORTERS AND EXPORTERS OF
FOREIGN & DOMESTIC HERBS,
ROOTS, DRUGS,
CHEMICALS & PATENT MEDICINES

Consignments and Agencies solicited. Highest references furnished.
Sole Agents for the U.S., for Johann Hoff's Malt Extract.
" " " H. Trommsdorff's Chemicals.

818 & 320 RACE STREET, PHILADELPHIA, PA.

E. FOUGERA & CO.,

No 30 NORTH WILLIAM STREET,
NEW YORK, U.S.A.,

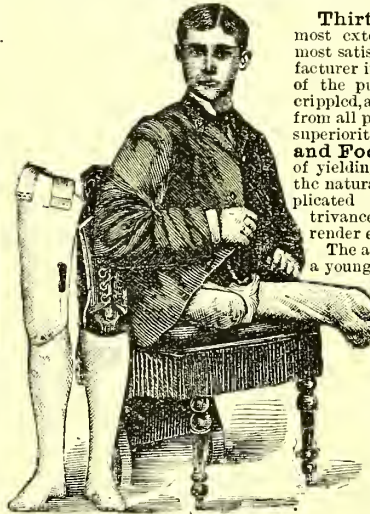
Importers of and Agents for the Principal
FOREIGN MEDICINAL PREPARATIONS
AND SPECIALTIES

AGENCIES AND CORRESPONDENCE SOLICITED.

ARTIFICIAL LIMBS

(MARKS' PATENTS),

WITH RUBBER HANDS AND FEET.



Thirty-three Years of the most extensive experience, with the most satisfactory results of any manufacturer in the world. The confidence of the public, popularity among the crippled, and flattering commendations from all parts of the world, attest the superiority of the **Rubber Hand and Foot**, which possess the quality of yielding to every essential angle of the natural, without the use of complicated hinges, joints, and contrivances, which only annoy and render expensive their daily use.

The accompanying cut represents a young man who lost both legs by a R.R. accident, one above the knee and the other 2 inches below. He is able to walk one-half mile in eight minutes without a cane or any assistance except his artificial limbs with rubber feet. He can perform a day's work without unusual fatigue, can go up and down stairs; in fact can do any of the ordinary of life without exhibiting his loss.

ARMS restore the appearance and assist greatly in the performance of labour. From our Copyrighted Formula artificial limbs are made and shipped to all parts of the world, without the presence of the patient with guaranteed success. Parties who live at a distance, or who would be inconvenienced by a journey to our place, can supply measurements on our formula and feel the assurance that they will receive our best attention. Thousands are thus treated in Canada, Mexico, Central and South America, and Europe.

Illustrated Pamphlet in English or Spanish, and Copyright Formula sent free.

U. S. GOVERNMENT MANUFACTURER.

A. A. MARKS

107 BROADWAY, NEW YORK CITY, U.S.A.

MANN'S PERFUMES.

The accompanying cut represents a facsimile of our Pound Bottle, containing 18 fluid ounces, with elongated and etched stopper for trying the odours. We have arranged our Perfumes into ranks according to popularity and demand; those having the most ready sale comprise the first rank, then, next in order, the second rank, then the third rank. This plan gives the Druggist at a glance a more comprehensive idea of our line, and also enables him to make his selection according to the general popularity of the odours. We would always advise a full line of all the perfumes kept in stock, as the second and third ranks contain many odours desired by persons of special tastes, and, while they are not generally of as ready sale as those of the first rank, yet they are always staple. The goods are all made of the same degree of strength, and are intended to be of equal desirability, yet some will take precedence in popular favour over others. We make only the finest quality of Perfumes, which are especially designed to meet the demand of the best drug trade throughout the world.



**PERFUMES
OF THE FIRST RANK
IN POINT OF POPULARITY.**

- Lady of the Lake.
- White Lilac.
- White Rose.
- Heliatrape.
- Jockey Club.
- New Mown Hay.
- Lily of the Valley.
- Prairie Flower.
- Wild Lotus.
- Queen of May.
- Myrtle Bloom.
- Ylang Ylang.
- Stephanotis.
- Violet.

**PERFUMES
OF THE SECOND RANK
IN POINT OF POPULARITY.**

- Carnation Pink.
- Mignonette.
- Ocean Spray.
- Tuberose.
- Jasmin.
- Moss Rose.
- Pond Lily.
- Frangipanni.
- Orange Blossom.
- Musk Rose.
- Trailing Arbutus.
- Honey Suckle.
- Sweet Briar.
- Sweet Pea.
- West End.
- White Heliatrape.
- Wood Violet.

**PERFUMES
OF THE THIRD RANK
IN POINT OF POPULARITY.**

- Musk.
- Patchouly.
- Rose Geranium.
- Tea Rose.
- Rondoletia.
- Night Blooming Cereus.
- Ess. Bouquet.
- Millefleurs.

PRICE LIST.

	Per doz.
$\frac{1}{3}$ oz., assorted odours...	8/
$\frac{1}{4}$ " " " ...	14/
$\frac{1}{2}$ " " " ...	20/
$\frac{3}{4}$ " " " ...	32/
1 " " " ...	42/
1 1/2 " " " ...	62/
2 " " " ...	112/
3 " " " ...	216/
4 " " " ...	Tourist 16/
Small trial size, per gross	23/
Large " " "	35/

Illustrated Catalogue furnished upon application.

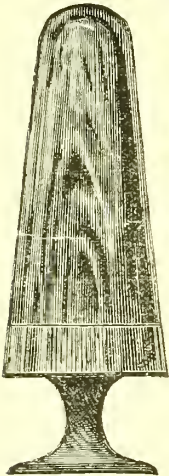
Our Perfumes combine richness of fragrance with delicacy and permanence of odour. They may be handled and retailed either from bulk or in small packages, both in cold and warm climates, without appreciable deterioration of quality. They take the lead and enjoy the preference in all countries wherever introduced.

Hoping to receive your orders, we are,

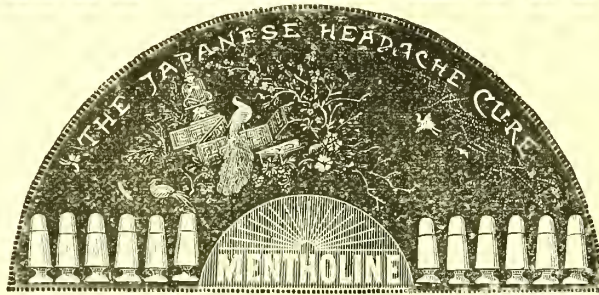
Yours very respectfully,

C. A. MANN & CO., 43 MURRAY ST., NEW YORK CITY, U.S.A.

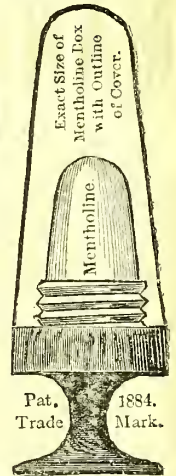
MENTHOLINE.



Medal Awarded
International Inventions
Exhibition,
London, October, 1885.



The Original
Absolutely Pure
Menthol Conc.



Pat. 1884.
Trade Mark.

THE TRUE JAPANESE HEADACHE CURE."

Guaranteed to be only the finest Japanese Menthol, entirely free from oil, Whiter, Firmer, more Crystalline than any other brand, and absolutely pure, making it more valuable for all the purposes for which ordinary Menthol is used. Its hardness and solidity specially fits it for sale and use in hot climates, and also makes it the cheapest Cone to be used in any climate, as it lasts longer than any other Cone. This curious remedy, used in Japan for ages, instantly relieves and removes Nervous Headache, Toothache, Earache, Faceache, Faintness (from over-crowded churches, theatres, &c.), Catarrh, or cold in the head, and many other nervous aches and pains; it also certainly relieves Neuralgia, Rheumatism, Sciatica, and other nervous affections; and has a tendency to produce refreshing sleep.

USED BY SIMPLY RUBBING.

Taken internally it relieves Flatulence, Nausea, Colic, and other pains, and is good in cases of Sea-sickness.

No other Remedy in the World so Valuable (costing more than Quinine), so Pure, and so very useful in so many ways, is sold for 1s. per box.

SOME DRUGGISTS HAVE SOLD ONE THOUSAND BOXES. [1]

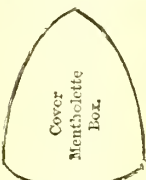
Price per dozen, 6s. 6d., subject to usual Discount.

DUNDAS, DICK & CO., Manufacturers, NEW YORK.

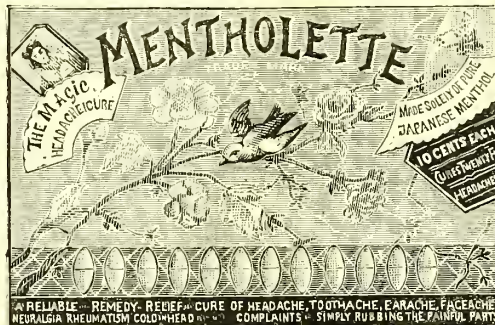
For Sale by FRANCIS NEWBERRY & SONS, 1 King Edward Street, Newgate Street, LONDON, E.C.

MENTHOLETTE

IS ABSOLUTELY PURE JAPANESE MENTHOL ONLY.



ONCE
BOUGHT
ALWAYS
BOUGHT.



SELLS
AT
SIGHT.



AND HAS BEEN CALLED THE
JAPANESE MAGIC HEADACHE CURE; THE POCKET DOCTOR; THE LITTLE WONDER.

Guaranteed to be only the finest Japanese Menthol, entirely free from oil, Whiter, Firmer, more Crystalline than any other brand, and absolutely pure, making it more valuable for all the purposes for which ordinary Menthol is used. Its hardness and solidity specially fits it for sale and use in hot climates; and also makes it the cheapest Cone to be used in any climate, as it lasts longer than any other Cone. This curious remedy, used in Japan for ages, instantly relieves and removes Nervous Headache, Toothache, Earache, Faceache, Faintness (from over-crowded churches, theatres, &c.), Catarrh, or cold in the head, and many other nervous aches and pains; it also certainly relieves Neuralgia, Rheumatism, Sciatica, and other nervous affections; and has a tendency to produce refreshing sleep.

USED BY SIMPLY RUBBING.

Taken internally it relieves Flatulence, Nausea, Colic, and other pains; and is good in cases of Sea-sickness. No other Remedy in the World so Valuable (costing more than Quinine), so Pure, and so very useful in so many ways, is sold for 6d. per box.

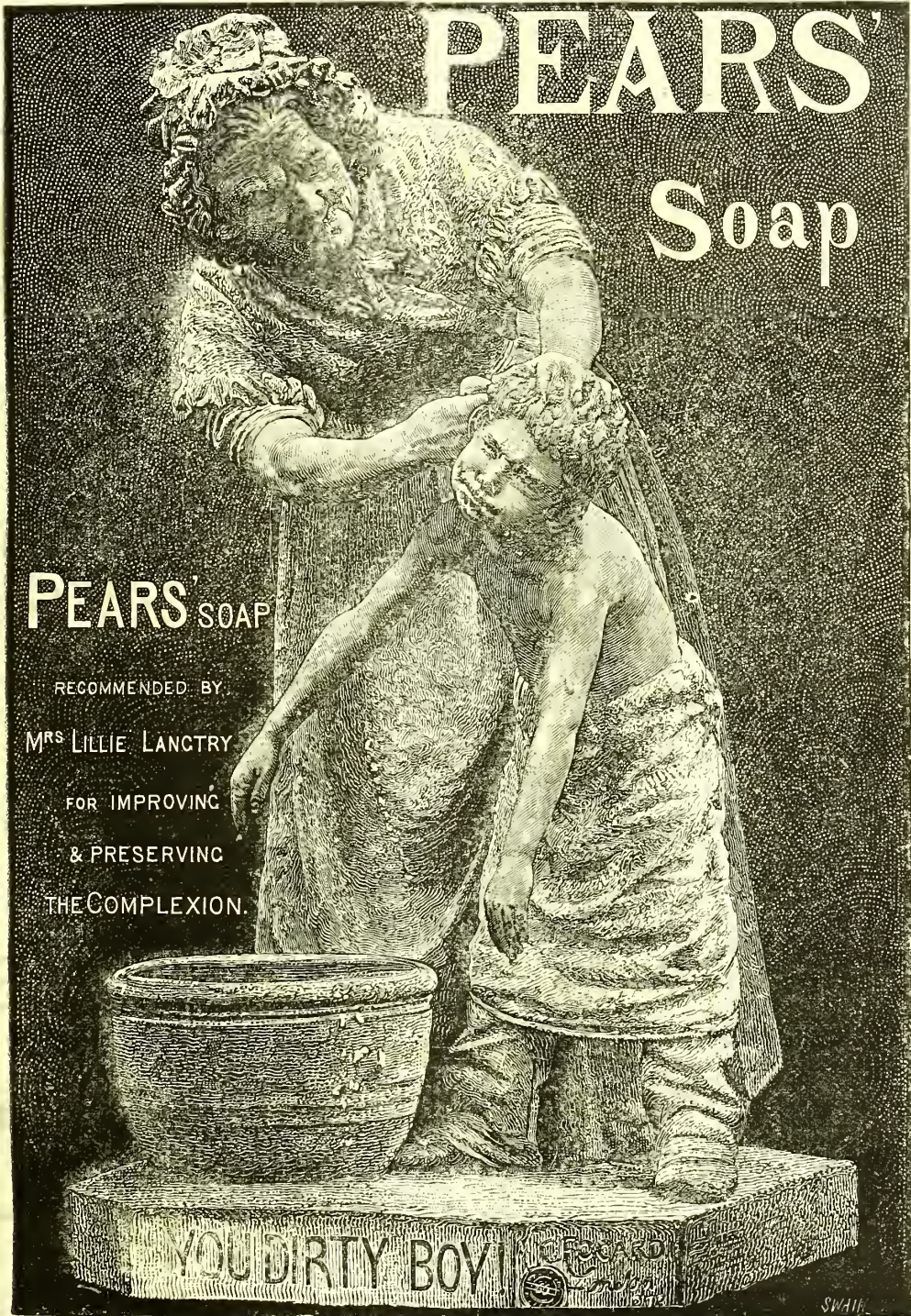
THE GREATEST NOVELTY OF THE AGE—SELLS AT SIGHT. [2]

Price per dozen, 3s., subject to usual Discount.

DUNDAS, DICK & CO., Manufacturers, NEW YORK.

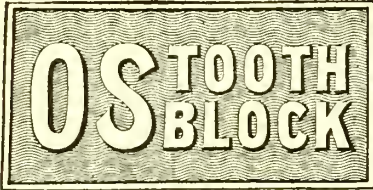
For Sale by FRANCIS NEWBERRY & SONS, 1 King Edward Street, Newgate Street, LONDON, E.C.

PRICE LISTS ON APPLICATION.



A. & F. PEARS, 38 Great Russell St., W.C.

THE BEST & SAFEST DENTIFRICE. **OSCAR SUTTON & CO., Preston, Lancashire.**



REGISTERED TRADE MARK.

The following Testimonial from Mr. JAMES A. REID, Chemist and Druggist, Helensburgh, we quote by special permission: "Enclosed please find cheque in payment for the Tooth Blocks. I am highly pleased with their new form and extra inducements presented through the leatherette labels and chemist's own name stamped on each block. These give one special encouragement to keep prominently before an intelligent public what UNDOUBTEDLY IS THE GREATEST DENTIFRICE OF THE AGE."

No. 0.
Loose, without Boxes.

No. 1.
*In Patent Metallic Boxes,
retail 1s.*

No. 2.
*In Crystal Caskets,
retail 2s. 6d.*

OVER 1,000 TESTIMONIALS.

CAUTION.

**A. S. LLOYD'S EUXESIS,
FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.**

The GENUINE Euxesis bears the following distinctive marks:—

- 1.—The Name **AIMEE LLOYD** on cap of tube.
- 2.—The words "Prepared only by his Widow" in **RED INK** across labels.

Manufactured only by AIMEE LLOYD,

WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET,

3 SPUR STREET, LEICESTER SQUARE, LONDON.

A. S. LLOYD'S EUXESIS,

For Shaving without Soap, Brush, or Water.

CAUTION.

The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original address of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, under an administration suit, the Secret, Trade Mark, Goodwill, and Premises:

SOLE PROPRIETORS,

**R. HOVENDEN & SONS,
LONDON.**

WHITE AND SOUND TEETH.

JEWSBURY & BROWN'S

ORIENTAL TOOTH PASTE

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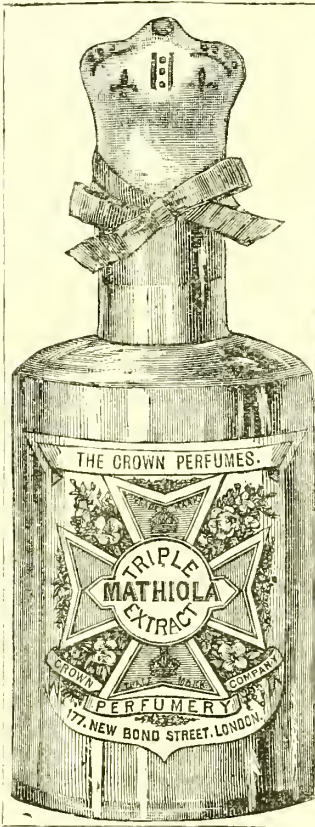
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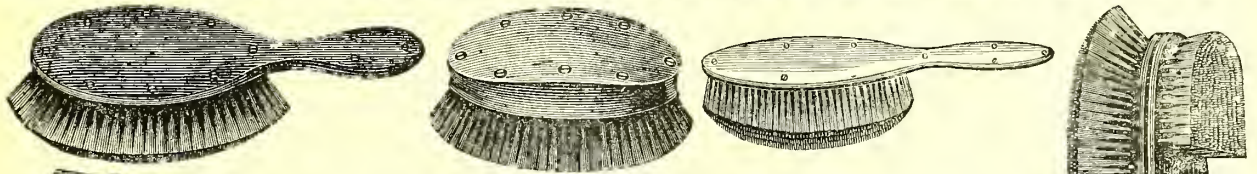
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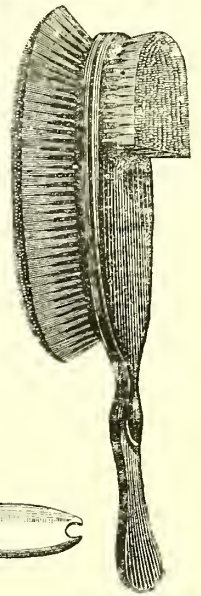
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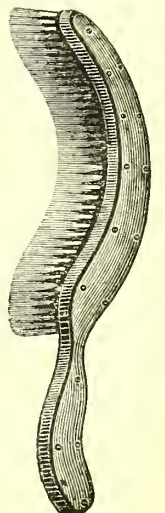
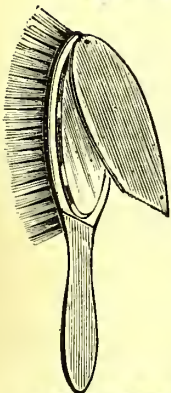
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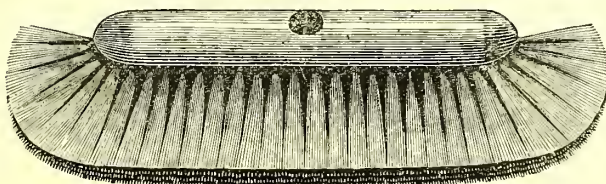
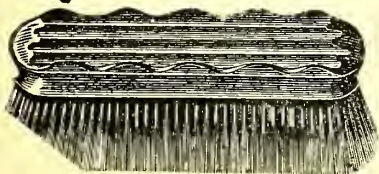


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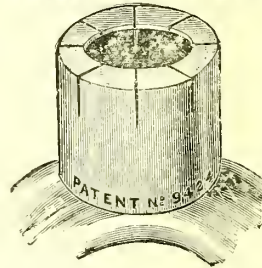


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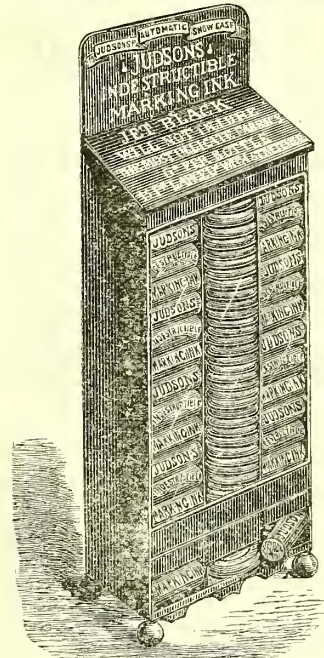
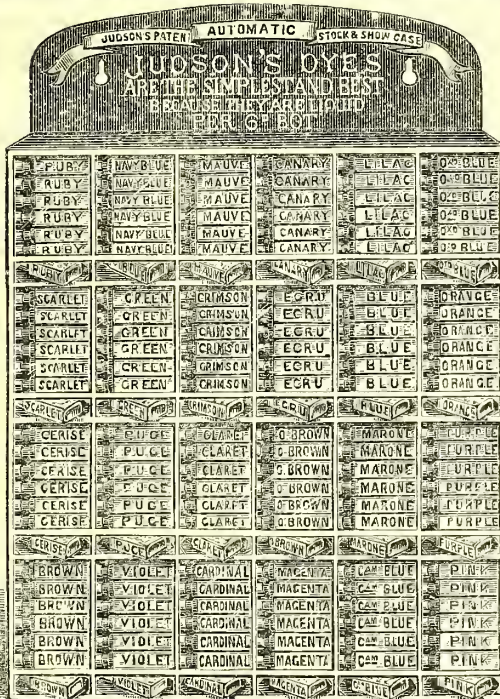
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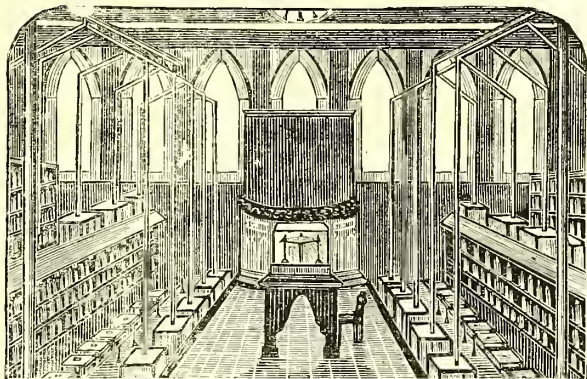
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The Sessions of this School begin on September 1st and January 4th and 5th in each year. They include the undernamed distinct Courses of Classes, each working independently and every class and every student receiving full attention. All the advanced classes are divided, Mr. Turner and Mr. Clayton taking each half alternately.

MINOR—Full Time, Afternoon, Once a Week, and Evening Classes.

MAJOR—Full Time and Extra Classes.

PRELIMINARY—Mr. E. G. Taylor's Class.

PASS LIST

FOR THE YEAR BETWEEN OCTOBER 1885 AND JULY 1886.

MINOR.

Mr. T. C. PARK, Hoylake.	Mr. BANKS SWINBURN, Penrith.	Mr. JAS. GARNETT, Kendall.
„ J. SCARR, Todmorden.	„ R. H. FEATHERSTONE, Aecrington.	„ W. A. COCKSHOTT, Manchester.
„ J. H. TITMAS, Manchester.	„ JAS. REDHEAD, Manchester.	„ T. E. DAWSON, Gateshead.
„ C. TURNER, Hingham.	„ J. G. GOURLAY, Manchester.	„ E. FORBES, Bolton.
„ T. A. WILD, Hyde.	„ J. DALE, Sheffield.	„ W. GREAVES, Ironville.
„ JAS. LIVESLEY, New Mills.	„ E. CATTIN, Burnley.	„ R. PICKERING, Blackburn.
„ J. A. MOORE, Bradford.	„ W. TOWNSEND, Bradford.	„ E. THOMAS, Garstang.
„ JAS. NAYLOR, Brownedge.	„ F. H. ROGERS, London.	„ J. E. WILKINSON, Manchester.
„ WM. STANDING, Darwen.		

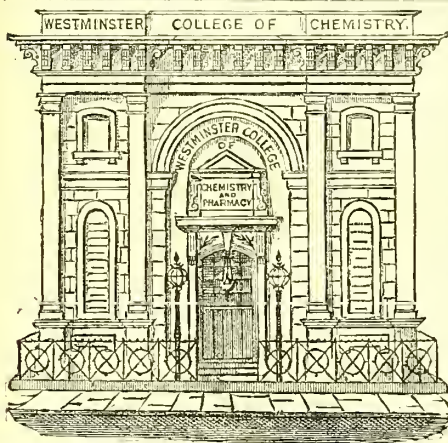
MAJOR.

Mr. WM. PEARSON, Sunderland Green.	Mr. C. TURNER, Hingham.
„ GEO. CLAYTON, Manchester.	„ A. E. BLACKBURN, Eccles.

PRELIMINARY.

Mr. G. F. BOURNAN.	Mr. T. H. HALL.	Mr. J. DRINKWATER.
Mrs. SHAW.	„ J. SHELFON.	„ S. W. EVANS.
	„ W. PENNINGTON.	

WESTMINSTER COLLEGE OF CHEMISTRY.



The Next Session will commence on
Wednesday, September 1, 1886.

FEES.

October Examination (Minor or Major)	£3 6 0
December " " " " " " " " " " " "	9 9 0
12 Months' Course (Minor and Major)	15 15 0
October Examination (Preliminary)... ..	2 2 0
January " " " " " " " " " " " "	5 5 0

Students wishing to enter on the above date are requested to send in their names as early as possible, so that Benches may be reserved for them.

The Pharmaceutical portion of the Instruction in this College is equal to that of any other School.

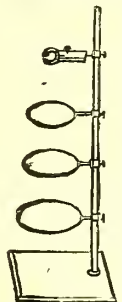
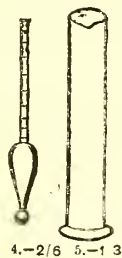
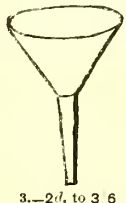
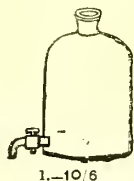
The success which always attends Students presenting themselves from this School furnishes a sufficient test of the thoroughness of the education imparted

PASS LIST FOR THE SESSION 1885-86.

October.	December.	February.	April.	July.
MINOR.	MINOR.	MINOR.	MINOR.	MINOR.
Mr. C. M. Brown " C. J. G. Bunker " R. Colwill " S. Cooke " J. Cookson " H. Copestake " C. D. Cumber " S. Day " J. Ferguson " H. S. Green " T. Hartley " W. H. Jennings " B. O. Jones " A. Milne " J. Morris " H. S. Pearmund " G. H. Phillips " R. Roberts " W. Roberts " C. H. Robinson " S. Wilson " W. E. Youngman	Mr. J. W. Branstun " G. P. Buckley " R. J. Clements " H. S. Cox " C. W. Craswell " S. Jones " J. H. King " S. C. McKee " W. H. Otty " F. W. Purchase " A. C. Stark " T. Thomas	Mr. H. Beaton " C. Brown " T. Coope " J. Dorman " R. B. Greaves " M. Hargrave " H. R. H. Hayeroft " F. Morrell " J. Munday " F. W. Parkinson " J. Sankey " H. R. Smith " J. Stoherst	Mr. H. C. Camel " C. E. Dodsley " F. J. Dunstan " C. Ellison " W. J. Fairbanks " G. Faraday " T. C. Fawcitt " F. C. Fawn " A. E. Fox " A. J. Foxon " T. Goodman " T. J. Green " E. O. Hanbrook " T. G. Heighington " J. Hemmons " W. H. D. Howell " W. Howe " E. Jones " T. Lewis " F. J. Loveday " V. Norman " P. F. Rowsell " J. Senior " E. Smith " W. Shyvee " W. G. Walker " W. L. White " A. J. Wing " S. Wyatt	Mr. W. S. Blinkhorn " W. Bradley " A. Cartwright " P. Dakers " E. L. Delarue " A. Elliott " R. D. Evans " G. R. Fisher " J. H. Francis " R. R. Gant " R. T. Garton " W. Gasson " C. W. Gould " F. Guttridge " H. O. Isaac " A. W. Kimber " J. P. Leech " W. Martin " W. E. Moffet " J. R. Oliver " F. J. Sansom " W. J. Shepperd " W. H. Softley " W. M. Waterhouse " A. W. Wood " J. P. Wright
	MAJOR. Two presented. Both passed.	MAJOR Mr. A. L. Meadley		
	PRELIMINARY. April Mr. S. P. Jacques " A. H. McConnell " R. Seldon " J. H. Smith	PRELIMINARY. Mr. W. S. Beale " J. Brookes " W. C. Bl-yney " F. G. Clapham " W. C. Pitt " S. J. Lewis " E. P. Minett " B. J. Workman		
MAJOR. Mr. J. Healy " A. D. Markham " J. R. Sturdy			MAJOR. Mr. G. H. Cuff " R. Pinder	

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Messrs. WILLS & WOOTTON, Trinity Sq., Borough, London, S.E.



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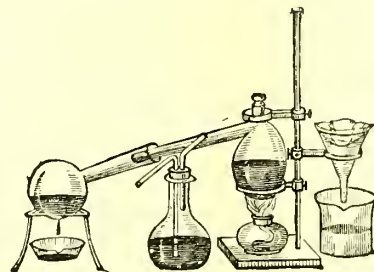
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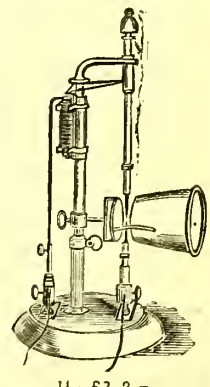
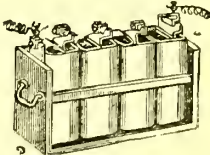
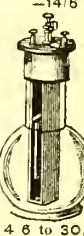
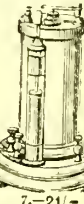
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AND
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Advertisements for this Supplement must be prepaid, and can be received at the Office, 42 Cannon Street, until 5 p.m. on **Thursday afternoon**, or by **first post** on **Friday morning** of each week. Remittances payable to **EDWARD HALSE**, crossed **MARTIN & CO.** Stamps are taken in payment.

TERMS—Businesses for Disposal, Employers wanting Assistants, Partnerships, Businesses to Let, Sales by Auction, 5 lines (fifty words) and under, 3s. 6d.

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CHEMISTS' TRANSFER AGENTS,

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The Business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on Value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

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10.—**NORFOLK**—Good Light Retail and Dispensing Business; returns average over £900 yearly, with good profits; good house, vendor's own; attractive garden, with fruit trees and green-house; price £750.

11.—**SOUTH DEVON**—Good town; Retail and Dispensing Business; well situate for a good-class trade; nicely fitted shop and good stock; returns average nearly £475; comfortable house; low rental; price £450.

12.—**SOUTH WALES**—Good town; Retail and Dispensing; returns, under indifferent management, £750 yearly; good house and shop; rent low; any reasonable offer will be accepted.

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20.—**HANTS**—High-class Business for immediate disposal; returns nearly £1,800; large handsomely-fitted shop; premium for goodwill and valuation of stock and fixtures.

21.—**ESSEX**—Unopposed Business of good class; returns nearly £750 yearly (being old-established); good house, vendor's own; price about £700.

22.—**KENT**—Good-class Business; returns over £900 yearly; handsomely-fitted shop and good house; price about £900.

23.—**WEST OF ENGLAND**—Unopposed Business; Retail, Dispensing, and Prescribing; returns average nearly £600; large scope for increase; good house and garden; price £420.

24.—**BIRMINGHAM**—Mixed Business; returns about £1,000; held by vendor many years; rent moderate; valuation only required; part of purchase money paid by instalments if wished.

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AS MANAGER or Senior; fully qualified; registered Dentist; thorough experience; disengaged; outdoor preferred. C. H., 27 Leyton Road, Stratford.

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NOTICE TO CREDITORS.

Re MR. CHARLES JOHN MEAD, DECEASED.

PURSUANT to an Act of Parliament, 22nd and 23rd Vic. c. 35, intituled "An Act to further amend the law of property, and to relieve Trustees."

Notice is hereby given that all Creditors and other Persons having any claims or demands upon or against the Estate of Mr. Charles John Mead, late of No. 55 Fore Street, in the City of London, and also of No. 54 Broad Street, Golden Square, in the County of Middlesex, Chemist and Druggist, deceased (who died at Tunbridge Wells, in the County of Kent, on June 13, 1886, and probate of whose will was granted by the principal Registry of the probate Division of the High Court of Justice on July 21, 1886, to Mr. William Richard Gossling, one of the Executors therein named; Mr. Richard Bremridge, the other Executor, having renounced probate), are hereby required to send the particulars of their claims and demands to me, the undersigned, the Solicitor for the said Executor, on or before the 7th day of September, 1886, after which date the Executor will proceed to distribute the assets of the said deceased among the parties entitled thereto, having regard only to the claims or demands of which he shall then have notice. And the said Executor will not be liable for the assets, or any part thereof, so distributed to any person of whose claim or demand he shall not have had notice at the time of the distribution of the said assets.

Dated this 24th day of July, 1886.

W. H. HERBERT,

10 Cork Street, Burlington Gardens, London, W.,
Solicitor for the said Executor.

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What offers? Attfield's "Chemistry" (new), Griffith's "Materia Medica," Henfrey's "Botany," both nearly new. J. T. Hall, 15 Gardner's Crescent, Edinburgh.

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Set of illegible autograph prescriptions (original) 2s. 6d., as presented to the Pharmaceutical Society of Ireland for their examinations; 30 prescriptions (catch and difficult) given to dispense at Minor during past 12 months, 2s.; 50 questions asked of successful students at last Minor, 1s. 1d.; new "Pharmacopœia," 5s.; lot of cheap, almost new, books; Attfield's "Chemistry," 1886, 12s.; Squire's "Companion," 1886, 8s. 6d.; carriage paid; stamp for list. Saunders, Medical Tutor, 6 Rochester Square, N.W.

Shop Fittings.

Refitting.—Two 6 ft. wall or screen cases, two 4-ft. counter cases, ebonised, Curtis's make; 30 cylindrical lozenge bottles, 30 oz., tin lids. B. Shaw, Halifax.

Three nests mahogany chemists' drawers, glass knobs, handsome mahogany upright wall-case, upright and flat counter-cases, ointment and extract jars, and circular oil-cisterns; cheap. Heap, chemist, Ashton-under-Lyne.

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Handsome specie-jar, as Maw's fig. 1; height, exclusive, 26 in.; square mahogany stand, 7 in.; price 45s. Nuttall, Higher Broughton, Manchester.

Mahogany dispensing screen, Maw's fig. A 53, equals new, 4l. 10s.; Post Office desk, fitted brass wire screen complete, 50s.; $\frac{1}{2}$ gal. York glass displacement apparatus; dozen glass specimen bottles, new; Maw's scales, fig. 1, cheap. Heuson, Chemist, Norwood.

Plate-glass wall case, A 88, 7 ft. 6 in. long, 22l.; plate-glass fronted counters, mahogany counters, mahogany-fronted drawers, gold labelled, new and second-hand wall fixture, complete with drawers, lockers, cupboards, shelving, and cornice over, 12 ft. long, 8l. 10s.; ointment jars, green; carboys, 8 and 10 gallons; specie-jars, 80s. pair, Royal Arms, gold covers; pill-machines, 16s.; shop rounds, 7s. 6d. doz.; toothbrush-cases, 30s.; sponge-case, 60s.; counter-cases, fig. A 3, 40s.; fig. A 4, 5l.; A 8, 5l.; A 18, 5 ft. long, 95s.; ditto, 6 ft. long, 5l. 10s.; desks and cases, A 31, 60s.; cigar-cases; dispensing screens with marble centre, glass-case at each side, with silvered glass at back of slab, 5 ft. long, 5l. 10s.; other sizes larger; dispensing-screens, A 54, 3 ft. long, 3 ft. 6 in. long, 4 ft. long; also as fig. A 55, 5 ft. long, 6 ft. long. E. Natali, 207 Old Street, London, E.C.

Soda-water stand, A 57, 45s.; counter-cases, A 15, 8 ft. long, 2 ft. 4 in. wide; fig. A 16, 4 ft. 6 in. long; carboys, 12, 14, and 16 gallons; 4 lb. pink ointment jars, dome covered, 3s. 9d. each, labelled; sponge-case, A 43, 93s.; 4 ft. nest counter-drawers for labels, paper, till, &c., 40s.; outside globe lamp and arm, 50s.; mahogany-fronted counters, very elaborate, 9 ft. 6 in., fitted under with thirty-six drawers and till; 7 ft. ditto to match, with cupboards under; 3 ft. 6 in. ditto; 11 ft. wall-case, 9l. 10s.; several pair specie-jars; also a quantity second-hand nests drawers, gold labelled, with lockers under. E. NATAK, 207 Old Street, E.C.

Several second hand nests shop drawers; 1-lb. blue canopy ointment jars, 8d. each; 2-lb. ditto, 1s. 3d. each; 3-lb. ditto, 1s. 9d. each; 4-lb. ditto, 2s. 3d. each; quantity new stoppered shop bottles, 8s. 6d. doz.; 4 engraved acid bottles, 4s.; 4-gallon iron mortar, 15s.; pair 4-lb. French counter scales, 15s. 6d.; 10-lb. ditto, 18s.; 4-lb. marble top ditto, 17s.; 4-oz. verified measures, 10s. doz.; new pill machine, 16s.; No. 10 composition mortar and pestle, 7s.; 16-oz. blue plug syrup bottles, 9d. each; 20 oz. ditto, 10d. each; several curved counter glass cases, from 1l. 10s.; various show globes and specie jars; glass sponge, &c., jars, with crown-shape lids. SIMCOCK, Guildford Street, Leeds.

6 ft. 6 in. mahogany dispensing counter case, shelves at back, tablet "Dispensing department," 4l. 5s.; 3 ft. 4 in. ditto, carved mahogany top, tablet, 20s.; 3-tier plate-glass stand, Maw's fig. 4, page 491, 18s.; two sets brass counter scales, 14 in. beams, box ends, mahogany stands, 30s. and 15s.; dispensing scales, sliding pillar, Maw's, fig. 9, page 440, 15s.; 4-grain pill machine, 10s.; $\frac{1}{2}$ -gallon tincture press, 10s.; 12, 4-lb. blue ointment jars, gold labels, Maw's, fig. 13, page 472, 28s.; 24, 32-oz. narrow mouth shop rounds, gold labels, 20s.; 17, 20-oz. ditto, 10s.; 14, 12-oz. narrow and 10, 12-oz. wide ditto, 12s.; 20, 1-gallon upright black glass store bottles, gold labels, bungs and caps, 30s. The above are equal to new. Broof, Chemist, Leicester.

Formulae.

Formula of Danish butter colouring, prepared with oil, easy to make, 2s. 7d.; a farmer's wife writes: "Send a dozen butter colouring. I let Mrs. Clifton have a bottle; she took first prize at the Long Sutton Christmas Show for her butter coloured with it, the colour was so much admired," perfect as a colouring for pomades. Huggins, Chemist, Wainfleet, Lincs.

Devoniensis Lavender Water.—Those of the trade who have not availed themselves of former opportunities of purchasing my formula for above can now do so by forwarding half-crown postal order to Devoniensis, Broadhempston, Totnes. Recent testimonial:—"By adopting your formula my sales of lavender water have considerably influenced my returns. It is certainly far and away the best recipe I have ever compounded."

Churchill and Salisbury bouquets, splendid perfumes, and certain success; starch polish, commands immense sale; composition powder and essence, both good preparations; cold cream; lavender water; cherry tooth-paste; pile powders; ginger-beer powder, this is an unrivalled formula; eau de Cologne; extract roses and elder flower; cough mixture, resembling Crosby's; hair restorer; marking ink; orange bitters; whooping-cough mixture; glycerine jelly, the best in the market; many other recipes on application; 1s. 3d. each, 3 for 3s. 3d. Ramsden, Southgate, Wakefield.

Original and reliable recipes for seasonable specialties.—"Hygienic Toilet Vinegar," delightfully fragrant; "Solution of Roses," for the skin and useful at the seaside; "Sea Foam," a shampoo liquid delightfully cooling and refreshing; "Moth Exterminator," a new preparation, very effectual, fragrant, and non-poisonous; "Antiseptic Tooth Powder," thoroughly cleanses and preserves the teeth, agreeable to the taste; "Antiseptic Mouth Wash," invaluable to smokers; "Glycerine and Elder-flower," an elegant cooling lotion for sunburn and tan; "Anti-Cholera Mixture," an absolute remedy for diarrhoea; "Rennet Essence," "Araica Jelly," for tender feet; all very profitable and take well wherever introduced; 1s. 1d. each, 6 for 5s. W. J. Fairweather, 110 Cheltenham Road, Bristol.

Seasonable Proprietaries, wanted daily.—"Mollispena," for tender feet; "Red Rose Lotion," invaluable at seaside; "Glycerine Cream," resembles Beetham's; "Perspiration Powder," effective without danger; "Effervescent Saline," like Eno's, costs 10d. lb.; "Diarrhoea Mixture," pronounced infallible; "Diarrhoea Powders," indispensable to tourists; "Custard Powder," like Bird's; delicious "Blancmange Powder," economical and tasty; "Bengal Chutney," makes cold meat enjoyable; "Ginger-beer Powder," unexcelled; 3d. packets "Lemonade Powder," cooling, refreshing, cheap; "Syrup Lemons," new form, delicate flavour; "Herb Ale," non-alcoholic, sparkling; "Bark Beer," true temperance potation; "Cold Cream"; "Toilet Vinegar"; "Eau de Cologne"; "Hair-washes," &c. Recipes 1s. 1d. each, 6 for 5s., free, with full directions; send for list of 300. T. Brooks, Chemist, Louth, Lincs.

Soluble essences (non-alcoholic, for mineral waters); lime-juice cordial; chlorodyne (perfectly transparent); cascara sagrada cordial; concentrated waters (1 to 40); essence rennet (permanent, no salt); hop bitters; liquor carbonis (resembles Wright's); chemical liquors for syrups (stable); lac rosarum (inseparable, made in few minutes); ink (resembles "Dichroic"); elixir phosphori, invigorating tonic; sponges bleached (golden yellow); liquid dentifrice (like "Floriline"); marking-ink, *sine* silver, writing executed defies chemicals; saline (Eno's or Lamplough's); magic neuralgic drops; lime-juice and glycerine (white as milk, inseparable); pill-coating, pearly white, no mastic or mucilage; crimson marking-ink; hair-restorer, colourless, no deposit, *sine* silver; oleum flavum concentratum, stable colour for pomades; soluble ginger (like Hay's); liquor copaiba comp. c. buchu et matico (like Richardson's); liquor santal. flav. (resembles Hewlett's); taraxicum podophyllin, iron quinine (both resemble Pepper's); many perfumes, also toilet requisites; state wants; lists issued; all inexpensive to prepare; 5s. each (5 for 1l.); analyses undertaken. Readers are warned against cheap substitutes. I was first to advertise formulae in this journal. "Analyst," Mr. Warnes, 6 Rochester Square, N.W. (Only prepaid inquiries answered.)

Miscellaneous.

Several dozen 2s. 9d. Cockle's and Scott's; ditto 3s. 6d. Rowland's macassar; cash offers. 00/5. Several dozen pear-shape syphons, sale or exchange. Coldwell, Malvern. Surplus drugs and patents for sale or exchange. Send for price list to Watson, Chemist, Shipley. Genuine bottled cider, in splendid condition; quarts, 12s. 6d. doz.; effervescing equal champagne. Morgan, Chemist, Hereford. 24, 1-gallon store bottles, 24s.; looking-glass, 57 in. by 36 in., handsome moulded; mahogany frame; nest drawers, gold labels, glass knobs. 112 High Street, Woolwich.

500 fly-papers, extra strong, fresh and clean, 6s. 3d. carriage paid; 1,000 10s.; sample sent. Fortune, Anstruther.

Surplus stock.—8, 1-oz. Ferris's nepenthe, 2s. 6d. 7, 13 $\frac{1}{2}$ d. Smith & Clarke's pectorine, 2s. 6d.; 7, 2s. Nestle's milk food, 6s. 6d.; all clean, Clifton, Ipswich.

Tricycle, &c.—Front guide wheel, price 120s.; just been entirely overhauled; japanned dull black; cheap. Carr's drug-grinding mill, with stand, 110s. Two gantries each 6 feet long. Wilks, Burnley.

Child's vulcauizer, as Ash's List, 110s., with thermometer and all accessories, in working order; will take 2l. Imray, 59 Dereham Road, Norwich.

Pill machine, four grain, new, 12s. 6d.; grain scales and weights, new, Lynch's make, 6s. 6d.; Salter's quadrant balance, weighs 56 lb., 7s. 6d. Lister, Dewsbury Road, Leeds.

Quantity of anatomical jars, upright and flattened, various sizes; also four dozen pounds and half-pounds stoppered bottles; shop rounds; what offers? Halls, Chemist Newark.

Six Bowler's shepherd's companions, sell at 7s. 6d. each, for 4s. 6d. cash, or exchange saleable, patents to 5s. 6d.; also small microscope and quantity objective glasses, 1l. or exchange 25s. Woodcock, 59 Dereham Road, Norwich.

$\frac{1}{2}$ -plate photographic bellows, camera by "Copeland," instantograph lens and shutter, tripod stand, relief lamp, trays, &c., complete, 40s. cost 25s.; perfect condition. Phillips, 32 Woodlea Road, Stoke Newington, N.

Glass Bottles.—About 8 gross pale-green tinted 3-oz. round pomades, screw nickel capped, 12s. per gross; 4 gross 14-oz. round-shouldered vials, white, best quality; several other lines equally cheap. Hearn, Riddell, Kingsland Road, London.

A few doz. Eureka papers, 6s.; star mills, 7s. doz., 3 doz.; the genuine can de Cologne 4 oz., 18s.; 6 doz. No. 4, 711, 2 oz., 6s. 6d. doz.; gum scammony virgin, 30s. lb., sample oz. for 2s.; Mitcham oil (lavender), warranted 6 years old, 5s. 6d. oz. Garman Brothers, Roman Road, Bow, E.

Mineral oil, suitable for pomades, few gallons, 2s. 6d.; gross 2-oz. metal screw-topped pomade bottles, 16s.; fullers' earth (like Matthew's), 2s. 6d. doz.; few 5-lb. tins vaseline (substitute), 2s. 6d.; menthol cones, boxwood screw, 3s., bottled, 2s. 6d. doz.; quinine (Howard's), 3s. oz. Gillman, 102 Camden Street, N.W.

Cheap lines druggists' sundries.—Bent feeders, black fittings, 1l. 6s. 9d. gross; screw ditto, 1l. 13s. gross; best white teats, 4s. gross; black teats, 5s. gross; superior black tubing, 7s. lb.; 3-oz. and 4-oz. dispensing bottles, 6s. gross; 6-oz. and 8-oz. ditto, 7s. gross; 1 and 2 drachm flint vials, 2s. 8d. gross; 1-oz. ditto, 3s. 3d. gross; 2-oz. ditto, 4s. 6d. gross; 8-oz. glass-plug salines, 13s. 6d. gross; 8-oz. plain salines, 9s. gross; 2-oz. nickel screw pomades, 17s. gross; 1-oz. glass opal covered pots, 16s. gross; soft copaiba capsules, 7s. 6d. 1,000; 8-inch filtering-paper, 8d. 100; boat feeders, 3s. 6d. doz.; glass nipple-shields, 1s. 10d. doz.; 1-drachm pink cnts, 4d. gross; porcelain sick-feeder cups, 4s. 6d. doz.; Wansbro's leaden shields, 4s. 6d. doz.; 1-oz. deep willows, 8 $\frac{1}{2}$ d. gross; Higginson's green enemas, complete, 24s. doz.; Ingram's seamless ditto, 28s. doz.; fly papers, 12s. 6d. 1,000; 30 oz. glass-capped oil bottles, 2s. each; white demy, 4s. ream; blue demy, 6s. 6d. ream. Simcock, Guildford Street, Leeds.

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Bleeding lancets, first-class quality; must be cheap. 13/13.

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Second-hand lot of shop bottles; send particulars. Evans, Chemist, Ammanford. Second-hand drug drawers. State full particulars, and lowest price, to Riddiough, Keighley.

Copies of *The Chemist and Druggist* for May, 1880; February, March, April, August, and September, 1883; January, February, and July, 1884; state price. 9/8.

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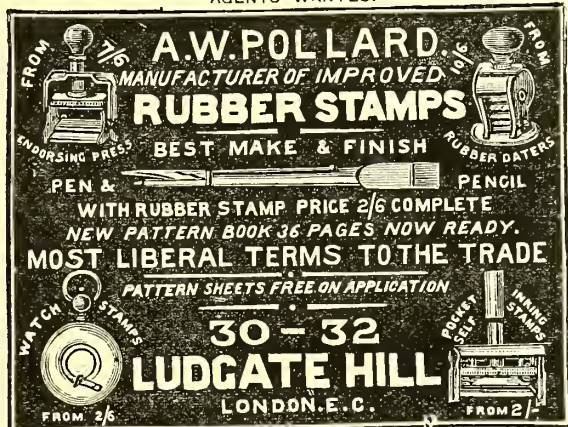
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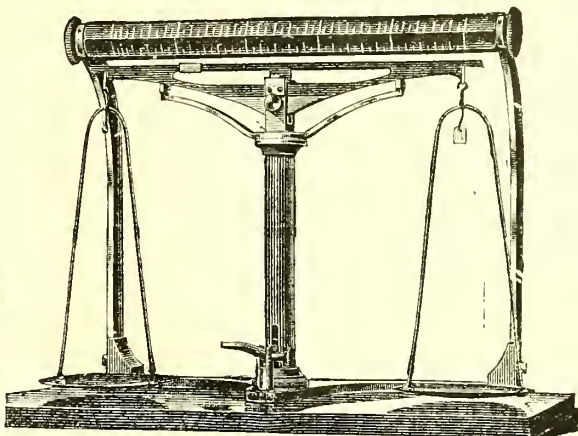
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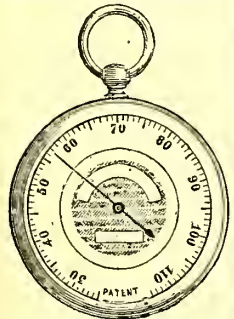
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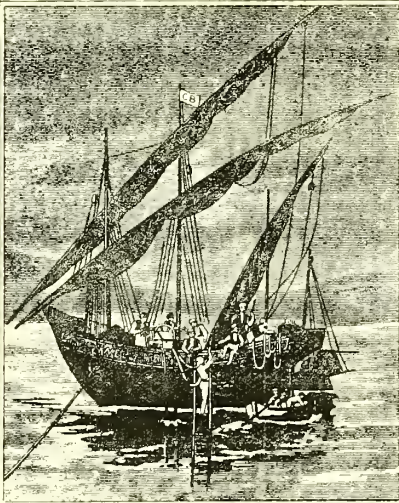
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C4 do.	400 "	5 0 0	C11 do.	2nd quality, 100 "	3 15 0
C5 Cuban Honeycomb, 1st quality	50 "	5 0 0	C12 do.	do. 150 "	3 15 0	
C6 do.	do. do.	75 "	5 0 0	C13 do.	do. 225 "	3 15 0
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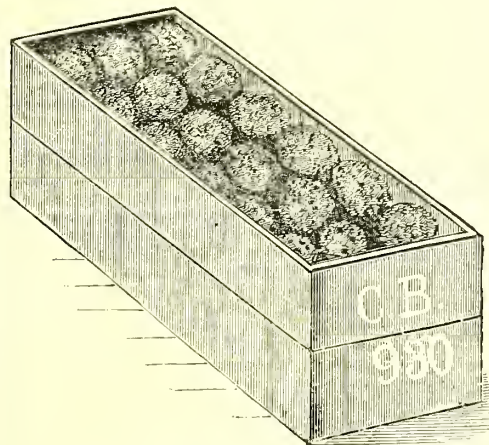
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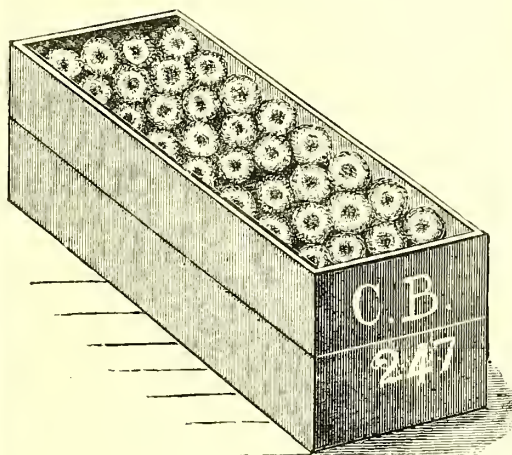
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3	1st	Do. do.	45	80/
4	1st	Small selected shapes	280	140/
5	1st	Superior do. large Bath sizes	25	140/
6	2nd	Do. quality shapes, assorted sizes	125	160/
7	2nd	Do. do. do.	73	84/
8	2nd	Good quality shapes, small	280	70/
9	2nd	Do. large Bath sizes	25	100/
10	3rd	Do. assorted sizes	145	105/
11	3rd	Do. do.	85	70/
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13	4th	For Stable use, &c.	100	50/



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14	1st	Finest selected Cups, assorted sizes	110	360/
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16	1st	Do. Bath sizes	35	240/
17	2nd	Superior Cups, assorted sizes	110	240/
18	2nd	Do. do.	60	140/
19	2nd	Do. Bath sizes	35	180/
20	3rd	Finest Cups, assorted sizes	110	180/
21	3rd	Do. do.	65	105/
22	3rd	Do. Bath sizes	35	140/
23	1st	Turkey Solids, assorted sizes	100	140/
24	2nd	Do. do.	100	110/
25	1st	Flat Saddle, assorted sizes	50	190/
26	1st	Do. do.	30	120/
27	2nd	Do. do.	50	130/
28	2nd	Do. do.	30	80/



BROWN TURKEY SPONGES.

No.	Qty.		Pieces in Case	Price Case
29	1st	Finest selected, assorted sizes	130	90/
30	1st	" "	70	55/
31	2nd	Superior quality	130	63/
32	2nd	" "	70	40/
33	3rd	Slate quality	300	25/

FINE EGYPTIAN SPONGES.

A very good-looking and cheap kind of Fine Toilet Sponge; very durable, and soft when wetted.

No.	Qty.		Pieces in case	Price case
34	1st	Finest selected, assorted sizes	110	100/
35	1st	" "	210	70/
36	2nd	Good quality	110	80/
37	2nd	" "	210	55/

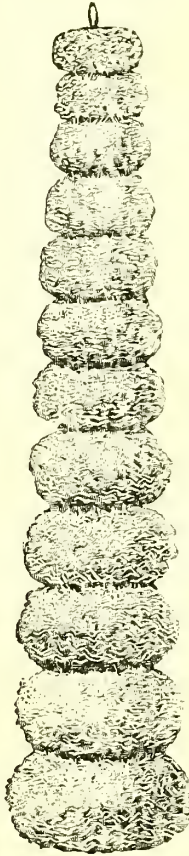
PLEASE NOTE STYLE AND ADDRESS OF FIRM.

See two following pages.

CRESSWELL BROTHERS, 13a Red Lion Square, London, W.C.

SPONGES ON STRINGS.

The Strings of Sponges, for which we quote below, are put in a form which will facilitate the trade of wholesale and general buyers considerably. They are compact, of excellent value, and well adapted for display.



FLORIDA SPONGES ON STRINGS.

		Pieces	Per String
A	Finest Wool, Bath sizes	12	30
B	" "	12	24
C	" "	12	20
D	" medium sizes	15	22
E	" "	15	15
F	" "	15	10
H	" medium small	15	7 6
I	" "	15	5
J	Finest Velvet, Bath sizes	12	25
K	" "	12	20
L	" medium sizes	15	18
M	" "	15	16
N	" "	15	12
O	" "	15	9
P	" medium small	15	7
Q	" "	15	4 6

FLORIDA SPONGES IN CASES.

		Pieces	Price Case
FA	Finest Toilet and Bath	150	75
FB	" "	100	75
FC	" "	100	100
FD	" "	100	150
FE	" "	100	200

HONEY-COMB SPONGES ON STRINGS.

No.	Qty.	Pes.	strg.
1	Best Toilet Honey-Comb,	1st	18 12/
2	" "	"	18 18/
3	" "	"	18 24/
4	" "	"	18 30/
5	" "	"	12 27/
6	" Bath	"	12 36/
7	" "	"	12 48/
8	" "	"	12 60/
9	" large	"	6 36/
10	" "	"	6 48/
11	Good Toilet	2nd	18 9/
12	" "	"	18 12/
13	" "	"	18 18/
13a	" "	"	12 16/
13b	" "	"	12 20/
14	" Bath	"	12 27/
15	" "	"	12 36/
16	" "	"	12 48/
17	Good General,	3rd	18 16/
18	" "	"	18 12/
19	" "	"	18 14/
20	" "	"	12 18/
21	" "	"	12 24/
22	" "	"	12 30/



FINE TURKEY SPONGES ON STRINGS.



No.	Qty.		On each string.	Per string.	No.	Qty.		On each string.	Per string.
23	1st	Superior Fine Turkey Cups	12	18	37	1st	Sup. Small Fine Trky. Cups, 3 rnds.	25	18/
24	1st	" "	12	24/	38	1st	" "	25	24/
25	1st	" "	12	36/	39	1st	" "	25	30/
26	1st	" "	12	48/	40	2nd	Good	25	15/
27	1st	" "	12	60/	41	2nd	" "	25	20/
28	1st	" "	12	72/	42	2nd	" "	25	25/
29	1st	" "	12	84/	43	Good	Fine Turkey Solids	25	9/
30	2nd	Good	12	15/	44	"	" "	25	12/
31	2nd	" "	12	20/	45	"	" "	25	18/
32	2nd	" "	12	30/	46	"	" "	25	25/
33	2nd	" "	12	40/	47	"	" "	25	33/
34	2nd	" "	12	50/	48	"	" "	25	39/
35	2nd	" "	12	60/	49	"	" "	25	48/
36	2nd	" "	12	72/					



FINE EGYPTIAN SPONGES ON STRINGS.

No.	Quality.		Per string.
50	Best Egyptian,	20 pieces on each string	6/
51	" "	20 " "	9/
52	" "	10 " "	14/
53	" "	small 35 " "	6/

PLEASE NOTE STYLE AND ADDRESS OF FIRM.

See facing and two preceding pages.

STEVENSON & HOWELL'S

"EXTRA QUALITY"

Soluble Essence of Jamaica Ginger

CONCENTRATED IN VACUO.

GUARANTEED PURE AND FREE FROM CAPSICUM

PRICE	{	Per lb.	4/6.
		..	4/3 in 20-lb. quantities.
		..	4/0 in 60-lb. ..

PLEASE NOTE OPINION OF

"THE LANCET,"

July 3rd, 1886. Page 17.

"SOLUBLE ESSENCE OF JAMAICA GINGER,
"GUARANTEED FREE FROM CAPSICUMS.

"(STEVENSON & HOWELL, SOUTHWARK STREET.)

"According to our analysis and examination this is a perfect ginger essence. We have searched most carefully for the active principle of capsicum, and have not found the slightest trace. No less than 98·8 per cent. of the essence is volatilised by heat, including, of course, the fragrant essential oil, and of the residue only one-half is soluble in ether, so that the fixed resin in the essences only amounts to 0·6 per cent. As might be expected from its composition, the flavour of this essence is more delicate than that of the finest root."

STANDARD WORKS, 95^A SOUTHWARK ST., LONDON, S.E.,
And 128 HOPE STREET, GLASGOW.

SAVORY & MOORE'S SPECIALITIES.



THE BEST FOOD FOR INFANTS.

Health Exhibition, 1884, THE ONLY GOLD
MEDAL for a Malted Infants' Food.

USED IN THE ROYAL NURSERIES.

A Self-digestive Food, supplying the highest amount of Bone and Flesh-forming constituents.

The chief characteristics of this Food, to which attention is specially requested, are:—

1st.—The rapid and complete conversion of the starch at the time of mixing into the soluble assimilable products of maltose and dextrine. The point of the gelatinisation of the Food—viz., 140° F.—is just that at which Malt Diastase is most active, and the conversion of the starch is consequently the work of a very few minutes only.

2nd.—The retention of all the Phosphates and the Vegetable Caseine, Fibrine, and Albumen.

3rd.—The absence of the added sugar, which in the various Sweet Foods so often gives rise to Diarrhoea and Flatulence.

4th.—The albuminoids are not predigested, but rendered easy of digestion, leaving, as in human milk, just sufficient work to strengthen and develop the immature digestive powers.

The great success of this Food, extensively used in all parts of the world for the last 25 years, and the healthy condition of children fed upon it, is a convincing proof that it perfectly fulfils its object.

“This is an admirable preparation, and I am confident that to it many infants owe their lives.”—See *Glasgow Medical Journal*, May 1885.

“The constant employment by medical men of SAVORY & MOORE'S Malted Food in rearing their own families is itself a sufficient indication of the estimation in which it is held by those who can best judge of its merits.”—*Medical Press, &c.*, August 13th, 1884.

“A great improvement on the ordinary kinds.”—*Lancet*.

“It can be taken when nothing else can.”—*Medical Press*.

Obtainable everywhere, in Tins, 1s., 2s., 5s., and 10s.

SAVORY & MOORE,

Chemists to the Queen, H.R.H. the Prince of Wales, H.H. the Khedive of Egypt, &c.,

143, NEW BOND STREET, LONDON.

SAVORY & MOORE'S SPECIALITIES.

PEPTONISING PELLETS.

These Pellets will be found the most convenient, portable, inexpensive, and efficacious Peptonising agent that can be procured.

No weighing, measuring, or addition required. Each Pellet weighs five grains, and will sufficiently Peptonise for ordinary use a pint of milk in a quarter of an hour.

Being compressed, enough to Peptonise several gallons of milk, can conveniently be carried in the waistcoat pocket.

The Pellets are equally available for Peptonising Meat, Gruel, &c., &c.

This is the only form yet introduced which does not require a large excess of Alkali, and the nauseous taste of fully Peptonised milk, as hitherto prepared, is entirely avoided. Full directions accompany each Packet.

"We find Messrs. SAVORY & MOORE'S Pellets, as might safely be inferred, possess the advantage claimed for them. They are very active, and do not require a large excess of Alkali, which we consider a feature of much importance, especially in infant feeding. The milk Peptonised by the Pellets is of very fine flavour."

"Are admirably adapted for the purpose. Messrs. SAVORY & MOORE deserve credit for the attention which they have devoted to a complex and difficult investigation, and their successful product."—*British Medical Journal*, March 13th and April 3rd, 1886.

"The Peptonising Pellets issued by Messrs. SAVORY & MOORE are excellent, and will be found useful for peptonising milk."—*The Lancet*, June 5th, 1886.

"Messrs. SAVORY & MOORE have recently brought out some 'Peptonising Pellets,' which combine great activity with convenience in use. Each Pellet weighs five grains, and will peptonise milk sufficiently for ordinary use in a quarter of an hour. In the usual method of peptonising an excess of Alkali is often used, which is in some respects objectionable, especially in the case of infants. These Pellets require no addition of Alkali, a point likely to lend itself considerably to the favourable consideration of the Profession."—*The Medical Press and Circular*, April 28th, 1886.

"Thank you for the Pellets. I have been testing them on milk this morning, and they are thoroughly active. They will be very useful."—*From an eminent Medical Man*.

BOTTLES, 2/6.

PANCREATIC EMULSION.

The essential form of nutriment in all cases of Consumption, Wasting, Loss of Appetite, Strength, and Digestive power.

The Emulsion is of the consistence of Devonshire Cream, easily miscible with fluids, and quite unobjectionable in taste. It may be given in milk or water, and with the addition of a little wine or brandy, if desired.

IN BOTTLES, 2/6, 4/6, 8/-.

DATURA TATULA.

The best remedy for Asthma, difficult Breathing, &c., affording the most prompt and effectual relief.

To bring this remedy within the reach of all, the size of the packets of Cigars and Cigarettes has been considerably increased, thus reducing the price.

In Cigars, Cigarettes, and Tobacco, or in Pastilles or Powder for Non-Smokers' use.

Cigars and Cigarettes, 3/-, 6/-, 8/-, and 15/-; Tobacco, 2/6, 5/-, 10/-, 18/-;
Powder or Pastilles, 2/6, 5/-, 18/-.

SAVORY & MOORE,

Chemists to the Queen, H.R.H. the Prince of Wales, H.H. the Khedive of Egypt, &c.,

143, NEW BOND STREET, LONDON.

SAVORY & MOORE'S SPECIALITIES.

MEAT PEPTONE.

The Meat Peptone is made from prime English Ox Beef. It contains the whole of the Fibrine and Albumen of flesh in a Peptonised (predigested) condition as well as the Extractives, and therefore entirely represents Meat, for which it constitutes the only substitute. The advantages it offers over imitations are *very superior flavour, great concentration, and it keeps well when opened.* It is made, too, from good English Beef in England, and not from foreign animal refuse.

For Invalids and Convalescents it is far preferable to Beef-tea, Broth, or any domestic preparation, being in the highest degree invigorating and restorative—particularly after mental or bodily exhaustion.

“The objection commonly made to all preparations of Meat Peptones is that they have a nauseous, sickly taste. The difficulty has at last been overcome by Messrs. SAVORY & MOORE, who have recently introduced a Meat Peptone which fulfils all the requirements of the sick room.”—*The Lancet, June 5th, 1886.*

“Messrs. SAVORY & MOORE'S Meat Peptone is an admirable preparation for Invalids. When the teeth are decayed, or the digestion is impaired, it may be spread on bread and butter, or eaten in the form of a sandwich. In cases of great exhaustion, it is invaluable as a restorative agent. We can cordially recommend it.”—*British Medical Journal, March 13th, 1886.*

“We are glad to call attention to the great improvements Messrs. SAVORY & MOORE have recently made in the direction of Invalid Food products. Although Peptone made from Meat is unquestionably the most assimilable and nutritious of all diets for Invalids, hitherto there have been drawbacks in point of flavour and keeping properties, Darby's Fluid Meat being almost the only preparation that was unexceptionable in this latter quality. The Meat Peptone now introduced by Messrs. SAVORY & MOORE is of excellent flavour, so much so that without further addition it makes a most palatable and appetising soup, and we have the assurance of this respectable firm that when opened it will not become mouldy, even when kept for years, a point of considerable consequence. Altogether this preparation will supply an important want, and we have no doubt that its merits will ensure for it an extensive demand.”—*Medical Press and Circular, April 28th, 1886.*

Used by the eminent Physiologists, both at home and abroad, as a typical form of this important Nutriment.

IN JARS, 3/-, 5/6, and 10/-.

PANCREATIC PREPARATIONS

(see also other side).

PANCREATINE, ESSENCE OF (*Succus Pancreaticus, Savory*), contains the digestive principles secreted by the Pancreas. Pancreatic Juice, whilst sharing with the Gastric Juice the power of digesting meat, &c., is principally active in the digestion of starch and fat, which form so large a portion of our food. By adding the Essence of Pancreatine to milk or gruel, they can be artificially digested before being swallowed, and thus the weakest stomach, even when the natural powers of digestion are considerably impaired, may be made to tolerate and absorb large quantities of nourishment, which otherwise it would not be able to do. The Essence may be used with cooked meat as a sauce, and a small quantity added to beef-tea, soup, broth or jellies, renders them almost immediately assimilable.

“SAVORY'S Essences are preferable to other liquid preparations.”—*British Medical Journal.*

BOTTLES, 2/6, 4/6, 8/6.

SAVORY & MOORE,

Chemists to the Queen, H.R.H. the Prince of Wales, H.H. the Khedive of Egypt, &c.,

143, NEW BOND STREET, LONDON.

SAVORY & MOORE'S SPECIALITIES.

PANCREATIC PREPARATIONS

continued).

PANCREATINE, IN POWDER, introduced by SAVORY & MOORE in 1864. Bottles, 2/-, 3/6, 6/6, 12/6, 21/-

PANCREATINE, SALINE ESSENCE OF, may be taken with Food as a Sauce or Ketchup. Bottles, 2/6, 4/6, 8/6.

PANCREATINE WINE, an excellent vehicle for the administration of Cod Liver Oil, as well as for promoting its digestion. Bottles, 3/-, 5/-, 10/-

PANCREATISED COD LIVER OIL.—By combining the Pancreatic Juice with the Oil, the digestion of the latter is easily and rapidly effected. Bottles, 2/-, 3/6, 6/-, 11/-

PEPTIC PREPARATIONS.

PEPSINE, ESSENCE OF (*Succus Pepticus, Savory*).—This is a concentrated solution of the Ferment of Gastric Juice, and when taken with or immediately after a meal, actively promotes digestion and enables Dyspeptics to take many articles of food which are otherwise denied them. This Preparation is chiefly valuable as an aid to the assimilation of meat, eggs, and other nitrogenous foods. Bottles, 2/6, 4/6, 8/6.

PEPSINE PORCI, the strongest made. Bottles, 2/-, 3/6, 6/6, 12/6, 21/-

PEPSINE, SALINE ESSENCE OF, may be taken with food as a Sauce or Ketchup. Bottles, 2/6, 4/6, 8/6.

PEPTODYN.—A combination (in the form of powder) of the active properties of the several digestive secretions. The first preparation of its kind, and still maintains its reputation for superiority over the numerous American imitations that have been since introduced under somewhat similar names. Dose, 3 to 5 grains. Bottles, 2/9, 4/6, 11/-

PEPSINE WINE, supplied in bulk or small bottles at 3/-, 5/-, 10/-

PEPSINE LOZENGES, 2/6.

PEPTIC SALT, prepared at the suggestion of Dr. PROSSER JAMES. A very convenient and efficacious digestive agent, to be taken freely at meals, in the same way as ordinary salt. Bottles, 2/6.

THE ORIGINAL MAKERS OF

Ophthalmic and Hypodermic Discs, and other Medicated Gelatine Preparations,

And whose Discs were taken as the Standard by the Pharmacopœia Authorities.

The following Extract from the BRITISH MEDICAL JOURNAL of Feb. 6th, 1886, p. 257, speaks for itself:—

GELATINE DISCS AND LAMELS.—“Our attention has been called by Messrs. SAVORY & MOORE to a statement made in a circular recently issued by another firm of chemists, the purport of which would be to deprive them of the priority of invention and manufacture of the medicated gelatine discs now extensively in use for ophthalmic and hypodermic purposes. The fact is on public record that the ophthalmic discs were first prepared by Messrs. SAVORY & MOORE in the latter part of 1863, when they were extensively employed by Mr. ERNEST HART in the ophthalmic department of St. Mary's Hospital, as well as in private practice. This settles the question.”

The hypodermic discs were first made by SAVORY & MOORE, at the suggestion of Dr. ERNEST SANSOM, in 1874.

SAVORY & MOORE,

Chemists to the Queen, H.R.H. the Prince of Wales, H.H. the Khedive of Egypt, &c.,

143, NEW BOND STREET, LONDON.

TREBLE GOLD MEDAL SODA WATER MACHINERY,

THREE GOLD MEDALS,

AND ALL APPLIANCES,

THREE GOLD MEDALS,



Comprising the latest improvements to the best machinery, for producing all kinds of Aerated and Mineral Waters of the highest class, most speedily and economically, and of the utmost purity.



I.H.E., LONDON, 1884.

I.H.E., LONDON, 1884.

SIMPLE, STRONG, DURABLE, COMPACT, AND IN EVERY WAY
SPECIALLY ADAPTED FOR EXPORT,

As is proved by the thousands of machines of our make, now in use in all parts of India, China, Australia, the Cape, &c.

OUR AWARDS AT THE GREAT INTERNATIONAL HEALTH EXHIBITION, LONDON, 1884.

We obtained the HIGHEST AWARDS in EACH COMPETITION, receiving in all

SEVEN MEDALS, THREE OF WHICH WERE GOLD.

The greatest attention was given by the Jury to the different sections, in order to arrive at a fair estimate of the value of the improvements claimed by each Exhibitor; and never, since the Great Exhibition of 1862, has such a list of names composing the Jury been brought together. They comprise the names of men standing highest in *Science, Mechanics, Chemistry, &c.*, and, indeed, in all pursuits where technical knowledge may be looked for, and therefore our awards are valuable, and more particularly as in each case it was with severe competition by Firms who manufacture the same class of goods as ourselves. The value of these awards, or in fact any, can only be rightly adjudged by the list of names composing the Jury.

It is one of the simplest things to get a Gold Medal at the many unimportant exhibitions, such as those which have opened apparently only for the purpose of getting exhibitors to pay for space, and then a sort of barter takes place by giving a medal!!

BARNETT & FOSTER,

Mineral Water Engineers, Manufacturing Chemists, and General Providers to the Aerated Water, Wine, Beer, Cyder, and Ice Manufacturing Trades,

"NIAGARA WORKS," 26^T EAGLE WHARF ROAD, LONDON, N.

Telephone No. 306.]

[Telegraphic Address—"Drinks London."]

New Illustrated Catalogue of Soda Water Machinery and all Appliances will be ready in a week or two. Forwarded Free on application.

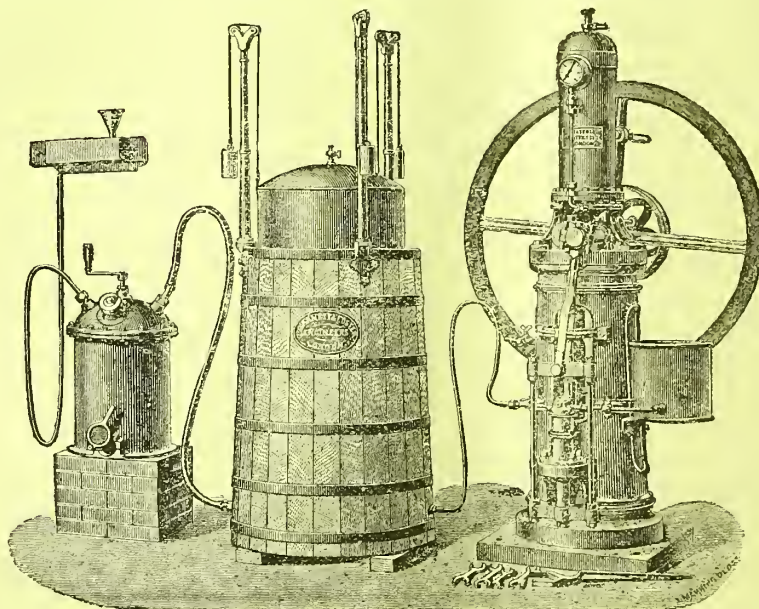
BARNETT & FOSTER, "NIAGARA WORKS,"

THE SINGLE "NIAGARA" SODA WATER MACHINES.

CONTINUOUS ACTION.

(PATENTED.)

CAUTION.—See that the word "NIAGARA" is engraved on each Condenser; none are genuine without this, and are only indifferent copies of our Patent.



When fitted with our new patent acid arrangement, a saving of 50 per cent. in material and labour is effected as compared with any other system.

Two sizes only of this Machine are made, A and B size, consisting of the Machine, with latest and important improvements, fitted with water and pressure gauges, safety-valve, our celebrated pump with solid ram, and improved valve-box, &c. The gas plant consists of suitable size oak gasometer and copper bell, pipes, weights, uprights, &c. Generator made of thick lead, top flanged with bolts and nuts, fitted with strong gun-metal mixer, suitable inlet and outlet, also acid syphon box and pipe, including necessary pipes, connections, and spanners ready for use, as shown above. Any kind of filling machine can be attached.

A size Machine, with gas work complete, as drawing, for hand			
or power makes 600 dozen large bottles per day	£60 0 0	for machine only	£48 10 0
B ditto ditto 1,200 ditto ditto	75 0 0	„ „	58 10 0

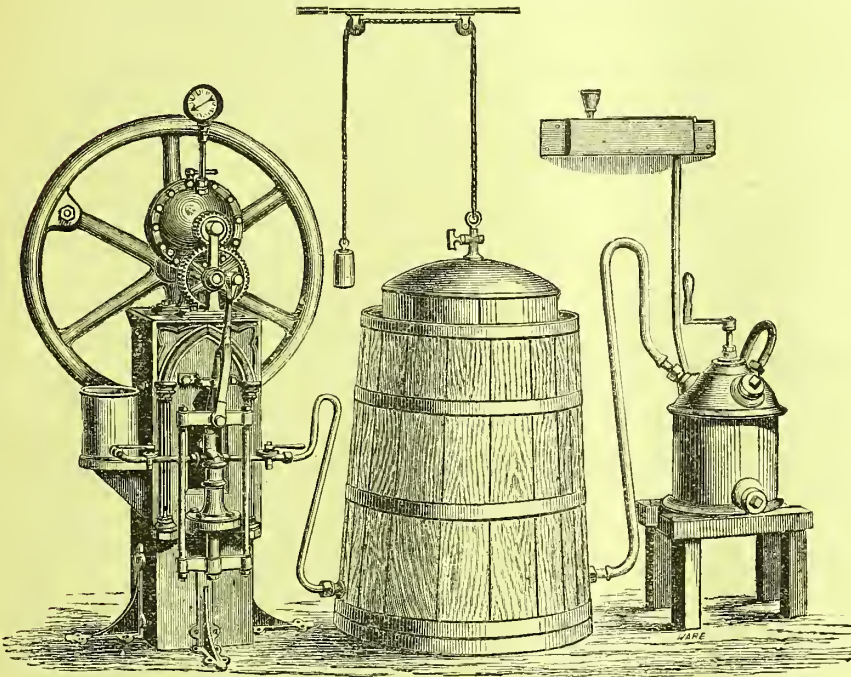
The principle upon which the cylinder of this Machine is constructed is similar to that described at page 15 of our Catalogue, the section of the cylinder showing how the gas and water are mixed or incorporated. The advantages are doing away with useless friction and wear and tear in the condenser.

OBSERVE!—The great success that has attended the introduction of this Machine has led unscrupulous persons to copy our design; this will be apparent on comparing the drawings of advertisements, which are similar in every detail to ours. We beg to point out, however, that the patented portion—of vital importance too, and which has led to the immense success of the Machine—is hidden from view, it being inside the condenser, and by its means the water and gas are incorporated one with the other by gravitation, and not by friction, producing as the result a very high-class aerated water.

So nearly is this Machine copied in appearance, that we have again to call the attention of our friends to the system of pirating, copying, and infringing which we, as pioneers in this business, are subjected to, and would ask them not to countenance such barefaced and dishonourable actions. It adds another item to our list of infringements (*vide* introduction to our catalogue). If these "plagiarists" were but clever enough to design some improvement that would supersede our inventions, we should be glad to welcome them, but until then we shall trust in the good sense of purchasers to stamp such infringements as not worthy of their notice.

THE "PETITE" SODA WATER MACHINE.

Especially designed for Chemists and Druggists, Hotel Keepers, Coffee Taverns, Refreshment Houses, Confectioners, &c., and for those doing a large retail business.



PRICE COMPLETE, £30.

OVER 1,000 OF THESE SMALL MACHINES ARE AT WORK IN DIFFERENT PARTS OF THE WORLD.

OBSERVE!!

We originated the design of this machine about 10 years ago since which time we have improved the detailed construction, and its success has again brought copyists. It was introduced by us originally as the "Chemist's" machine, and latterly we call it the "Petite." We would advise purchasers to see they get the genuine well-tried machine.

This machine is capable of producing about 1,000 large bottles per day. It comprises a strong gun-metal pump, with valve-box at top; a strong copper globe, made to open if required, and fitted with blow-off valve, with connection for bottling machine; the agitator driven by toothed wheels; solution pan, &c., mounted on stand; a strong oak tub, iron bound; copper bell with the blow-off cock at top, pipes, and connections, forming gasometer; stout lead generator, with tinned copper agitator; gun-metal fittings and pipes; syphon box and pipe for supplying acid to generator; and all necessary requisites, including spanners to fit every bolt and nut. The whole mounted complete on cast-iron frame.

Its advantages are great to retail dealers, such as chemists, hotel proprietors, confectioners, and keepers of refreshment houses, as by having the Machine on the premises the spare labour of lads can be utilised in rendering an already profitable branch of their business still more so. The cost of production is almost nominal, and only a small invested capital in bottles is required, these being filled repeatedly and expeditiously in proportion to the business done. Apart from these important advantages—which will at once be appreciated by those who have felt the inconvenience and annoyance of not being able to get bottled drinks at all in the season—thus losing a large source of profit—is the fact of being able to produce at any time, and in a few minutes, as the demand may arise.

FULL DIRECTIONS AND RECIPES SENT WITH THE MACHINE.

PRO FORMA INVOICE FOR A CHEMIST'S COMPLETE PLANT:—

1 "Petite" Soda-water Machine, with pipes, connections, spanners, gauges, &c., as above	...	...	£30	0	0
The "Excelsior" Turnover Filling Machine, for Internal Stoppered Bottles (with Syrup Pump)	...	...	9	9	0
5 gross "Eclipse" Ball Stoppered Bottles, at 18s.	...	...	4	10	0
10 lbs. each kind of Concentrated Compounds, for Lemonade, Ginger-beer, Ginger-ale, and Orangeade, containing all ingredients except Sugar, at 2s. per lb.	...	...	1	0	0
1 Hand Bottle-brushing Machine	...	...	1	10	0
Packing all the above for Export, extra,			£3.	46	9
					0

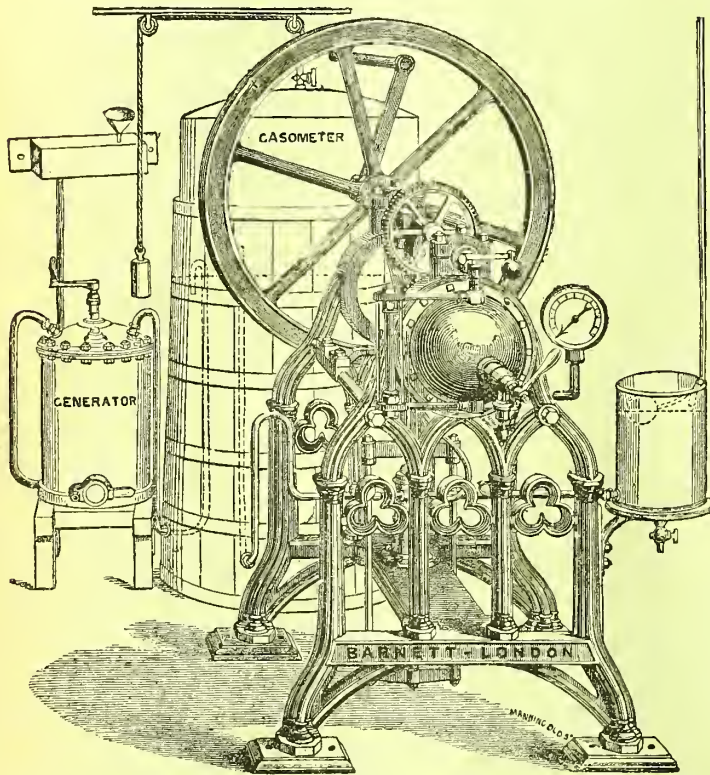
26^T FLEAGLE WHARF ROAD, LONDON, N.

THE "PRIZE MEDAL"

CONTINUOUS-ACTION

SODA WATER MACHINE.

SHOWN AS READY FOR USE FOR HAND OR OTHER POWER.



Consisting of the Machine in frame, Gasometer, Generator, Solution Pan, Index Cocks, Safety Valves and Pressure Gauge on Condenser, Pipes, Spanners, and Fittings complete.

This is the class of machine invariably chosen and used by all the experienced makers in England and throughout the world. There are many of these machines now at work, made by us *over forty years ago*, which have required no other attention than an occasional cup leather.

A SELECTED LETTER FROM SOME THOUSANDS.

From Mr. ROBERT BOLTON,
Port Chalmers, Otago, New Zealand.

January, 1884.

GENTLEMEN,—Please send me per first ship leaving for Port Chalmers direct one of your No. 1 Machines complete with bottling rack. I have been using one of your machines in Port Chalmers for the last **twenty years**, and it has given the greatest satisfaction, and I hope that the one you send me now will be the same.

Note!—The whole system of manufacturing aerated waters by our process is so simple that technical knowledge is not required as we give every information in our Book of Instructions and Recipes.

No. 1a	Machine	makes	1,500 doz. Large Bottles	per day...	...	...	£18	0	0
" 1	"	"	700 "	"	"	"	70	0	0
" 2	"	"	500 "	"	"	"	65	0	0
" 3	"	"	400 "	"	"	"	60	0	0
" 4	"	"	300 "	"	"	"	55	0	0
" 5	"	"	200 "	"	"	"	50	0	0

Any description of filling machines can be attached, either for cork, patents, or syphon bottles.

The above machines are all of the same design, the difference being only in size.

Note.—The above quantities are for lemonade or other saccharine drinks; if for splits, reckon double; if for highly-charged soda water, reckon half.

We supply these, where required, without gas-work, at the following prices:—

No. 1a,	£70.	No. 1,	£55	No. 2,	£50.	No. 3,	£45.
		No. 4,	£40.	No. 5,	£35.		

TURNOVER FILLING MACHINE.

FOR FILLING ALL KINDS OF INTERNAL STOPPERED BOTTLES.

(Foster's Patent), the original Inventor of Glass Syrup Pumps and Turnover Filling Machines.

“THE EXCELSIOR.”

This machine is fast superseding all other kinds for filling internal stoppered bottles, and will be found the most *serviceable*, *reliable*, and *economical machine* in the market.

This Filling Machine is a great improvement on any yet introduced for filling all kinds of internal stoppered bottles!! The regulating of the Syrup is done momentarily by means of the thumb-nut on the top, from zero up to any required quantity!! The rate of speed for filling any kind of internal stoppered bottles is 60 *doz. large* bottles syruped and filled, or 80 *doz. splits* per hour. The working parts are *self-contained*, and can be entirely disconnected off the Pillar for repairs or packing.

It is the quickest in filling!!!

It is the quickest for altering and adjusting syrup!!!

It is by far the strongest!!!

It is the cheapest because it is the strongest and quickest!!!

It is comparatively valveless, the water supply being through a disc. This we first introduced in 1879!!!

It is the simplest and most lasting!!!

It is the simplest to work!!!

Skilled labour is entirely dispensed with, as it can be worked with ease by a girl or boy!!!

It is not likely to get out of order, having but few working parts!!!

It is most economical and speedy in its operation!!!

It effects a great saving in gas, syrup, and water over any other machine!!!

An extra Glass Barrel for Syrup Pump is supplied at no extra charge!!!

These machines are now in use in every part of the world, giving the greatest satisfaction!!!

The only Syrup Pump where there is no strain on the Glass Barrel, consequently this never breaks. This Pump leather is self-tightening, and will wear and last for years without touching.

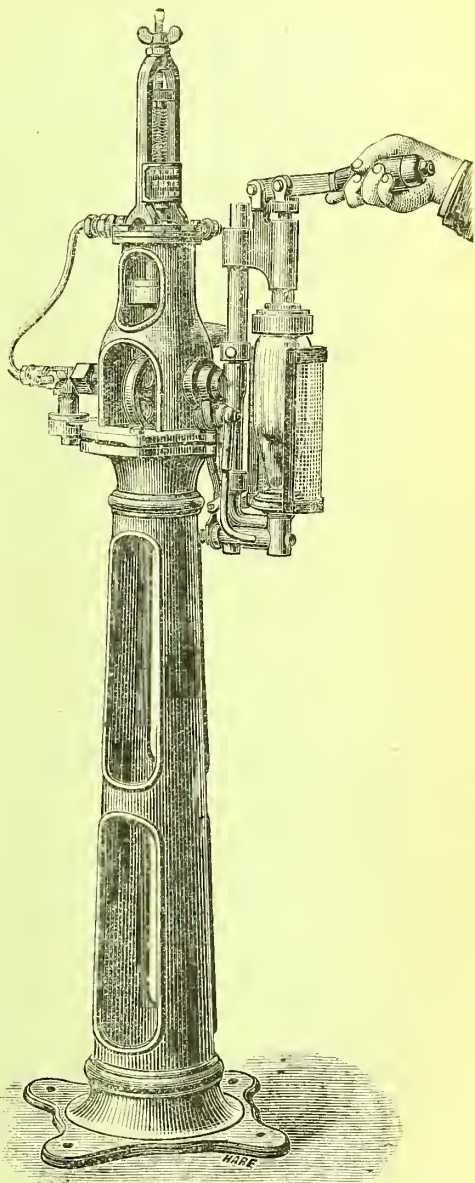
PRICE.

Complete, as above, with Glass Barrel, Syrup Pump, and all recent improvements £9 9 0

” ” Without Syrup Pump 7 0 0

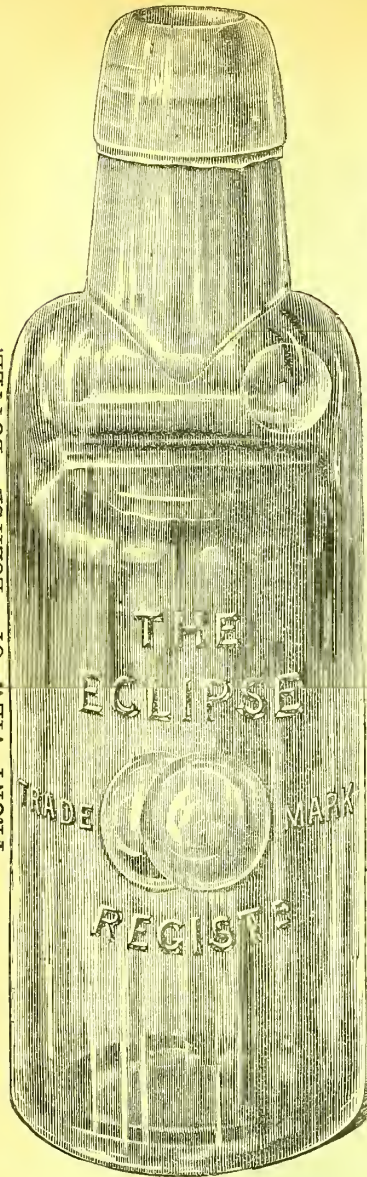
For filling the Disc or Wood Stoppered Bottles, a Sliding Tube is fitted, extra 1 1 0

NOTE!!—We give an extra Glass Barrel with this Machine, and a full Set of Spanners, WITHOUT EXTRA CHARGE.



26^T EAGLE WHARF ROAD, LONDON, N.

BARNETT & FOSTER, "NIAGARA WORKS,"



FRONT VIEW OF "ECLIPSE" BOTTLE.

ADVANTAGES OF THE NO. 2 "ECLIPSE" BALL-STOPPERED BOTTLE.

ITS APPEARANCE!!

Look which way you like, it is symmetrical in shape as compared with other kinds.

TWO WAYS OF POURING OUT!!

LARGER PASSAGE IN NECK FOR BRUSH TO PASS!!

FROM ITS SPECIAL SHAPE IT IS MUCH STRONGER!!

In consequence of some of the earlier patents of Codd's having expired, we are in a position to supply the "Eclipse" Ball-stoppered Bottle at the following reduced Prices, and free of annual royalty:—

Prices of the No. 2 "ECLIPSE" Bottle (as shown):

Prices of the No. 1 "ECLIPSE" Bottle (Bulb Neck):

	Export Prices. Per Gross.	Home Prices. Per Gross.
Split Size, 5 oz.....	£0 16 0 ...	£0 15 0
Large ,, 10 oz.....	0 18 0 ...	0 17 0
India ,, 12 to 14 oz.	0 19 0 ...	0 18 0
,, ,, 16 oz.....	1 0 0 ...	0 19 0

Name on Bottle free for orders of 50 gross, but under this quantity a charge of 10s. is made for engraving mould.

Packed in Crates holding 1 gross large, or 2 gross splits, 2s. 9d. each.
Packing Mats charged for, but allowed in full only when returned to the works.

These Prices are at our Works, Swinton, Yorkshire.

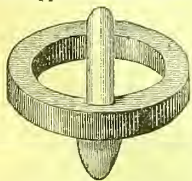
Extra Rings for Bottles, per gross, 2s.

When ordering Bottles, Boxes should be ordered at same time, as they travel safer; besides, it saves time or mess of straw in unpacking.



SIDE VIEW OF BOTTLE FITTED WITH PATENT TRIGGER OPENER.

Showing trigger fitted to rings as supplied to the Trade.



Plan of neck of bottle showing patent trigger opener attachment fitted into bottle when filled.

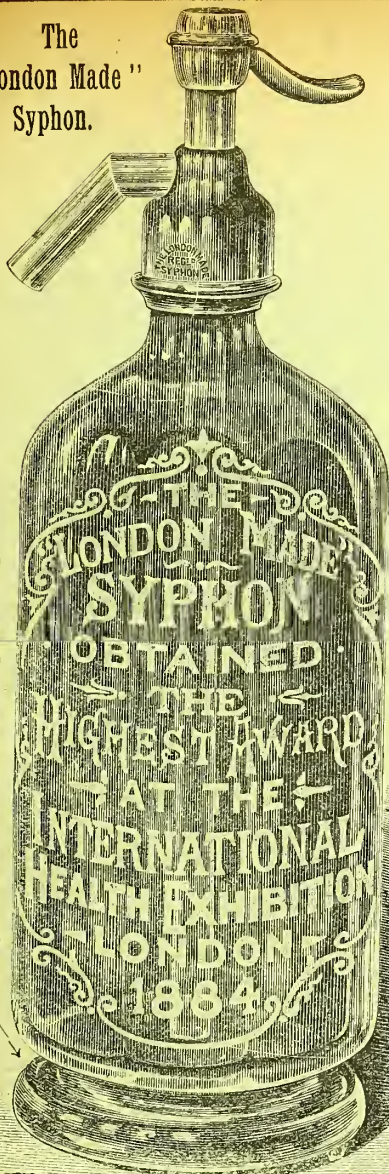
THE PATENT "TRIGGER - OPENER" ATTACHMENT TO BALL - STOPPERED BOTTLES.

Having obtained from the Patentee an exclusive right to manufacture the Trigger-Opener, we now introduce it for the first time to the Trade. It supplies a want long felt, namely, a safe and speedy means of opening Ball-stoppered Bottles, without the use of a separate cup-opener, which causes the rings to spring out of the groove in the bottle neck, besides sometimes breaking the neck of the bottle and cutting the hand of the operator.

This invention consists of a small piece of tinned metal in the form of a spear, which is inserted in the ordinary indiarubber ring; the bottle neck is formed with a vertical groove or slot, communicating with the annular groove for holding the ring. Into this vertical groove or recess the trigger lies: it is quite out of the way in brushing out the bottle. The bottle is filled in the ordinary manner. For opening the bottle it is only necessary to draw the trigger over towards the centre of the bottle, thereby making a passage for the gas pressure to pass behind the ring, when the ball immediately falls; the ring then regains its normal position. The trigger does not project beyond the mouth of the bottle, and will not therefore catch in anything to cause the bottle to open accidentally.

The
"London Made"
Syphon.

Note groove in base to catch drips from spout.



This Syphon Bottle is cheaper in price than any other in the market, and in quality the best, as it is by far the most perfect in workmanship and finish. The latest improvement is in the base, it being formed as a gutter, so that drips from the spout run down the side, and are caught at the foot. By this means the table is not soiled; this is a great desideratum, particularly in private houses.

PRICE.—Quart Size, per doz. 22/6 by the Gross, or 24/- per doz. in Smaller Quantities.

A charge is made for packing, except when ordered in our patent bin cases, holding 1 doz. each:—with lid 2/6 each; without lid 2/2 each. Holding half-doz.—without lid, 1/9 each.

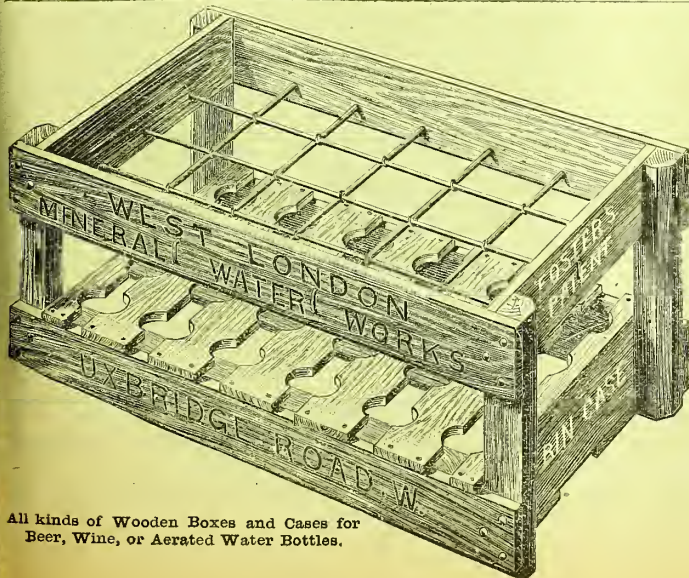
FOSTER'S PATENT "INTERMITTENT" SCREW-STOPPERED BOTTLE.



Foster's Patent Screw-Stoppered Bottle has several advantages:—Each Bottle has its own opener, i.e., the Screw Stopper! A small quantity of the contents can be taken at intermittent periods! No splashing in opening! Can be opened and emptied quicker than any other! And without Danger of Bottle Bursting!

Lignum-Vitæ Wood Stoppers, 10/- per gross.
Will not swell!
10-oz. BOTTLES 14/- per gross.
5-oz. " 12/- "

267 EAGLE WHARF ROAD, LONDON, N.



All kinds of Wooden Boxes and Cases for Beer, Wine, or Aerated Water Bottles.

FOSTER'S PATENT BIN CASE.

There are three very essential considerations in the construction of Boxes or Cases for the Mineral Water Trade which make the desideratum that should be looked for when purchasing:—

- 1st. Compactness.—So as to occupy as little room in the delivery van as possible.
- 2nd. Strength.—An important thing when it is considered to what rough usage boxes are subjected, and the many times they are shifted from place to place. They should be strong enough to stand all conditions of weather—either very wet or very dry, or the sun shining on them.
- 3rd. Weight.—This is very important, when horse-flesh is considered, as well as the handling of the cases.

The Bin Case, shown here (FOSTER'S PATENT), fulfils all the above conditions, for it is little more than half the weight of any 2 doz. case we have seen. The average weight being 16 lbs., while this one weighs on an average 7½ lbs. only. Regarding the strength, from its peculiar construction, it is impossible with any ordinary usage for it to separate or fall to pieces, as many cases do. The wires forming the divisions for the bottles are bent over at their ends, and clench the sides of the cases together; the upright end pieces are of elm, and the whole of the case is put together by galvanised iron nails; the wire divisions are also galvanised after making, so that as each square is tied together at its corners, extra strength is also added.

These Bin Cases and Foster's Screw-stoppered Bottles were selected by Messrs. Spiers & Pond for exclusive use at the Inventions Exhibition, London, 1885.

Price (per 100) 2s. each, for holding 2 doz. Bottles, Globe-stoppered or Foster's Screw-Stoppered Bottles, 10 or 5 oz. If fitted with Patent Lid, 6d. extra per case.

Made to suit any size or description of Bottle. Special quotations given.

Name and Address stamped on Cases free, on Orders of 50 and upwards at a time.

ESSENCES & INGREDIENTS

FOR THE MANUFACTURE OF ALL KINDS OF

AËRATED BEVERAGES.

Being large manufacturers of every requisite for the Laboratory of the Mineral Water Maker, and also being direct Importers of Essences, &c., we are in a position to supply at the lowest prices, consistent with quality; and being the inventors of most of the important Drinks, we are well acquainted with the method of manipulation to give the most satisfactory results.

In order to prove the quality of the Drinks made from our Ingredients, we shall be willing to send an assorted case of such, the charge being merely nominal.

OBSERVE! Brewers of Horehonnd, Herb, Sarsaparilla, and other Beers will find it more to their interests to make their Beers from our Concentrated Compounds, and with our Aërating Machine; besides being cheaper to make, a better article is produced, giving greater satisfaction to consumers, and, consequently, increasing trade.

No Excise Licence is required, and freedom from Excise prosecutions also is guaranteed.

PRESENT PRICES.

JULY 1886.

CONCENTRATED COMPOUNDS. (Title Registered.) These are complete, with every variety of flavouring, and only require the addition of Plain Syrup. For the manufacture of the very finest Lemonade, Ginger Beer, Ginger Ale, Orangeade, Sarsaparilla, Hot Tom, Champagne Cyder, or any of the known Fancy Drinks. Particularly recommended where an expert hand is not kept, and will be found the most economical way of making Flavoured Syrups... .. In 1-lb., 2-lb., and 5-lb. bottles } per lb. 2/-

FRUIT CHAMPAGNE (Title Registered) **CONCENTRATED COMPOUNDS.** For making Lemon, Orange, Raspberry, Strawberry, Ginger, Pear, and Pine-Apple Fruit Champagnes. We now supply these Compounds for use in the "Eclipse" Ball-stoppered Bottles. These should have our "Registered" Labels, and the head of the bottle fitted with tin capsules. Send for sample. In 1-lb., 2-lb., and 5-lb. bottles } per lb. 2/6.

☞ These command a higher price than ordinary Drinks, and are therefore more remunerative.

HEADING COMPOUND. The most perfect preparation for giving a rich creamy head to any liquor, and it being an anti-ferment, will be found the purest and best article in the market. One ounce to each gallon of syrup or liquor is sufficient } per lb. 2/-

NOTE THE REDUCED PRICES; QUALITY AS HERETOFORE!

FLAVOURED FRUIT SYRUPS, ready for use.

Made from the purest materials, and retaining the flavour and aroma of the fresh Fruit. For use with Counter Fountain, Syphon, or Gasogene. The following in stock:—

RASPBERRY, PINE-APPLE, STRAWBERRY, PEAR, ORANGE, CURRANT, LEMON, GINGER.

Price, per Gallon, in Stone Bottles 6/6.

In tastefully Labelled and Capsuled Bottles, as per illustration, to retail at 1/- and 1/9 each, subject to a large discount, according to quantity ordered.

☞ This will be found a useful and remunerative addition to the Trade.

For Export, we recommend our **CONCENTRATED COMPOUNDS**, for making Fruit Syrups. Saving Freight, Packing, &c.

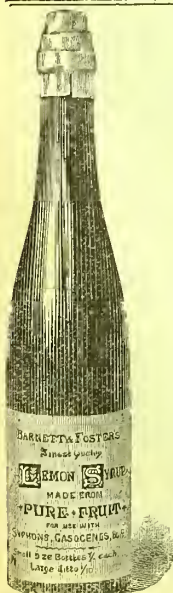
Liquefied Carbonic Acid Gas, in Iron Bottles, 10/- each.

Will aërate 2,000 bottles of Soda Water. This is less than cost of Sulphuric Acid and Whiting. Can be adapted to any kind of Soda Water Machine.

Jars, Tins, and Packages charged for, but allowed in full, when returned, carriage paid.

London: Spottiswoode & Co., Printers, New-street Square, E.C.

BARNETT & FOSTER, "NIAGARA WORKS,"



LEMON.
Purity.
This Oil is unsurpassed
for aroma and
strength.

ESSENCES.
Prepared from Selected
Fruit by Special
Process.

ESSENCES
for Baking purposes,
and Confectionery
of every
description.

ESSENCES
of every
description.
guaranteed purity
and exceptional
brilliance.

ALL MATERIALS
REQUIRED BY
Manufacturers,
Wholesale
Tobacconists,
Perfumers,
Soap Makers,
Biscuit Makers, &c. &c.

STEVENSON AND HOWELL.

FELLOWS OF THE CHEMICAL SOCIETY &c &c.

MANUFACTURING CHEMISTS

DISTILLERS AND IMPORTERS OF

ESSENTIAL OILS OF GUARANTEED PURITY

PURE CONCENTRATED

SOLUBLE ESSENCES.

FRUIT-ESSENCES

PURE COLORINGS OF EVERY DESCRIPTION

ANALYTICAL AND CONSULTING CHEMISTS
TO THE TRADE.

"Extra Quality"
Soluble Essence of
JAMAICA GINGER,
For Aerated Beverages,
Cordials, Syrups, &c.
This Essence is
unequalled.

FINEST
SOLUBLE ESSENCES
OF EVERY DESCRIPTION,
for the Preparation of Perfect
Cordials,
Syrups,
&c.

Soluble,
Brilliant,
Permanent,
COLOURINGS,
Of Guaranteed Purity,
for Brewers, Rectifiers,
Mineral Water
and Cordial
Makers.

American
FOAM SYRUP,
For giving a close Cream,
Head to all Beverages.
One Pound is sufficient
for 150 gallons of
Liquor.

AND ALL MATERIALS
REQUIRED BY
Manufacturing
Confectioners,
Wholesale
Tobacconists,
Perfumers,
Soap Makers,
Biscuit Makers, &c. &c.

STANDARD WORKS, 95, SOUTHWARK ST., LONDON, S.E. AND 128, HOPE ST., GLASGOW.

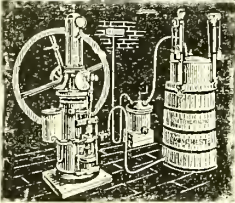
COPYRIGHT. ENTERED AT STATIONERS' HALL.

BRATBY & HINCHLIFFE,

Head Office SANDFORD ST. ANCOATS MANCHESTER. 146 MINORIES, LONDON E.C. NEW YORK, SYDNEY &

SODA WATER MACHINERY,

BRATBY & HINCHLIFFE, MANCHESTER & 146 MINORIES, LONDON.



No. 1.	Makes 150 dozen bottles per day of Pure Aërated Waters	... £28	0s.
" 2.	" 300 " " " "	... £44	0s.
" 3.	" 400 " " " "	... £48	0s.
" 4.	" 800 " " " "	... £56	13s.
" 5.	" 1,200 " " " "	... £68	3s.

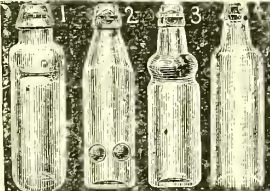
For larger sized plants send for Illustrated Catalogue.

Our Plants are complete with Soda Water Machine, Gasometer, Generator, Solution Pan, Acid Box, &c., &c., and are the Strongest and Most Durable Plants in the Market, besides being considerably less price than other makers'.

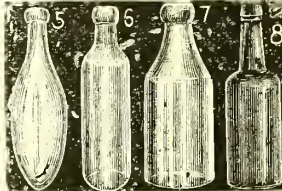
COMPARE OUR PRICES WITH OTHER FIRMS'.

BOTTLES,

BRATBY & HINCHLIFFE, MANCHESTER & 146 MINORIES, LONDON.



Ask for
Quotations.
State
Quantity.

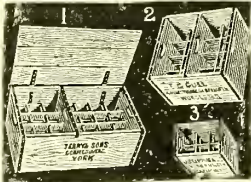


Ask for
Quotations.
State No. of
Bottle.



BOXES,

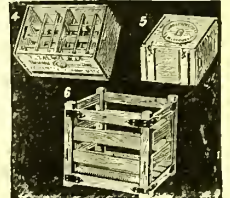
BRATBY & HINCHLIFFE, MANCHESTER & 146 MINORIES, LONDON.



Our Boxes and Cases are the most suitable, handiest, and most durable of any in the market. By their use breakage in boxes is reduced to a minimum.

SEND FOR QUOTATIONS.

STATE QUANTITY WITH NO. OF BOX.



For Filling all kinds of Internal Stopped Bottles

"THE MONARCH" TURNOVER FILLING MACHINE

IS THE BEST. Practical men give it the preference over its competitors. Price £9 9s.

BRATBY & HINCHLIFFE,

Head Office SANDFORD ST. ANCOATS MANCHESTER. 146 MINORIES, LONDON. &c. NEW YORK, SYDNEY &c.

ESSENCES,

BRATBY & HINCHLIFFE, MANCHESTER & 146 MINORIES, LONDON.



SOL. ESS. Lemon	SOL. ESS. Phosphorus and Iron	SOL. ESS. Cloves
" Ginger Ale, special	" Raspberry	" Tonic, for Tonic Water
" Orange, sweet	" Vanilla	" Capsicine
" Orange, bitter	" Aniseed	" Apricot
" Ginger, aromatic	" "Hot Tom"	" Cherry, very fine
" Capsicum	" Orange Bitters	" Currant, Black
" Horehound, pure	" Rose	" " Red
" Pear, Jargonelle	" Spiced Ale	" Perry
" Pine-apple	" Cinnamon	" Ri-stone Pippin

ESSENTIAL OILS.

OIL, Lemon, XXX super, new season's	OIL, Citron	OIL, Limes	OIL, Otto of Roses
OIL, Orange, finest extra, super sweet	OIL, Cloves, English	OIL, Neroli, extra super	OIL, Peppermint

CONCENTRATED FRUIT EXTRACTS. | **FRUIT SYRUPS AND CORDIALS,**
Salts, Chemicals, and all Sundries for Aerated Water Trade.



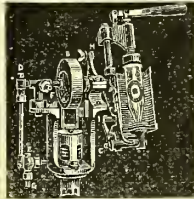
NEW PATENTED CITROCHLORIC ACID.

Entirely supersedes Citric and Tartaric Acids at one-half the cost of either.

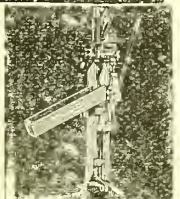
Why pay 2s. 6d. per lb. for Citric and Tartaric Acids when our CITROCHLORIC can be had for 10d. per lb.?

SODA WATER MACHINERY.

BRATBY & HINCHLIFFE, MANCHESTER & 146 MINORIES, LONDON.



THE
"MONARCH"
TURNOVER FILLING MACHINE.
The best for filling all kinds of internal-stoppered bottles.
Price £9 9s.

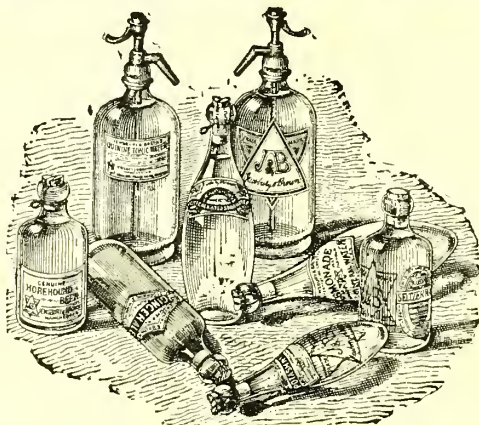


THE
"RAPID"
CORK BOTTLING MACHINE.
Entirely dispenses with steam bottles.
Price £15 15s.
Soots, guard, and self-acting kicker included.

BRATBY & HINCHLIFFE draw the attention of the trade to the fact that they are no longer agents but *bonâ-fide* makers of all kinds of Soda Water Machinery, consequently they are enabled to place in the market their goods at a considerably reduced price; at the same time our machinery, especially our Filling Machines, are the result and study of a practical working experience. Send for our latest testimonials, which conclusively prove the superiority of our "Monarch" over other makers', whose filling machines we have ceased to send into the market since the introduction of our own.

JEWSBURY & BROWN'S (MANCHESTER) SPARKLING TABLE WATERS, UNRIVALLED FOR PURITY AND QUALITY.

SODA WATER.
SELTZER WATER.
POTASH WATER.
LITHIA WATER.
SIMPLE
AERATED WATER.



LEMONADE.
GINGER ALE.
QUININE & TONIC.
GINGER BEER.
HIREHOUND BEER.

EXTRACTS FROM ANALYTICAL REPORTS.

"The examination of the Waters which I have made has satisfied me that they have been prepared with the greatest care, and are of excellent quality."

FRANCIS JONES, F.R.S.E., F.C.S.

"On the whole, I have no hesitation in stating that your Aerated Waters are of the highest standard of purity which is practically attainable."

LOUIS SIEBOLD, F.I.C., F.C.S.

"The Lemonade is, for flavour and general excellence, superior to any similar compound which I have examined, and contains no acid but Citric Acid."

"I took a sample of the water used in your manufactory, in the preparation of the Aerated Waters, and found it, as was the case with the completed compounds entirely free from lead, copper, or any injurious matter whatever."

C. ESTCOURT, F.C.S., F.C.I.

J. & B.'s Syphons are mounted with PURE BLOCK TIN, thus ensuring absolute immunity from dangerous metallic contamination

113 MARKET STREET, and 44 DOWNING STREET, MANCHESTER.

REDUCED PRICES.

FEVRE'S SELTZOGENES.

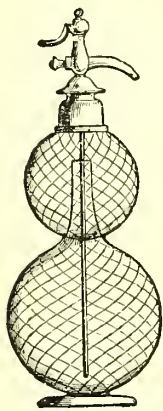
Caned, each	2 PINT. 8/9	3 PINT. 10/2	5 PINT. 15/3	8 PINT. 26/
Wired, each	2 PINT. 8/3	3 PINT. 9/9	5 PINT. 14/6	8 PINT. 24/6

£2 worth or more, 5 per cent. discount.

MAY, ROBERTS & CO., 9 CLERKENWELL ROAD, LONDON, E.

Temporary Address during Rebuilding of Premises—9 MOOR LANE, E.C.

Telegraphic Address—"MOAB LONDON."



116 MINORIES LONDON E.C. BOXES BOTTLES MACHINERY
New York ESSENCES
Sydney Catalogues Circulars Testimonials
S. & S. Post Free

SODA WATER MACHINERY

AND ALL ACCESSORIES FOR THE TRADE

BRATBY & HINCHLIFFE

HEAD OFFICE
SANDFORDS ANCOATS, MANCHESTER

W. MEADOWCROFT,

MANUFACTURING CHEMIST,

MANUFACTURER OF ALL

FRUIT ESSENCES,

Acids, Colourings, &c., used in the Mineral Water Trade.

MEADOWCROFT'S

CONCENTRATED

SOL. ESS. OF LEMON.

This Essence is more than double the strength of any other on the market, and in use effects a saving of from 10 to 20 per cent. It is made by an entirely new process, which enables me to preserve the fresh flavour and aroma of the fruit, and at the same time make it perfectly soluble and of great strength.

One oz. is quite sufficient for 13 doz. small bottles of the most delicious Lemonade.

Price 7s. per lb.; 10 lbs., 6s. 9d. per lb.

GINGER ALE ESSENCE.

Perfectly soluble, splendid flavour, and of great strength.

Half oz. is sufficient for 13 doz small bottles of the finest Ginger Ale.

Price 7s. 6d. per lb.; 10 lbs., 7s. 3d. per lb.

AGENT FOR

GALLOWAY'S SODA WATER MACHINERY,

AND

HASSALL'S PHOSPHO-CITRIC ACID.

Catalogue, Price List, and Samples on application.

OLD BANK STREET, BLACKBURN, LANCASHIRE.

GUÉRET FRÈRES,

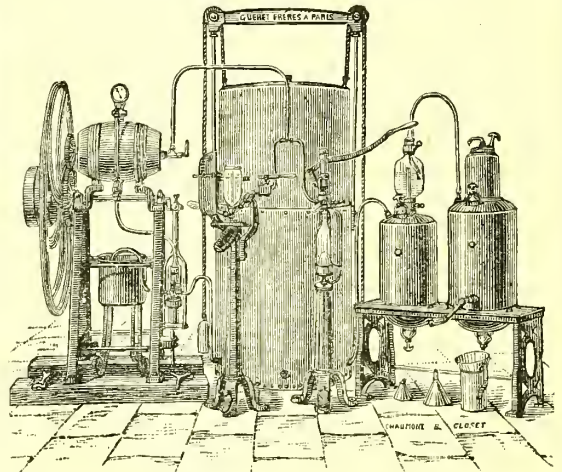
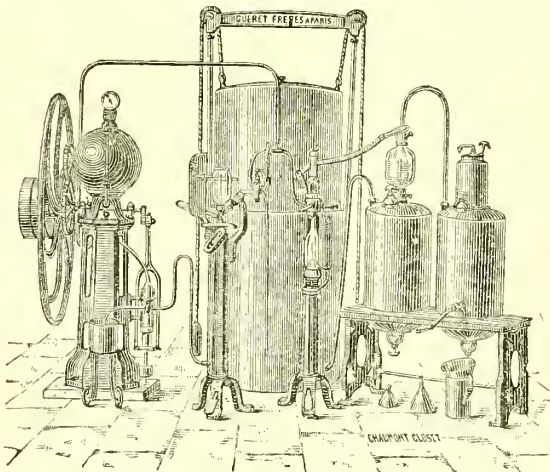
Mechanical Engineers, privileged in France and Abroad,
72, BOULEVARD DE LA GARE, PARIS.

GOLD MEDAL, AMSTERDAM, 1883.

PLANT & SYPHONS FOR THE MANUFACTURE OF AÉRATED BEVERAGES,
WITH ALL THE LATEST IMPROVEMENTS.

COMPLETE CONTINUOUS APPARATUS, SPHERICAL OR PEAR-SHAPED.

The Saturator is of brass, guaranteed free from every defect in construction and perfect in action, tested at high pressure, combining economy with the greatest sanitary security, and enjoying an unrivalled reputation.



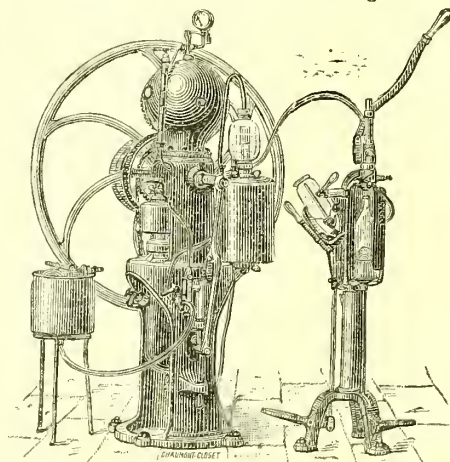
SYPHONS

With small levers, fittings of metal of highest quality, and best glass.



CONTINUOUS APPARATUS

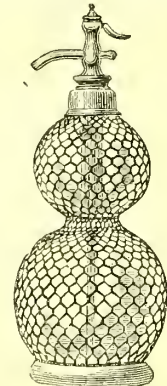
For the automatic generation of carbonic acid gas, the only practical system applicable to the manufacture of Aérated Beverages.



GAZOSELTZ

For the instantaneous production of Aérated Beverages at table.

Any one can use them.



FULL PARTICULARS AND GENERAL CATALOGUE SENT ON APPLICATION.

ONLY PRIZE MEDAL,



LONDON, 1881.

READ

THE FOLLOWING SELECTIONS FROM

OVER 300 TESTIMONIALS

RECEIVED FROM

MEDICAL MEN, CHEMISTS, and HOSPITALS respecting the Waters manufactured by

THE CHEMISTS' AERATED & MINERAL WATERS ASSOCIATION, LTD.

HIGHEST PRIZE MEDAL



BRADFORD, 1882.

From J. THOMPSON, Esq. (Messrs. MAW, SON & THOMPSON),
7 to 12 Aldersgate Street, London, E.C.

Both the Soda and the Potash Water are in my opinion excellent.
Signed, J. THOMPSON.

From J. CAMERON, Esq., M.D., &c., Medical Officer of Health, Hendon, N.W.
Dear Sir,—Having used and examined the waters prepared by the Chemists' Aerated and Mineral Waters Company, I am of opinion that they are of pure quality, well charged with gas, and, being prepared according to the formula of the British Pharmacopœia, they contain a fixed quantity of various salts, which are useful in the treatment of disease.

I am, dear Sir, yours truly,
Signed, JAMES CAMERON, M.D., &c.

From A. S. THORBURN, Esq., M.D., L.R.C.S., 7 Catherine St., Strand, W.C.
To the Secretary,

Dear Sir,—I have used your waters for some years, and am so perfectly satisfied with the quality, purity, and aëration, that I recommend them with confidence to my patients. I think that your system of making waters up to strength as prescribed by the British Pharmacopœia and stating that fact on bottles, &c., is an excellent one, and one that I have not noticed elsewhere.
(Signed) A. S. THORBURN, M.D., L.R.C.S.

From ST. JOHN'S HOSPITAL FOR DISEASES OF THE SKIN,
Leicester Square, W.C., and Markham Square, S.W.

Dear Sir,—I have much pleasure in answering your question as to the feeling that has been expressed by the authorities of this hospital in reference to the mineral waters supplied by the Chemists' Aerated Waters Association. Allow me to state that we have now used your Association's waters for a considerable time and we have invariably found them as good as good could be; I have not once had any complaint as to them—on the contrary.

Yours truly,
Signed, ST. VINCENT MERCIER, Secretary.

From the NORTH LONDON CONSUMPTION HOSPITAL, Mount Vernon,
Hampstead.

Dear Sir,—I have much pleasure in saying that the aerated waters supplied by your Association to the North London Consumption Hospital for several years were very good in quality and purity.

Yours faithfully,
Signed, W. HORNIBROOK, Secretary.

CONSULTING CHEMIST TO THE ASSOCIATION,

WILLIAM FOSTER, M.A. (Camb.), F.C.S., Fellow of the Institute of Chemistry, Professor of Chemistry at the Middlesex Hospital, &c., &c.

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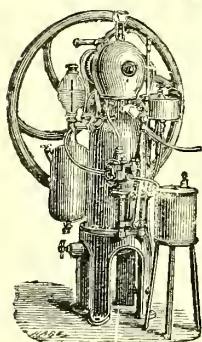
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MEDAL, New Zealand Exhibition, 1882.

GOLD MEDAL, Canadian Exhibition, 1882.

SILVER & ONLY MEDAL, International Food Exhibition, London, 1881.

ONLY MEDAL, International Food Exhibition, London, 1880.

GOLD MEDAL, Calcutta Exhibition, 1884.

SILVER MEDAL, International Temperance Exhibition, 1881.

THREE BRONZE MEDALS, Toronto Exhibition, 1884.

THE SPECIAL GOLD MEDAL, Dominion Exhibition, Canada, 1883.

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Chemists—to each of whom direct reference is permitted.

NORTH.

ROTHERHAM, *Jan. 2, 1886.*
 Your Teas are giving great satisfaction in this district. The London Broken Tea is splendid value, and has won for itself a large consumption. It is only necessary to induce families to try these Teas to secure for them a permanent sale.

HUMPHREY DAVY.

CHESTERFIELD, *Dec. 30, 1885.*
 I tried several Tea Agencies in succession, and was dissatisfied with the result, as I failed in each case to establish an increasing demand. Early in 1879 I was induced to take your Teas, and the following is, I believe, a correct statement of the quantities I sold during the first five years:—1879, 979 lbs.; 1880, 3,243 lbs.; 1881, 4,398 lbs.; 1882, 4,755 lbs.; 1883, 6,367 lbs. I have had a steadily increasing demand from the first, and am convinced that your Teas are better value for money than any wrapped Teas offered.

ALFRED LOWE.

YORK, *Jan. 7, 1886.*
 Having been your Agent for some years, I think it only fair to say that the sale of your Teas and the satisfaction they have given to my numerous customers is highly gratifying; and, in my opinion, you place your Agents in a position that enables them to compete with anyone else in the Trade.

W. T. HEY.

SOUTH.

SALISBURY, *Jan. 1, 1886.*
 Since I have had the Agency for your Teas, which is about five years, the sale has been steadily increasing. My customers speak in the highest terms of the Teas, and I find that when a trial has been made a regular customer is the result.

JOHN ROWE.

FOWEY, CORNWALL,

Jan. 1, 1886.

I have always found a ready sale for your Teas, and they are much appreciated by all my customers. I sell double the quantity I did at first.

J. WELLINGTON.

HERNE HILL, S.E.

Jan. 6, 1886.

I accepted the Agency for this district about twelve months ago, since which time the sale has gone on steadily increasing. Some of my customers say that the London 2/- Tea is quite equal to what they have been procuring from their grocer at 2/6, 2/8, and 3/-.

JOHN MORTIBOY.

EAST.

GREAT YARMOUTH, *Dec. 31, 1885.*
 It is now above four years' since I commenced to sell your "London Teas," and I must confess that when I ordered the first half chest I did not expect to sell it, but am now pleased to be able to say that it sold without difficulty, and created a demand that has ever since been increasing, and has far exceeded my most sanguine expectations.

W. SHEPPARD POLL.

GRIMSBY, *Dec. 30, 1885.*
 I have been a retailer of packet teas thirty-two years, but was never able to give my customers such good value for their money before as I have been since I accepted your Agency, upwards of four years ago. I have never had the slightest complaint respecting your Teas, but customers are constantly saying they are the best Teas to be had in the town.

ENOCH PALMER.

WOODBIDGE (Population 4,525),

Jan. 1, 1886.

Since my introducing your Teas in March, 1883, I have sold ten times more than before. The average sale for 1884 and 1885 has been 2,657 lbs. per annum. I am daily receiving gratifying testimonials of the superior quality, blend, and flavour of the "London Teas."

EDWARD J. EATON.

WEST.

BANGOR, *December, 1885.*
 The sale of the Tower Teas with us, considering we do not keep sugar or groceries, has realised our most sanguine expectations, as our last order, over half a ton, will go very soon.

Before your Agency we had tried two others, and failed to sell 28 lbs. in a month.

HAMILTON & JONES.

PEMBROKE, *Dec. 31, 1885.*
 I have much pleasure in hearing testimony to the superior quality of the Teas I have received from you during the five years I have been Agent. The increased sales year by year will be sufficient guarantee of the public appreciation of it. I consider it wonderful value, and of a uniform quality and flavour. I sell twelve chests for every one I used to do in the old style. R. ORMOND.

BISHOP'S CASTLE, *Jan. 2, 1886.*
 I have found the "London Teas" sell very well and please every class of customers. My sales in two years have increased between 60 and 70 per cent., and are still advancing—and, as you are aware, I now order from you every fortnight.

GEO. STRAWSON.

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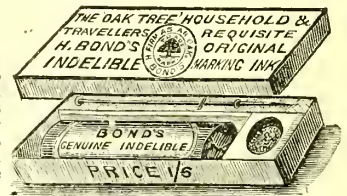
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TWO INJUNCTIONS have been obtained by my predecessors (W. and A. W. Christian) restraining the use of the name of Henry Bond's Marking Ink, one as recently as the 17th November 1882, in the Supreme Court of Judicature Court of Appeal against F. J. Bond, restraining defendant, his servants and agents, from selling Marking Ink in bottles wrapped or labelled so as to represent Henry or H. Bond's Marking Ink, sold by plaintiff, or so as to imitate wrappers or labels used by plaintiff and their predecessors in business.

IMPORTANT TESTIMONIALS.

I hereby certify that I have had 60 years' experience in writing, 40 years have been devoted to Marking of Linen, Silk, Cambrie, and Cotton for several members of nobility, West End clubs, &c., and I have preferred Mr. H. Bond's Oak Tree Marking Ink to any other preparations, as it retains its colour after severe tests.

Dated 16th January, 1886.
To Mr. Jas. Christian.

(Signed) JOHN PARSONS PICKARD,
Under the patronage of the Queen.
1st July, 1886.

Dear Sir,—In reply to your inquiry we have pleasure in stating that for many years past we have sold large quantities of your "H. Bond's Oak Tree Marking Ink," seldom, if ever, receiving complaints of same.

To Mr. J. Christian.

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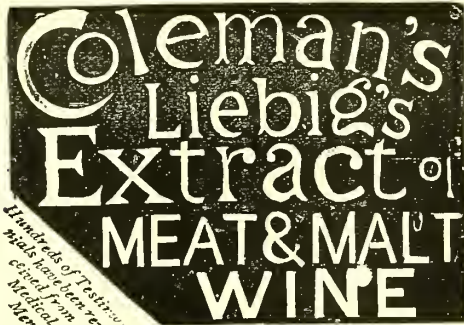
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Is acknowledged by all to be the most convenient and economical preparation ever introduced, as, by its use, a most Rich and Delicious Blanc-mange may be produced in a few minutes at a trifling cost, and may be had of various flavours, *i.e.*, Raspberry, Strawberry, Lemon, Almond, and Vanilla. Sold in Packets, 6d. and 1s. each.

Goodall's
Egg Powder

Acknowledged to be the only real substitute for eggs yet discovered. Its action on Cakes, Puddings, &c., &c., resembles that of the egg in every particular, enriching them in colour and flavour, rendering them most wholesome and nutritious. One penny packet will go as far as four eggs; and one sixpenny tin as far as twenty. In 1d. Packets; 6d. and 1s. Tins.

SOLE MANUFACTURERS—

GOODALL, BACKHOUSE & CO.,
WHITE HORSE STREET, LEEDS.

A monthly Price List of Druggists' Sundries, Patent Medicines, &c., can be had post free on application.

VEGETABLE BUTTER COLOURING

(OF OUR OWN MANUFACTURE),

FOR imparting to the Butter at all seasons of the year that rich cowslip tint which is such a desideratum to all producers. It is rapidly superseding the Danish and all other makes, being more efficient and cheaper; it does not crust on the bottles, as the case with the foreign preparations; is free from Aniline, and does not colour the Buttermilk.

To Purchasers of Bulk it affords a considerable source of profit, and is well worth the attention of Druggists in the agricultural districts.

Price $1\frac{1}{2}$ per lb.; 1 in 2 gal. Bottles.

Special Terms to large consumers.

To meet the views of many of our friends, we have commenced to put this article up in bottles also, under the title and trade-mark of the "Silver Churn." It is very attractively got up, and will command a ready sale; the bottles contain more than either Danish or American, while the price to the retailer is lower than that of any other Butter Colouring in the Market.

Price in Bottles { 6d., 1/-, 2/- Size } Less 10 per cent. Discount.
 { 4/- 8/-, 16/- Per doz. }

A handsome Show Card, printed in colours, and suitable Counter Bills may be had on application.

Copy of Testimonial just received (May 18, 1886), from one of the largest Dairy interests in the country:—

"We have subject'ed your Silver Churn Butter Colouring to a protracted and severe trial, and it appears to us to be the very best article obtainable; the absence of any objectionable taste and smell, the beautiful straw colour imparted to the butter, as well as the very small quantity required, combining to render it both efficient and economical. We have found a teaspoonful sufficient for 24 quarts of cream at this season of the year.

"By continuing the manufacture of a quality equal to that you have supplied to us, you cannot fail to secure the good opinion and patronage of all users."

PROPRIETORS AND MANUFACTURERS—

OLDFIELD, PATTINSON & CO.,

WHOLESALE DRUGGISTS,

17 TODD STREET, MANCHESTER.

May be ordered through any Wholesale House, or of our

London Agent—B. SUART, 24 Queen Victoria St. (who holds Stock of all sizes).

Liverpool Agents—AYRTON & SAUNDERS, Duke Street.

NOTICE
TO CHEMISTS AND
MANUFACTURERS.

A REAL TIME, LABOUR,
AND MONEY SAVER.

DESIDERATUM MIXER

BRACHER'S PATENT

UNSOLICITED TESTIMONIALS IN FAVOUR OF THE "DESIDERATUM" MIXER (BRACHER'S PATENT).

GENTLEMEN,—Having for the past ten years been engaged in mixing quantities of Powders, I have been on the look-out for a machine to do the work, but have been disappointed on three occasions. Yours is the only one I know of that combines the three operations of Crusher, Sifter, and Mixer, and is free from the wedging, so troublesome in other machines. After six months' trial, mixing nearly 1 cwt. per week, the apparatus is as good as new, and anyone who can turn a handle may be trusted to mix powders, as it is impossible to turn out lumpy and unmixed material with Bracher's machine.

White Horse Street, Bear Lane, Leeds, June 1st, 1886.
DEAR SIRS,—The Patent "Desideratum" we had from you 3 mo., 25/85, answers our purpose. We are, dear sirs, yours respectfully,

Messrs. BRACHER & CO.

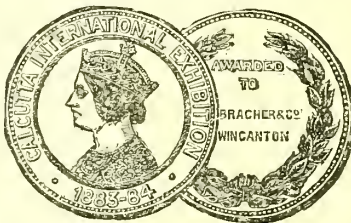
GOODALL, BACKHOUSE & CO.

GENTLEMEN,—I think it only fair to tell you that I am delighted with the "Desideratum" Mixer you supplied me with last summer. I mix Custard Powders, Tooth Powders, Violet Powders, as well as the Crown Veterinary Powders, for all of which purposes it answers admirably. Wishing you the success you deserve,

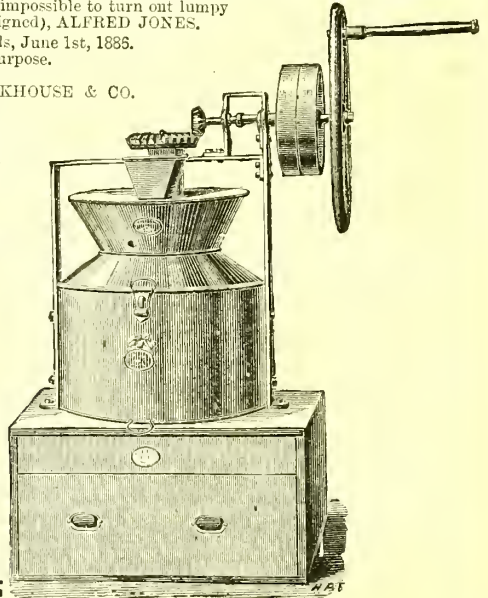
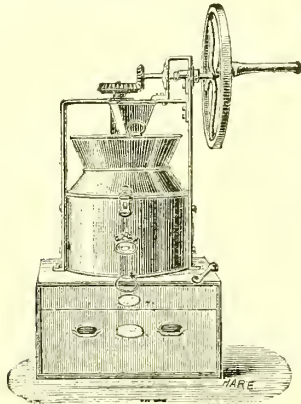
Messrs. BRACHER & CO.

I am, Gentlemen, yours very truly,
JOHN GRINSTED.

CALCUTTA INTERNATIONAL
EXHIBITION.



GOLD MEDAL.



Send for Illustrated Price List and full particulars, Post Free.

BRACHER & CO., WINCANTON AND YEOVIL, SOMERSET.
* * All Communications to be addressed to Wincanton.

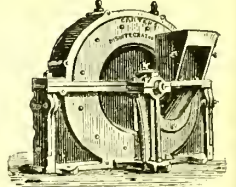
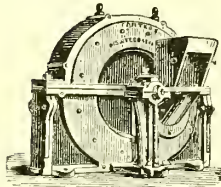
CARTER'S DISINTEGRATORS,

FOR GRINDING ALL KINDS OF DRUGS, CHEMICALS, OIL SEEDS, &c.

A SPECIAL SMALL SIZE, No. 0, PRICE £16, IS NOW MADE,

To SUIT CHEMISTS, DRUGGISTS, GROCERS, and others, who have
ONLY SMALL POWER AT COMMAND.

This will GRIND EFFECTIVELY SUGAR for Icing and Lozenges,
LINSEED for Poulticing Purposes, GINGER, PEPPER, COFFEE, SPICES
of all kinds, SALT for Table Use, ALMOST ALL KINDS OF DRUGS,
CHEMICALS, SEEDS, &c., &c.



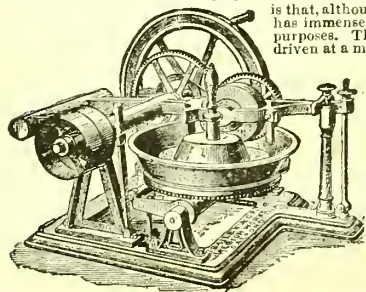
SEND FOR PARTICULARS, AND SEND SAMPLES OF ANY MATERIALS
AND SEE THEM GROUND.

J. HARRISON CARTER, 82 MARK LANE, LONDON; and PARIS.
Telegraphic Address—Milling London. Telegraphic Address—Cylindres Paris.

BAILEY'S MINTON-WARE BOWL DRUG MILL.

(GARR'S PATENT.) FOR HAND OR POWER.

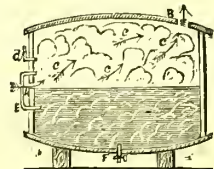
Will reduce Crystals to an impalpable powder. The chief feature of this machine is that, although it can be turned with ease, it has immense frictional power for levigating purposes. This is caused by the runner being driven at a much greater speed than the bowl.



Diameter of Bowl, 18 inches.
Price, £11.
Lists, &c., on application.

Mr. J. DUTTON, Rock Ferry, Birkenhead, says:—"The Mill you sent me answers admirably for powdering all kinds of Salts, and for many other things, such as Opium, Scammony, Soap, Almonds, Mace, &c. It also effects a great saving of time and labour in mixing various Powders, such as Tooth Powder, Lemon and Kali, &c., and proves a very useful apparatus in the shop."

W. H. BAILEY & CO., ALBION WORKS, Salford, MANCHESTER.



NEW METHOD OF MAKING VINEGAR, BY THE REVOLVING APPARATUS (Michaelis' Patent).

For further particulars
See the Chemists' and Druggists' Diary, 1884, page 274,
OR APPLY TO

PAUL ROTHERMEL,
105 (late of 27) LEADENHALL ST., LONDON

BUTTER COLOURING IN PERFECTION.

BUNSEN'S

BUTTER COLOURING

IS A PURE VEGETABLE EXTRACT.

Perfect in Shade! Without Smell!! Without Taste!!! Does not colour the Butter-milk!!!! Preserves the Butter!!!!!! And is fully double the strength of the best Danish!!!!!!

Sold in bottles, 6d., 1s., and 2s. 6d. each; in $\frac{1}{2}$ gallon, 1 gallon, and 2 gallon tins, and in casks of 50 gallons.
PRICES ON APPLICATION. AGENTS WANTED.

MANUFACTURED BY

BUNSEN, BENSON & CO., 80 FANN ST., BARBICAN, LONDON, E.C.

M. A. CRAVEN & SON,
WHOLESALE AND EXPORT CONFECTIONERS,
MAKERS OF

Medicated Lozenges, Refined Liquorice, Jujubes, and every description of Confectionery,
IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS.

EBOR CONFECTIONERY WORKS.
YORK.

Lozenges of all descriptions made from Customers' private formulæ (or ingredients), and stamped with any name or device.

SPECIALITIES—Cough, Peppermint, Rose, Musk, Bouquet, Cachou, and all kinds of Medicated Lozenges.
ESTABLISHED 1843 PRICE LIST ON APPLICATION.

MEDICATED LOZENGES.

T. BAGE BLYTON & CO.,

(Successors to RICHARD TWEMLOW),

PHARMACEUTICAL CHEMISTS, and Manufacturers of BRITISH and THROAT HOSPITAL PHARMACOPŒIA and every description of

MEDICATED LOZENGES, MEDICATED TABLETS, etc.

PROPRIETORS OF

TWEMLOW'S CHLORODYNE LOZENGES, BRONCHIAL LOZENGES, AND WORM TABLETS.

Chemists' own Formula made up and stamped as required. Samples and Price Lists will be sent upon receipt of Business Card.

Sole Proprietors of TWEMLOW'S CHLORODYNE.

T. BAGE BLYTON & CO., 76 Gordon St., Lower Broughton, MANCHESTER.

BLACKWELL'S
GENUINE
DURHAM BULL
TOBACCO
AND
CIGARETTES
(NORTH CAROLINA, U.S.A.)

BLACKWELL'S
DURHAM LONG CUTS,
FOR PIPE AND CIGARETTES.

FREE FROM NITRATES AND NICOTINE.

Disinterested Testimony of the highest character, which proves that
"BLACKWELL'S DURHAM LONG CUT"
Is Superior to any Tobacco ever before offered to the Public.

Dr. AUGUST VOELCKER, F.R.S., *Consulting Chemist to the Royal Agricultural Society of England, after making a thorough analysis of the organic and inorganic parts of various samples of Leaf Tobacco, says:—*

"With regard to the Leaf Tobacco from which 'BLACKWELL'S DURHAM LONG CUT' is manufactured, I find in this magnificent Tobacco merely traces of Nitrates, which, perhaps, is one of the reasons this Tobacco has a very mild taste, for in all biting, strong Tobaccos I find, invariably, that Nitrates are present in considerable proportion. Another and still more important fact which my analysis has brought to light is that this Tobacco contains so little Nicotine, which I am inclined to regard as a good feature. Strong and inferior Tobaccos are found to contain much more Nicotine—some as high as three or four times as much as I find in this."

The section of the country to which Durham is the natural outlet is especially adapted to the growth of this Leaf, and we secure the pick of these offerings, and manufacture them into "BLACKWELL'S DURHAM LONG CUT." Herein it is we claim that for a FINE, PURE SMOKE, DELICACY OF TASTE AND FLAVOUR, we offer an article unsurpassed by anything on the market.

BLACKWELL'S
GENUINE DURHAM BULL
SMOKING TOBACCO.

BLACKWELL'S Durham Tobaccos, being pure and unsweetened, pass the Customs as such, and do not require the extra Wrapping and Stamp Duty.

FOR SAMPLES AND PRICES APPLY TO THE SOLE CONSIGNEES—

INGRAM & ROYLE,
52 FARRINGDON STREET, LONDON, E.C.,
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A NEW TRADE FOR CHEMISTS!

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NEW CATALOGUE, WITH ALL THE RETAIL PRICES,
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ALL CHEMICALS USED IN PHOTOGRAPHY,
DRY PLATES, NEGATIVE VARNISHES, COLLODION, APPARATUS, LENSES,
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CAN BE PURCHASED AT WHOLESALE RATES IN THE SMALLEST QUANTITIES FROM

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Who are prepared to give instruction in the art of Photography FREE OF CHARGE, and every information to Chemists who propose to lay themselves open to do a trade in Photographic Requisites with Amateurs, Professionals, &c.

PRICE LISTS POST FREE.

Complete Sets of Apparatus from £2 2s. to 30 Guineas.

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APPARATUS AND MATERIALS
OF ALL KINDS.
Porcelain, Glass, and Papier Maché Dishes.
CARD AND VIEW MOUNTS, ETC.

NEW WHOLESALE PRICE LIST for DEALERS ONLY
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CHEMICAL & PHOTOGRAPHIC APPARATUS,

Glass, Porcelain, Metal, and Wood Apparatus of all kinds.

"New Models" made for Inventors; Repairs, &c.

SILVER MEDAL, INVENTIONS EXHIBITION.

FACTORY AND WAREHOUSE—

8 & 9 KINGSLAND GREEN, LONDON,

One Minute from Dalston Junction, North London Railway.



ARTIFICIAL HUMAN EYES

(GLASS),

Excellent quality, £8 15s. per 100.

MEDICAL THERMOMETERS, on massive tubes, length about 4½ in., in boxwood holders, 16/ per doz.; in nickel ditto, 18/ per doz.

CHEMICAL THERMOMETERS on massive tubes, divided from 0-360 deg., C., 21/ per doz.

MERCURIAL AIR PUMPS (Geissler's System), complete £5 each.

OSCAR BOCK, Sen., Lichtenhain, n/ Oberweissbach, Germany.

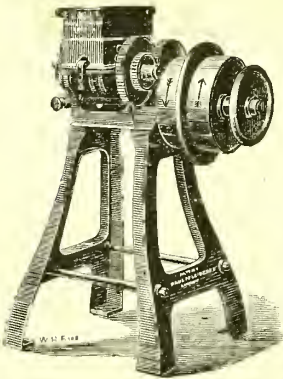
REFERENCES REQUIRED.

WILL IT PAY???

to sell your own proprietaries? Yes, more than cent. per cent. if you manufacture them from reliable recipes. Brooks's have stood the test over six years. See his continuous advertisements; send for detailed list of 300 (free), from which are extracted the following:—**Toothache Cure**.—An entirely new and original remedy; gives instant ease without injury to other teeth; one trial will prove; large sale certain. **Cryptozymosis**.—Never-failing remedy for gleet and all urinary discharges in either sex; may be relied on when other remedies fail. **Campholyde**.—An external specific for neuralgia and all nerve pains; might be called the "Magic Cure," as it acts instantaneously; better by far than Menthol, and quarter price. **Occasional Pills** (for ladies).—The most perfect antiperiodic and emmenagogue ever sold; once taken Welch's, or other, female pills will be discarded. **Stomach Corrector**.—Cures indigestion, flatulence, sickness, and all stomach derangements in a few doses; pleasant taking; vastly superior to Siegel's Syrup or other nostrum. **Blood Cleanser**.—This, with a little judicious advertising, could be made a splendid proprietary, and would soon supplant any "puffed" remedy for the blood; pays well. **Tic Specific**.—The most rapid, certain, and inexpensive medicine ever offered; one dose will give relief; this has cured when *Tonga* and *Tikheel* failed. **Peruvian Gout and Rheumatic Pills**.—Most excellent (these sold under another name produced a fortune); they are the most perfect pill and safest ever sold. **Mollispona**.—Entirely new and efficacious remedy for sore and tender feet, whether arising from over-walking or profuse perspiration; softens the skin, renders it firm and pliable. **Gravel Pills**.—A physician's remedy of genuine worth; if any pill will cure this disease, these are guaranteed to do it. **Pick-me-up**.—A capital antacid and stomachic, particularly adapted to over-indulgers; cleans the palate, subdues thirst, creates appetite, and is, in fact, a positive *reviver*. **Trixy**.—New perfume, lasting, sweet, and peculiarly adapted for perfume of local name; costs under 7s. 6d. a pint. **Cinchonessence**.—The most perfect nerve tonic and stomach strengthener sold; resembles Solar Elixir in taste and appearance; purely vegetable; an elegant preparation. Recipes, with full instructions and all particulars, 1s. 1d. each, 3 for 2s. 6d.

SPECIAL OFFER!—The above 13 Recipes as sample, 10s. post free.

T. BROOKS, Chemist, Louth, Lincs.



CHEMISTS' MACHINERY.

PILL MASS KNEADING MACHINES.
PILL MAKING MACHINES.
DRUG GRINDING MACHINES.
SIFTING MACHINES.

FULL PARTICULARS OF ABOVE ON APPLICATION TO

WERNER & PFLEIDERER, 86 Upper Ground St., Blackfriars Bridge, LONDON, S.E.

The following is respectfully commended to the Notice of Exporters:—

**FOWLER'S
CORN, BUNION, & CHILBLAIN
PLAISTER,**

PRICE 1s. 1½d. PER BOX,

Has been extensively used in Royal and distinguished circles for over half a century, still maintaining its pre-eminence. Relief immediate, sure certain, and comfort, however tight the boot.

MR. W. F. SMITH, M.P.S.,
280 WALWORTH ROAD, LONDON. [2]

CAUTION!

BAYLEY & COMPANY

"THE OLD CIVET CAT,"


17 COCKSPUR STREET, LONDON

(ESTABLISHED 1739),

PERFUMERS

WHOLESALE

DISTILLERS AND MANUFACTURERS.

 The Trade are earnestly requested to be upon their guard of whom they buy our Goods. We specially recommend them to purchase, not of chance dealers, but of bona-fide Houses, as we have no Travellers.

LARD GUARANTEED PURE

ORIGINAL AND BEST BASIS FOR OINTMENTS, &c.

CLARIFIED LARD, 11d. per lb. (10d. by 28 lbs.), 84/ per cwt.
BENZOATED DO., 1/ per lb. (11d. by 28 lbs.), 94/ per cwt.

Mutton, Beef, Veal, and Deer Suet and Beef Marrow,
Clarified Trotter and Neats' Foot Oil, 1/6 lb., 12/ gall.

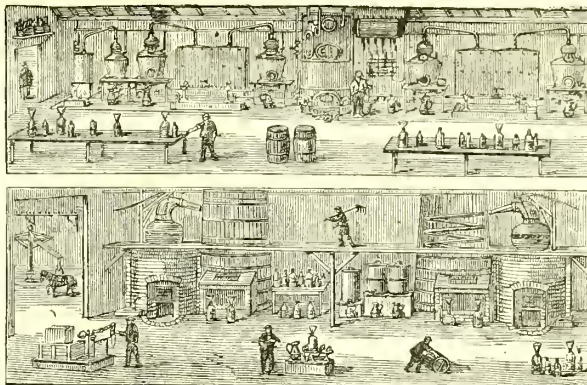
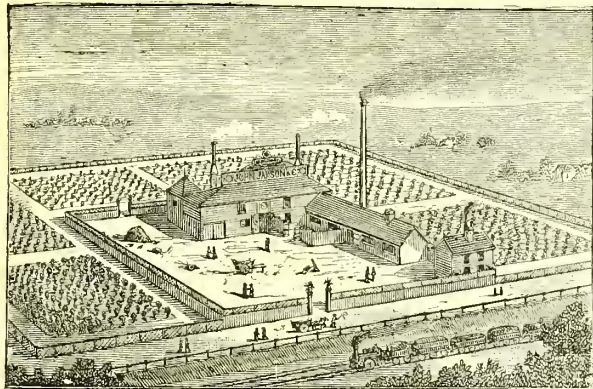
Every variety of **TOILET SOAP** from 56/ to 224/ per cwt.

SPECIALTIES:—

FRAGRANT GLYCERINE, MUSK, PINE; AND SANDAL WOOD SOAPS.

VIOLET POWDER, COSMETIQUES, POMADES, &c.

EWEN'S Clarified Fat Works
AND
Toilet Soap Factory
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MITCHAM

PEPPERMINT, LAVENDER OILS, &c., STEAM DISTILLERIES,
MITCHAM ROAD, near WEST CROYDON, SURREY.

GOLD MEDAL.



PARIS, 1885.

SILVER-GILT MEDAL.

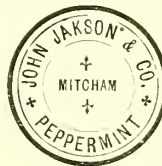


MELUN, 1880.

SILVER MEDAL.



ANTWERP, 1885.



E MARK.



TRADE MARK.

JOHN JAKSON & CO., 17 Philpot Lane, LONDON, E.C.

Each Bottle must bear the above Trade Mark, under which we send from our Mitcham Distilleries only PURE Peppermint, Lavender and Camomile Oils. Each Bottle is labelled specifying that our Oils are Guaranteed PURE, and as such are INVOICED.

DR. REDWOOD'S ANALYTICAL DEPARTMENT,

17 BLOOMSBURY SQUARE, LONDON, W.C.

Having visited the cultivation grounds and distilleries of Messrs. JOHN JAKSON & CO., at Mitcham, devoted to the production of Lavender, Peppermint, and other essential Oils, and having submitted samples of the Lavender and Peppermint Oils prepared by this firm to a careful physical and chemical examination, I can bear testimony to the very complete arrangements, with all modern appliances, which are here provided for distilling essential Oils, and to the excellent quality of the Oils so distilled.

Mitcham has been renowned throughout this, and part of the previous, century for the successful cultivation of Peppermint, Lavender, and other medicinal plants, from which oils of superior quality have always been produced; but at no previous period have the means for obtaining products of the highest quality been so successfully carried out as they have been since the introduction of Messrs. JOHN JAKSON & CO.'S system.

January 9, 1886.

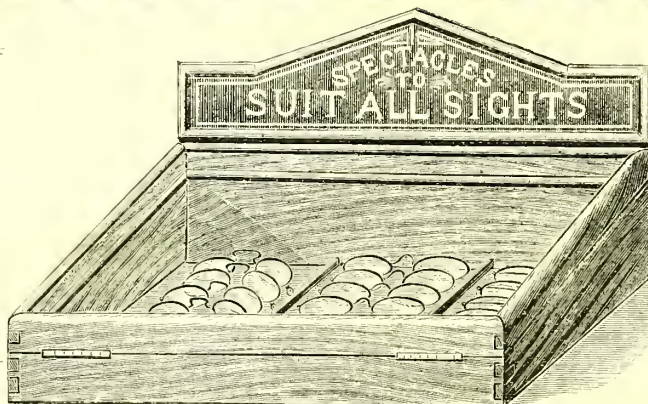
T. REDWOOD, Ph.D., F.I.C., F.C.S., &c.

Emeritus Professor of Chemistry and Pharmacy to the Pharmaceutical Society of Great Britain.

Our Essences are put up in Bottles of 1, 2, 1, 2, and 5 lbs.

DARTON'S

Show
Cases



of
Spectacles.

CHEMISTS commencing the Spectacle business will find these Show Cases arranged with an assortment of Spectacles and Folders of all sights, to meet the requirements of purchasers. The quality and quantity may be varied to suit any class of trade at customer's wish. The Spectacle Show Case is of Solid Polished Mahogany, well made and finished, to stand any climate. A large Coloured Show Card is sent with each case.

The following is a summary of the contents of our £2 2s. Case, which bears a profit of 36/-, after paying for Show Case and Sight Tester, for which we allow 15/- if not required.

	<i>s. d.</i>
2 Dozen Steel Frame Spectacles, Joints, with Screw and Pin to sell 1/0 per pair	7 0
1 " Ditto, better quality, stout frames, Straw or Blue Steel " 2/6 "	10 6
1 " Folders, Steel Frames and Placquets " 1/0 "	5 6
1 " Leather Tuck Spectacle Cases " 6d. each	2 6
1 " Folder Cases " 4d. "	1 6
Show Case and Sight Tester	15 0
£2 2 0	

Our £3 3s. Case contains -

	<i>s. d.</i>
2 Dozen Steel Frame Spectacles, Joints, with Screw and Pin to sell 1/0 per pair	7 0
1 " B.tter quality ditto, Straw or Blue Steel, best White Glasses " 3/6 "	15 0
1 " Folders, Steel Frames and Placquets " 1/0 "	5 6
1 " Best Nickel Folders " 3/6 "	16 0
1 " Spectacle Cases, Leather " 6d. each	3 0
1 " Folder Cases " 4d. "	1 6
Show Case and Sight Tester	15 0
£3 3 0	

Our £6 6s. Show Case contains -

	<i>£ s. d.</i>
2 Dozen Steel Frame Spectacles, Joints, with Screw and Pin to sell 1/0 per pair	7 0
1 " Ditto, better quality " 1 6 "	6 6
1 " Ditto, better quality, stout frames, Blue or Straw Steel " 3 6 "	15 0
1 " Light Straw Steel Spectacles " 5 6 "	1 4 0
1 " Folders " 1 0 "	5 6
1 " Ditto, Nickel " 3 6 "	16 0
1 " Ditto, light grooved, inv. sible " 5 6 "	1 1 0
1 " Frog Mouth Cases " 1 0 each	7 0
1 " Tuck Cases " 6d. "	2 6
1 " Folder Cases " 4d. "	1 6
Large size Show Case and Sight Tester	1 0 0
£6 6 0	

Our £10 10s. Case contains -

	<i>£ s. d.</i>
3 Dozen Steel Spectacles, Joints, with Screw and Pin to sell 1/0 per pair	10 6
2 " Ditto, better quality " 2 6 "	1 1 0
1 " Light Straw Steel ditto, best White Glasses " 5 6 "	1 4 0
1 " Invisible ditto, ditto, ditto " 6 6 "	1 10 0
1 " Blue and Straw Steel Frames, with Pebble " 7 6 "	1 13 0
2 " Tinted Spectacles, assorted colours " 2 6 "	10 6
1 " Folders, Steel Frames and Placquets " 1 0 "	11 0
1 " Ditto, Nickel and Shell Placquets " 3 6 "	16 0
1 " Ditto, Light Invisible " 5 6 "	1 1 0
1 " Best Morocco Frog Mouth Cases " 1 0 "	7 0
1 " Leather Tuck " "	2 6
1 " Folder Cases, best " "	2 6
Large size Show Case and Sight Tester	1 1 0
£10 10 0	

LARGER ASSORTMENT OF SUPERIOR PEBBLE SPECTACLES AND FOLDERS, &c., £21.

"THE CHEMIST AND DRUGGIST," May 15, 1886, says:

"Messrs. F. DARTON & CO., of 45 St. John Street, West Smithfield, who have long made a speciality of supplying Chemists with spectacles and some scientific instruments, and have thus gained considerable experience as to the requirements of beginners in the business, have followed up this experience by fitting up a number of show cases with various stocks, enabling chemists to start in the trade with the minimum of risk and the maximum of facility. The cases are well made, and are quite ornamental, and the spectacles are sold at very moderate wholesale prices, presenting an opportunity for a rate of profit to which chemists are getting unaccustomed."

Send for fully Illustrated Catalogue and Descriptive Pamphlet, with Table of Sights, post free on receipt of Trade Card.

Please order in full, Darton's Show Cases of Spectacles, when ordering through your Agents.

F. DARTON & CO.,

WHOLESALE OPTICIANS, MAKERS TO HER MAJESTY'S GOVERNMENT,

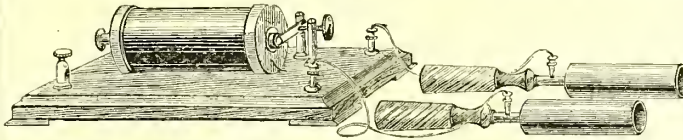
45 ST. JOHN STREET, WEST SMITHFIELD, LONDON, E.C.

ESTABLISHED 1834.

Telegraphic Address—"EXCEPTIONAL LONDON."

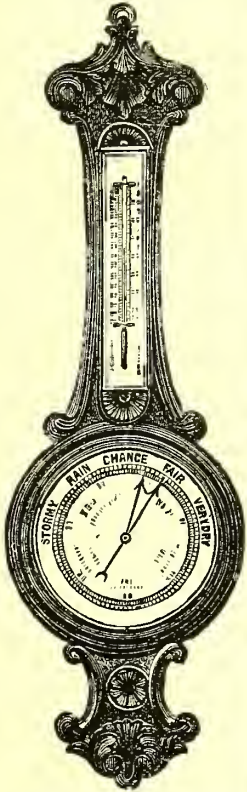
F. DARTON & CO.—SPECIALITIES.

THE CHEMISTS' & DRUGGISTS'
Aneroid Barometer and
Thermometer Combined.
Suitable for Chemist's Shop, in
Oak, Walnut, or Mahogany.

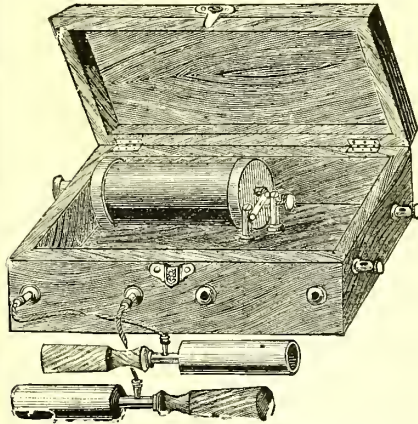


Small Medical Coil, with handles, on stand, two sizes, 5/6 and 8/6.

SEND FOR FULLY
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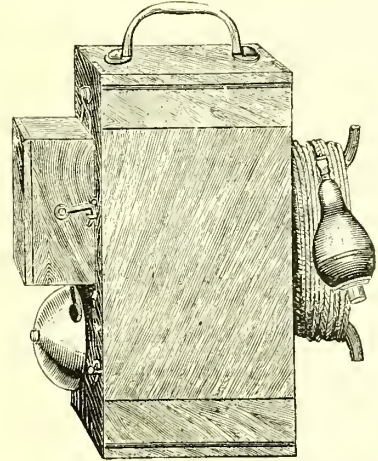


No. 1, with card dial 30/; ditto,
solid frame and silver dial, 45/.



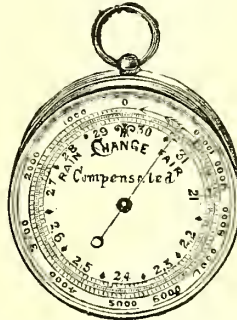
Medical Pocket Coil, in mahogany case, primary and
secondary currents, 10/ and 12/6.

Medical Coil, with sulphate of mercury battery,
pocket size, 10/6 and 20/.



Invalid Bell Set, complete, wire push and salamoniac,
pne, 12/; mahogany, 15/.

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In ordering
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Agents please
state Darton's
goods only are
required.



Watch Aneroid, Silver Dial, Gilt
Case, with altitude scale to 8,000
or 10,000 feet, &c. price 34/.



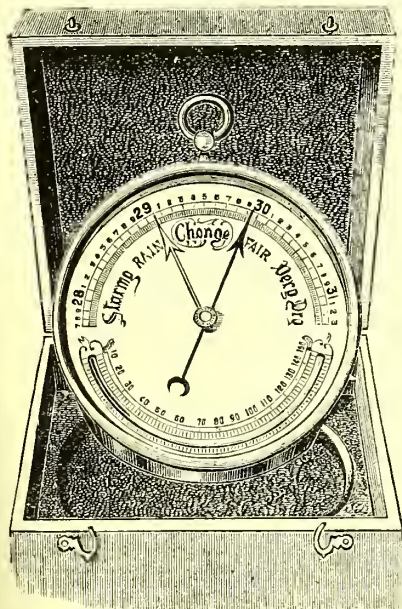
THERMOMETERS.

- No. 1.—Boxwood scale, spirit tube, 6/ doz.
- No. 2.— " " mercury, 7/ doz.
- No. 3.—Br ad scale, enamel spirit tube,
10/ doz
- No. 4.—Ditto ditto, mercury, 15/ doz.
- Bath Thermometers, plain, mercury tube,
12/ doz.
- Bath Thermometers, enamel, mercury
tube, 15/ doz.
- Bath Thermometers, porcelain, mercury
tube, 24/ doz.

CLINICAL THERMOMETERS.

- Darton's Improved Imperishable Index,
42/ doz.
- Ditto ditto Improved broad bore, magni-
fying, &c., 54/ doz.
- Ditto ditto, lens front magnifying, 78/ doz.
- One bent and one straight 6 in. Clinical
Thermometer in morocco snap case, 9/ set.

All kinds of Thermometers made to
order.



- Card Dial Aneroid, in Paper Case 11/0
- Ditto, and Thermometer on Dial, Paper Case 14/0
- Silver Dial Instrument, Leather Case 17/0
- Ditto, and Thermometer 20/6
- Best quality Movement (Fig. 83) 35/0

**THE NEW PORTABLE
Electric Hand-Lamp.**

Simplest and most perfect
yet produced.

30/.

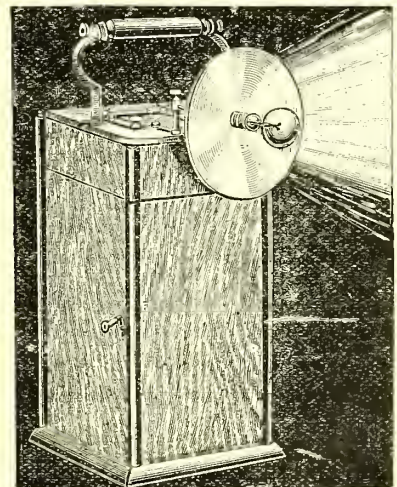
Cheaper form, with 4-cell battery,

17/6.

Special quotations for quantities.

The Lamp is of 5-candle power,
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connected or disconnected in an
instant by simply raising or lowering
the handle.

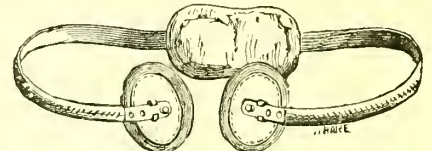
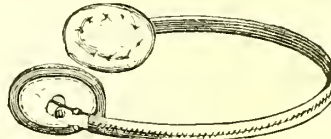
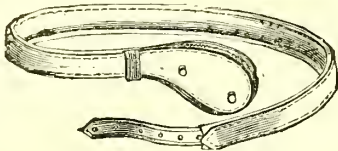
Directions with each Lamp.



W. H. BAILEY & SON'S TRUSSES.



FIRST PRIZE (SILVER MEDAL) FOR TRUSSES AWARDED BY THE WORSHIPFUL COMPANY OF CUTLERS OF THE CITY OF LONDON, MAY, 1879



TRUSSES.

	Single.	Double.		Single.	Double.
Circular, full-length springs, covered basil and chamois, or moleskin, 1st quality	21/	34/	Salmon & Oly's Expired Patent, covered in white roan and doe, 1st quality	36/-	72/-
Ditto, covered in roan and moleskin, 2nd quality,	16/	30/	Ditto, covered in basil and chamois, 1st quality	30/-	60/-
Ditto, narrow springs, covered in blue or red roan or moleskin, 2nd quality	24/	40/	Ditto, ditto, 2nd quality	27/-	54/-

BAILEY'S TRUSSES FOR SCROTAL HERNIA.

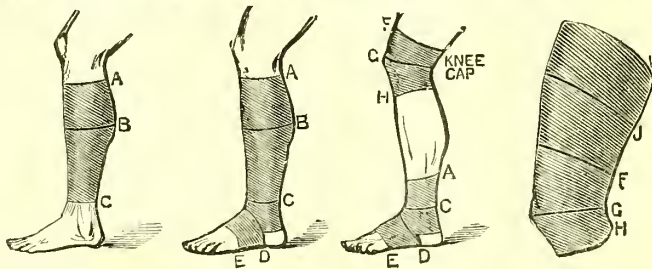
All who are in the habit of fitting Trusses must frequently meet with very troublesome cases, in which the hernia is constantly descending (with some persons many times during the day). We can with confidence recommend these Trusses as being most likely to suit in such cases, and we solicit a trial, feeling sure that a great deal of trouble and inconvenience may be saved by their use.

Scrotal, covered basil and chamois or moleskin, 1st quality, 48/-, 84/-; Ditto, covered in roan and mol skin, 2nd quality, 40/-, 68/-.

BAILEY'S WATERPROOF TRUSSES FOR INFANTS.

Covered entirely in Gum Elastic. Single, 40/; Double, 60/ per dozen.

BAILEY'S ELASTIC STOCKINGS, KNEE-CAPS, &c.



ELASTIC STOCKINGS, KNEE-CAPS, ETC.

Manufactured expressly for Export, and warranted to stand a hot climate better than any others in the Market.

		Silk		Cotton	
		Ordinary quality "A"	3rd quality	Ordinary quality	3rd quality
Stockings .. per pair		9/6	7/8	5/6	4/7
Knee-caps .. "		6/6	4/8	4/0	3/4
Calf-pieces .. "		7/6	5/0	4/6	4/0
Anklets .. "		5/6	4/8	3/8	3/4

The ordinary Quality only kept in Stock, and will be sent unless Order specifies "3rd Quality."

DIRECTIONS	FOR	MEASUREMENT.	Circumference at	Length, A to the ground.
DIRECTIONS FOR MEASUREMENT.	For a Stocking	A B C D E	A B C D E	A to the ground.
	For an Ankle Sock	A B C D E	A C D E	A to the ground.
	For a Knee-cap	A B C D E	F G H	F to H.
	For a Calf-piece	A B C D E	A B C	A to C.
	For a Thigh-piece and Knee-cap	A B C D E	K F G H	G to highest point required.

BAILEY'S SUSPENSORY BANDAGES.

1. Cotton Bags and tape under-straps	per doz. £0 8 0	5. Silk Oxonian Bags, bound with elastic	per doz. £1 4 0
2. Cotton Oxonian, with drawing-strings	" 0 10 0	6. Silk Oxonian, superior quality, bands of buff jean, with drawing-strings	per doz. 1 4 0
3. Silk Bags and tape under-straps	" 1 1 0	7. Silk Bags, to button on, with tape under-straps	" 1 1 0
4. Silk Oxonian, with drawing-strings	" 0 18 0	8. " " " under-straps to button	" 1 4 0

MANUFACTURERS and DEALERS in all kinds of SURGICAL APPLIANCES, WHOLESALE and for EXPORT.

Shippers and the Wholesale Trade Supplied on Best Terms and Lowest Prices.

W. H. BAILEY & SON, 38 OXFORD ST., LONDON.

ILLUSTRATED PRICE LIST ON APPLICATION.

Zymine (Extractum Pancreatis Fairchild).

For Preparing Predigested Invalid Foods.

THIS contains, in undiminished strength, all the digestive enzymes of the pancreas, and is therefore active on a large variety of food. It will digest meat, gluten, animal or vegetable fibrin and cascain, and is powerfully active on amylaceous matters of all kinds.

Zymine is indispensable in those cases where the digestive functions are impaired or suspended, but where, nevertheless, nutrition should be sustained. Food prepared with it is retained and relished when nothing else is.

Delicious peptonised foods, such as milk, milk gruels; ox-tail, mock turtle, and other soups; beef tea, jellies, custards, blancmanges, puddings, &c., are easily prepared with zymine, and by the most inexperienced domestic.

The success which has attended the administration of these foods when the digestive, assimilative, or nutritive functions were suffering has been simply unprecedented.

and being uninjured by chemicals. It is free from acid, starch, sugar, and admixture of every kind. To supplement directly the gastric functions pepsin in scales will be found active, economical, and uniformly reliable.

PEPSIN TABLOIDS.

For Gastric Dyspepsia.

They are beautiful lenticular bodies, white and easy to take. Children eat them as they do sweets. Each Tabloid contains one grain of pepsin in scales, with acid and appropriate aromatics. The acid evokes the full activity of the pepsin. Pepsin Tabloids are an effective and pleasant mode of taking pepsin for dyspepsia.

ZYMINE (PANCREATIC) TABLOIDS (FAIRCHILD).

For Intestinal Dyspepsia.

Each of these contains 3 grains of zymine. Taken with the meals one or two of these will promote a healthy inception of the digestive process, and are prescribed for intestinal dyspepsia, as where flatulence, distension, distress, burning pain under the right ribs, with a sense of oppression and malaise, occur several hours after eating.

PEPTONISING POWDERS (FAIRCHILD).

For Peptonising Milk and Gruels for Infants and Invalids.

One of these quickly peptonises a pint of milk without inconvenience. Milk thus peptonised is suitable for all preparations where plain milk is used. Dr. J. S. Ludlow says: "I believe the life of one of my little ones was saved by it." Dr. Eustace Smith says: "The main difficulty in the digestion of milk is removed." *Brit. Med. Journal* says: "Its introduction has probably done more than any other therapeutic measure of recent times to lessen infant mortality.

Puddings, custards, blancmanges, and most delicious milk jellies, with fruit juices, &c., are prepared with Peptonising Powders without extra trouble.

PEPSIN IN SCALES (FAIRCHILD).

One grain of this will digest 1,000 grains of egg albumen in standard acid mixture, and is the most powerful pepsin ever prepared. Its activity is due to its absolute purity

COMPOUND ZYMINE TABLOIDS (FAIRCHILD).

For Bilious Dyspepsia.

This is a combination which has been prescribed extensively in gastric and intestinal dyspepsia.

Each tabloid contains Zymine, 2 grains; bismuth subnitrate pure, 3 grains; powdered ipecac., 1/10 grain.

This combination has been used in cases of dyspepsia when the bilious element seemed to predominate, with burning, flatulence, a sensation of constriction about the waist, pain over the duodenum, coming on an hour or two after meals.

LANOLINUM PURISS. LIEBREICH.

Messrs. Benno Jaffé & Darnstaedter's New Lanoline Works are now in full working order, and the product manufactured on a larger scale is of greatly improved appearance. *It is of much lighter colour, and almost free from odour; is perfectly neutral, and guaranteed chemically pure. It is now also of suitable consistency for Ointments, and no longer requires the addition of Lard.*

The quality hitherto supplied we are now offering at a Reduced Price for the manufacture of Cosmetical preparations.

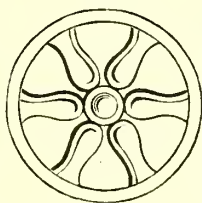
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PAUL METZ,

10 Jewin St., London, E.C.,

SOLE CONSIGNEE OF THE



Wheel

Brand

BEST QUALITY

WHITE WILLOW BOXES.

AGENT FOR THE BEST CONTINENTAL MANUFACTURERS OF

GERMAN SASH TOOLS

AND

CAMEL-HAIR PENCILS

OF ALL DESCRIPTIONS.

THERMOMETERS, LACTOMETERS,
HYDROMETERS, &c.,

AND ALL KINDS OF

CHEMICAL GLASS APPARATUS.

"ACME" AND "XLCR"

GERMAN POLISHING PASTE

(PUTZ PASTE).

"ACME" HARD AND SOFT

MEDICINAL CAPSULES, PERLES, &c.

MENTHOL CONES, &c.

SAVORY & MOORE'S PANCREATIC EMULSION,

OR PANCREATISED (PREDIGESTED) FAT,

Largely Prescribed as an Article of Diet in all cases of CONSUMPTION, WASTING, LOSS OF APPETITE, STRENGTH, AND DIGESTIVE POWER.

The special advantage of Pancreatic Emulsion is that it provides the NATURAL STABLE SOLID FATS OF FOOD, predigested by the action of the Pancreatic secretion, so that they can be taken without the least disturbance of the digestive functions. As it provides solid fat, it is well to make it alternate with a liquid fat, like Cod Liver Oil, even where the latter agrees; and in many cases where Cod Liver Oil disagrees it may be permanently substituted with the greatest advantage, or it may be taken with the Oil, the assimilation of which it actively promotes.

The Emulsion is of the consistence of Devonshire Cream, easily miscible with fluids, and quite unobjectionable in taste. It may be given in milk or water, and with the addition of a little wine or brandy if desired.

In Bottles, 2s. 6d., 4s. 6d., and 8s.

SAVORY & MOORE, 143 NEW BOND ST., W.



ESTABLISHED 1859.

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The Week.

FAMILY MEDICINE CASE COMPETITION.—We are compelled to postpone results of this competition until next week.

DR. DE VRIJ, who has been spending a week in Birmingham and London, favoured us with a call a few days since. The doctor seemed in the heartiest of health and spirits.

THE ELECTRICAL TRANSMISSION OF FORCE has received an impetus at the hands of M. Deprez, whose experiments have the powerful monetary support of the Rothschilds.

PROFESSOR SIR H. E. ROSCOE, M.P., vacates the Chemistry Chair at Owens College, Manchester, on September 29, and the appointment of his successor will be made as early as possible in the Michaelmas term.

MR. PICHENEY'S operations for the utilisation of waste magnesium chloride, which were briefly and mysteriously referred to by Mr. Muspratt in his Liverpool address, are approaching successful completion. The subject is fully referred to on another page.

QUININE has been sold down to 2s. per oz. during the week for foreign make, and still there is no life in the demand; camphor is growing dearer; ergot of rye is said to be scarce; and the peppermint crops are reported to have been damaged in England, America, and Japan.

VERMIN-KILLER used instead of baking-powder has caused a sad accidental death at Rochford, and this occurrence and the recent use of the poison for murder by a woman at Ashton-under-Lyne lend force to the suggestion that the law should require all powders sold as vermin-killers to be distinctively coloured.

THE NATIONAL VETERINARY ASSOCIATION met in Edinburgh a week ago, when a number of papers on veterinary subjects were read. The members also intimated a desire for a doctor's degree. At the concluding luncheon there was a vacant chair, which had been set aside for the "President of the North British branch of the Pharmaceutical Society."

THE ADDITIONAL EXPERIMENTS which have been made by M. Moissan on the gas isolated by him leave no doubt that it is fluorine. In the latest experiment, which is taken as a crucial test, iron was acted upon by the gas without evolution of hydrogen, which proves that it is not hydrogen-perfluoride that is being dealt with, as has been the case with most experiments hitherto.

A CASE of alleged incitement to robbery at a wholesale drug establishment has been under investigation at the Mansion House.

OUR French correspondent reports an amusing anti-Pasteurian meeting held at Paris this week.

THE notorious inventor and promoter of Myers's "Royal Cattle Spice" has been sued by an ironmonger at the Derby assizes for false representations, and a jury has granted the plaintiff 50*l.* damages. A good many Northern chemists are interested in Mr. Myers's affairs.

UNDER the title of "A Lancashire Soapery" a correspondent gives an interesting account of the visit paid by the Society of Chemical Industry a fortnight since to the works of Messrs. Gossage & Son at Widnes.

THE report of the Somerset House chemists in a milk case has been rejected by the Sheffield stipendiary in favour of strong scientific evidence offered by Messrs. Allen, Estcourt, and Hehner.

OUR artist has prepared a few sketches of the frontages of half-a-dozen of our most prominent London pharmacies, to which we have added a few historic details. The establishments sketched are those of Messrs. Allen & Hanburys, the Apothecaries' Hall, John Bell & Co., Corbyn, Stacey & Co., Savory & Moore, and Squire & Sons.

WE complete in this issue the valuable paper on the affairs of pharmacy in Canada, which résumés the information given by Mr. Mason, of Montreal, to the Liverpool Chemists' Association a few months since. The former part of this paper appeared in our issue of May 29.

HUMOUR and practical subjects are to be the order of the day at the Birmingham meeting of the Pharmaceutical Conference. On another page will be found a copy of a play-bill which promises some lively entertainment.

DIARY OF THE WEEK.

Wednesday, August 4.

Public sales of spices at the Commercial Sale Rooms, at noon.

Thursday, August 5.

Public sales of drugs at the New Corn Exchange, Mark Lane, at 10.30 A.M.

Metropolitan Reports.

SOUTH LONDON SCHOOL OF PHARMACY, KENNINGTON ROAD, S.E.—The following prizes have been awarded to the successful competitors at the School examinations, held from June 30 to July 3, 1886:—Senior Chemistry: medal, Frank Rye; certificate, W. Williams. Junior Chemistry: medal, W. Minehin; certificate, A. E. Aplin. *Materia Medica*: medal, A. E. Aplin; certificate, W. Minehin. Botany: medal, A. H. Evans; certificate, A. E. Aplin. Pharmacy: medal, F. W. Goodess; certificate, Robert Watts. Secretary's gold medal, Robert Watts. Extra certificates: Messrs. Allan, Baselow, Baugh, Coles, Dixon, Jones, Harrison, Hurst, Nurse, Parsons, Skirrow, Sloan, G. Smith, Symonds, Walters, and Warner.

ILLEGAL STORAGE OF BENZOLINE.—At the Westminster Police Court on Monday, Alfred Ford, oilman, of 78 Cheyne Walk, Chelsea, appeared in response to a summons by the solicitor of the Metropolitan Board of Works for keeping petroleum on his premises without possessing the necessary licence as required by the Act of 1871. Mr. James Wade, an inspector employed under the Act, deposed that on the 9th ult. he visited the defendant's shop and found three quarts of benzoline or petroleum spirit in a can under the counter. The defendant was not licensed, but even had he been he would not be permitted to store petroleum in so dangerous a manner. Mr. C. A. Roberts for the prosecutor mentioned that the penalty was as much as 20*l.* a day. Mr. Duerdin Dutton urged in mitigation of punishment that Mr. Ford had only a very small quantity of the spirit on his premises. Mr. D'Eyncourt fined the defendant 20*s.* and costs.

A ROMANTIC BANKRUPT.—Mr. W. A. Wynne, surgeon, applied to the City of London Court on Saturday last for the administration of his affairs under the 50*l.* clause in the Bankruptcy Act. The debtor said that he could only offer 1*s.* in the pound. He had been engaged to a lady whose uncle paid him 550*l.* per year for being engaged to his niece. But he did not marry the lady; he married a dress-maker instead, upon whose earnings he was now dependent for a living. He had no practice, but had an engagement as *locum tenens* for a doctor at Buxton. The learned Commissioner.—This is almost a romance. I can't understand a gentleman being paid to be engaged to a lady. Why didn't you marry her? Applicant—Because it was a very unhappy engagement all along. The learned Commissioner.—Can't you offer more than 1*s.* in the pound? Applicant.—No; I have no means. I have only a lot of pawn tickets I can show you. The learned Commissioner then made an order for the applicant to pay 1*s.* in the pound, by twelve equal monthly instalments.

SALE BY AUCTION.—The public sale by Mr. Gurdon Bardoe of the stock-in-trade of a chemist's business, formerly carried on by Mme. Eliza Hillgenberg, was held on Monday on the premises, at 33 Houndsditch, E.C. At the hour announced the small shop was packed, the major portion of the "assistance" consisting of brokers and dealers in second-hand furniture. The catalogue comprised about 160 lots of furniture, shop-fittings, books, bottles and stock, the whole of which realised a total of about 40*l.*, offering to the initiated many opportunities of picking up cheap lots. A 5-foot deal nest of 29 drawers and contents, and a 2-foot one of 14 drawers and contents realised together 13*s.*; while a 7-foot mahogany wall show-case, fitted with 5 shelves and 3 glazed doors, with a small show-case underneath, was allotted for 11*s.*; and a pair of chemist's scales on mahogany stand by Becker's Sons at 3*s.* Mme. Hillgenberg's library, consisting of some 130 volumes of books and pamphlets, mostly "foreign," as the catalogue somewhat depreciatingly expressed it, fetched the magnificent sum of 4*s.* 6*d.*; and a large carved and gilt lion on stand, the guardian of this "Deutsche Apotheke" for forty years, and evidently held in affectionate regard by Mme. Hillgenberg (who took a prominent part in the day's proceedings), was purchased for a few shillings. When tinctures, ointments, balsams, and similar preparations were reached the Israelites present were momentarily silent, and nearly the whole of this stock was purchased by a few *bona-fide* chemists at prices ranging from 1*s.* to 10*s.* for different lots of empty or half-filled bottles. Poisons were

sold indiscriminately with the rest, in sublime disregard of the Pharmacy Act. Patent medicines, sundries, perfumes, soaps, &c., again brought the Jews to the fore, and these items sold with better competition and, on the whole, at much higher prices than any other lots in the catalogue. Judging by the articles offered the shop was by no means a first-class one, but no doubt many buyers will have reason to congratulate themselves upon their acquisitions. Our representative was nearly tempted to join in the competition for a lot including two bottles of insect powder, for which there was evidently an opening.

ALLEGED ROBBERY OF DRUGS.—At the Mansion House Police Court, on July 22, George Crofts was charged with inciting William Wallace, a porter in the service of Messrs. Meggeson & Co., wholesale druggists, 14 Miles's Lane, to steal drugs. Mr. W. Beard said this was a most important case, as the prisoner, who had incited a person to steal, was a pest to chemists. He said that he made his living by such transactions. He (Mr. Beard) only proposed to call one witness, and then ask for a remand. Edward William Wallace, house porter, in the employ of Messrs. Meggeson & Co., said Mr. John Hugill with others now carried on the business. He had been in their employ for about six years. It was part of his duty to go to the Steam Packet public-house in Thames Street to get food and drink for the people at his factory. On Wednesday, July 14, he went to the Steam Packet, and there saw the prisoner; he knew him, as he had seen him in the house before. On the day in question, prisoner asked him if he had anything on him, meaning some drugs. He told him he had not. He then asked witness where he was working. He told him at Meggeson's. He then said, "Can you get me anything?" Witness replied that he did not know; it was a hard job to take anything from the warehouse. Prisoner said, "If you can get me any kind of drug, I will make it worth your while. Any kind of drug will do; quinine is dear, get some of that; if you can get some of that, I will make it worth your while; get something expensive, and I will give you a pound or two." Witness told him that he would see him again. There was an engineer in the firm, named Harvey, and on the following Saturday afternoon he told Harvey what had taken place. On Monday last he (witness) made a communication to a member of the firm. On the same day he went to the Steam Packet public-house again. The prisoner was there, and he had a conversation with him. Prisoner asked him if he had got anything. He replied that he had, but he would see him another time, and he appointed five o'clock on the same day. Prisoner said, "Bring something at five when you come." He then went back to the warehouse, and said what had taken place. He did not go at five o'clock as appointed, but on the following morning (Tuesday) he saw Oldhamstead, a detective-officer, after which he went to the Steam Packet public-house. This was at one o'clock, the dinner hour. The prisoner was there. He had another conversation with him. Prisoner again asked if he had got anything, and he replied that he had not, adding that he did not like to bring anything to that house, as it was used by some of their men, and he might be noticed. Prisoner said, "Well, cannot you make it convenient to meet me somewhere else?" Witness said, "Well, meet me at the Boar's Head, Cannon Street, at five o'clock this afternoon." Prisoner said, "Mind you bring something with you; make it quinine if you can." He (witness) then went back, and reported to Mr. John Hugill what had occurred. After this he saw the detective again, and in his presence Mr. John Hugill gave him three bottles of citrate of iron and a bottle of fennel. He then went to the Boar's Head in Cannon Street at five o'clock. He had the bottles with him. The prisoner was not there, but about twenty minutes afterwards he met him in the street, and they returned to the Boar's Head. The prisoner said, "Are you going to have a drink?" adding, "Come on; give 'em to us, whatever you've got." He handed him the bottles, saying, "I don't know what they are; I picked 'em off the counter." Prisoner said, "That's the style; get what you can, only don't let anyone see you." He further said, "I'll pay you for them when I sell them; you can trust me." Prisoner then gave him sixpence on account. Prisoner said he would meet him (witness) on Wednesday dinner-time, at the Steam Packet public-house, and would tell him how he got on. Witness then returned to the factory, and reported to his governor what had taken place. On Wednesday at three o'clock, he went to the Steam Packet public-house.

Prisoner said, "It's right off; I never sold them. I tried to, but I left them at a public-house in the Mile End Road. They are all right—as safe as a bank." He further said, "You can bring as much as you like, because this is my living. I will meet you when you are going home to-night, when you knock off work. Can you bring anything with you—some quinine if you can." He again returned and told Mr. John Hugill what had taken place. It was then agreed that they should meet in the evening. Mr. Hugill supplied him with two small bottles of quinine, and, by Mr. Hugill's directions, he took these to the Boar's Head when he went at five o'clock. He met the prisoner in the street at five o'clock, when they went back to the Boar's Head. The prisoner said, "Give me what you have got." He then handed him the two bottles of quinine. The prisoner then promised to meet him on Saturday in the Steam Packet public-house. He (witness) said, "All right," and left. Soon after the prisoner was apprehended. At this stage the prisoner was remanded.—The prisoner was again brought up on Thursday last, when more evidence was offered, and Mr. Alderman Whitehead committed Crofts for trial, but admitted him to bail.

Provincial Reports.

BIRMINGHAM.

THE EXHIBITION at Bingley Hall which is to represent the industries of this district to the scientific visitors expected here in the autumn is getting on swimmingly. The British Association has met in Birmingham on three previous occasions, and with each meeting an exhibition of the local industries has been organised. The first occasion was in 1839, when the Association was in its infancy. The Association came again in 1849, and the exhibition of that year was very successful; so much so that Birmingham people have no doubt that it suggested the idea of the Exhibition of 1851, which has brought so many others in its train. The third visit of the British Association occurred in 1865, and this was accompanied by an exhibition. The one now being organised is likely to be very extensive, and as nearly a complete representation of Birmingham industry as the space of Bingley Hall will admit of. The committee have been obliged to reject many applications, and reduce the demands of nearly all the exhibitors from sheer want of room.

In the centre of the hall is to be a lighthouse, fitted by Messrs. Chance, of Oldbury, with their famous lenses and reflectors. This will be supplied with a powerful electric lamp, and it is expected that the brilliancy of the light that will be cast from it will be of the most dazzling and startling character. Beyond the lighthouse, and at the end of the main thoroughfare, "Old Birmingham" will appear. This structure, which has been designed by Mr. Cossins, and is to be executed by Mr. G. H. Bernasconi, will comprise a row of shops, with living-rooms above, all in the quaint Elizabethan style, with the lozenge windows, over-hanging eaves, queer porches, and low roofs of bygone times. All the shops will be occupied. At either end will be found a dealer in drugs and potions—the one an apothecary of the olden times, and the other a pharmacist of the present day, with a model shop. Messrs. Southall Brothers & Barclay have undertaken the fitting up of these two shops. Between them will be found in one shop a family of nailmakers from about Hales Owen plying their laborious and scantily-paid industry. Brush-making will be shown by Chace & Son, and hardware, pins, pens, guns, electroplate, jewellery, and every kind of engineering work will of course be in strong force. Even the famous screw trade may be represented. The exhibition will be a great additional attraction to Birmingham. It will be open from August 26 to October 2.

A MEDICINE SWINDLE.—Harriet Page, hawker, Darlaston, has been before the magistrates charged with obtaining 2s. by means of false pretences from Kate Podmore, Wheeler Street, Aston. The prisoner went to the shop of Mr. Podmore, and asked the daughter if her mother was in. Finding the latter was out, prisoner said, "Oh, never mind; I've got a bottle of medicine for your mother, and I want 5s. for it." The girl had only 2s., and prisoner took that, saying she

would call again for the remainder. The prisoner informed the detective that the medicine was only worth 4d., and that it was composed of pennyroyal, "old man," and horehound. Mr. Rowlands (magistrate's clerk), addressing the prisoner's mother, asked what the medicine was worth. Mrs. Page: Sometimes I get 2s. 6d., sometimes 3s. 6d., and sometimes 4s. Mr. Rowlands: Do you give directions for using it?—Yes; but it would not hurt anyone if they took the bottle. (Laughter.) Mr. Collins: Take the bottle! Mrs. Page: Well, sir, the contents I mean. Prosecutrix informed the Bench that prisoner had offered to refund the money, but she declined to accept it. When arrested prisoner said the bottle of medicine was for a lady at West Bromwich, and that she thought she was in West Bromwich when she was in Wheeler Street. The prisoner expressed great contrition for what she had done, and in consideration of this the Bench dismissed the case, ordering the girl to refund the money.

ANOTHER PHARMACEUTICAL M.P.—It is not generally known that Mr. J. E. Spencer, the first Conservative member returned for West Bromwich, has been connected with the drug trade. Mr. Spencer some years ago was apprenticed to Mr. Wm. Tunley, chemist, &c., High Street, West Bromwich, and from there came as assistant to Southall's, Bull Street, Birmingham. Leaving them, Mr. Spencer turned his attention to a different business, and from that to the legal profession, to which he is now attached.

STEALING A PERAMBULATOR.—Margaret Robinson, aged 23, a married woman, has been sentenced to three months' imprisonment for stealing a perambulator, the property of Mr. Sanderson, chemist, Parade.

CARBOLIC ACID POISONING.—A child, aged 7, named Walter Jones, was admitted to the General Hospital on Saturday last suffering from carbolic acid poisoning. The mother of the boy was advised by a neighbour to place carbolic acid in the water with which she cleaned the floor for the purpose of destroying vermin. Acting upon this advice, she obtained some acid and put a quantity into the water. The remainder she left in a bottle. While she was going on with her cleaning the child got hold of the bottle and drank a portion of its contents. When taken to the hospital he was in great agony. The stomach-pump and other remedies were applied, but there is no hope of recovery.

THE BRITISH PHARMACEUTICAL CONFERENCE.—At a meeting of the Executive Committee held at the Grand Hotel on Wednesday, July 21, Mr. Councillor Barclay in the chair, it was proposed by the chairman, seconded by Mr. Arblaster, and unanimously resolved, to accept the kind offer of the Leamington chemists to entertain at luncheon 150 members of the B.P. Conference at the Regent Hotel. Mr. F. H. Alcock, F.C.S., was appointed assistant honorary secretary. At a meeting of the Reception and Conversation Committee, Mr. W. F. Wyley, F.C.S., was appointed chairman and Mr. W. F. Haydon, honorary secretary. At a meeting of the Finance Committee, Mr. A. Southall, F.C.S., was appointed chairman and Mr. W. Jones honorary secretary. Arrangements have been made with the L. & N. Western, Great Western, and Midland Railways for those members who wish to reside during the sitting of the Conference at Leamington, Stratford, or any other town within 50 miles of Birmingham, for them to travel to and fro at a single fare for the double journey.

It may be added that the meeting will extend from Monday, August 30, to Thursday, September 2, and that Mr. Charles Thompson, Sparkbrook, Birmingham, is the honorary local secretary.

DEVIZES.

THE COMPETITION FEVER has reached this peaceful spot. In bygone days, before the advent of agricultural depression, Devizes could boast of seven chemists, each doing a fair business. The seven shops have been gradually reduced to four, and a change in the proprietorship of one of these has lately taken place. Mr. B. W. Willis has given place to Mr. Edward Hill, of the firm of Fielder & Co., Newbury, who announces "that the order of the day being cash with small profits, he submits to the public a reduced price list, the important feature of which is that for cash his prices will be

found in most cases as low, if not lower, than the London stores, and he trusts to receive a very large share of their patronage, for it is only by their helping those who pioneer a movement for the general good that a small cash business can exist." The price list, of some 43 pages, is of the usual run, and the quotations given for drugs and patent medicines are about the same as those usually given by co-operative chemists. Mr. Hill states that he has been engaged for the last 28 years in pharmacy in all its branches.

DRIFFIELD.

AN APPRENTICESHIP DISPUTE.—Judge Bedwell decided an important case at the County Court on Wednesday, in which the Rev. J. S. Shrewsbury, Wesleyan minister, claimed 50% of Mr. James Asher, chemist, Market Place, Great Driffield, for a breach of indenture of apprenticeship in respect of plaintiff's son. Plaintiff paid 30% premium, and in May last defendant peremptorily discharged the apprentice for refusing to clean a pair of brass scales. His Honour gave a verdict for 15% and costs.

EXETER.

ATTEMPTED SUICIDE.—At the City Assize on Monday, George Gliddon, aged 57, army pensioner, was indicted for feloniously taking poison to kill and murder himself at Exeter on July 4. Mr. George Napier, chemist, South Street, stated that on Saturday, July 3, the prisoner came to his shop and asked for threepennyworth of laudanum for rheumatism. Witness supplied it, and labelled the bottle "Laudanum; poison." There were 2½ drachms, which was sufficient to destroy life, but was the smallest quantity known to do so. After some further evidence the jury returned a verdict of guilty, and the learned judge bound over the prisoner in his own recognisance of 25% and two sureties of 10% each to come up and receive sentence when required.

GLOUCESTER.

NEW PHARMACY.—In spite of severe competition in this town, and the fact that nearly one half of the population obtain their physic from medical institutions in connection with friendly societies, another pharmacy has been opened here during the past week. The enterprising firm in this case is Messrs. Sharpe & Son, and the spot selected is 23 Barton Street. The shop is handsomely fitted up by Howlett, of London.

HULL.

HULL CHEMISTS' ASSOCIATION.—On Thursday last the members of this Association, together with their ladies and several influential members, celebrated their annual picnic. This year a visit to the Nottinghamshire Dukeries was chosen, and a most enjoyable day was passed, greatly owing to the exertions of Messrs. Bell and Stoakes, in whose hands the entire arrangements were placed. The party numbered about fifty, and bids fair to assume larger proportions each year, and possibly to supersede that time-honoured institution "The Hull Chemists' Supper."

A correspondent sends us also the following account of the above:—For many months the wives of "Ye Knights of Ye Pestle and Mortar" of ye ancient town of Kingston-upon-Hull have been looking forward with lively expectations of the pleasure they should derive from what they fully intend shall be the annual picnic. With justice or otherwise, the ladies are credited with the death of the Chemists' Supper, from which they were always excluded. Phoenix-like this excursion seems to have sprung from the ashes of that doleful gathering, where gentlemen could extinguish themselves by their own songs and speeches; and now, if yearly increasing numbers is a criterion, it will become a splendid success. To Mr. George Hoyles, we believe, is due the credit of suggesting the change; but it is said that alternate Caudle lectures, coaxings and entreaties, smiles and tears, hints and threats, carried the day. The start was made from the Minerva Pier at 6 A.M. All being on board, sail was set for New Holland. Arriving there, all disembarked; but what is this? Comfortable, easy carriages had been promised by the M. S. & L. Railway Company, and here is a wooden-seated

hard-backed machine, known as a Belgian saloon carriage, specially reserved for a fifty miles' ride. O, ye groaning shareholders, long will ye yearn for 3 per cent. dividend if this is the kind of luxurious carriage you provide for your passengers! When will you learn that your customers are like all purchasers, and will go where they are best served? Emulate the Midland and the North-Eastern Railway Companies. Send the Belgian saloons to Manchester, and let them be converted into ballast waggons for the Manchester Ship Canal. At this part of the journey our friends Bell and Stoakes caught it hot from the ladies, being saluted with greetings more warm than affectionate for not having secured better railway accommodation. However, it was Hobson's choice, and all tumbling in, off we went. All settled down, and many were afterwards found napping, doubtless owing to the disturbed night and early start. Worksop was reached by 9 o'clock, and ample justice done to the excellent breakfast provided by host and hostess Green, of the Lion Hotel. Waggonettes being ready at 10.30, away we started to Clumber, the seat of the Duke of Newcastle, and after visiting the gardens, lake, and boathouse the drive was resumed to Thoresby House, the seat of Earl Manvers, through the park into Sherwood Forest to the "Major Oak," the grandest tree in the forest. At this place we alighted for luncheon, and one vied with another in efforts to lighten the hamper of the good things provided. At this spot also the gentlemen were particularly anxious to amuse and instruct. A nobleman present ineffectually attempted the juggling feat of swallowing coin; but a gentleman commoner, a disciple of Oscar Wilde, surpassed himself. His forte was instruction, but it ended in amusement as well. Commencing a dissertation to the ladies on dress and colours, he proceeded to point out how all should adorn their persons with judgment and good taste, and not patronise glaring and brilliant colours. He also said it was not necessary to spend large sums, and successfully demonstrated a process of dress-dyeing with natural colours, within the reach of the poorest in the land. "Here," said he, "all around you find Nature provides," when, with a sudden start, up he jumped, and vainly endeavouring to catch sight of his nether garments, which were beautifully dyed that delicate colour, known to the ladies as "crushed strawberry," he darted into the depths of the forest and was not seen again for several minutes, when he at last emerged from the heart of the "Major Oak" a changed man. The party were next successfully photographed by one of the members, and then walking to the adjacent village of Edwinstowe, the carriages were found and start made for Welbeck Abbey, passing along the duke's drive and through the park. The riding schools and tan gallop were seen, for which privilege the party were indebted to the assistance of Mr. George Woods, chemist, Worksop. On arrival again at Worksop, after a drive of twenty-six miles, the dinner provided at the Lion Hotel was fully appreciated. The usual loyal toasts were given from the chair by the President, Mr. George Hoyles. The health of the President was proposed by Mr. Francis Earle, and suitably acknowledged. Mr. C. B. Bell proposed "The Ladies and Visitors," for whom Mr. Councillor Wallis responded. Thanks were cordially voted to Mr. B. M. Stoakes for his services in arranging all things so as to secure a delightful and long-to-be-remembered day. Leaving Worksop at 7 P.M., Hull was reached again at 10.15 P.M., and it is believed that all slumbered peacefully and well that night.

LIVERPOOL.

THE business for many years conducted by Mr. W. Wright in Myrtle Street has been disposed of to Mr. Smith, of Fakenham. Mr. Wright will carry on the suburban business opened by him not long ago in Edge Lane, and which in that thriving and largely extending neighbourhood now, doubtless, calls for his constant attention.

IF there be one thing which appals the reflective man more than the thickness upon the earth of blackberries and druggists, it is the number of young doctors who lie in wait for the chance of practising upon him. Now to add to the throng, Mr. W. Fingland, who lately succeeded to the business established, and successfully carried on for many years by his late father in the pleasant village of Wavertree, has disposed thereof to Mr. Herbert, who leaves Messrs. Symes & Co., of Hardman Street, to begin for himself. Mr. Fingland,

having qualified as a surgeon, commences practice in Wavertree, and, being widely known and highly esteemed, will certainly prove a thorn in the sides of the brethren already on the spot.

SALES by auction of chemists' stocks and businesses are rarities here, but the shop in Brunswick Road, to which reference was made in this column some weeks ago, saying that it was to be had cheap—so cheap that it is a wonder no one speculated a 20*l.* note—has to come under the hammer. Little birds whisper that a wholesale firm in the Midlands have been keeping it going, and have burned their fingers somewhat.

DEATH FROM CHLOROFORM.—On Monday last an inquest was held by Mr. Clarke Aspinall, the Liverpool coroner, touching the death of James McLeod, aged 50, a printer, who died whilst under the influence of chloroform in the Liverpool Southern Hospital, on July 23. From the evidence it appeared that the post-mortem examination showed a weak condition of the heart which could not have been ascertained previous to death. The jury returned a verdict of "Death from misadventure in the administration of chloroform."

A FRIEND OF "THE GENERAL'S."—In connection with the opening of a new Salvation Army barracks at Runcorn, on Friday night last, by General Booth, it was announced that Mr. George Marshall, chemist and druggist, of High Street, Runcorn, had subscribed 50*l.* towards liquidating the debt of 250*l.* remaining on "The Citadel," as the new barracks are called.

CARRIAGE OF PETROLEUM BY SEA.—At the summer meeting of the Institution of Naval Architects, which was opened in the Town Hall on Tuesday, a very able paper was read by Mr. B. Martell, chief surveyor in Lloyd's, on the "Carriage of petroleum in bulk on over-sea voyages," which had special reference to the use of large tanks instead of barrels.

MANCHESTER.

MESSRS. FOLLOWS & BATE (LIMITED), who have of late years given a good deal of attention to the supply of machinery for chemists, as is evidenced by their tincture-press, drug and paint grinding machinery mills, sifting apparatus, &c., have nearly completed the erection of fine new works at Gorton, near Manchester, close to Sir Joseph Whitworth's, Crossley Brothers', and others. Messrs. Follows & Bate's new works will cover nearly two acres, and will be supplied with the most modern appliances for carrying on their extensive business.

THE EMPLOYÉES of Mr. W. H. Williamson, 54 Dantzic Street, enjoyed their annual treat on Saturday, July 24. Travelling to Liverpool by rail, the party visited the exhibition there, and afterwards joined together in a hearty tea. A most enjoyable afternoon was spent.

MESSRS. BRATBY & HINCHLIFFE, of Sandford Street, Ancoats, inform us that they are about to bring out several improved appliances for use in the manufacture of aerated waters. Among these are a new bottle-washing machine, an anti-atmospheric generator, a new wiring machine, and a new safety condensing cylinder.

ROCHFORD.

VERMIN-KILLER INSTEAD OF BAKING-POWDER.—A family named Cripps, residing on a farm near Rochford, Essex, were poisoned on Saturday last through partaking of pudding in which vermin-killer had been used in mistake for baking-powder. The mother, who made the fatal pudding, died on Sunday morning, but the husband, son, and servant, although suffering terribly from the effects of the poison, are expected to recover.

SHEFFIELD.

SOMERSET HOUSE AND PUBLIC ANALYSTS.—On July 6 a local milk dealer was summoned before the stipendiary for having sold milk which was adulterated with water. He alleged that the sample was perfectly pure, and demanded, under section 22 of the Sale of Foods and Drugs Act, that

the sample should be forwarded to Somerset House for analysis. The adjourned case came on for hearing the other day, when the report from the analysts at Somerset House was produced, which stated that "The sample of milk referred to was received on the 8th inst. We hereby certify that we have analysed the milk, and declare the result of our analysis to be as follows:—Non-fatty solids, 8.32; fat, 2.67; water, 89.01 per cent. From a consideration of these results, and after making allowance for natural loss arising from the decomposition of the milk through keeping, we are unable to affirm that water has been added to the milk." The Health Committee's representative characterised this report as delightfully vague, and exactly what he had expected. He called evidence to contradict the Somerset House analysis and to support Mr. Allen's, the Sheffield analyst's, certificate. Mr. Charles Estcourt, analyst to the city of Manchester and the boroughs of Ashton-under-Lyne, Macclesfield, and Oldham, stated that no reliable or satisfactory analysis could be made of milk which was upwards of a month old. Mr. Otto Hehner, F.C.S., public analyst for Notts, South Derbyshire, and Hampshire, gave evidence that it was utterly impossible to analyse milk which had undergone decomposition, and stated that he received two samples from Mr. Allen on July 9. The first was in its natural state and was very sour and decomposing. The fat had separated, and the liquor was fermenting. It had undergone changes which rendered accurate analysis wholly impossible, and he was unable to give any opinion as to the purity of the sample. To the second sample alcohol had been added by Mr. Allen, and it was in a perfectly sound state of preservation. He found it on analysis to contain 10 per cent. of added water. Defendant again denied that water had been added to the milk. The magistrate was afraid some one had popped the water in, as he thought the first analysis was more likely to be correct, and he decided this case where the analysts disagreed by ordering a fine of 2*s.* 6*d.* and 27*s.* 6*d.* costs.

MR. A. H. ALLEN, F.C.S., has had his appointment as public analyst to the borough renewed by the Town Council.

THE police have been searching the poison registers of local pharmacists to trace the sale of arsenic, which has been used to poison some very valuable show dogs.

STOKE.

ON Saturday, July 17, an inquest was opened at Stoke on the body of William Conn, a French tutor, 5 Valletort Place, who had been found dead in bed that morning. Deceased had been in straitened circumstances, and from the fact that a cyanide of potassium bottle was found in his room, it was supposed that he had committed suicide. Evidence in corroboration thereof was given, and the jury returned a verdict accordingly.

TORQUAY.

ATTEMPTED SUICIDE.—On Tuesday, July 21, a married woman named Emma Jane Hopkins, aged 40, wife of a bill-poster, attempted to commit suicide by drinking laudanum, which she had obtained at the shop of Mr. Bathe, chemist, in Abbey Road, for poulticing purposes. Mrs. Hopkins was brought before the magistrate on Friday last, was bound over not to repeat the act, and discharged.

WARRINGTON.

ON Sunday the glycerine room at Messrs. Crosfield's soap works, Warrington, caught fire, but was quickly extinguished, although considerable damage was done.

SCOTLAND.

EDINBURGH.

WE hear that Mr. William Crow has disposed of his business at 83 Nicolson Street to Mr. Baillie.

THE extract from *Truth* published in last week's issue concerning exhibitions seems well worth consideration. The feelings therein expressed find their echo here in Edinburgh, where traders are grumbling sorely at dull trade, and rightly or wrongly ascribe the accentuation of their sorrow to the presence of the exhibition.

CHEMISTS' ASSISTANTS' ASSOCIATION.—The second botanical excursion was held on Thursday morning, when there was large muster of members. The party took the 6.20 train to Slateford. From thence they went, *via* Slateford village and quarries, under the guidance of Messrs. Hill and Stephenson, to Colinton Den. This spot is not very rich in unusual specimens, but the following amongst others were secured:—*Hypericum pulchrum*, *Scrophularia nodosa*, *Ruscus aculeatus*, *Circa lutetiana*, *Valeriana officinalis*, *Ononis arvensis*, *Linaria cymbalaria*, &c. After spending a pleasant hour in the Den, the party returned by the 8.14 train to Edinburgh.

GLASGOW.

We have the distinguished privilege here of the services of three chemists as public analysts, and they report that during the quarter ending June 30 last they analysed, under the Food and Drugs Act, 1875 and 1879, five samples, *viz.*, two of sweet milk and one each of ground ginger, mixed spice, and sweet spirit of nitre. The two sweet milks each contained ten per cent. of added water, and were, besides, deficient in fat. The ginger and mixed spice were genuine, but the sweet spirit of nitre was practically destitute of its essential ingredient, nitrite of ethyl. It must not be supposed that it took three months to examine these five samples. For the public the analysts examined twenty-seven samples of various kinds, including one drug.

HAMILTON.

ON Wednesday night, July 21, Mr. John M'Ghie, photographer, Hamilton, was found dead under very sad circumstances. He had been suffering from heart-disease, with an accompanying cough, and had been induced to take occasionally at night a few drops of laudanum. It is supposed he had exceeded the usual quantity of the narcotic, which had produced a fatal effect.

ON Tuesday, before Sheriff Birnie, James Stewart, accountant, Motherwell, was again examined in reference to sequestration. Bankrupt was the owner of the Echo Aërated Water business in Glasgow, and he accounted for his bankruptcy in various ways, but chiefly from losses in business. The examination was further adjourned.

A LANCASHIRE SOAPERY.

HAVING long desired to see practically in work the processes and methods of manipulation of a large soap works, and an opportunity being afforded upon the occasion of the recent excursion of the Society of Chemical Industry to visit the extensive factory of Messrs. Gossage & Son, at Widnes, near Liverpool, I gladly availed myself of it, and saw so much which was interesting from scientific and trade points of view alike that I venture to offer a short record for the information of those of your readers who have not had a similar experience.

It is not necessary to preface this narrative with a description of the locality. Suffice it that the town is so steeped in bad smells and smoke, and the entire population is so grimy and ragged that, upon the *lucis a non lucendo* principle, it is clearly ordained to be a great soap-making centre. The shoemaker's wife, we know, often goes barefooted.

The works, which were the object of our visit, are conveniently situated upon the banks of the river Mersey, and are bounded upon the east by the canal, which here runs down from St. Helen's, with its immense chemical and coal trade, to the tideway, and upon the west by a branch of the L. & N.-W. R. Extraordinary facilities are thus given for the expeditious and economical handling of the heavy weights incidental to the soap trade. By water from Liverpool come palm oil, tallow, rosin, coconut oil, and similar raw materials, and finished goods go back for shipment to Scotland, Ireland, or abroad. By rail come limestone, coal, timber for boxes, &c., whilst for the removal of the daily output the railway authorities keep their own clerk upon the premises and furnish each morning a tale of thirty-five wagons.

We were received at the station by the sons of the principals, and upon our arrival at the works were introduced to these gentlemen, Messrs. F. H. Gossage and T. Sutton Timmis,

F.C.S. It is an item of gossip worthy of notice *en passant* that the former served his time to the drug trade, as did his father before him. And whilst we are on this subject, and in connection with soap, it may be further pointed out that not only was the late Mr. K. S. Hudson, of dry soap fame, once a retail chemist, but that his right-hand man and *alter ego*, who now controls the business, was actually his assistant in the shop. Who shall say hereafter that the much-abused old trade may not lead any given man on to fortune? The marshal's *bâton* which every French conscript sought in his knapsack was nothing better than what these men have achieved. But to return. We were kindly welcomed, and Mr. Gossage himself, assisted by several heads of departments, took us round and explained most fully and patiently the various processes. Taking soap as a combination of fat and alkali, we followed up these ingredients in their respective courses from first to last. Tracing the fats, to begin with, we were led from the canal bank, where barges and small craft were loading and unloading on to and from an iron platway, which enabled great hogsheads to be handled and moved with the greatest ease, into

THE STOREHOUSE FOR RAW FATS.

Here were arcades and piles of puncheons and barrels. Palm oil, coconut oil, olive oil, tallow, rosin; from half the countries under the sun these things are gathered together. What may be the value in money of this stock we know not, to a thousand pounds or so, but so Plutocratic does a man grow in the contemplation of so much solidified wealth that we are content to leave it at that, and follow a workman, who trundles a great cask of oil past us along the ubiquitous platway, into a very infernesque looking room, which is announced to us as

THE STEAMING-ROOM.

Sunk in the floors of this are a series of rectangular tanks, covered in with gratings of iron bars, over which the casks are rolled bunglehole downwards; palm oil over one, tallow over another, and so on. A jet of steam is then made to play up into the cask, for the purpose of melting out the contents, which run down into the reservoirs below. Their capacities being known, the contents are henceforward dealt with by measure, so many inches being run in or pumped out corresponding to the number of gallons, and therefore of hundredweights, required. The gentleman who upon such occasions always "wants to know" here first appeared, to inquire what was done when the fats cooled and became again solid; but we were informed that work is never suspended long enough for this to happen. How they allow for and deal with the water condensed from the steam jets is a matter that has puzzled me ever since; but having allowed the golden moment to slip by during which this little conundrum could have been solved, I wander on with my unsolved problem.

From this room the fats are forced through iron pipes by steam pumps to the scene of their next experience. On the way the palm oil passes into

THE BLEACHERS,

which are large square vats of 500 gallons capacity. Here it is treated with bichromate of soda and sulphuric acid, washed with boiling water, clarified by precipitation, and pumped on again till, along with its brethren who have escaped this ordeal, it reaches

THE BOILERS,

which are immense iron circular tanks, having a capacity of forty tons, some twelve feet in diameter and twenty feet deep, fitted with hinged covers which shut down upon rubber rings so as to form steam-tight joints. Into these the fats—any required one, or a mixture of them—are run, together with the requisite proportion of lye, which here comes up from the other end of the works. About this operation there seemed to be some degree of manipulative skill. We came up just as a pan was being filled, and the changes were being rung between oil and lye, lye and oil—first one tap turned on and then the other, though why this was done, and what were the conditions regulating the requisite admixture was not apparent to the unpractised eye. The boiler being full, naked steam is blown in, through perforated pipes in the bottom, and the boiling, which, we learned,

takes about a week for its completion, begins. This finished, the mass stands for some days to cool and separate the glycerine, when it is again pumped out, this time to the top of the building, where the silicate of soda is added (a little process which we were *not* invited to inspect), the scents and colours, if any, are stirred in, and it descends by gravity to the intermediate floor by wooden troughs and gutters, having sluice valves at intervals, through which it is run into rectangular iron mould-boxes of a capacity of 15 cwt. each. When thoroughly cooled and set in these, the iron ties which hold their sides together are knocked away, the sides removed, and the great cake—about 6 feet high, 2 feet wide, and 1 foot thick—removed upon a trolley to stand on end amongst a regiment of its sisters, and its cousins, and its aunts, until it grows cold and thoroughly firm.

Then appears a man armed with a piece of copper-wire. Adjusting this against one side of the block as it stands on end, he places himself at the other, braces himself with one foot against the block, and drawing the wire towards him cuts off a flat slab of soap. This operation he ceaselessly performs with wonderful exactitude, cutting off the slabs so skillfully that one might almost be weighed against another.

These slabs are seized by a corps of boys whose work it is to feed

THE CUTTERS,

in which the slab is placed by the boy, upon a sliding bed, drawn back by a winch handle to admit it. The motion being reversed, the slab is forced against a number of taut wires, placed vertically at such distances apart that the slab being driven past them they cut it into bars, which are received upon a loose hand-frame, and rapidly stamped with any desired brand by means of a hand-stamp and mallet. In the act of lifting out the frame, the bars are caused automatically to separate themselves, and the frames are stacked one upon another, to further dry the soap.

Should tablets be required—and the great run now appears to be upon this form—the bars are not stamped as described, but pass at once to the

STEAM STAMPERS,

which are worked by a man assisted by a boy. The latter receives the bars, and passes them through a small wire-cutting machine, which trims them and divides them into square cakes of a size suitable for the formation of tablets. The man, standing in front of the stamper—which is upon the principle of a trip-hammer, and consists essentially of a steel matrix surmounted by a die, which is sufficiently counter balanced to keep it when at rest tilted up out of the way—places with one hand a cake in the matrix, and gives a quick double pull to a lever handle. This results in a powerful double blow, downwards, of the die. The first stroke fills out the cake to the shape of the matrix, but in consequence of portions of air which are almost always enclosed with the cake the impression is as yet imperfect. Hence the rapid second stroke, which, the air having been liberated by the lifting of the die, perfects the sharp and clear impression requisite to the proper appearance of a finished cake of soap. The tablet is then removed with the other hand to be replaced by a fresh blank, is packed in the rapidly filling box which the attendant boy keeps ready by the man's side, and the operation is repeated *du capo*. For certain brands of soap a wrapper of printed paper is placed round each tablet, and of one sort we were informed that two millions were always printed at once, whilst for handbills and box-labels three large printing-machines at a Manchester printer's run continuously in execution of this firm's work.

BOX-MAKING.

Other and older-fashioned stampers are used, having much the appearance of a 6-feet waterwheel, but, their output not being so rapid or so economical as the newer pattern, they are being supplanted by their mere successful rivals—the survival of the fittest once again. From this room we are conducted, across a foot-bridge, to a separate building, where is working the speciality, the show-machinery of the house—a set of machines, four in number, which, attended each by a man and a boy, turn out finished soap-boxes at the rate of

3,000 per day of ten hours. The boy sits up aloft, feeding nails, points downwards, into little hoppers, which move in an endless band forwards, over, and discharge their contents into, brass feed-pipes, which in turn deposit the nails under steel plungers with every stroke of the machine. The man, standing in front, seizes two flat boards, lays them in an iron gauge-plate upon the table before him, crosses them at one end with a stouter piece, and presses down a treadle. There is a crunch and a rattle; up go the plungers again, and four nails are seen clinched in the woods. Four more come down the tubes; whisk! round go the boards; another crosspiece over the other end; tread—rattle—bang! one side of a box is done. With the left hand it is passed on to the next man; with the right two more are seized from the pile at his elbow, and so the round is begun again. The next man joins sides and ends; another puts on the bottoms; another looks them over, and with a hand-hammer clenches any wandering nail which has not travelled in the right way; whilst all about flit boys, removing boxes, supplying boards cut to size ready for the use of the machine men; whilst out of all the din and seeming chaos flows a steady, never ebbing stream of finished soap-boxes, which are stamped with any requisite brand by printing from an ordinary stereotype plate in a printing-machine.

Having now followed out one—the mainly interesting—branch of the birth and early days of a piece of soap, we are whisked in steam lifts down to the stores in the basement, where we duly inspect small hills of brown Windsor, pale primrose, blue mottled, or of magic soap; with the thirty-five railway trucks and real live booking-clerk aforesaid—he was very harmless looking, and had evidently been caught quite young. Here the inquisitive gentleman, who has been heard perpetually babbling away in one part of the crowd or another, imparting some original information to whomsoever he could get to listen, again perks up. “How much water can you get into a piece of soap, Mr. Gossage?” he pipes. “Ninety per cent., sir,” and with a dry twinkle in his eye our guide marches us off through the smithy and engineer's shop, which is a busy and well-appointed department (for a soap-maker gets through a lot of gun-metal and iron work) to the alkali sheds, where we are shown the manufacture of caustic soda, with its apparatus of revolving and reverberatory furnaces, and large pans for crystallising in. By the way, this is said to be one of the only two works in England where soda is crystallised upon an upstairs floor. Here there is nothing special to report, nothing that is not to be seen, and seen upon a larger, better scale, elsewhere, any day. We, or some of us, cast an anxious, despairing glance around, if perchance we may even yet catch a glimpse of those silicate of soda operations which our fancy has painted in such interesting colours; but no such luck. With a polite expression of our guide's pleasure in showing us the various processes carried on by his firm, and a word or two of hearty thanks from us for the trouble undertaken upon our behalf by him, we part, just glancing in leaving through the new laboratory now in process of erection, and the essential oil store, where were to be seen many cases bearing the initials of a firm familiar to readers of THE CHEMIST AND DRUGGIST advertisement pages: “W. J. B. & Co.”

Upon the whole, ungracious though it may be, I must plead guilty to feeling a little disappointment at the net result of the work seen. One expected more labour-saving appliances and quicker working machinery in several departments. On this head, however, it is perhaps safer to remember that the proof of the pudding is in the eating. Probably the principals know well what they are about. But it was certainly to be hoped that something would have been visible of the latest methods of concentrating and purifying the glycerine liquors, that their own plain and colour printing would have found room in the works; and particularly was it disappointing that the manufacture of silicate of soda, of which the house is perhaps the largest maker in the kingdom, was not open to inspection. As an out-of-the-way branch, it would have had a peculiar interest. Still, no man with any interest in mechanical or chemical processes can go through a large factory like this without enjoying himself, and also enlarging his mind and ideas by observation of the methods and arrangements by which the labour of hundreds of workers in many different, and often widely distant, co-ordinate departments is controlled, systematised, and timed to come together in one perfect stream at last.

PERIPATETICUS.

HISTORIC PHARMACIES.

It has been suggested to us that sketches of some of our leading pharmacies would be of interest, especially to chemists abroad and in the country, to whom they are names and nothing more. Our artist has prepared a sketch indicating the external character of half-a-dozen of the best known establishments in London, and we append a few historical notes concerning each. If we can obtain permission we will at a future time present some details of the internal arrangements of some of these and other pharmacies. We should like to add that the information we asked for was given to us with the greatest courtesy by all the firms named, though in some instances there was some modest reluctance to figure so prominently. Therefore it should be understood that for the statement of the particulars we are ourselves entirely responsible.

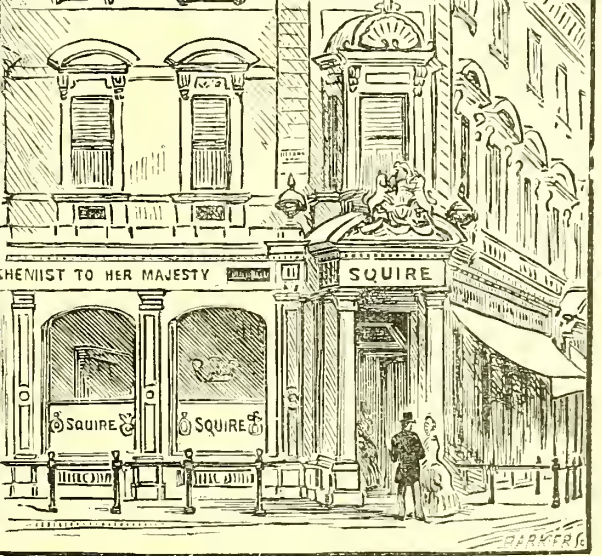
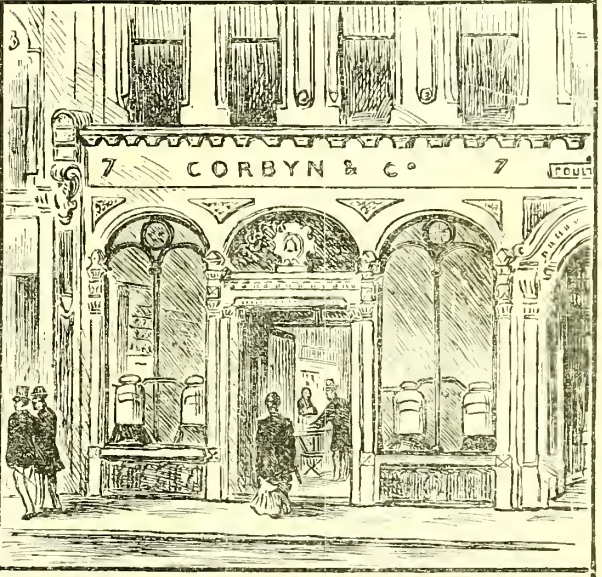
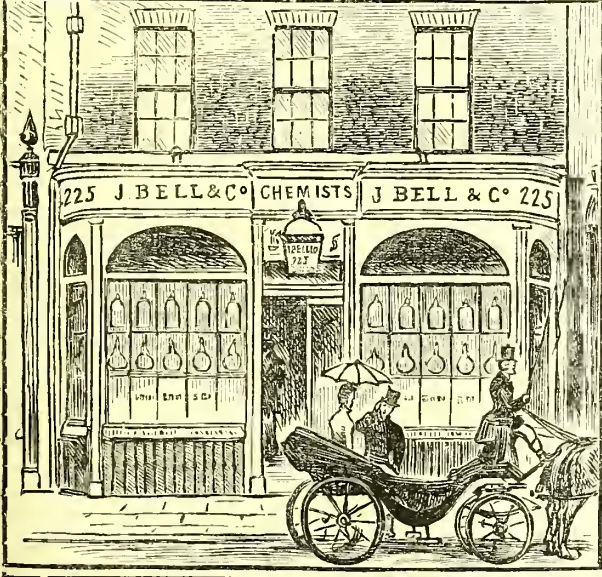
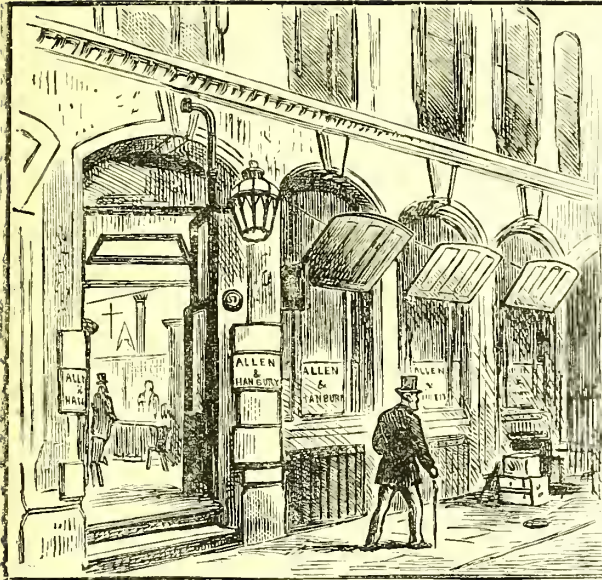
Messrs. Allen & Hanburys' handsome new pharmacy in Plough Court, Lombard Street, was built in 1872, but the spot has a peculiarly interesting history not only in the records of pharmacy but also in those of philanthropy and literature, as our brief notes will show.

The property in Plough Court was left to the Haberdashers' Company in 1646 by Sir Nicholas Raynton, a former Lord Mayor of London. At that time the building in Plough Court was a residential mansion. The Haberdashers' Company were, and still are, charged with pensions of 17s. per annum each to twenty-four poor persons out of the proceeds of this bequest. They let the house in 1649 to one Caldwell Farrington, citizen and haberdasher, for 29 years, and some adjoining shops to other persons for similar terms. The whole of the property was destroyed in the great fire of 1666, and new buildings were put up and new leases granted for extended terms; but in 1679 the Company agreed to the transfer of the lease to John Osgood, a noted quaker and wholesale linen merchant. Osgood, apparently, underlet the shop to Nathaniel Pope, also a linen merchant, who was probably living there in 1688, when his famous son, Alexander Pope, the poet, was born, in all probability in the very house which Messrs. Allen & Hanburys demolished in 1872. Nathaniel Pope, being a Roman Catholic, probably left London in 1688, at the time of the Revolution, so that the poet could not have occupied any part of the old house for many months. In 1695 Salem Osgood, the son of John, seems to have been living in the place, and a granddaughter, who inherited the estate of Holfield Grange, Essex, married John Hanbury, whose descendants (the bankers) have recently rebuilt the ancient mansion. About 1730 Silvanus Bevan, an apothecary, who was one of fifteen children of Silvanus Bevan, merchant of Swansea, removed from the Poultry to Plough Court. Soon afterwards he took into partnership his brother Timothy, also an apothecary. There has been no break in the continuity of pharmacy on those premises since.

The Bevans were people of great consequence in the city. On the marriage of Silvanus to Elizabeth, daughter of Daniel Quare, a clockmaker, of Exchange Alley, Sarah, Duchess of Marlborough, the Venetian Ambassador, and other representatives of the upper classes were among the guests. A still greater personage, William Penn, is also believed to have been present. Silvanus afterwards married Martha Heathcote, but he left no issue. Timothy, his brother, married first Elizabeth Barclay, and afterwards Hannah Gurney. His eldest son Silvanus became a banker, and his second son Timothy Paul became associated with himself in the pharmaceutical business. Subsequently, however, Joseph Gurney Bevan, a younger son, became proprietor of the business. He was not

himself an apothecary, but employed an assistant named Cox. From him the business passed in 1794 into the hands of Samuel Mildred, brother of a neighbouring banker, and with him was joined in partnership the famous and excellent William Allen. Mr. Mildred retired three years later, and William Allen then took into partnership Luke Howard, a philanthropist and man of science, like himself. Under their united management the business prospered largely, and soon a chemical laboratory was established at Plaistow in connection with the pharmacy. This was afterwards removed to Stratford, and in 1807 Luke Howard took over that portion of the enterprise exclusively, while William Allen retained the pharmacy. The history of the Stratford branch, which has become familiar to every pharmacist, need not be further dwelt upon here. In 1806 William Allen married Charlotte Hanbury, and at a later period, her nephews, Daniel Bell Hanbury and Cornelius Hanbury, became associated with him in the business. Previously, however, he had, as partner, a congenial spirit, whom he had himself trained, John Thomas Barry, who, like himself and all his predecessors and successors, was a member of the Society of Friends. At that time Plough Court was a centre of religious and philanthropic activity. The Lancastrian system of education and the movements for the abolition of slavery and of capital punishment were cradled in that house. We need not here remark at length on the subsequent history of the firm. After the death of William Allen the business passed into the hands of Daniel Bell Hanbury and Cornelius Hanbury, his brother. Their sons, Daniel Hanbury, the best pharmacologist of his time and the author of *Pharmacographia*, and Cornelius Hanbury, worthily maintained the high reputation which their ancestors had won; and in late years, under the management of Mr. Cornelius Hanbury and of his son Frederick Janson Hanbury (who has attained eminence as a botanist), the old business has developed largely in many new directions. It is interesting to note that William Allen, Luke Howard, and Daniel Hanbury were all Fellows of the Royal Society.

Apothecaries' Hall must certainly rank among the famous historic pharmacies of London. The retail department, or "dispensary establishment," as it is officially termed, dates from 1820 only, but the laboratory and wholesale warehouses generally have a much more ancient origin. The Society of Apothecaries is one of the London guilds. It was officially split off from the Grocers' Company by James I. in 1617, and the apothecaries believe that some special honour was intended towards them in the fact that they were incorporated by that monarch not as a company, but as a "society"; the latter term being supposed to signify an association of scientists rather than of mere traders. In 1623 the apothecaries formed a plan for supporting a sort of co-operative dispensary for compounding galenic preparations. In 1671 a chemical laboratory was founded by subscription amongst the members of the Society. For some years the chemicals manufactured were supplied only to members, but about the year 1682 it was decided to permit their sale to the public, and in the early part of Queen Anne's reign the Society was asked by the Government to undertake the provision of the navy with drugs and medicines, and large additions to the building and apparatus were made in order to meet this new demand. Government business has ever since formed an important part of the transactions carried on at the establishment in Blackfriars. In 1830 the old joint-stock proprietorship of the business was transferred to the Society as a corporate body. Some eminent pharmacists have been among the managers of Apothecaries' Hall. In the early part of this century the famous chemist, Professor W. T. Brand, superintended the laboratories; with



him was associated Mr. Hennell, who was afterwards killed at the Hall by an explosion of fulminating silver. Then came Mr. Robert Warrington, well known in pharmacy as one of the editors of the first British Pharmacopœia, the chemical and pharmaceutical processes of which were worked out in many instances in the Society's laboratory. Mr. Alexander Young Stewart became superintendent in 1869, and on his resignation in 1880 the present general superintendent, Mr. Robert H. Davies, F.I.C., public analyst for Hammersmith, and a former Bell scholar and medallist of the Pharmaceutical Society, was appointed, and still retains the management.

John Bell & Co., of Oxford Street, have another twelve years to run before they can celebrate their hundredth birthday. The founder of their business, John Bell, whose name still lives, as it deserves to do, in the style of the firm, was a very interesting character. He was one of the strictest of the sect which has furnished so many eminent and prosperous pharmacists. His father Jacob was a mast-maker at Wapping, who abandoned a prosperous business when the American war broke out rather than gain his income by rendering any assistance to a Government engaged in proceedings which were so abhorrent to his soul. He became a hosier, and a poorer man. His second son, John, afterwards the pharmacist, was born on Fish Street Hill in 1774. He was apprenticed to Frederick Smith, a chemist and druggist, of the Haymarket, and studied for a physician at his father's desire. He attended lectures conscientiously, but the idea of medical practice repelled him, and his first and last attempt at an operation—that of bleeding a patient—so unnerved him that he resolved to abandon the profession. What became of the poor patient is not recorded. John Bell continued, therefore, after his apprenticeship to serve his master for a while as an assistant, looking out meanwhile for an opportunity to start in business for himself. A quotation from his journal at this period indicates his character, and at the same time leads us to the proper business of this note. Writing on August 17, 1798, he says:—

“Observed, on my return home from seeing a poor woman, a shop to let, which seems a little to strike me, though with a fear lest I should err in judgment. It would truly be considered a peculiar favour to be rightly directed so as to have peace and confidence afterwards, as with a superior licence in a matter of so great importance in knowing the right place. This must all be left, as I have never wanted yet, and if I may be so favoured as to keep my place, however unworthy, will not an allwise bountiful Providence care for me? How is it with the sparrows and the lilies? though truly can I have so great a right as they? since they have never sinned like me.”

With all his desire to suppress his ambition, John Bell looked again and again at that shop to be let, but could not for some time muster up courage to take it. His employer and his father, however, both urged him to the step, and the latter advanced him 400*l.* to stock and fit it. The stocking order was executed on November 24, 1798, and the bill came to 86*l.* 13*s.* 9½*d.*

The story of John Bell's first day of business is so quaint that it must be told in some detail. His receipts that day amounted to ten shillings, but he lost half a guinea over one transaction:—A customer who came in for some trifling article wanted change for half-a-guinea. This was rather a large sum to raise so soon after opening the shop, and Mr. Bell had occasion to search his pockets, as well as a drawer in the counting-house, in order to find the amount. The customer, observing the difficulty, said it was of no consequence, as he had some change. Just at this moment the amount of change was collected and laid on the counter. The customer, who had already put the half-guinea in his

pocket, perhaps inadvertently, took up the change as well, and went off with both, the young chemist being so bewildered that he did not realise the event until several minutes afterwards. This mishap discouraged him so much that he despaired of success altogether, considering it a proof of his incapacity to “cope with the world,” or manage a business on his own account.

So complete was his despondency at the supposed hopelessness of his case that he did not think it worth while to light the lamps in the evening. A neighbour, who had taken a kind interest in his proceedings, observing the shop dark, came in to inquire the reason, and, on being informed, used all his endeavours to dispel these gloomy ideas, declaring that he would light the lamps himself rather than allow his friend to be overcome by such a trifle. This was all to no purpose, and in the morning young Bell went to an uncle, who had acted like a second father to him on previous occasions, and informed him of the determination at which he had arrived to dispose of the shop as it stood, before he had made his position still worse by becoming involved in debt. He would rather, he said, remain in the capacity of an assistant all his life than continue in business at the risk of his creditors; with the prospect which stared him in the face of becoming a defaulter.

Much persuasion was necessary to encourage him to give his enterprise a further trial, and this persuasion had to be repeated when at the end of the first year it was found that, notwithstanding the most rigid economy, the expenses had exceeded the receipts. Through all his discouragement however, John Bell never swerved from his determination to sell nothing but absolutely pure articles. In the second year his business improved greatly, and soon he was able to pay off the money which had been lent him. In 1800 he took an apprentice, and in 1802 married a daughter of his former master. His business grew rapidly, and in 1806 he employed two shopmen and three apprentices. He seems to have acquired some popularity as a counter prescriber, though his biographer is careful to state that he never encouraged that kind of trade. He was as attentive to poor as to rich customers, and it was a favourite remark with him that he often had “twelve customers for a shilling.” As long as he controlled the business his shop was always closed till noon on Thursdays in order to give a part of his staff the opportunity of attending “meeting.” This practice caused great inconvenience by occasioning a perpetually-recurring belief that Mr. Bell was dead. In 1819 John Bell somewhat relaxed his attention to business and gave partnerships and the active management to two former apprentices, Thomas Zachary and John H. Walduck.

Some years later his son Jacob Bell was apprenticed in the business, and afterwards became its head. John Bell, however, lived to the age of 75, and only died in 1849. In his later years he became very infirm, but was always patient and cheerful. In his last illness, he retained the possession of his mental faculties to the end, and in taking leave of his family his only anxiety appeared to be on their account: with regard to himself he was calm and resigned, and his constitutional nervous timidity, which had been his constant companion through life, forsook him at the hour of death.

Jacob Bell, who succeeded to the control of the business, was a man of very different stamp. High-spirited, brilliant, fond of society, fond of sports as well as of public life, he must have caused his father many anxious hours. Possessed of ample means and high intellectual culture, Jacob Bell became known in the worlds of art, letters, and politics. His public work in promoting the interests of pharmacy cannot be entered upon here. When he began the organisation of the Pharmaceutical Society his father sympa-

thised with him, but never believed in the possibility of success. To him success, would have been impossible; but to his son—genial, hopeful, supple, and untiring—it was a labour of love. When Jacob Bell died, in 1859, he left his share in the Oxford Street business to his friend Thomas Hyde Hills, who had been made a partner a little before the death of John Bell, having been engaged in the business for fifteen years previously as an assistant. Mr. Hills is still the head of the firm, but his nephew, Mr. Walter Hills, has of late years taken his place in the more active duties of the management.

Messrs. Corbyn, Stacey & Co., may perhaps claim the longest ancestry of any London pharmacy, though it must be added that their records are not very definite. About 1720 there was a firm of apothecaries in Holborn carrying on business as Brown & Clutton, but how long they had existed or whom they succeeded is not to be traced. Thomas Corbyn joined that business at somewhere near the date named, and shortly afterwards the style appears as Clutton & Corbyn, but the latter seems to have been the chief if not the sole partner. He was evidently a strict quaker, and it is clear, from books which the firm still possess, that he did an extensive export business as well as a general retail trade. Before he died he took into partnership three of his former apprentices—Messer, Stacey, and Beaumont. All these were quakers, like himself. The firm then became known as Corbyn, Messer, Stacey & Beaumont. No subsequent Corbyn nor Beaumont appears in the firm, but the descendants of the Messers and the Staceys carried on the business for about a century. The Messers left the firm some ten years ago, and the Messrs. Stacey who are at present the principals are the third and fourth generation in direct descent of that family who have been engaged in this business. The Poultry business, which was bought by the firm some thirty years ago, had been previously carried on in the name of Burkett & Winstanley, and can be traced back to the other side of the Great Fire in 1666. The old stone sign of the shop, Bel and the Dragon—which was a common one among apothecaries—was found when the excavations were made for the establishment. It is now built into one of the inner walls of the Poultry pharmacy. We may here mention too that among the mortars used at Holborn is one bearing the date 1622 and another 1666. On the death of Mr. Bucklee, in 1863, the firm bought his business at the corner of New Bond Street and Oxford Street, and thus established a West-end branch, and a few years since advanced further East by purchasing the old business in Leadenhall Street, known then under the style of Darby & Gosden.

Messrs. Savory & Moore's business is not traceable to a quaker origin. It was established on the spot still occupied by the firm, somewhere about the year 1780, by an apothecary named Paytherus. He was eventually joined in partnership by Thomas Field Savory, and before long the business, which acquired the style of Paytherus, Savory & Co., began to grow in importance. Bond Street was then, as it still is, one of London's most fashionable thoroughfares, and this business early acquired a high reputation. On the death or retirement of Paytherus, Mr. T. F. Savory took into partnership an apothecary named Moore, who, at the time of joining him, was in extensive practice in another part of the town, which practice he continued after joining the firm. This change originated the title which has become so familiar wherever British pharmacy is known. After a time Mr. Moore retired, and resided in Dorset Square. Mr. T. F. Savory then admitted into partnership his nephew, John Savory, who afterwards succeeded to the entire possession of the business. John Savory took a prominent part in the discussions which resulted in the formation of the Pharmaceu-

tical Society, and became President of that body in 1844. William Allen had been the first President of the Society, and on his death Mr. C. J. Payne was elected to the Presidency with Mr. John Savory as Vice-President. Mr. Payne resigned a few months later, and Mr. Savory succeeded to his office, Mr. T. N. R. Morson being chosen as Vice-President. Mr. T. F. Savory died in 1847.

John Savory had two sons, who were both with him in the business. The elder one, Thomas, predeceased his father; the younger, Charles Harley, succeeded to the business on the death of his father in 1871. Mr. William Robert Barker joined Mr. C. H. Savory as partner, and the association was continued until the death of the latter in 1874. Mr. Barker is now at the head of the firm, and with him are associated Mr. Arthur Ledsam Savory, the eldest son of his late partner, and Mr. Charles Ekin, who joined the firm about three years ago.

Besides their original pharmacy in New Bond Street, which is the one represented in our sketch, Messrs. Savory & Moore have branch businesses at Chapel Street (established in 1849), and at Lancaster Gate (established in 1864).

The pharmacy which has attained high rank under the name of "Squire" was established towards the end of last century by a Mr. John Scott, and was purchased by the late Peter Squire in 1831. Mr. Squire's history was so fully recorded at the time of his death in 1884, and moreover was narrated by ourselves in April 1875 when we published his portrait, that we need not now repeat the personal part of the history. Mr. Squire won for himself and for pharmacy the special honour of being gazetted as on the staff of the royal household. His immense industry and capacity as a pharmacist enabled him soon after he had established himself in the shop at the corner of Duke Street to attract the attention of many physicians, Sir James Clark, the physician to the Princess Victoria, being among these. By the favour of Sir James Clark, Peter Squire was appointed "chemist in ordinary to her Majesty" on her accession in 1837, a pharmacist thus first displacing the apothecary who had theretofore prepared royalty's medicaments. This appointment was perhaps the first official recognition of pharmacy as a profession. All sorts of tradesmen, including chemists, get warrants of appointment as purveyors to the Queen, but Mr. Squire was gazetted and salaried like the physicians, the surgeons, and the accoucheurs of the household. The appointment was held by Peter Squire alone until 1867; at that date his son, Peter Wyatt Squire, was associated with his father, and in 1877 Alfred Herbert Squire was associated with his brother in place of Peter Squire, retired. Messrs. Squire & Sons now own one of the handsomest pharmacies in London. The present premises were erected in 1872. Our sketch only shows the Duke Street frontage; three windows face Oxford Street.

VANILLIN IN ASAFŒTIDA.

MR. E. SCHMIDT, while engaged in the preparation of ferulic acid from asafœtida, observed in the last mother-liquor of the acid a pronounced odour of vanillin. This observation has been followed up by Leincke and Denner, who have succeeded in isolating vanillin from the drug. The *modus operandi* employed is as follows:—The resin is powdered and repeatedly treated with ether, the filtered solutions shaken up with a concentrated solution of sodium bisulphite, the alkaline solution acidified with sulphuric acid and again extracted with ether. The crude vanillin obtained after distillation of the ether is again treated with sodium bisulphite, sulphuric acid, and ether, and the ethereal residue is mixed with a little water, filtered, and crystallised over sulphuric acid. The vanillin appeared in well-shaped, easily volatilised crystals, melting at 81° to 82°, and possessing all chemical and physical properties of ordinary vanillin.

PHARMACY IN CANADA.

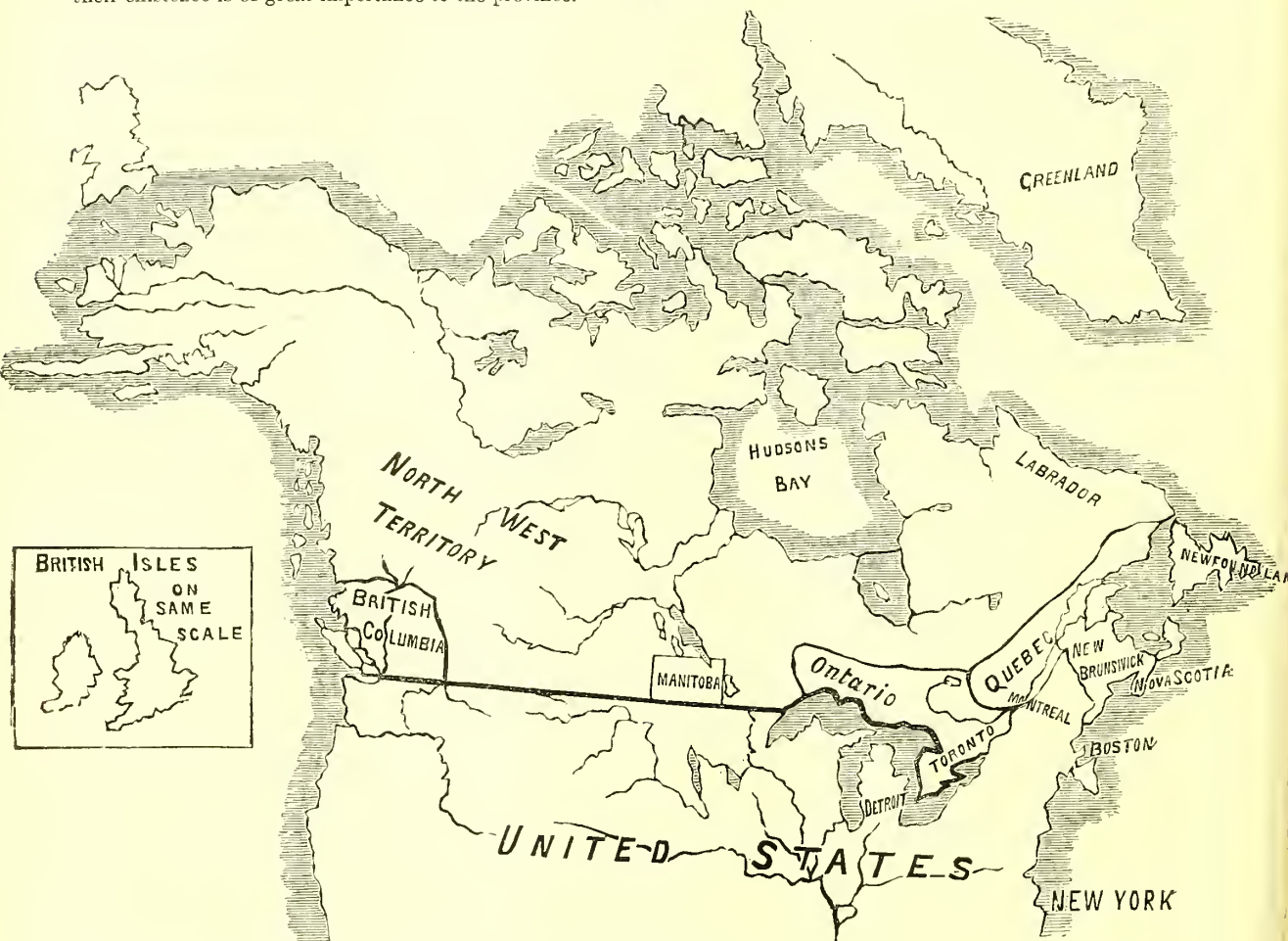
BY ALFRED H. MASON, F.C.S.

[Completion of a paper the substance of which was delivered as a lecture by the author to the Liverpool Chemists' Association in the spring, and which has been since written out for this journal. The first part of the article, treating on pharmacy in the provinces of Ontario and Quebec, appeared in THE CHEMIST AND DRUGGIST of May 23, 1885.]

NEW BRUNSWICK.

THIS Province comprises an area of 27,174 square miles, and has a population of about 322,000. The chief industrial pursuits arise from the produce of the forests and the fisheries. Coal is abundant; antimony, copper, iron, and other minerals are found in considerable quantities, and their existence is of great importance to the province.

mony, tartarised or tartar emetic; arsenic and its compounds and preparations; atropia and its salts; belladonna and its preparations; cantharides and its tincture; chloroform, chloral hydrate, and croton chloral hydrate; chloride of zinc; conium and its preparations; conia; colchicum and its preparations; creasote; croton seeds and their oil; cyanide of potassium, and all other cyanides; digitalis and its preparations; digitaline; claterium; ergot and its preparations; essential oils of bitter almonds, cedar, rue, savin, and tansy; ether; euphorbium; Goulard's extract of lead; henbane and its preparations; hellebore, black, white, and green, and their preparations; Indian hemp and its preparations; iodine and its preparations; mercury, all poisonous compounds of, including corrosive sublimate, red and white precipitates, and iodides of mercury; morphia and its salts and preparations; nux vomica and its preparations; opium and its preparations, except paregoric; pink root; phosphorus;



There is a Pharmaceutical Society, which was incorporated by Act of Parliament, April, 1884, and the interests of pharmacy are protected thereby. The association holds meetings chiefly for the business connected with the working of the Act, but also for the mutual improvement of the members by the discussion of pharmaceutical and other scientific subjects.

From and after October 31, 1884, it became unlawful for any person but one duly registered in accordance with this Act to assume or use the title of "Chemist and Druggist," or "Chemist," or "Druggist," or "Pharmacist," or "Pharmaceuticalist," or "Apothecary," or "Dispensing Chemist," in any part of this Province. Heavy penalties may be recovered in a summary manner, and the onus of proof lies with the infringer of the Act. The sale of the following poisons is confined to duly registered pharmaceutical chemists:—

Poison Schedule.—Acids—carbolic, muriatic, nitric, oxalic, hydrocyanic; aconite and its preparations; aconitia; anti-

podophyllin; savin and its preparations; santonine; scammony; St. Ignatius beans; stramonium and its preparations; strychnia and its salts and preparations; veratria, and all poisonous vegetable alkaloids and their salts.

There is only one examination. The candidate must satisfy the Council that he has served as assistant in a drug store for not less than four years, and that for at least two of these years he has been employed in dispensing prescriptions. He must write a plain and legible hand, and must spell correctly; must possess a knowledge of English grammar; the first four rules of arithmetic, vulgar and decimal fractions, and the rudiments of the Latin language. *Materia medica, &c.*—He must recognise specimens of drugs (as roots, barks, leaves, gums, fruit, &c.) used in medicine, and must be able to judge correctly of their quality. He must know their sources, habitat, and commercial history, their medical properties, uses, doses, and incompatibles; must name the official preparations into which they enter, and the antidotes to be

administered in cases of emergency for the more ordinarily occurring poisons. Chemistry, &c.—He must possess a knowledge of the laws of chemical combination, the nature and properties of chemical elements and their compounds, recognise the acids, oxides, salts, and other definite chemical bodies of the Pharmacopœia, judge of their quality, describe the process by which they are produced, and explain the decompositions that occur in their production and admixture. He must be acquainted with the method of taking specific gravities, and of testing the purity of the chemicals used in medicine and pharmacy. Practical Pharmacy.—He must possess a thorough knowledge of pharmaceutical processes, recognise the galenic preparations of the Pharmacopœia (as extracts, tinctures, powders, &c.), describe the method of their preparation, and the composition of such as are compound, and state the proportion of their active ingredients. He must be acquainted with the injuries to which drugs are liable by age or otherwise, affecting their quality, and the proper means and precautions for preventing their deterioration. He must possess a familiar knowledge of the weights and measures in use in the British, American, and French Pharmacopœias, must be thoroughly acquainted with the British Pharmacopœia, and the difference between its preparations and those of similar names in the United States Pharmacopœia. Dispensing.—He must read written prescriptions, translate them into English, write out at full length all abbreviated words in a neat and distinct hand, and detect incompatibles, and unusual or dangerous doses. He must weigh, measure, and compound medicines, and finish and properly direct each package. The examination is conducted as far as practicable by means of written or printed questions, to which written answers will be required. These may be supplemented by oral examinations at the discretion of the examiners. Every candidate is examined in *each* of the foregoing subjects by *two* or *more* of the examiners. The examination fee is \$5, and the fee for the diploma is also \$5.

NOVA SCOTIA.

Nova Scotia comprises (with Cape Breton Island, formerly a distinct colony, but now incorporated with Nova Scotia, 3,120 square miles, population 34,262) an area of 20,907 square miles, one-fifth part of which consists of lakes, rivers, and inlets of the sea—population (1881) 440,572.

The harbour of Halifax is not surpassed by any in the world. It is the principal naval station of North America, and the Imperial Government have an extensive dockyard there. Coal and iron ores are plentiful; the principal fisheries are upon the east coast.

There is an incorporated society called the Nova Scotia Pharmaceutical Society, established in 1876. Examinations are held once a year, and the requirements from candidates are exactly the same as those exacted by the New Brunswick Society before referred to. The Poison Schedule is also the same, showing that the New Brunswick Society, which was established in 1884, goes upon the lines of its senior.

At the last annual meeting the Registrar reported a membership of sixty, of whom fifty are engaged in business on their own account.

PRINCE EDWARD ISLAND.

Prince Edward Island comprises an area of 2,133 square miles, and its population (1881) was 108,000. The inhabitants are almost exclusively engaged in agriculture, considerable attention, however, being devoted to the fisheries and to the breeding of horses and sheep.

There is no pharmaceutical organisation in this island, and in the majority of cases the distribution of drugs falls to the lot of general storkeepers, those who have the principal drug-stores holding medical qualifications. There is, however, no evidence that the inhabitants suffer from the lack of stringent regulations for their safety, and those who handle drugs seem to make a good thing out of it.

MANITOBA,

formerly the Red River settlement, appears destined to become a great agricultural country. The New Canadian Pacific Railway, to which I will refer later, together with projected branch lines, is sure to give an important impetus to the rapid development of this province. Its area is computed at 123,200 square miles, and its population in 1883 numbered about 135,000. Since that time there will have been

a material increase from the constant arrival of immigrants. The capital is Winnipeg. The province has an incorporated Pharmaceutical Association, and an Act was obtained in February, 1878. It is modelled upon the lines of the Quebec and Ontario Acts of that period, but is more complete in some of its details, and is intended to follow more closely the Pharmacy Act of Great Britain, which formed the basis of both. Thus three examinations are required: Preliminary, Minor, and Major; the first to be passed by youths before they become apprentices; the second before taking the position of certified clerks (assistants), and the last by those who wish to conduct business for themselves and be registered as licentiate pharmaceutical chemists. Candidates for the last degree must also submit evidence that they have served at least four years in a drug-store, and have attended two courses of lectures on chemistry, two on materia medica, and one on botany. At present, however, I am informed that there is no constituted board of examiners in Manitoba College, and students generally attend the Ontario College, and qualify there.

The number of members of the Manitoba Pharmaceutical Association was very limited until the boom in 1882. At that time there were not more than 25 druggists in Manitoba and the entire North-West Territories.

It is estimated that at present there are 50 licentiates and 20 certified clerks and apprentices, besides those trading as druggists holding medical qualifications.

There are not many places, however, large enough to support a *bonâ-fide* drug-store. Winnipeg is a fine city, and the druggists, wholesale and retail, do well there. Emmerson, West Lynn, Morris, Nelsonville, Portage, Brandon, Regina, and Rapid City are the other chief places. New towns soon open up as immigrants arrive from different parts of the world.

BRITISH COLUMBIA

is situated on the west coast of North America, and includes Vancouver Island and Queen Charlotte Isles. Vancouver Island is about 270 miles in length, with an average breadth of 50 miles; its area is estimated at 12,500 square miles, the greater part of which is at present unexplored. In 1859 it became a British Colony, and in 1866 was united to British Columbia. The *total* area is calculated at 341,305 square miles, and the population is estimated at 60,000.

Until 1858 British Columbia formed part of the Hudson's Bay Territory, but in that year large discoveries of gold were made, which, attracting a vast immigration of gold-diggers, rendered it necessary for the British Government to take measures for the maintenance of order, and the country was made a colony. Besides gold, British Columbia produces magnificent timber and good coal. The yield of coal from the mines has increased from 81,000 tons in 1874 to 394,000 in 1884, and of these 306,000 tons were *exported*. The fishing industry is also becoming very important. Salmon of excellent quality are found in the rivers. Many thousand tons of salmon are tinned and exported to England yearly. The fur trade also is notable, the skins exported being chiefly those of the mink, marten, sable, silver fox, bear, beaver, sea and land otter, seal, deer, elk, and others of minor importance.

The Canadian Pacific Railway across British Columbia has its terminus on the Pacific coast at Vancouver, and freight trains have already run over the course. It will doubtless greatly develop the resources of this extensive region.

Lines of steamers in connection with the Canadian-Pacific Railway are shortly to run between India, China and Japan, and Australia, shortening the distance to East Japan fourteen days, and to China ten days, the overland route being entirely through British territory; and the Home Government are negotiating with the Imperial Government for the conveyance of mails by this route, the immense importance of which cannot be over-estimated in view of any stoppage in the Suez Canal, as it opens another highway to India, and one entirely over British territories.

There are only sixteen druggists at present in British Columbia; there is no pharmaceutical organisation, therefore no stipulations as to evidence of qualification before commencing business as a chemist and druggist. This is a want already recognised by those interested, and they have under consideration the desirability of instituting an incorporated pharmaceutical society in the province.

From reports I have received from those who have visited

these places, and communications from the chemists, there is every evidence that pharmacy in British Columbia, in face of these obstacles, is well conducted.

Supplies have hitherto been obtained from England (generally six months *en route*), and from San Francisco, but, with the facilities of rapid transport now offered, Montreal or Toronto will doubtless supplant these sources. The rates of freight from these centres to Vancouver are to be 1c. per lb. for heavy chemicals, and 2½c. per lb. for fine drugs, &c.

As there seems to be a general idea in England amongst those who have not visited Canadian territories that the people are in a state of semi-barbarism, very much behind the times, that it is a little place with a awful climate, and that going there means putting up with wholesale privations, the foregoing facts and data may astonish you, and I may add a few others. Canada has splendid cities with fine buildings; her seats of learning and system of free high-class education she is naturally proud of. Medical students graduating from McGill or Queen's hold their own with those of many other countries, and become in many cases eminent as specialists and useful as general practitioners. Some think there are too many of them for the population. Canadian pharmacists, too, are men of high standing, always to the front (as in England) in public matters in their own centres, where intelligence, light, and leading, rise to the top.

The elegance of the shops or stores occupied by chemists and druggists would strike many of you. The fixtures are generally of white, with gold decoration, and fitted with bottles with recess labels, handsome show and counter cases, in many instances with handsome soda fountains, and scrupulously clean, following more the style of American stores in large cities.

The leading establishments have a good share of dispensing practice, and good prices are obtained. One feature differing from the English practice is that the pharmacist always retains the original prescription. The patient may have a copy, if desired, but never the original. Perfumery, toilet requisites, patent medicines, and proprietary articles, &c., are added to their merchandise; rarely, if ever, do you find them infringing upon the grocer's or tobaccoconist's calling.

Good prices are obtained for patent medicines, as a rule; any cutting is amongst themselves, and quite unnecessary, for as yet they are not annoyed by the competing draper or grocer.

Often a qualified medical man is in partnership with a chemist, and prescribing becomes legitimate; otherwise matters on this score are the same as in England.

The British Pharmacopœia is the recognised standard from which to dispense prescriptions (when quack medicines are not prescribed), but fluid extracts are largely employed, and from these the pharmacist often prepares his tinctures, infusions, &c. Concentrated infusions are not sold, and as some of the lecturers of the medical colleges uphold the use of fluid extracts they are frequently prescribed. Our ordinary extracts are designated solid extracts.

In the compilation of the British Pharmacopœia, the authorities of course only recognise what is suitable for the requirements of their own country; they therefore remove or add such articles as the medical representatives see fit. It would perhaps be worth while, as the compilation is adopted in the colonies, to consult some authorities from such colonies. Climate, for instance, needs to be taken into account. The intense heat of the Canadian summer (often 120° F. in the sun and 85° F. in the shade), which is to a great extent maintained in private houses and stores in winter, and winter cold often down to 15° below zero, make a variation not thought of in England. It is evident, therefore, that the formulæ for some plasters, for instance, is quite out of the question; many require the addition of rosin. Suppositories made with cocoa butter only are useless; it is necessary to add white wax. Syrups, although little prescribed (glycerine being used to sweeten mixtures), of sp. gr. 1.330, crystallise in winter; 1.275 to 1.300 is more suitable for the Canadian climate. Sp. ather. nit. will not keep up to strength. (Where does it?) Tinct. castor. is largely used in Canada; it was removed in the last edition of the B.P.

Such considerations will doubtless cause difficulties in compiling an international Pharmacopœia, unless licence is

given; but surely, since the colonies support the authorised edition of the mother country, they are entitled to some consideration from the compilers.

An Adulteration Act was passed last year by the Dominion Legislature, entitled an "Act to prevent the adulteration of food, drugs, and fertilisers." This is drawn upon the lines of the English Act, with some improvements. This Act was compiled by the late Mr. H. Sugden Evans, who was chief Dominion analyst, and his early death, just as matters were getting into shape, will for a time, I fear, interfere with its working—for there are many black sheep in Canada as well as other countries, and the chemists suffer so much from this unjust competition that they were rejoicing that the time had come when they would be protected. There is, however, this difference between the Canadian and the English Acts:—In Canada you are licensed to adulterate as much as you please, but you must as vendor to the public distinctly tell the purchaser that the article supplied is not genuine; you must put on a label with your name and address upon it, stating that the article is adulterated, to what extent, and what the adulterant is. A leading pharmacist in Montreal, when writing to THE CHEMIST AND DRUGGIST reporting the passing of this Act, stated that the retail druggists had no need of it; they never adulterated—it was all done by the wholesale houses. This was a gratuitous assertion which fortunately cannot now be made without proof or some foundation, as all are compelled to state when an adulteration takes place, and those with a very much larger interest at stake than any retailer will not risk their reputations by attempting fraud.

In the province of Quebec there are many French stores—but of course the English language is also spoken; but elsewhere throughout the Dominion English pharmacists are established. The Indians look after themselves.

The desirability of consolidating the various Pharmaceutical Acts of Incorporation into one Dominion Pharmacy Act should receive attention. The requirements of the Quebec Act are by far the most stringent, and for this reason the authorities will not exchange diplomas with the Ontario college. It is a hardship that a man who wants to establish a business in another province than the one he has become qualified in should have to pass another examination before he can do so. The diploma of the Pharmaceutical Society of Great Britain, however, holds good anywhere—that is, the different provincial colleges will exchange that diploma for their own on payment of the necessary fee \$10 (2l. 2s.). The various poison schedules, too, should be made uniform and more consistent. Many articles are scheduled which we do not class as poisons, and which in fact are not poisons, whilst on the other hand there are some which might be well added to the home list.

The institution of a Canadian Pharmaceutical Conference on the same lines as those of the British Pharmaceutical Conference, or the American Pharmaceutical Association, is an object to be desired. As yet, want of numerical strength, and the immense distances to be travelled to a place of meeting are obstacles, but the noble band of five who met at Newcastle-on-Tyne and originated the British Conference may yet, let us hope, find their imitators in Canada. Some provincial associations have their annual gatherings, at which papers are read, excursions organised, &c., and this meeting together of those with one common object in view must lead to good results for pharmacy.

Reading a paper on this subject before the Liverpool Chemists' Association, it would be an injustice to those who hail from this association and are amongst its honorary members not to allude to the work Liverpool men have done for pharmacy in Canada. I allude to Nathan Mercer, Dr. J. Baker Edwards, and the late Mr. H. Sugden Evans, whose recent death we all so much deplore, and which comes home so keenly to me who who left him so recently in New York, little imagining the sad news which would greet my arrival in this country.

These men were the pioneers of incorporated pharmacy in the province of Quebec. They found that the so-called examinations conducted in a French medical college were a farce, and that men with a medical qualification of a kind were monopolising all the drug-stores, and keeping out suitable men. Armed with experience in this country, and aided by earnest and able men in Montreal and Quebec, they have succeeded in establishing an organisation which elevates

pharmacy and provides for its intelligent followers prosperity and respect.

Should any of my audience or readers have any idea of trying their fortunes in Canada, I would say, in the first place, that if they have any wish to communicate with me beforehand, I shall be pleased to answer any inquiries in my power. Next, I would say they will find human flesh (with white skin) pretty much the same all the world over, and that when they come to travel about the world they will be astonished to find how small it is after all. They will find Canada on the whole very enticing, the climate enjoyable, the people most hospitable and free, all ready to welcome one from the old country, and knowing how to enjoy themselves in a rational manner when work is done.

In the summer splendid rivers and lakes afford plenty of opportunity for boating, fishing, and out-door sports. The scenery is superb. True it is hot, sometimes very hot, but we know what to expect, and clothe and feed accordingly. In the winter it is cold, sometimes very cold, 20° below zero; but it is dry, and you do not feel it so much as with the thermometer below 30° Fahr. in England. Then again you know what to expect and clothe accordingly when out of doors; indoors every provision is made to keep out the cold, and, if anything, the houses are too hot. The winter sports are most enjoyable—a good tramp on snow-shoes on the hard crisp snow, several feet deep, with a keen frost and bright moonlight, braces you up wonderfully; tobogganing, sleighing, skating, &c., are sports which I hope you will understand more about after visiting Canada's display at the Colonial and Indian Exhibition. Lastly, I would recommend you, if you purpose trying your luck in Canada, to come armed with the qualification of the Pharmaceutical Society, and bring enough money with you to start business, even in a small way, and to live upon for a short time, and I am sure there is plenty of opportunity to do well.

Young men who come out not qualified must start from the beginning, pass the Preliminary examinations, and work in a chemist's shop at a remuneration to begin with, say from 10 to 15 dollars per month, outdoor, for the first year; 20 to 30 dollars per month for the second year, and 30 to 40 dollars per month for the third year. The average salary of a certified clerk is about \$600=120% per annum outdoor. Of course managers often get higher remuneration; but it is as well to come provided with the needful for some little time.

Some may entertain the idea of relinquishing pharmacy and trying farming or cattle-ranching. The best opportunities for this profitable business are offered in Manitoba and British Columbia, but some knowledge of the business is requisite, and in farming it is as well to come provided with the necessary implements and funds for the first year, and then there is little chance of not succeeding. Of course it may be possible to enter some of these young cities bare-footed and with the conventional half-crown in the pocket, and eventually to become a millionaire. But those particular half-crowns are difficult to obtain nowadays; and in Canada, as elsewhere, fortunes are only made occasionally, though comfort may be generally secured by diligent effort.

CINCHONA ASSAY.

PROFESSOR VULPIUS, in the course of a paper on the cinchona bark of the German Pharmacopœia, deprecates the assay method given therein, and suggests as an alternative process that the total alkaloids be estimated by macerating 20 grms. powdered bark with 10 grms. of 10-per-cent. ammonia, 20 grms. of alcohol (90 per cent.), and 170 grms. of ether for 24 hours, 120 grms. of the clear solution being acidified with HCl, and freed from alcohol by evaporation. The alkaloids are precipitated in the filtered liquid, made alkaline with caustic potash, dried, and weighed. The total alkaloids thus obtained are shaken with ten times their weight of ether, which is then filtered into a weighed flask, the residue well washed, and the ether expelled. The flask then contains quinine together with inconsiderable quantities of quinidine and amorphous bases. To obtain more exact results, the residue in the flask is dissolved in alcohol, the alkaloids in this solution by exact neutralisation converted into sulphates with sulphuric acid, and quinine precipitated in the usual way as herapathite, the correction being taken into account.



PARTNERSHIPS DISSOLVED.

- CRAIG & MOODY, Hanley, physicians.
 MILLER, T. J., & SONS, Milbank Street, Westminster, sperm oil merchants and spermaceti refiners, as far as regards E. A. Miller.
 SCHWEPPE, J., & Co., Berners Street, Oxford Street, Liverpool, Bristol, Malvern, Great Malvern, Derby, Glasgow, Sydney, New South Wales, Melbourne, Victoria, and Brooklyn, New York, aerated water manufacturers
 SMITH, J., JUN., & Co., Great Lever, near Bolton, bleachers and chemical manufacturers.

RECEIVING ORDERS AND DATES OF PUBLIC EXAMINATION.

- DAVIDSON, HENRY, Barnsley, drysalter. Aug. 19. Barnsley.
 HERSCHELL, GEORGE A., Moorgate Street, doctor of medicine. Sept. 3 34 Lincoln's Inn Fields.
 KING, JOHN POORE, Lancaster, mineral and aerated water manufacturer, Aug. 6. Preston.
 RAMSLAW, FREDERICK CHARLES, Great Grimsby, manager of creasote works, and blue, blacklead, and dry soap manufacturer, also trading with F. P. Roe and C. J. Bethel, at Kingston-upon-Hull, as the Hull and East Riding Drysalters' Company. Aug. 27. 34 Lincoln's Inn Fields.
 SMYTH, JAMES SPROULE, Burton-on-Trent, surgeon. Aug. 19. Burton-on-Trent.

FIRST MEETINGS.

- BRAY, EDMOND SELWYN, Smart's Buildings, Holborn, mineral-water manufacturer. August 3. Bankruptcy Buildings, Portugal Street, Lincoln's Inn Fields.
 KING, JOHN POORE, Lancaster, mineral and aerated water manufacturer. July 30. Law Society Sale Rooms, Lancaster.
 SHAW, THOMAS, late of the Hydropathic Establishment, Colwyn Bay, Denbighshire, physician and surgeon. Aug. 3. Town Hall, Colwyn Bay.

ADJUDICATIONS.

- BURDIN, ISAAC (formerly trading as Burdli & Co.), Knottingley, glass bottle maker.
 KING, JOHN POORE, Lancaster, mineral and aerated water manufacturer.

ORDER MADE ON APPLICATION FOR DISCHARGE.

- EARP, JOSEPH GUEST, Birmingham, oil and colour merchant. Discharge suspended for three months.

ORDERS MADE ON APPLICATION FOR DISCHARGE.

- BURROWS, WILSON BRAILSFORD, Bradford, assistant surgeon dentist. Discharge suspended for two months.
 RANSOME, THOMAS (trading as Thomas Ransome & Co.), Manchester, Openshaw, and Hest Bank, near Lancaster, chemist and druggist and manufacturing chemist. Discharge suspended for two years and six months.

SCOTTISH BANKRUPTS

EXAMINATION.

- JOHNSTONE, DAVID, Bristol, lately residing in Aberdeen, physician and surgeon. To be examined in the Sheriff Court House, Aberdeen, on July 26, at 2.

DIVIDEND.

- Creditors of JOHN E. ROBERTSON & Co., carrying on business at the East Lothian Chemical and Manure Works, Dumbar, manufacturing chemists and manure merchants, will receive a dividend on Sept. 11, in chambers of William Fairweather Anderson, solicitor, Dumbar.

AN Arkansas farmer reports that last year, when coons made havoc in his cornfield, he went to the drug store to buy strychnine with which to kill them. By mistake the druggist gave him morphine, and next morning he found his field full of sleeping coons. He advises the use of morphine instead of strychnine.



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By reason of an improved method of caption, by which dilution is avoided, FRIEDRICHSHALL WATER will be found now to be of CONSIDERABLY GREATER STRENGTH and EFFICACY than heretofore.

The ordinary dose is a large wineglassful (4 ounces) taken fasting. Most efficacious and more acceptable to the palate when heated or mixed with an equal quantity of very hot water.

"I know nothing at all equal to Friedrichshall. The LONGER it is taken the SMALLER is the quantity necessary to effect the purpose."

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Of all Chemists and Mineral Water Dealers. [2]

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PATENT
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BLOCK
FILTERS.

SEE ADVERTISEMENT, PAGE 102.

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In 7-lb., 14-lb., 28-lb., 56-lb., and 1-cwt. bags, 28s. per cwt. net, bag included, delivered free in London. [1]

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For W. J. BUSH & CO'S Advertisements
See pages 4 to 7.

EDITORIAL NOTES.

THE SECRET OF SUCCESS.

WE are publishing on another page a few notes relating to some of the most prosperous of London pharmacies, and it occurs to us to ask whether there can be any indication afforded by the histories of the firms selected to guide new aspirants to pharmaceutical honours and fortune. Of course the general principles of success have been laid down again and again, and we have no wish to repeat these, far less to controvert them. But it is undeniable that after all thrift, industry, intelligence, and all that is comprehended in the term virtue, do not invariably bring the rewards which Mr. Smiles would make us believe are inevitable. And yet philosophy assures us that there is no such thing as luck; that every result has its cause. Can we, then, trace the origin of the success which has attended the establishments we refer to, and of many others which will occur to anyone? Frankly, we cannot; we cannot invent any theory which will fairly cover all cases. A few years ago we should have been inclined to attribute success to close personal attention of the principals in a business, but the Army and Navy Stores have knocked that convenient theory to atoms. A singularly large proportion of permanently successful pharmacists have been members of the Society of Friends. Does that fact furnish a key to the riddle? Another business in which that sect has achieved an equally striking pre-eminence has been that of banking. These two circumstances suggest at least how sensitive the public is to the character of the men it delights to patronise as guardians of its wealth and dispensers of its physic. That quakers have always commanded the respect even of their enemies for their reliability is unquestionable, and that this quality is at the foundation of all the successful businesses is the one fact we get from our survey. But assuredly we cannot claim much originality for that observation. And then, too, if we could only know it, there have been doubtless many perfectly reliable men, with apparently all other necessary qualifications, who have not succeeded in building up historic pharmacies. But one other remark occurs. The men a century or two ago who founded the businesses we are now sketching did not set out with the intention of founding historic pharmacies. Had they done so, they would have tried to hurry things by the introduction of a patent medicine, or by some other means. They simply aimed to fulfil the duty which lay straight before them with unremitting patience, and with as much ability as they had at command. The secret, therefore, of certain success still eludes us; in these days new methods of making rapid fortunes have been discovered, and these are what most people aim at. There is something more attractive about a carriage and pair in ten years than in the contemplation of a high pharmaceutical reputation four generations hence. But, for all that, it is to be hoped that the qualities which were essential to success a century ago, and which alone ensure true progress, will never be displaced altogether by the more flashy characteristics of modern enterprise.

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WELDON'S CHLORINE PROCESSES.

FOR several years before his death the late Mr. Walter Weldon was engaged in researches which had for their design the utilisation of the chlorine contained in magnesium chloride, as obtained from the mother-liquors in the manufacture of common salt from sea-water, or as obtained, in a by way, from the decomposition with magnesia of the ammonium chloride from the ammonia-soda process. The researches were carried on in conjunction, practically, with M. Pechiney, of Salindres, in the south of France, and so far they resulted in the establishment of a process which has since been patented, and which only required the devising and erection of working plant for completion. The process, like many other of Mr. Weldon's beautiful devices, is a very simple one. When an aqueous solution of magnesium chloride is evaporated, and the strength reaches the proportion of six equivalents of the solvent to one of the chloride, hydrochloric acid begins to be given off, and continues to evolve until the chloride is converted into oxychloride. This reaction had been known for many years, but it had not been found practicable to take advantage of it on a working scale, or to carry the process of oxidation further, and so set free the whole of the chlorine. It was to overcome this difficulty that Mr. Weldon set himself, and he discovered that by heating the oxychloride solution under certain conditions, in contact with air, an appreciable quantity of the remainder of the chlorine was given off in the free state; this reaction he so far carried out to perfection that M. Pechiney undertook to erect plant in his works at Salindres, and in this country a company was formed to develop this and other chlorine processes of Mr. Weldon's. The very important bearing which this new departure has upon our alkali industry is obvious. At present it is the chlorinated compounds obtained in the Le Blanc process which prevent that process from going to ruin. In the ammonia-soda process it is the waste of the whole of the chlorine contained in the common salt started with which, *ceteris paribus*, prevents that process being universally adopted. But since Weldon's process has come within the region of practical possibility ammonia-soda manufacturers may use magnesia instead of lime to recover their ammonia, and the chlorine will be obtained, not as valueless calcium chloride, but as valuable magnesium chloride, which can afterwards be converted into hydrochloric acid, in part, and free chlorine or chlorinated lime. Apart from that, the comparatively valueless magnesia minerals of Stassfurt may now be employed for the manufacture of bleaching powder. This is not a pleasant prospect for the Le Blanc manufacturers, but the progress of science cannot wait for their interests. Recently reports have been current in this country that Mr. Weldon's new process had broken down when tried on an extensive scale by M. Pechiney. M. Pechiney, however, states that these reports are absolutely without foundation. The fact that his firm is not yet working the process is entirely due to the non-completion of the working plant, upon which they are spending a quarter of a million francs, and which will form an integral part of the works at Salindres. Preliminary experiments were made on a small scale, and since then little has been heard of the matter. The apparent delay is entirely due to the great care necessary in designing and constructing an apparatus which involves many new mechanical contrivances. M. Pechiney expects to commence working in the course of next month, or in September at the latest, and his confidence in the process is as great now as it was when he undertook it. Before the end of the year, therefore, we shall know more of the effect of this revolutionary process, but whatever the result may be, we cannot fail to admire the thorough manner with which the promoters have carried out their object.

A PERMANENT COLONIAL EXHIBITION.

INDIA and the Colonies have taken a strong hold on the popular imagination this year from several causes, but mainly in consequence of the splendid exhibition of their products, which has been on view for several months at South Kensington. The industry, the wealth, the variety, and the extent of the British Empire have been realised to a degree which has not previously been possible to the multitude, and political and commercial ideas of federation and co-operation are having free course. But the immediate result of this exhibition and of this new train of thought and sympathy is likely to be the establishment in London of an Indian and Colonial Museum or Exhibition of a permanent character, and with commercial objects. The British Colonies should be, and are, and are likely to be in the future, the mainstay of Britain's trade. Their population is growing, and their wealth is accumulating. Their tendency is to deal with the mother country, and assuredly this tendency is worth encouraging. Now the most perfect manner of encouraging the Colonies to purchase of us is to purchase as much as possible of them. It is an axiom of commercial economy that imports are sure to be paid for, either directly or in a roundabout fashion, by exports. Therefore it will be good for Colonial trade, and good for British trade as well, if we can have abundant opportunities for inspecting samples of Colonial produce. But, admitting the desirability of this object, it by no means follows that it can be best gained, or gained at all, by making permanent the South Kensington show; and it is a fact that the nation is just now in serious danger of having a job of that kind performed. There is an influential and a very greedy clique of officials who have already had handsome pickings out of these exhibitions, and who are aiming to make their positions permanent. It is earnestly to be hoped they will not succeed. If national money is to be voted, it should be granted in co-operation with Colonial funds, and the one object of developing trade should be steadily kept in view. What is wanted is not exhibitions with coloured lights and fountains, but museums of the driest possible character. And not only should samples of Colonial products be visible, but information of every kind in reference to Colonial markets should be readily attainable. Far better than a single museum would it be if each colony were separately to push its own business in this way in an intelligent and systematic manner, leaving free competition to insure the greatest success for the most meritorious. But there is good reason to believe that an enterprise of this kind could be best founded under governmental auspices, and it ought to be done in a manner which would show that it was seriously undertaken. But after the first start the undertaking should be self-supporting in some way, and it would be so if it were a success. But a success which should depend upon satisfying the shilling sightseer or the two-and-sixpenny lounge cannot be the kind of success which would justify the expenditure of the taxpayers' money.

TRANSMITTING POWER BY THE ELECTRIC WIRE.

THE electrical transmission of force is a subject which has long occupied the attention of electricians, and now appears to be in a fair way of realisation. Backed with an unlimited credit from Rothschilds', M. Marcel Deprez, of Paris, has after many years' experiments succeeded in surpassing all previous attempts in the transmission of power. The scene of his

experiments was between Paris and Creil—a distance of 35 miles—and through this distance he has been able to transmit—with a single generator and a single receiving motor constructed on his own plans—a force of 52-horse power with a loss of only 50 per cent. To complete this circuit, 70 miles of cable were required. This was of the Berthaud-Borel type. The conductor was 5 mm. in diameter, and the results show that with a current of less than 10 ampères, a maximum electromotive force of 6,290 volts was transmitted, that is to say the force is equivalent to what would be generated by as many Daniel's cells. Hitherto the highest electromotive force ever transmitted with a single generator and receiver has not exceeded 2,000 volts. A commission of thirty-eight scientists was appointed to hear a report drawn up at their request by M. Maurice Lévy—on the results already obtained. The report met with unanimous approval, and M. Deprez was warmly congratulated on his success. Thanks were also tendered to the Rothschilds for their generous assistance. The report certifies that the machines are now running regularly and continuously, and that no danger is feared from such a high tension. It is even suggested that the conducting wire may be placed uncovered on poles beyond the reach of the hand. It may be expected, therefore, that with these new machines, if they are found to be as effective as they are stated to be, it will not be long before the vast reservoirs of power running to waste in rivers and waterfalls will be harnessed and utilised, with the result of economising fuel and promoting wealth. M. Deprez's machines are at present quoted at 5,000*l.* each.

THE NEW COMMERCIAL TREATY WITH SPAIN.

THE Spanish legislative body, after protracted debates, has accepted by a large majority the Anglo-Spanish Commercial Convention, negotiated by Señor Moret on the Spanish, and our Ambassador at Madrid, Sir Clarc Ford, on the British side. The treaty now only awaits the formal sanction of the Queen-Regent of Spain to pass into law, and will come into operation at an early date. Thus Great Britain will, for the next six years at any rate, be placed on a footing of equality with other nations trading with the southern kingdom, and there is no doubt that a considerable stimulus will be given to our commercial intercourse, not only with Spain, but also with the Spanish colonies, which are included in the treaty. In a recent issue of this Journal we have explained in detail the advantages which will accrue to the drug and chemical trades from the new treaty, and although the reductions of the import duties on those articles in which our trade is more particularly interested are not so great proportionately as those extended to other branches, yet the difference, added to our unquestionable advantages as the largest drug market in the world, should be sufficient to secure to this country the greater share of the business now transacted by our continental rivals—notably France and Germany. It is worthy of note that the Spanish protectionists, whose power lies mainly in Catalonia, the only Spanish province which possesses some sort of a manufacturing industry, have opposed the treaty with Britain to the verge of civil war, while they have never shown a similar hostility to treaties with other nations. This clearly proves that in Spain, at any rate, British industry is still regarded as far in advance of that of any other country, and that competition with its products on anything like fair terms is viewed with terror by native manufacturers. In how far these fears are well founded may shortly be seen from the Board of Trade returns.

A WRITER in a pharmaceutical paper of Lyons has been counting the number of medicines ordered in the various pharmacopœias of the world. France leads with 2,000, then follow Spain and Belgium with 1,500 each, Russia with 1,080, Greece and Switzerland 1,040 each, United States 1,010, Great Britain 815, Sweden 746, Denmark 720, Holland 665, Germany 606, Austria 560, Hungary and Roumania 545 each, Norway 530. Happy Norway!

* *

TWAS in the merry month of May that the members of the Pharmaceutical Society assembled at Bloomsbury Square spoke of us in most flattering terms. In the far South, at Adelaide, South Australia, in the same month, the members of the Pharmaceutical Society of that colony discussed the weekly issue of THE CHEMIST AND DRUGGIST in an equally pleasant manner. The meeting was held in the Society's rooms, King William Street, Adelaide, on May 4. The President, Mr. W. H. Harrison, was in the chair, and after some preliminary business "Mr. White desired to draw the attention of members to the fact that THE CHEMIST AND DRUGGIST journal was published in London once a week instead of once a month. He thought this spoke well for the energy of the publishers, and it deserved some expression of opinion from members of this Society. Several members expressed themselves well pleased at the weekly issue, and hoped it would prove a success to the publishers, and so insure its continued appearance in this form. The President said that "it would be found a decided advantage, as information of the doings of other societies, or matters affecting the profession of chemists, such as the proposed Act relating to hours of business, reached its readers at an earlier date. He cordially agreed with Mr. White, the Vice-President (Mr. F. E. Grundy), and others, in congratulating the proprietors of THE CHEMIST AND DRUGGIST journal on their weekly issue."

* *

THE Liverpool papers have been making sport of an incident which happened at the dinner of the Society of Chemical Industry. A certain well known local quartette party, renowned for its admirable performances, had been engaged to charm the diners with some of their well known concerted pieces. The toast of "The Queen" had been proposed, and the chairman, in accordance with the programme, called for the National Anthem from the quartette party, but he called in vain. He might almost as well have called spirits from the vasty deep, and, if rumour be worth listening to, it was the fact of the spirits being in the vasty deep which had caused the vocalists to disappear. It has charitably been said that they had mistaken the date and intended to appear the next night, but this does not fit in with another statement that they had actually been present and had joined in the half-guinea dinner without wines, and intended to call the next evening for the wines. In the absence of the professionals, several distinguished chemists, whose vocal organs have been little affected by laboratory fumes, were unearthed by Mr. Tyrer, the secretary of the London section, and they charmed the company with several excellent original songs, and stanzas of better known pieces.

* *

MR. A. DOWNES (*Nature*, July 22, p. 265) has since 1877 made observations similar to those which were announced last week by Messrs. Crookes, Odling, and Tidy. He has worked only with the various forms of organisms which chanced to be present in the water employed, and the method which he adopted was the arrangement of tubes described and figured in a paper by Mr. Blunt and himself in *Proc. Roy. Soc.*, vol. xxviii. p. 202. Of a series of such tubes containing distilled water, originally rich in germ-life, kept at a temperature varying from 18° C. to 21° C., and examined at intervals from May 2, 1885, down to the present, he found that in every one micro-organisms had sooner or later developed on the addition of the nutrient material. Each tube is, he considers, a microcosm, and it is most interesting to observe how, as time went on, the first dominant form has grown more and more feeble, until it seems to have become extinct, and is succeeded by races of quite a different kind. Whether the new order will yet give place to others remains to be seen, but Mr. Downes confidently

states that micro-organisms vary greatly in the duration of their life in distilled water, and that some forms may survive for at least fourteen months in that medium at an ordinary temperature.

* *

WHAT the *Standard* knows about poisons regulations seems to be [about as much as is generally known by coroners, members of parliament, and authorities generally. Commenting on the recent poisoning case at Rochford, where vermin killer had been used instead of baking powder, the *Standard* says:—"Chemists are compelled to keep poisonous drugs in peculiarly shaped bottles, so that it is scarcely possible for them to use them instead of noxious medicines of similar appearance." The suggestion which follows is, however, none the worse for this initial error. The writer advocates a law enacting that vermin killer and similar poisons should always be mixed with some colouring matter before it could be sold. This would prevent the possibility of such accidents as that which has befallen the Cripps family, and would indeed prevent the substances being used for malicious poisoning, as the colour would at once betray their admixture with articles of food or drink.

* *

VERMIN-KILLERS V. INSURANCE MONEY.—The question arises, Can any means be adopted to prevent the murderously-disposed purchasing such deadly drugs? Should there not be some further restriction placed upon the sale of strychnia and arsenic under the designation of "vermin-killer" or "mouse-powder"? The Ashton poisoner experienced no difficulty in supplying herself with the means to carry out her deadly designs. When she was making one purchase of this stuff—three packets at a time—a man named Waterhouse was in the shop, and she asked him to be the witness for her as required by the law. He consented, and jokingly said to her, "Mind you administer them scientifically, and not in too large doses, and you will get the club money." She replied, "Oh, master, you don't suppose I could do that." Yet, when she took home "Harrison's vermin-killer" her husband had another very bad attack. This illustrates the case with which the woman obtained the deadly drugs, and the awful deliberation with which she set about the murders. It is obvious that some attempt should be made to further check the trade connection between poison and insurance. It is terrible to contemplate the possible number of persons who avail themselves of the present facilities for taking insured lives without drawing suspicion on themselves. It can hardly be hoped that all who engage in this work are detected. The woman Britland would probably have escaped consequences if she had not so hurriedly moved her victims out of the world one after the other. It was the deaths following each other so rapidly that attracted suspicion and detection. She is condemned to die on the gallows, like the women Flanagan and Higgins did two years ago in Liverpool for engaging in a similar enterprise; and if no other safeguards can be provided for the sanctity of human life, it may be hoped that her ignominious death will operate as a deterrent of poisoning for the sake of insurance money.—*Liverpool Courier*.

* *

THE CARLSBAD MINERAL-WATER LEASE.—In response to their advertisement soliciting tenders for the lease of the Carlsbad mineral springs, the local authorities have received eight applications, one of which, however, is debarred from competition through arriving after the appointed time. Karl Karuth, August Boden, and others, at Hamburg, offer an annual rent of 126,500 fl.; A. M. Pick, of Prague, 120,000 fl. per annum, plus 50 per cent. of the net profits; Julius Prince, of the London Apollinaris Company, 150,000 fl. per annum, and 575,000 fl. for advertising during fifteen years; Heinrich Mattoni, of Carlsbad, 120,000 fl. per annum; Louis Pacully and Samuel Wernersen, of Breslau, 150,000 fl. per annum; Julius Schottlaender, of Breslau (the representative of the firm Loebel Schottlaender, the present lessees), 175,000 fl.; and Eisner and Roskau, in Philadelphia, 140,000 fl. for the first year, with an annual increase. A decision will shortly be taken. The springs are now leased at 70,000 fl. per annum.

FROM the following announcement, it will be seen that the attractions of the Birmingham meeting of the Pharmaceutical Conference are accumulating to an extent which must be alarming to those who are anxious about its scientific welfare:—

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Scene: DR. FAUST'S LABORATORY.

Miniature representation of the first scene in "Faust" at the Lyceum, from Mr. A. Kretchner's original sketch, kindly lent by

HENRY IRVING, ESQ.

IN connection with this, Messrs. Southall Brothers & Barclay desire to acknowledge their indebtedness to Lawson Tait, Esq., LL.D. (Birmingham), Innes Griffin, Esq., M.R.C.S. (Banbury), Dr. John Evans (Dublin), Professor Redwood (London), Professor Windle (Queen's College, Birmingham), Professor Bridge (Mason's College, Birmingham), Messrs. Corbyn & Co., Messrs. Godfrey & Cooke, Mr. F. Messer (London), Messrs. Mawson & Swan (Newcastle-on-Tyne), Mr. Richard Reynolds (Leeds), Mr. C. B. Groves (Weymouth), Mr. W. P. Lawrence (Knaresborough), Mr. R. C. Mason (Bromsgrove), Mr. A. Wood (Brentford), Mr. F. E. Schofield (Morpeth), and others, for the following amongst other contributions which have been used in the production of the scene:—A barber-surgeon's diploma, A.D. 1774; a bell-metal mortar, 1528; ancient stockpot; syrup and ointment jars, 1684; human skeletons and skulls; skeletons of birds and beasts; seventeenth-century clock, lamp, candlesticks, oak furniture, and glassware.

RHUS RADICANS.

SEÑOR FERNANDO ALTARNIRANDO, writing in the Mexican journal, *El Observador Medico*, on a plant called locally the Guan, or the Mala mujer, the scientific name of which is *Rhus radicans*, states that its active principle is of a peculiarly volatile nature, and relates the case of a man who, after collecting and cutting the plant up, complained of chills and a feeling of extreme fatigue, and subsequently developed a rash, at first erythematous and afterwards pustular, affecting chiefly the groins, axillæ, and other parts where the sudorific glands are most numerous. The action of the exhalation from the plant could not well have been direct, as the parts chiefly affected were covered with clothes, and so the writer suggests that the active principle must have entered by the respiratory passages, being then carried by the blood to the skin, where its action became manifest. He advises that preparations of the drug should be made from the freshly-cut plant and its juice, and that all the collecting should be done before sunrise. The tincture might be made use of, but the extract must necessarily be inactive—as, indeed, it has proved itself, having been experimented on by Dr. Dominguez. In case of accidental poisoning, such as in the patient mentioned, the indications would be to produce diaphoresis and to maintain the skin in a state of moisture. In order to prevent toxic effects, those who gather or manipulate the plant should be careful not to breathe air which has passed over it, but should keep to windward of it.—*The Lancet*.

[The plant is known in the United States as *Poison ivy*, and is generally taken to be a climbing form of *R. toxicodendron*.—Ed. C. & D.]

Medical Cleanings.

THE TASTE OF IODIDE OF POTASSIUM, which is very disagreeable and acrid, may be concealed by syrup of gooseberry juice.

MEDICAL USE OF CITRIC ACID.

HYPODERMIC injection of saturated solution of citric acid has been successfully used by Dr. C. M. Fenn, of San Diego, for the extirpation of malignant tumours. The acid is antagonistic to diseased tissue, but is innocuous to healthy cells, hence the results obtained.

POISONING BY OL. SUCCINI.

A CASE of attempted suicide with this oil by a woman is reported in *Centrbl. f. d. Med. Wiss.* The woman, who was pregnant, was seized with violent vomiting, scarcely controllable diarrhoea, and high temperature. Various complications followed, including abortion and a highly feverish condition. In the eastern provinces of Prussia ol. succini is employed as a popular drug to bring about abortion.

HYPODERMIC SOLUTION OF QUININE.

THE following formula is recommended as being as little irritating as possible:—

Quininae bisulphatis..	..	..	..	5j.
Acidi borici ..	..	..	..	gr. ij.
Morphinae sulphatis..	..	..	..	gr. ½
Aquae destillatae ..	..	..	..	ʒj.

One drachm contains $7\frac{1}{2}$ grains of quinine.—*Med. and Surg. Rep.*

SANTONIN AS A VERMICIDE.

DR. W. V. SCHROEDER has published in the *Arch. f. Exp. Path. u. Pharm.* details of experiments with various substances on the vitality of the *Ascaris lumbricoides*, and has arrived at some interesting conclusions. Of special interest are the results obtained with santonin. This proved not to be a remedy which has a fatal effect on the worms, but one which drives them out of the intestines. In consequence of unknown reasons the presence of santonin in the small intestine makes the worms so uncomfortable that they quickly descend into the large bowel, where they must be driven away by purgatives. When, therefore, santonin is administered, it should be accompanied or followed by a purgative.

COPIOUS MEDICATION.

A MAN suffering from *delirium tremens* is reported (*Med. and Surg. Rep.*) to have taken during five days the following amounts of narcotics:—

Bromide of potassium ..	..	..	1 oz.
Chloral ..	..	..	3 drachms
Morphia ..	..	..	3 grains
Laudanum ..	..	..	5 drachms
Chloroform ..	..	..	20 oz.

Yet he was very little affected by them, and the medical man in attendance considered that it required the combined effects of the whole to do any good.

IODOFORM IN DIPHTHERIA.

ONE great objection to the operation of tracheotomy in diphtheria is that in many cases the disease spreads down the trachea, and so gives rise to great complications, and in most cases death. To prevent this Dr. George Shirress (*Lancet*, p. 164) proposes the insufflation of iodoform through the tracheal opening. He gives notes of two cases in which he employed the treatment successfully, although in one case he feared iodoform poisoning from the large quantity which had been blown down the tube.

FATAL EFFECT OF COLLODION IN SMALL-POX.

M. COMBY recently described a case before the Société de Chirurgie, Paris, of a woman suffering from small-pox, and whose face was covered with collodion to avoid the cicatrices.

The eruption was at first retarded, but soon diffuse suppuration took place under the collodion, and the face was converted into a vast suppurating sore, as that which is seen usually after a burn. The patient succumbed after a few days in great pain and high fever, and the post-mortem revealing nothing, death was attributed to the topical application.—*Medical Press.*

TREATMENT OF THE BITES OF RABID DOGS.

THE following treatment is recommended by the chief surgeon of the Metropolitan police. When possible a ligature to be applied above the part bitten; prompt and thorough suction of the wound, freely washing with water, and the application of absolute phenol (pure carbolic acid). The individual sucking the wound (usually the patient himself) to spit out all the matter so sucked, and to freely wash out the mouth with water. Should the wound be a punctured wound, make a crucial incision, promote and encourage bleeding, and treat as above. Nitrate of silver is inefficient, and the phenol is painful only for a few minutes.

PILIGANINE.

M. LABORDE recently presented to the Paris Biological Society a note from M. Bardet on the action of piliganine, one of the alkaloids of the piligan. It is stated to be a convulsive poison with a strong emeto-cathartic action. M. Brown-Séguard remarked that it must therefore be an exception to the rule, for all known convulsive poisons were devoid of action on the digestive canal. M. Grimaux explained that the convulsive effects had been obtained from the alkaloid, while the gastro-intestinal effects had been produced by an infusion of the piligan, so that it was not clear that the infusion contained the alkaloid; indeed, it might have contained some other alkaloid belonging to the same plant.—*The Lancet.*

[Piligan is the Brazilian name of *Lycopodium Saussurus*, which is closely allied with the European *L. selago*, Lin., a remedy now obsolete, but formerly held in high esteem as a vermifuge and emetic, under the name of *Muscus catharticus* or *Herba selaginis*. According to an article in *Comptes Rendus*, the alkaloid is obtained by exhausting the powdered plant with boiling water, evaporating it to the consistency of a soft extract, exhausting the extract with alcohol, precipitating it with lead subacetate, and removing the lead residue. The clear liquid is then neutralised by tartaric acid and filtered. The product is distilled, the resin precipitated by the addition of water, and the aqueous solution, after filtration, treated with sodium carbonate and afterwards with chloroform, which upon evaporation leaves crude piliganin. When purified the alkaloid consists of a softish, transparent pale yellow mass, of a strong and characteristic odour. Piliganin gives an alkaloidal reaction, and emits white vapours when brought in contact with hydrochloric acid gas. It is soluble in water, alcohol, and chloroform, but difficultly in ether. Upon animals it acts as a powerful emetic and cathartic.]

ARBUTIN.

DR. BORISOFF, of St. Petersburg, having recently examined the pharmacological action of arbutin, a glucoside obtained from the leaves of *uva ursi*, by means of experiments on dogs and frogs, finds that it has a decided diuretic effect, due to stimulation of the epithelium of the malpighian bodies and urinary tubules of the kidney, and to increased circulation of blood through the kidneys. Though large doses of arbutin exercise a paralysing effect on the brain of the frog, little general disturbance is caused by the drug in warm-blooded animals, even if given in considerable doses. It exercises a distinct antiseptic influence in lessening the formation of pus in cases of purulent inflammation of the bladder and kidney. Dr. Borisoff thinks this drug may be found of much use in practice. He would give larger doses than those which have been suggested by some writers—*e.g.*, M. Levine. He would commence with from one to two grammes (fifteen to thirty grains), given several times a day in powder or dissolved in water. He has made a diligent search through the scientific journals of all nations for the literature of the subject, and has collected no less than forty-three different articles, mostly from German sources, but with a few American and Russian exceptions.—*The Lancet.*

Veterinary Treatment.

CONTINUING the subject of worms in dogs, we would correct a typographical error which occurred in our last issue. The eggs of tapeworm do not accumulate round the "arms," as stated, but round the anus of the infested animal, giving rise to a symptom which should not be forgotten as diagnostic of worms. To rid himself of the irritation, the dog sits down and draws himself along the ground; especially will he choose a flag pavement for this ungraceful performance, and those who look may often see a broken worm adhering about the tail. Many dog-owners pull them out when thus exhibited, but they are apt to break; and, as we before explained, it is only necessary that the head should remain in the bowel in order to produce more segments. A better plan than traction on the partly expelled worm is to give an injection of a drachm or two of salt to a pint of hot water (about 100° F.), which will usually have the desired effect. This too is an excellent remedy for those round worms whose habitat is the large intestines. Before describing the principal round worms, we must speak of a questionable nondescript or go-between, which is the most difficult of all to get rid of. It is described by Stonehenge as a maw-worm, but Dr. Cobbold considered it to be a tapeworm segment that had set up on its own account, and developed to greater proportions. This parasite is found adhering to the root of the tail and the neighbourhood, more especially in long-haired dogs; and when observed, is generally dried up, and resembles somewhat a grain of rice, but on being soaked in water lengthens and tapers at one end.

Areca-nut, which is found to be so successful with tapeworm, does not answer so well with these maw-worms, or proglottides, as they are scientifically called. The following is Stonehenge's remedy for them:—

Koussou	3ij. ad 3iv.
Succus limonis	ʒss.
Aq. bulliens	ʒv.

Infuse the koussou, and when nearly cold add the succus, and give as one draught.

To be followed by a dose of ol. ricini in six or eight hours.

Jalap is another remedy we have found of service in combination with powdered glass. For a dog of 20 lbs. weight:—

Jalapæ pulv.	gr. x.
Powdered glass	gr. xxx.
Excipient q.s. ut ft. bolus.	

Of the round worms, or lumbricoides, the most common is the *Ascaris marginata* of the dog, the *Ascaris megaloccephala* of the horse, and *Ascaris mystax* of the cat.

The *Ascaris marginata* of the dog is most common in puppies, but dogs of any age may have them.

The life history of this parasite has not been clearly traced, but its appearance in large numbers in pups which have never tasted any food but their mother's milk is remarkable, to say the least. Dr. Cobbold was of opinion that these worms gain access to the bowels from outside influences, though the circumstances of their being found in pups a month old would seem to indicate intra-uterine formation of them. However this may be, it is quite common to find pups a month old with pendulous bellies and razor backs, caused by the presence of these ascarides. If not expelled, they are liable to produce fits and rapid emaciation. Remedies were not so successful till santonine was introduced, of which $\frac{1}{2}$ grain to 1 grain for very young pups, or from 1 to 4 grains for adults, will generally be found effectual, administered in a little hot milk, with from 1 to 10 drops of spt. terebinth. The old remedy was an infusion of Indian pink, in the proportion of 1 oz. to a pint of aq. bulliens, the dose being from ʒij. to ʒviiij., according to the size of the dog. Stonehenge recommends powdered glass mixed with butter. There is an objection to butter, however, inasmuch as it is a food, and we prefer to give glass with some other vermifuge, such as jalap.

Turpentine is frequently given for worms of all kinds, but doses of any magnitude are liable to produce inflammation of the kidneys. If given at all, it should be only as an adjunct to other agents, and in small doses properly emulsified.

Besides the tapeworm and the round-worm family, there are the various thread-worms, or filaria, as they are technically called. Most readers are familiar with the thread-worm of young children infesting the rectum and colon, and the same kind of thing is found in dogs. Injections of salt, or the homœopathic remedy China, is usually sufficient to get rid of them. There are some filaria whose habitat is the bronchial tubes, these being the cause of the hoarse or husk in calves and lambs; they also affect pigs. Japan seems to be the only country in which they are found in the heart of the dog (*Filaria immitis*).

There is a formidable worm occasionally found in the kidney of the dog, and we need scarcely add, not till after death, as it is impossible for it to escape by any natural aperture. It is also found in the horse, ox, wolf, otter, and other animals, and generally proves fatal by producing either acute inflammation of the kidney or the chronic form known as Bright's disease. It is impossible to diagnose the presence of *Strongylus gigas*, as this worm is called, though the presence of albumen in the urine would be a tolerable proof of long-continued irritation. Worms in any quantity usually produce bad effects; the dog loses condition, gets thin, the hair is harsh and sticks up, the animal irritable, and capricious in his appetite. We have, however, known fat pugs and other ladies' dogs to have tapeworm for years without ever being suspected of it, on account of their fat, though the habit of drawing themselves along the ground may have been often noticed, and the true cause not assigned to it.

There are a great many worm remedies before the public, all more or less effectual, but some of them dangerous. We have known Spratt's worm powder succeed when other remedies have failed, and the medicines they send out are convenient for chemists to keep who do not go in specially for dog medicines of their own.

The following are some well-tried and effectual recipes:—

Dolichos pubes	gr. j. ad v.
Ferri sulph.	gr. ij. ad x.
P. areca	gr. ij. ad xl.
Excipient q.s. ut ft. bolus.	
Rad. filicis maris	ʒj.
Pulv. jalapæ	gr. x.
Hydrarg. subchlor.	gr. ij.
M. ft. bolus.	

For a large dog:—

Santonine	gr. ij.
Pulv. areca	gr. x.
Ol. filicis maris q.s. ut ft. bolus.	
Antim. tart.	gr. j.
Pulv. aloes barb.	gr. x.
„ ferri sulph.	gr. v.
M. ft. bolus.	

General Directions.—In order to ensure the best results the dog must fast at least twelve hours, and better still eighteen. There is no cruelty in keeping dogs without food for a whole day and night. It is their nature to eat to repletion at times and fast long at others. If the remedy you give is likely to make the dog sick, tie him up so that he cannot put his nose down between his legs. (He cannot be sick without depressing his head.)

Dr. Gordon Stables, in his work on "Ladies' Dogs," gives the following:—"Give a light supper, no breakfast; at twelve o'clock give the powder. There is no better anthelmintic than Spratt's powders. At 1.30 a dose of oil, and immediately after a drink of warm broth. Repeat this again in a week, and meanwhile give tonics. The extract of quassia, two to five grains twice a day, is a capital anthelmintic tonic, but to bring up the dog to his former condition, cod-liver oil and the best of food will be needed."

ST. IGNATIUS BEAN.—As an example of how little we know of the Philippine flora, we may mention the St. Ignatius bean, of which until recently nothing was known beyond the fact that it finds its way into the markets of this country as a source of the deadly poison strychnine, and was said to be sold in the market at Manila. Now, we believe, the plant has been discovered, and information respecting it will doubtless be shortly forthcoming.—*Nature*.

NATIONAL VETERINARY ASSOCIATION.

THE fourth annual meeting of this Association was commenced on Thursday, July 22, in the offices of the Highland and Agricultural Society, George IV. Bridge, Edinburgh, Principal Walley of the Royal (Dick's) Veterinary College, presiding.

The PRESIDENT, in his opening address, welcomed the Association to Edinburgh, which he said was classical ground to all veterinary surgeons, for here upwards of a century ago was born the pioneer of veterinary surgery, Professor Dick, and here he began over 70 years ago to teach under disadvantageous circumstances the practice of veterinary medicine. Edinburgh, he said, was the only city in the United Kingdom that was able to support more than one veterinary college.

HOMŒOPATHIC VETERINARY TREATMENT.

The first subject taken up was the question of treatment of animals on the homœopathic principle, which was considered by Mr. J. S. Hurndall, Liverpool, in a paper entitled, "Can experimental pathogenesis be rendered useful in elucidating a definite system of veterinary therapeutics?" In the course of the paper he recommended the use of aconite and bryonia in bronchitis, and argued that pathogenetic experimentation on healthy animals was not only reasonable but likely to prove of the highest value if carried out systematically and with the closest observation.

Principal WALLEY, in the course of the discussion which followed, said that he would give aconite in certain circumstances, but not in those recommended by the essayist. He knew from experience that they could give aconite with bicarbonate of potash or other alkali, provided they gave it in ball; but if administered as a draught the chances were they would kill their subject.

MICRO-PARASITES.

The next paper was "Notes on some of the micro-parasites of the domesticated animals," by Professor McFadzean, of the Royal Veterinary College, and Dr. G. Sims Woodhead, pathologist to the Royal Infirmary. The authors referred to splenic fever, anthrax, swine fever, louping ill, black leg, glanders, &c. With regard to anthrax they are of opinion: (1) that Pasteur has succeeded in preparing a vaccine by the employment of which the domestic ruminants are put in possession of a high degree of immunity against spontaneous or inoculated anthrax; (2) that by no known method of attenuation can there be obtained a vaccine of absolutely uniform strength; (3) that it is not possible to obtain a vaccine that is at once and equally applicable to all the different species of domestic animals, or even to all the different breeds of the same species; and (4) that, even in the most capable hands, accidents capable of entailing serious results may happen in the preparation of vaccine, or in its employment. Dealing with louping-ill in sheep, the writers combat at length the view of Principal Williams, that the disease is of a micro-parasitic nature, being caused by a bacillus. The discussion that followed was marred by considerable personal feeling by the friends of Professor Williams and the supporters of Messrs. McFadzean and Woodhead. The value of the discussion was on this account almost *nil*, but the chairman, who is a colleague of the authors, considered that they were heartily entitled to a vote of thanks, which was accorded.

LAMENESS IN HORSES.

On Friday Mr. W. Hunting, London, submitted a paper on "Lameness in horses." The causes, he said, were pain, mechanical interference, or defective innervation.

ANÆSTHETICS.

Anæsthetics and anæsthesia in relation to veterinary practice were treated in a paper by Professor W. O. Williams, Edinburgh, and R. Roberts, Kendal. Their conclusions indicated chloroform as the best anæsthetic. The quantity generally sufficient for a horse was $1\frac{1}{2}$ to 2 oz.; for a cow, 2 oz.; and for a dog, 1 oz. As a local anæsthetic they use cocaine, varying in quantity according to the affection, and

paint it on to the parts at intervals of five minutes for half an hour before operating. Mr. Owen Williams had used cocaine in painful eye affections, and was thus enabled to apply other drugs to the parts without irritating the patients; he had also used it for the removal of vaginal tumours in the bitch, and in one case the animal watched the operation without either being tied or muzzled, and showed no symptoms of pain. They do not think that the administration of chloroform or cocaine interferes at all with the healing of the surgical wounds. In the discussion which followed it was said that this was one of the most prominent subjects before the veterinary world, and they must expect before long to be called upon to introduce chloroform and other agents extensively; the hope was also expressed that they would follow the example of the medical profession, and administer anæsthetics in all possible cases where pain would be caused by the operation.

A VETERINARY DEGREE.

The PRESIDENT at the close moved that "The time has now come when it is advantageous that a higher degree—viz. that of Doctor Veterinary Medicine—than that of fellow should be substituted by the Royal College of Veterinary Surgeons, this being necessary to place the profession on the same footing as that enjoyed by other professions and the sciences."

It was agreed to postpone the consideration of this motion till next meeting, in order to have it fully discussed.

On Thursday the Association had a luncheon in the afternoon in the Waterloo Hotel. The President of the North British branch of the Pharmaceutical Society received an invitation to the luncheon, which was attended by over one hundred gentlemen. The Lord Provost and magistrates gave a reception on Friday, at one o'clock, in honour of the members of the Association. Cake and wine were served. The Lord Provost at the close gave "Happy to meet, sorry to part, happy to meet again." The company then separated.

Trade Notes.

MR. B. KÜHN, of 38 St. Mary-at-Hill, has been appointed agent for Great Britain for the salol manufactured by Messrs. Durand & Huguenin, of Basle and Lyons.

MESSRS. POTTER & CLARKE, wholesale botanic druggists and importers of herbs, of Weston Street, S.E., have opened a branch office at 58 Cannon Street, Manchester.

MESSRS. NEWTON, ROBINSON & Co., of the Faraday Chemical Works, Birmingham, have arranged for Mr. Morris Ashby, of 17 Laurence Pountney Lane, London, to represent them in London.

MESSRS. W. B. FORDHAM & SONS (LIMITED) have been appointed sole agents for London and the home counties for Brooke's Soap, for marble, paint, cutlery, &c.

COMPANIES' DIVIDENDS.—The Sanitas Company (Limited) have declared an interim dividend at the rate of 10 per cent. per annum, payable on September 1 next. Bryant & May (Limited) have declared an interim dividend at the rate of $17\frac{1}{2}$ per cent. per annum. Barrett's Brewery and Bottling Company (Limited) have declared an interim dividend at the rate of 10 per cent. per annum for the six months ending June 30, 1886. Daniel Judson & Son (Limited) announce an interim dividend for the half-year ending June 30, at the rate of 5 per cent. per annum, payable on August 9.

MR. J. CHRISTIAN has just prepared an illustrated catalogue of the various forms in which he puts up H. Bond's original marking-ink. The catalogue—a large six-panelled sheet—is handsomely printed in gold and colours, and shows on a reduced scale the exact appearance of each class of goods. Buyers are thus enabled to select those which they may consider most effective for display. We understand that a copy of this catalogue will be sent to anyone who desires it.

MAUD'S LIQUORICE WORM-CAKE.—Pontefract and liquorice go together. These worm-cakes might be taken for pontefracts, so unmedicated is the taste; yet we are assured by the

maker that they contain very active anthelmintics. Each cake is done up in a neat parchment envelope bearing full directions. The attractive appearance of the cakes, and the tasty manner in which they are put up are highly creditable to the maker, Mr. W. Maud, Pontefract.

MESSRS. FLETCHER, FLETCHER & STEVENSON, of the North London Chemical Works, have just published a new edition of their "Memorabilia," a very neat and convenient little pocket-book, which, we believe, they present to pharmacists who apply for a copy. Interspersed with notices of their own specialties are a number of pages of useful items of information, Pharmacopœia notes—in which the slips of the Pharmacopœia are sharply noticed—brief references to recent remedies, and other memorabilia. There are also blank pages for notes.

MESSRS. G. VAN ABBOT & SON, 5 Princes Street, Cavendish Square, have, we understand, made arrangements for the purchase of pure tea and coffee in the open market. The firm issues with each packet very suitable directions for preparing the universal beverages. Of tea they say: "Pour *boiling* water (not water that *has* boiled) on the leaves and allow it to stand for two minutes, then pour off into a heated teapot so as to separate it from the leaves; thus prepared tea is not so likely to cause flatulence."

CARBOLICA, a pink carbolic disinfecting powder, is calculated from its colour to prevent any mistake being made with it. It is put up in tins with a perforated top, and is a powerful disinfectant. Liquid carbolica is a thickish brown liquid which mixes with water to form a milky solution. The preparations are made by Messrs. Hamilton & Co., 6 Grattan Road, Hammersmith, W.

MAIGNEN'S ANTI-CALCAIRE.—This powder is now extensively advertised in the daily papers, and a brisk demand has sprung up for it. The powder appears to possess great softening power. A well which showed temporary hardness 10, and permanent hardness 9, after treatment with anti-calcaire powder showed only 1 and 3 respectively. This is an excellent proof of its efficacy. The powder is handsomely put up in tins by the patentee, Mr. P. A. Maignen, 32 St. Mary-at-Hill, Eastcheap.

RIMMEL'S COLONIAL SPECIALTIES.—In the West Indian Courts of the Colonial Exhibition Mr. E. Rimmel exhibits a series of perfumes illustrating the fragrant flora of the islands. The perfumes are put up in a very neat style, each label bearing the Jamaica arms and the botanical name of the plant which the perfume especially represents. The perfumes are put up three in a handsome and very strong box, suitable for export. The Jamaica fragrant toilet water, which has been prepared for the executive commission, is a delightful and refreshing perfume. We notice that Mr. Rimmel has compiled a useful catalogue of the West Indian section, special attention being given to the fragrant products, this part of the booklet being illustrated.

GEOLINE.—The Geoline Manufacturing Company send out two preparations bearing this name, viz. golden geoline and white geoline; both are smooth and practically inodorous preparations. As to the physical characters, the golden variety is the heavier, and has a higher melting-point than the white. The specific gravity of the golden is 0.865 at melting-point (103° F.), and the white is 0.822 under a similar condition (melting-point 97.5° F.). It will be seen, therefore, that the golden variety is specially adapted for hot weather, while the white may be brought up to any hardness by the addition of paraffin. In other respects geolin answers the pharmacopœial requirements for paraffinum molle.

NEW PATENT MEDICINE IDEAS.—Readers of this Journal are favoured this week with an elegant lithograph from the famous firm of H. H. Warner & Co., of Rochester, U.S., Toronto, Canada, and of 47 Farringdon Street, London. This house does one of the largest patent medicine trades in the world. They claim to do a business of half a million a year. Their laboratory and warehouse at Rochester have a floor space of 4½ acres, and they spend 150,000l. annually in all forms of advertising. The business has all been built up within the last ten years or less. In 1870 Mr. Warner was worth less than 20l. He embarked in the safe business, and

made a fortune in eight years. From that he diverged into the medicine line in 1878, and in honour of his previous business called his remedies "Safe cures." The firm make various preparations; safe cures for kidney diseases, for diabetes, for rheumatism, and for nervous debility, besides pills. They have had an agency in London for several years, but have not much pushed the business here. Now they have moved into Farringdon Street, in the neighbourhood of several other prosperous American enterprises have placed the business in charge of one of their own trained men—as lively a gentleman as the American colony round Holborn Viaduct can boast—and are preparing to push their enterprise with vigour and in some novel forms. One of their ideas, new at least to English trade, is to fit up a consulting-room, where an American medical practitioner can be consulted either personally or by letter. These consultations are free to every one, but a small charge will be made for urinary examinations. We are told that at Rochester consultations by letter number from 100 to 200 per day. It will be interesting to see whether this novel method of promoting a patent-medicine business "takes" in England.

AUSTRALASIAN NEWS.

NEW ZEALAND.

THE New Zealand Pharmacy Board Examinations were held at Auckland, Christchurch, and Dunedin on April 28 and 29 last. Seven candidates presented themselves, but only three succeeded in obtaining the percentage marks requisite to pass, viz. 70 per cent. The questions are supposed to have been more severe than formerly, but taken altogether they do not seem such as need deter any student who has given due attention and a commensurate quota of his time to the work. In regard to the majority of candidates who came up at this examination, the main defects (and those were very glaring ones) were shown in ordinary elementary English, writing, spelling, and composition being alike wretched. New Zealand has not adopted a Preliminary examination, which, if passed prior to apprenticeship, would most certainly make the subsequent studies easier to the pupil, and more creditable to all concerned.

Keen competition in the drug trade is now the order of the day in this colony. The Drug Company is no longer permitted to rule the trade, but many of their constituents believe their monopoly to have been a "fair dealing" one. The English and American houses are now doing business direct through their "drummers" with the leading retailers, and the result is an all-round reduction on the old prices. Another opponent to the Drug Company is an Auckland firm (Messrs. Sharland & Co.), who have lately entered warmly into the contest for trade. Both the Drug Company and Messrs. Sharland & Co. take advantage of the Customs regulations in regard to spirituous preparations manufactured in bond, *i.e.*, exemption from duty. Tinctures, perfumery, and perfumed waters are now extensively turned out at low prices, and offered at a trifle over what it costs to import those of good German make. The well-known practice still prevails of *starting in business a likely man in a suitable locality, and controlling him*—in pretty much the same way as wealthy brewers are proprietors of certain hotels.

QUEENSLAND.

THE Board of Pharmacy have now got into working order, and appointed examiners. Dr. Ellison is to take chemistry and botany; Mr. Field, materia medica and pharmacy. Mr. Yeo will superintend the dispensing. The first examination took place on June 2 and 3. Intending candidates must give 10 days' notice; the fee is 3l. 3s. There seems to be some misunderstanding about the power of the Board to register chemists holding other qualifications than that of the Pharmaceutical Society of Great Britain. The Queensland Pharmacy Act, Part III. clause 2, gives the Board power to recognise other boards or colleges, but before doing so they must obtain the consent of the Governor in council; as yet the certificate of the Pharmaceutical Society of Ireland is the only other college recognised. It is believed to be the intention of the Board to extend this privilege to the Boards

of Victoria, New South Wales, and New Zealand for a short time, but until such boards are recognised it is not legal for chemists holding such qualifications to carry on business in Queensland.

Mr. Cattanach's process of deodorising fœcal matter by means of the new deodorant has been tried on nightsoil at the Market Reserve, Roma Street, Brisbane. It is proposed to manufacture the product into a kind of guano. The cost of the process is stated to be 5*l.* per ton, but at present the Government give away the manure obtained, which seems a very uneconomical expedient.

The Queensland Acclimatisation Society continues in a very flourishing condition. During the past three months it has distributed over four thousand plants, and enrolled a large number of members.

SOUTH AUSTRALIA.

MR. LEVIEN, of Victoria, ex-Minister of Mines and Agriculture, and Chairman of the Council of Agricultural Education, has been inspecting the Agricultural College at Roseworthy, in order to obtain information that might be useful in connection with the establishment of agricultural colleges in Victoria.

The Intercolonial Smelting Company are about to erect large smelting works either in Adelaide or Port Pirie.

(To be continued.)

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

AN ANTI-PASTEUR MEETING.—On July 25 a public meeting of anti-Pasteurians was held at the *Mairie* of the fourth arrondissement. Although not officially countenanced by the Municipal Council, it was openly supported by influential members of that body, who cannot forgive the snubbing they received from Pasteur a few months ago when they visited his laboratory, and patronisingly offered him suggestions. The audience at the *Mairie* was a thin one, and evidently of strong communistic propensities. The inevitable doctresses with Russian features were there; but your correspondent missed the short-haired women and long-haired men that on the other side of the Atlantic would not have failed to be conspicuously present. Louise Michel, in deep mourning, and accompanied by Mrs. Dr. X., a rather pretty woman, took a seat among the audience, but was soon requested to come to the platform. Poor Louise! barely out of prison, she is to be prosecuted again for some political offence. A tender-hearted woman, generous and self-sacrificing, but crazy about politics. In the absence of Dr. Chassaing, who came in soon after, M. Huot called the meeting to order, and Dr. Bouillier led the assault on Pasteur. The speaker, like all that followed, attacked the doctrines much less than the man. To speak only of the subject of rabies, he said that hydrophobia may develop spontaneously in man; that it can be cured, and is cured, by many treatments, whose ultimate effect is to produce copious sweating, and that nothing is better than Russian baths, as recommended by Dr. Buisson, of Montpellier. M. Hubert Boëns, a Belgian doctor, spoke next, and began with a theory of the universe, gliding through attraction, vibration, and electricity, and lastly by means of the telephone and telegraph reaching the nervous system, the seat of the disease. For him rabies is not caused by microbes, but is a result of nervous irritation, and the only treatment needed is to cause the wound to gently heal up by means of soothing applications, avoiding all irritating lotions and ointments. M. Paul Combes treated the audience to a witty review of Pasteur's life and works. M. Huot read from a medical paper the account of the death of a patient inoculated by Pasteur, accusing him (Pasteur) of having tried to conceal the fact. [In reality the case is a very doubtful one.] And in conclusion, Dr. Chassaing warned people against both infatuation and fear, as more dangerous than cholera or hydrophobia. Being called upon to speak, Mme. Louise Michel simply said she did not pretend to discuss scientific questions; that if some live and grow rich by science, some die for it. Witness the hospital interne (Jean Dussaud) who sacrificed himself to cure diphtheric

children. "Let us, then, honour those who die for science; let us honour its martyrs." These remarks closed the meeting. A characteristic feature of the gathering was that all the speakers but one addressed the meeting, not as "Mesdames et Messieurs," but "Citoyens et citoyennes," and when the chairman introduced a new debater, it was "Citizen So-and-so." The term Monsieur was reserved for Pasteur and such fellows, when they were not designated by their surnames alone without any sort of aristocratic handle.

THE DISCOVERY OF FLUORINE.—At the last meeting of the Academy of Sciences, held on July 26, M. Debray reported the conclusion arrived at by M. Moissan in his examination of the gas obtained by the electrolysis of anhydrous hydrofluoric acid. Previous experiments had shown that the substance in question could be only either pure fluorine or a hydrogen perfluoride. Now it results from recent experiments that the gas is entirely absorbed by metallic iron, without any evolution of hydrogen. Hence there can be no longer any doubt, M. Moissan has isolated fluorine, the nightmare of so many chemists, and it is a gas at ordinary temperatures. If M. Frémy before him failed, M. Moissan thinks it was because he did not operate at a temperature sufficiently low. Further particulars are promised soon; but the students are already discussing the place where M. Moissan's statue should be erected in the College of Pharmacy.

A VICTIM OF DUTY.—M. Jean Dussaud, an interne at the Hospital of the Assisted Children, died last week of diphtheria communicated by one of his little patients. Three weeks before he had successfully treated three of the sick children by insufflation from his own mouth; but he contracted the disease from one of them and succumbed, notwithstanding the attendance of the best physicians, among whom was his own father, a medical practitioner at Nîmes.

THE VOLTA PRIZE.—This prize, amounting to 50,000*f.* (2,000*l.*), is to be awarded for the first time in 1887. It will be given to the inventor of a practical process permitting the economical use of electricity as a source of heat, light, chemical action, mechanical power, or as a means of imparting intelligence, or treating diseases. The manuscripts must be sent to the Secretary of the French Institute before June 30, 1887, and scientists of all nations will be allowed to compete for the prize.

THE PRODUCTION OF ALCOHOL IN FRANCE.—From official reports covering the period of nine months ending on June 30, 1886, the total quantity of alcohol offered for consumption was 2,092,678 hectolitres (about 46,000,000 imperial gallons), of which 157,699 hectolitres were imported. The quantity sold for consumption was 1,433,747 hectolitres (rather less than 31,000,000 gallons), against 1,393,215 the previous year for the same period. The exportation was 214,444 hectolitres (about 4,720,000 gallons). The production of alcohol from wine decreased from 23,972 hectolitres during the previous year to 10,819 in 1885-86. Beet-root alcohol remained nearly stationary at 505,602 hectolitres; molasses alcohol came to 369,759 hectolitres, a decrease of 209,282; and alcohol from starchy substances to 563,696 hectolitres, an increase of 184,502 hectolitres.

Legal Reports.

MYERS'S ROYAL CATTLE SPICE.

At the Derby Assizes, on Tuesday, the action of "Clay v. Myers" was tried before Mr. Justice Stephen and a common jury. It was in respect of fraudulent misrepresentation, the plaintiff claiming 83*l.* damages. Mr. Etherington Smith was for the plaintiff; and Mr. Buszard, Q.C., for the defendant. Mr. Etherington Smith, in opening the plaintiff's case, said that the defendant was the proprietor of "Myers's Royal Cattle Spice," and, by representing that it was first-rate stuff, had induced the plaintiff, who was an ironmonger at Matlock Bridge, to become an agent for it, and to give him a bill of exchange for 55*l.* for two tons of it. It turned out to be worthless stuff, but the bill had been passed into a banker's hands, and the plaintiff was sued upon it, and had to pay the amount of the bill and the costs. He had also to pay for the storage of the spice, which he could not sell, and

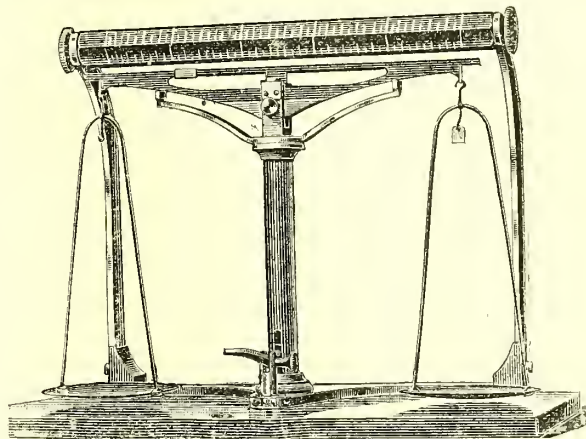
had had travelling and other expenses in connection with it. Joseph Francis Clay, the plaintiff, said that defendant called on him with "Myers's Royal Cattle Spice," and told him that there was a large demand for it all over the country; that it was quite as good as Thorley's; that he had no agent in the neighbourhood; and asked him to become an agent for it. Defendant told him that the agents purchased outright, giving bills at four months in payment. He agreed to take two tons, which were delivered a few days afterwards. He gave a bill for 55*l.* in payment. One of the terms was that defendant was to supply travellers. Defendant did not send one for some time, and then he sent a man who was smoking a short clay pipe, whose clothes were greasy and boots all down at heel. He found that the cattle spice was worthless, and could not sell it. He offered to send it back to any station, carriage free. He put up 10 cwt. to auction, and it fetched from 5*s.* to 12*s.* per cwt. He could not sell the rest at any price. He was still paying 2*s.* per week for storing it. He went to defendant's address at Hull, but could not find him. In cross-examination, the plaintiff said that he called on scores of people in the neighbourhood, but they would not buy it. He had since seen placards about advertising this spice at 5*l.* per ton, whereas he had paid 28*l.* per ton. Witnesses were called from Matlock and the neighbourhood, who had bought the spice, and had been unable to sell it. Otto Haynes, public analyst for the southern division of Derbyshire, said that he had a sample of the spice submitted to him about a week ago. The essential ingredients were coarse refuse meals, cereal meals, locust-bean meal, salt, and fenugreek. There was between 7 and 8 per cent. of sand, and about 9 per cent. of nitrogenous matter. It had not a high food value. He should think the money value less than that of ordinary barley. In cross-examination, the witness said that there was no integral part of mustard in it. There was some turmeric and some rice-meal. Mr. Buszard, in opening the defendant's case, said that the condiment in question was well known all over England, and for the last 20 years had had a very large sale. He failed to see the slightest proof of any fraud on the part of the defendant. Mr. Myers, the defendant, examined by Mr. Buszard, said that he had been a manufacturer of cattle spice for 22 years. He had exhibited at various shows, such as Darlington in 1871, Rochdale in 1872, Middleton in 1874, and others, and had obtained prizes and medals for the same spice as he sold the plaintiff. In the book of testimonials produced there were some from the King of the Netherlands, the steward to the Prince of Wales, Lord Edward Thynne, and others. When he sold the spice to the plaintiff he told him there was a large demand for it in the district, and showed him a list of the persons with whom his agents in the neighbourhood had done business. About June he was in pecuniary difficulties in consequence of investments in land at Hull. The business was still being carried on by another proprietor in York and Liverpool. In cross-examination, the defendant said that a Mr. MacDougall carried on the business now at Liverpool, and he was his traveller. MacDougall was made a bankrupt, and got his discharge in October of last year. A Mr. Haines, of Sheffield, might have brought an action against him, which he compromised by taking back the spice he had sold him, and paying him 40*l.* for costs. The defendant's manager was called, and said that the cattle spice contained gentian, coriander, mustard, locust-beans, rice-meal, turmeric, and fenugreek. Some of the defendant's agents were called, and spoke to the cattle spice having a very good sale. His lordship having summed up the case, the jury found a verdict for the plaintiff, damages 50*l.* His lordship gave judgment accordingly, but, upon Mr. Buszard's application, stayed execution.

BRÖNNER DYE-WORKS.—The directors of the Actiengesellschaft für Anilinfabrikation met at Frankfort-on-Main recently in order to take over these dye-works. The lease is for three years, but it can be prolonged for two years at the option of the lessees. With the Brönners works are taken over all their patents, some of which are very valuable. These patents will be used both at Frankfort and Berlin. It is stated that the manufacture of the red Congo dye, for which the A. G. für Anilinfabrikation has a patent, is making encouraging progress.



KNOWLES'S CHEMICAL BALANCE.

MR. THOMAS KNOWLES, of Chapeltown, Turton, near Bolton, has devised and patented a very ingenious arrangement for facilitating weighing and securing accuracy therein, but the principal object being to dispense with the use of the smaller weights. From the illustration it will be seen that the beam

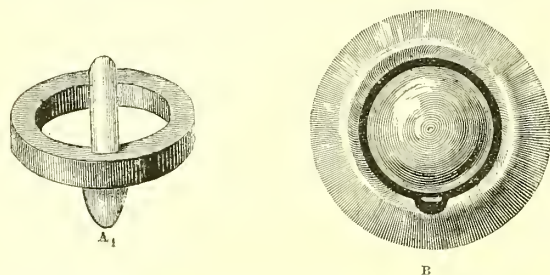


of an ordinary chemical balance is fitted with a rider, and behind the scales on a separate support is fitted a movable bar graduated on five sides. One side is graduated to .05 and .10 and their multiples; the second to .01, .06, and 0.11; the third to .02, .07, and .12; and the other sides to such divisions as make up the whole decimal. When an article is to be weighed, if, for example, it be less than 15 or more than 10 grammes, all that is necessary is to use the 10-gramme weight, then, instead of using the smaller weights for the finer balancing, the rider is slipped along the beam, until perfect equilibrium is attained. The graduated bar is then turned round until a mark is found to correspond with the position of the rider. Obviously this is a very time-saving instrument, and the patentee states that it indicates a tenth of a milligramme. It may be used either with grain or gramme weights.

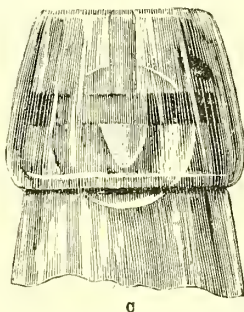
PATENT "TRIGGER-OPENER" ATTACHMENT TO BALL-STOPPERED BOTTLES.

A CLEVER idea in connection with ball-stoppered bottles has been patented, and its value is testified and its success assured by the fact that Messrs. Barnett & Foster have taken it up and will be the exclusive manufacturers of the attachment. The invention consists of a small piece of tinned metal in the form of a spear, which is inserted in the ordinary india-rubber ring; the bottle neck is formed with a vertical groove or slot, communicating with the annular groove for holding the ring. In this vertical groove or recess the trigger lies; it is quite out of the way in brushing out the bottle. The bottle is filled in the ordinary manner. For opening the bottle, it is only necessary to draw the trigger over towards the centre of the bottle, thereby making a passage for the gas pressure to pass behind the ring, when the ball immediately falls, and the ring regains its normal position. The trigger does not project beyond the mouth of the bottle, and will not therefore catch in anything to cause the bottle to open accidentally.

The drawings show (A) the trigger attached to the ring as supplied to the trade, (B) a plan of the neck of the



bottle, showing attachment as fitted into the bottle when filled; and (C) the top of a bottle with globe stopper and



trigger attachment fitted. Besides the convenience, this invention enables any one, a lady or a child, to open one of the patent bottles without a separate opener, and with no danger of bursting the bottle by applying pressure.

Messrs. Barnett & Foster are pushing globe-stoppered bottles termed the "Eclipse," which are so constructed that they will hold the ball back on either side whilst pouring out, have a free passage for a brush for cleansing, are exceptionally strong, and have a very neat, symmetrical appearance as compared with other globe-stoppered bottles.

HUNT'S BOTTLE-HOLDER.

THIS is a perforated sheet of rubber fixed by means of a brass ring into a stained wood frame. The object of the holder is to keep the bottles steady when dispensing or capping. This

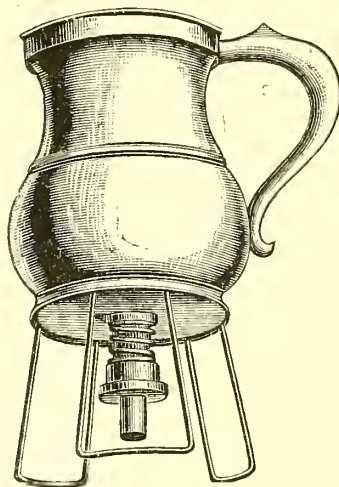


it does so effectually that both hands may be used in placing on a cap. Dispensers know how frequently phials and bottles are knocked over at the dispensing counter; by keeping a few of these holders amongst the accessories of the department, and using them as required, their value will

become quickly apparent. To use the holder it is simply slipped over the bottle, to the position shown in the illustration. The makers are Messrs. W. F. Hunt & Co., London and Marseilles.

COMBINATION MEASURE AND FILLER.

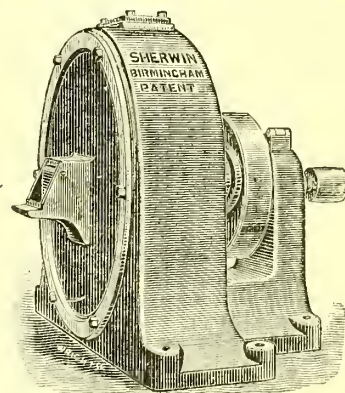
THIS excellent and serviceable measure has been designed by Mr. W. R. Maud, chemist, Pontefract, for the twofold purpose of measuring liquids and emptying the measureful into a bottle without the use of a funnel and without spilling.



The contrivance, which is seen in a pendant position at the bottom of the measure, is a spring tube, which in virtue of the spring is self-closing, but when the tube is placed in a bottle and the projecting collar is pressed upon the neck, the tube passes upwards and discloses a side opening (the summit of the tube is closed) through which the liquid in the vessel runs out. When not in use the measure is supported as shown in the figure. For measuring oils, varnishes, and other similar liquids the measure will be of great service.

SHERWIN'S ROTARY SCREEN MILL.

THE peculiarity of this grinding machine is that it grinds and screens at the same time, or may be used for either purpose as desired. The material to be operated upon is put into the hopper shown in the front of the machine, and is reduced by rapidly-revolving beaters against a serrated segment. At the end of this segment the ground material falls on a revolving screen, the finer-powdered material pass-



ing through, whilst the coarse is returned by vanes for further reduction. This arrangement ensures that the whole

of the material put into the mill can only leave it in the state of impalpable powder. The samples of rhubarb, charcoal, and sulphur ground by the mill which we have examined prove its efficiency. The maker is Mr. George E. Sherwin, Alma Street, Birmingham.

BANKRUPTCY REPORT.

SALT, BIRMINGHAM.

AT the Birmingham County Court, on the 27th inst., before Mr. Registrar Cole, Ashton Trew Salt, formerly in partnership with his father in Corporation Street, Birmingham, surgical instrument maker, was examined. Debts, 292*l.*; assets, 71*l.* The bankrupt, in reply to Mr. Sharp (the Official Receiver), said that he commenced business in partnership with his father 17 years ago. He introduced into the business 900*l.* when he joined. For ten years the business prospered, and then began to decline in consequence of the competition to which they were subjected by wealthier firms underselling them. They contracted their household expenses, but were obliged in 1883 to meet their creditors, who accepted a composition of 12*s.* 6*d.* in the pound, which had been paid. His separate creditors accepted 10*s.* in the pound, which was secured by a Mr. Williams. He was unable to pay the 10*s.* in the pound, and Mr. Williams found 150*l.* of it, which he now proved for. His father and he dissolved partnership in April last, because his father wished to have the sole control of the business. The dissolution was not due to any difficulty he had with his creditors. The debts other than the 150*l.* due to Mr. Williams were for household goods and clothing. The examination was concluded.

TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." All communications relating to patents, designs, or trade-marks to be addressed to H. Reader Laek, Esq., Comptroller-General of Patents Designs, and Trade-marks, Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

From the "*Trade Marks Journal*," July 28, 1886.

- PHYSICIAN'S STAFF, with the initials "Dr. M." and "S. P." at sides; for medicated lozenges. By Ad. Schinke's Pastillen Fabrik, Hamburg, Germany. 51,711.
- "THE MOTHER'S FRIEND;" for children's powder and other preparations. By Henry Mortou, The Elms, Ramsgate. 51,823.
- "FRIGLINE" (52,391), and two bulls' heads supporting monogram "A. C. F." (53,106); for antiseptics. By the Food Preservation Company, 7 and 8 Manchester Avenue, Aldersgate Street, London.
- "THE KING'S MINERAL-WATER WORKS, BRIGHTON;" and autograph; for aerated waters and the like. By W. C. Burroughs, Black Lion Street, Brighton. 52,523.
- "RIEKMANSWORTH MINERAL-WATER COMPANY;" and autograph; for aerated waters and the like. By Franklin Bros., Riekmansworth. 52,541.
- FIGURE of a goat, within a circular design bearing the words "Royal Goat Brand;" for perfumed soap. By the Coumah's Quay Alkali Company (Lim.), Coumah's Quay, Flintshire. 52,586.
- A large illustration showing a water-bottle with a skeleton ("Typhoid Fever") inside it, and printed matter; for filtering apparatus. By Henry R. Lipscombe, trading as Lipscombe & Co., 144 Oxford Street, London. 52,926.
- A FOX AND A SODA-WATER BOTTLE, with the wording "Wm. Thorne, Tally Ho, Birkenhead;" for mineral and aerated waters. By W. Thorne, Oliver Street, Birkenhead. 52,931.
- FIGURE of a man with a respirator on, and the words "The 'Factory' Respirator;" for respirators. By Frazer & Green, 127 Buchanan Street, Glasgow. 52,951.
- "THE HERCULES;" for combs. By R. Hoveuden & Sons, 32 Beruers Street, London, W. 52,953.

Trade Report.

It should always be remembered that prices quoted in this section are as nearly as can be ascertained the lowest that are actually paid for bulk quantities. Considerable allowances have to be added in many cases before ordinary prices can be ascertained, and for many drugs it must be recollected the range of quality is very wide.

MINCING LANE, July 30.

CHEMICALS.—A Manchester correspondent states that there has, perhaps, been a little more business passing since the turn of the half-year, and the few alterations in prices have mostly been in sellers' favour. Taken on the whole, it may be said that the prospects are a little brighter. In *Acetate of Lime* and kindred products the market is decidedly better, but consumers are loth to believe in anything like permanency in the present advance. The estimated total consumption of *Nitrate of Soda* in the United Kingdom during the last six months is 15,000 tons less than during the same period of last year, but the stock is only about 4,000 tons more than at July 1, 1885, and is actually about 16,000 tons less than at the commencement of this year; whilst the imports, January to June, 1886, are over 20,000 tons less than during the same time last year. *Sulphate of Ammonia* is also higher proportionately to nitrate of soda than it was this time in 1885, so so that it would appear as if the turning-point in nitrate had been nearly reached. *Caustic Soda* and *Soda Ash* without animation, and buyers resist all arguments for extended forward contracts. The same may be said of *Bleaching Powder*. Compared with January to June, 1885, this year shows a decline in the exports of *Alkali* of 9,000 tons.

ACID (CARBOLIC).—Manufacturers state that orders are coming in freely. They describe the article as very firm, and quote 1-lb. bottles at 1*s.* 2*d.* From another quarter we learn, however, that the inquiry thus far has not come up to the anticipation formed of it.

ACID (CITRIC).—The makers' prices for spot stuff still remains at 2*s.* 3½*d.* per lb.

ACID (OXALIC) remains entirely neglected at 3½*d.* to 4*d.* per lb., less discount.

ACID (TARTARIC) neglected. *English*, in which, however, nothing is doing, is still quoted at 1*s.* 8*d.* per lb. *Foreign* acid is held at 1*s.* 7½*d.* per lb.

BORAX rules firm at 28*l.* 15*s.* to 29*l.* per ton., or 26*l.* 10*s.* to 26*l.* 15*s.* for foreign.

CAMPHOR is very firm, crude *Japan* being quoted at 68*s.* per cwt., and *China* at 65*s.* per cwt., with prospects of a further rise. For American account 700 piculs have been taken from the London market. In *Japan* prices have also advanced 10 per cent., and no offers are made from that quarter.

CREAM OF TARTAR.—The improvement anticipated in some quarters has not yet become a fact, firsts on the spot still being obtainable at 124*l.* to 124*l.* 5*s.*, ex warehouse.

QUICKSILVER is held firmly at 7*l.* by the importer; second-hand sellers at 6*l.* 18*s.* might, perhaps, still be found.

SODA.—Prices show no alteration, *Ash* remaining at 1¼*d.* to 1½*d.*; *Bicarbonate*, at 7*l.* 5*s.* to 7*l.* 10*s.* ex warehouse, being steady; *Caustic*, cream at 8*l.*, white 60 per cent. at 8*l.* 5*s.*; and *Crystals* at 2*l.* 7*s.* ex ship here, and 2*l.* 15*s.* to 2*l.* 1*s.* on the Tyne. *Nitrate* on the spot is quoted at 9*l.* 10*s.* ex ship, 9*l.* 12*s.* 6*d.* landed.

SULPHATE OF AMMONIA has again made a slight improvement, and now reaches the price of 11*l.* 7*s.* 6*d.* for grey 24 per cent. in London, and 11*l.* 5*s.* for ditto in Hull.

SULPHATE OF COPPER without animation. For ordinary firsts 14*l.* to 14*l.* 10*s.* is still demanded.

SULPHATE OF QUININE has undergone a further reduction, after having been extremely flat for some time, the expected demand from America proving visionary. At the end of last week German brands in tins were offered at 2*s.* 1*d.* per oz., but this offer led to no result, no buyers over 2*s.* per oz. pre-

representing themselves. In consequence of the absence of any improvement in this week's bark sales, Messrs. Howard & Sons have reduced the price of their brand in vials to 2s. 3d. per oz., usual terms. Pelletier's is still quoted at 2s. 7d. per oz., while the Italian quinine has been officially reduced to 2s. 1d. per oz.

SULPHUR closes steady with a tendency in buyers' favour. The total quantity exported from Sicily during June amounted to 17,500 tons, but only about 3,500 tons came to this country. An improvement may, it is expected, occur during the next six weeks or so.

ESSENTIAL OILS (VARIOUS).—*Cinnamon* neglected and no sales reported. *Cinnamon leaf* is offered at 2d. per oz., at which price small sales are reported. *Citronella* remains extremely quiet, with retail sales of about 50 cases at $\frac{33}{4}$ d. per oz. The quotation for large quantities is still $\frac{1}{4}$ d. per oz. for native, and $1\frac{3}{4}$ d. for Fisher's oil. In *Lemongrass* there are sellers at $\frac{3}{4}$ d. per oz., and a little has been done at that price.

OIL OF PEPPERMINT (JAPAN).—Messrs. Cocking & Co., of Yokohama, write under date of May 25:—"We have to report a large demand since reducing our prices, and the market is very firm at present quotations. The great demand for menthol conducted to a large increase in the cultivation of the mint, the result being that in the hurry nearly the whole of the new plantations have been laid down with a very inferior variety of the plant, known among the peppermint growers as the green kind; this, in conjunction with unsuitable soils, has produced an almost useless class of oil, with a rank, turpentine, or camphoraceous smell. It is this quality of oil that has been produced in excess, and been shipped from here in large quantities and offered on the Continent at very low prices." The quotations for Messrs. Cocking's brand in original cases are \$250 to \$255 per lb., and in 14 lb. tins \$245 per lb. f.o.b. Yokohama.

OIL OF PEPPERMINT (MICHIGAN).—Mr. A. M. Todd, of Nottawa (Mich.), writing on July 10, informs us that the American crop of peppermint will be worse this season than it has been for several years. Much of it is not worth cutting. Mr. Todd has accordingly advanced the price for his brand.

CASTOR OIL.—The present price asked at Liverpool is $2\frac{23}{32}$ d. per lb. for good seconds.

COD LIVER OIL.—Advices from Norway state that the stocks of past season have become concentrated, and prices have about reached their lowest point. The new crop for the season 1885-6 is being brought into the market, but the low prices ruling have deterred local makers from manufacturing to any extent for export, the yield so far being no more than sufficient for domestic requirements. For a bright pale yellow oil, slightly congealable at 32° F., 2s. 9d. per gallon.

ERGOT OF RYE.—It is stated on good authority that the yield in Russia leaves very much to be desired, and that so far hardly any ergot has been received by merchants. It is rumoured that some Russian houses intend to secure, even at the prices now ruling, all the ergot upon which they will be able to lay hands.

INSECT FLOWERS.—A Trieste correspondent writes with regard to the stock in that port, that on May 31 an old stock from the season 1884-85 was left on hand amounting to 140 tons; to this should be added 475 tons of all sorts imported in the season 1885-86. The total amount sold during the season is 522 tons, so that only about 93 tons stock remained on May 31. This quantity was subdivided as follows:—4 tons wild flowers (Montenegrin); 37 tons cultivated flowers of different descriptions, closed and half-opened (Città Vecchia); and 52 tons open flowers (Ragusan). The supplies of cultivated flowers of the new crop were scanty at first, but have of late become more liberal, accumulating to about 30 tons in all, which are held 15 per cent. dearer than the old crop. It should be noted that buyers have chiefly taken their supply from previous years' crops, and but very little of the fresh flowers.

MENTHOL CRYSTALS.—We hear from Yokohama that the great demand that has been created for the article has induced a very large area of land to be placed under cultivation, and the product this season will more than meet all

likely demands. The increased quantity available has, moreover, tended to a large proportion being shipped of a very inferior quality by those entirely unacquainted with the article. The result of this has been seen in the forced sales that have taken place in London, and which have caused heavy losses to those concerned.

SHELLAC has attracted slightly more attention, although no improvement has as yet taken place in the price. In public sale some 550 cases were offered, of which about two-fifths found purchasers. First Orange, G double-triangle SL, at 68s. to 69s.; Second Orange M diamond good bright, 49s. to 50s.; AT diamond, fair, 48s. to 49s.; GS circle ditto, 48s.; BP house rather livery, 47s.; TN diamond, fair, 47s. Button (13 chests) RBBL, 2 circle, dark unworked second sort at 45s., Calcutta terms.

CINCHONA BARK.—The supply offered for sale on Tuesday was quite up to the average as regards quantity, consisting of 2,618 packages from Ceylon, 455 from British India, 190 from Java, and 846 from South America. The demand was moderate, about 60 per cent. of the total supply being disposed of at previous values, the unit being generally $3\frac{1}{2}$ d. American cinchonas are quite neglected, while those imported from Java appear to maintain their place in the favour of buyers.

The following are the prices realised:—*South American*—calisaya, fine stout druggists' quill, 1s. 11d. per lb.; soft Columbian, 3d. to $3\frac{1}{2}$ d. per lb. *Ceylon*—Suceirubra, branch, 1d. to 2d.; chips, ordinary small to bright 3d. to $5\frac{1}{2}$ d.; spoke shavings, ordinary dusty to good pale, $3\frac{1}{2}$ d. to $9\frac{1}{2}$ d.; root, 3d. to $5\frac{1}{2}$ d.; quill, broken and dusty, $3\frac{1}{2}$ d. to 5d.; ditto, renewed, ordinary dusty to fine whole, 3d. to 1s. 1d. *Officinalis*—siftings, 7d.; branch, 1d. to $6\frac{1}{2}$ d.; Chips, 4d. to $8\frac{1}{2}$ d.; spoke shavings, 4d. to 1s. 2d. (the latter price for an exceptionally fine parcel); root, $7\frac{1}{2}$ d. to 1s. 3d.; quill, $7\frac{1}{2}$ d. to 1s. 6d. for ordinary broken to fine rich. *East Indian*—Suceirubra, siftings, 2d. to $2\frac{1}{2}$ d.; branch, 1d. to $5\frac{1}{2}$ d.; chips, $3\frac{1}{2}$ d. to 5d.; spoke shavings, 4d. to $6\frac{1}{2}$ d.; quill, fine bright strong broken, 6d. to $7\frac{1}{2}$ d.; druggists' sort, in cases, small silvery, 1s. 2d. to 1s. 4d.; strong heavy bright red and very mossy, 2s. 4d. to 2s. 5d.; renewed, $2\frac{1}{2}$ d. to 7d.; good, 3d. to $8\frac{1}{2}$ d.; fine, 1s. 3d. *Officinalis*—branch, fine dry strong, $5\frac{1}{2}$ d. to 6d.; ditto bold, 10d.; shavings, 5d. *Java*—Ledger, branch, $3\frac{1}{2}$ d.; chips, $6\frac{1}{2}$ d.; quill, fine dry, slightly mixed with chips, 1s. 10d.; root, fine rich, 1s. 10d.; renewed, 11d. Suceirubra, branch, strong dusty, $4\frac{1}{2}$ d.; root, 1s. 4d. to 1s. 5d.; renewed, 1s. 6d.; quill, bright silvery, 1s. 1d. to 1s. 3d.; crown chips, 1d. to 1s. 1d.; renewed, 11d.

The next public sales of bark at Amsterdam are advertised for August 20.

ISINGLASS.—The periodical sales occurred on Tuesday, and resulted in a general advance of prices. Only 130 packages were offered, a total very much below average. The demand was brisk, and almost the whole of the supplies were disposed of; *Brazil* at 2s. 1d. to 4s. 8d. for fourth to first Pará lump, an advance of 3d. for 6d. per lb. for the better varieties; Maranhamp lump, ordinary to fair, at 2s. to 2s. 11d.; Pará tongue, at 1s. 7d. to 3s. 1d.; Maranhamp ditto, at 1s. 1d. to 3s. 7d., being very slightly dearer; and stout honeycomb at 2s. 3d. per lb. *West Indian* dear, at 2s. 1d. to 3s. 1d. for ordinary red horny to fair middling. *Penang* leaf is about 2d. per lb. dearer, viz. 1s. 3d. for pickings to 3s. 6d. for good; tongue much dearer, 3s. 11d. having been paid for fine quality. Cake has advanced 2d. in some instances, middling to good pale fetching 1s. 2d. to 1s. 10d. per lb. Of *Bombay* very little was offered, and of *Saigon* a few bales ordinary leaf brought 2s. 2d. per lb.

COCOANUT OIL.—The market has remained stagnant since our last report, and, as very little is doing, quotations are more or less problematical. The following may be considered the nearest values:—*Cochin* in pipes, fine quality, 33d.; *Ceylon* in pipes and puncheons 25l. 15s. to 26s.; in hogsheads 26l. to 26l. 10s. *Mauritius* is again quoted lower at 25l.

COTTOSEED OIL is firm and dearer. In London 16l. 10s. is reported paid for *crude* oil, which is quoted at 15l. 10s. in Hull. Our market for *refined* oil has also risen to 18l. 5s.,

18*l.* 15*s.* spot price, according to quality and packing; and 18*l.* 10*s.* for July–August. The Hull price is 17*l.* 17*s.* 6*d.* for casks on the spot. In Liverpool refined is steady at 19*s.* to 19*s.* 6*d.* per cwt., with a continued fair demand for American refined at previous prices.

LINSEED OIL has made an advance of from 2½ to 5 per cent., according to position, and closes firm at the following figures:—On the spot, here, pipes, waterside, 22*l.*, land 22*l.*, barrels 22*l.* to 22*l.* 5*s.*, August 21*l.* 12*s.* 6*d.* to 21*l.* 15*s.*, September–October 21*l.*, September–December 20*l.* 10*s.* to 20*l.* 12*s.* 6*d.* Hull, spot 22*l.*, month 21*l.* 17*s.* 6*d.*, barrels 22*l.* 7*s.* 6*d.*, August 21*l.* 7*s.* 6*d.*, September–December 19*l.* 15*s.* to 19*l.* 17*s.* 6*d.*

OLIVE OIL.—The transactions in this article have been of an extremely limited character. *Mogadore* is held nominally at 32*l.* 10*s.*, a price which can only be obtained for retail quantities. It is reported from Liverpool that during the last few days a somewhat better demand has been manifested, 38*l.* per ton having been paid for a fairly important parcel of *Seville* oil.

PALM OIL very quiet at 24*l.* for fine *Lagos*. In Liverpool transactions of some importance have taken place at 21*l.*

PETROLEUM is slightly weaker for American oil, especially for forward delivery, but the *Russian* variety is steady. The quotations are: American on the spot 5½*d.* to 5½½*d.*, September–December 5½*d.* to 5½¾*d.*, January–March 6*d.* Russian, spot 5*d.* to 6*d.* according to quality, November–December 5½*d.*, January–March 5½*d.* to 6*d.*

RAPE OIL is in limited demand, and the quotations for *English brown* have declined 5*s.*, being now 20*l.* 15*s.* for spot, 21*l.* for July–August and September–December, 21*l.* 5*s.* for January–April. *Refined English* is unchanged at 22*l.* 5*s.* to 22*l.* 10*s.* In Liverpool *Refined Stettin* oil is selling in small quantities at the rate of 25*s.* 6*d.* to 26*s.* 6*d.* per cwt.

TURPENTINE experienced an advance last week, but since then quotations have again given way a little, and are now 25*s.* 6*d.* for American spirits on the spot, and 25*s.* 3*d.* to 25*s.* 6*d.* for September–December. A fair business has been done. On 22nd inst. our stock was 16,493 barrels, against 22,434 barrels in 1885.

CASSIA LIGNEA.—No improvement can be recorded in this article, a few lots only having changed hands at 24*s.* for ordinary quality.

CHILLIES dull and slightly easier, 32*s.* having been accepted for *Zanzibar*, and 35*s.* for a lot of very good bright *Java*.

CINNAMON.—Market very quiet, a very few retail sales at about last auction rates being reported. Chips are scarce, and offering very sparingly.

CLOVES.—The market for *Zanzibar* remains weak at nominally unchanged rates, but we have not heard of any important transactions. Of *Penang* cloves a small quantity was offered in auction, but without finding a purchaser.

CLOVE-STEMS are selling at 2*d.* per lb.

GINGER.—The transactions in *Cochin* at Wednesday's auctions were of a retail character, being confined to a few lots of rough, which realised 32*s.*; and of small bright, partly cut, at 48*s.* per cwt., or about previous values. *Bengal* is slightly dearer, at 15*s.* to 15*s.* 6*d.* About 270 bags have been sold at these quotations. *Jamaica* firm, and in fair demand. Good ordinary to low middling sells at 37*s.* to 39*s.*, middling to good middling at 37*s.* to 39*s.*, and good to fine at 53*s.* to 66*s.* per cwt.

MACE scarce and dear; as much as 2*s.* 6*d.* per lb. has been paid for fine pale *Penang*.

NUTMEGS.—The demand shows no abatement, and the small quantities placed on the market have been taken at improved prices, the bold nuts being particularly desired. *Penang* nuts are worth from 2*s.* 2*d.* to 3*s.* 8*d.* for 84's to 62's. *West Indian* from 1*s.* 4*d.* to 2*s.* 1*d.* for 141's to 80's.

PEPPER.—*Black* quiet. In sale no transactions took place, but for arrival 25 tons fair Acheen are reported sold at 7½*d.* per lb. *White* is dearer, Singapore on the spot selling at 1*s.* 1¼*d.* per lb., and Penang for arrival at 11½*d.* per lb.

PIMENTO continues neglected, and only small quantities

can be sold, although some holders are content to press their stuff upon the market and to accept lower rates. 2½*d.* to 2¾*d.* per lb. is the price paid for ordinary grey to good, bold, brown corns.

THE AMERICAN MARKETS.

NEW YORK, July 16.

THE drug market has again assumed a busy appearance, and the outlook for a continuance is favourable and encouraging.

The prices sterling (in parentheses) are what the different articles would cost delivered in London, all market allowances, discounts, &c., being taken into account. Importers can, therefore, see at a glance the course of this market compared with their own.

CURAÇAO ALOES.—In place of 300 boxes advised last week as coming to hand, the parcel turns out to be 511 boxes.

TONCA BEANS.—Over 12 tons of Angostura came to hand during the last ten days. The market is already weaker at \$1.60 (7*s.*).

COCA LEAVES.—The position is unaltered, but the market is very dull. A recent arrival of 61 bales, meeting with no buyer, has been shipped to Hamburg, where the stock is said to be very large.

GALANGAL ROOT.—Last week at public sale 44 bales were disposed of at 1*c.* per lb. (7*s.* 3*d.*); before that 165 bales had been shipped to London. There is not much demand for this root in the United States.

GUM GUAIAACUM is dearer, ordinary drossy kind sold at 15*c.* (9*d.*). Prime quality is scarce.

GUARANA has experienced a movement after long stagnation; 10 cases were taken off the market for home consumption, and now the holders of the 30 in first hands have raised their pretensions to \$1.30 (6*s.*).

DAMIANA LEAVES are scarce, stocks are light here. San Francisco quotes 18*c.* (1*s.* 1*d.*); the new arrives in October.

QUININE.—There is nothing new in the position of affairs. Prime German brands are quoted in a jobbing way 52*c.* (2*s.* 2½*d.*, 5 per cent.), but large lots can be had at 50*c.* (2*s.* 1½*d.*), buyers, however, do not come forward, and speculators appear to avoid the article. The consumption has not been greatly increased by low prices, and the demand is generally reported dull. As to the future nobody cares to hazard an opinion at present.

OIL (PEPPERMINT).—The market is firmer and orders for H. G. Hotchkiss brand from Germany had to be refused. Holders ask \$3.50 (16*s.*), buyers' ideas \$3.40 (15*s.* 6*d.*). Reports from all quarters state that the crop has been irreparably damaged; interested and disinterested parties agree in this, the only objectors being the clique here who want to "bear" the market, to allow them to get supplies cheap. Last year these tactics met with overwhelming defeat, and resulted in heavy loss to the originators. Of course, from the foregoing it is not to be supposed there will be no oil forthcoming, for there will be plenty, but not the enormous quantities that would drive the market down to \$2.0 (8*s.* 6*d.* net).

ESSENTIAL OILS.—*Sassafras* very dull of sale, at the low price of 38*c.* (1*s.* 8½*d.*). *Wintergreen* is dearer, \$1.85 (8*s.*) being now demanded. *Cassia* neglected at 65*c.* (2*s.* 10*d.*).

SPERMACELE.—The price is nominally 46*c.* (1*s.* 11½*d.*), but little is to be had from the makers. An active inquiry prevails for the Continent.

ROOTS.—*Serpentary*, no arrivals have taken place from the south; the market is bare, and price nominal. *Senega* is in large demand for the new crop, price unchanged. *Salup*, none offering; all the stock held for an advance.

BROMINE SALTS unaltered; potassium, 34*c.* (1*s.* 5¾*d.*, 5 per cent.); ammonium, 40*c.* (1*s.* 9*d.*); sodium, 38*c.* (1*s.* 8*d.*).

SARSAPARILLA.—Mexican without alteration. Honduras stock, 1,000 bales, and hardly any demand; prices run from 27*c.* (1*s.* 3¾*d.*) to 38*c.* (1*s.* 10¼*d.*), and may be said to be cheap.

COTTON-SEED OIL is again tending higher.

Prices Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

CHEMICALS.

Table listing various chemicals and their prices for July 16 and July 30. Includes categories like ACIDS, ANTIMONY, ARSENIC, BRIMSTONE, CHLOROFORM, GLYCERINE, IODOFORM, MAGNESIA, MERCURY, PRUSSIAN BLUE, SALTS, etc.

Saltpetre:—(cont.)

Table listing prices for Saltpetre, Soda: Bicarbonate, Ash, Crystals, Caustic, Hyposulphite, Nitrate, Zinc Sulphate, SUGAR OF LEAD, White, VERDIGRIS, Vermilion, English, China.

DRUGS.

Table listing various drugs and their prices for July 16 and July 30. Includes categories like ALOES, BALSAM, BARKS, CINCHONA, CANTHARIDES, CHAMOMILE FLOWERS, COCA LEAVES, ERGOT OF RYE, FRUITS & SEEDS, LEMON JUICE, LIME JUICE, LIQUORICE, MANNNA, MUSK, OILS.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish.

Write on one side of the paper only; write early; and devote a separate sheet of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

The Irish Pharmacy Act.

SIR,—Once more I appeal to you on a legal point which affects most of the pharmacists of Ireland. There is no use in appealing to the Irish Council, as they are too poor, even if the law is broken, to take any action in the matter. The question is, Is it legal for a druggist to employ a qualified pharmaceutical chemist to dispense prescriptions, the druggist with no qualification whatever, the assistant's name being on the labels, but the druggist putting the profits in his pocket, and perhaps allowing the assistant a percentage on his prescriptions? Daniel O'Connell once said he could drive a coach and four through any Act of Parliament; I think the unqualified men in Dublin are doing the same thing every day, and the Dublin Council will not interfere in the matter. Clause 30 of the Pharmacy Act, 1875, makes it unlawful for any person to keep *open shop* for retailing, dispensing, or compounding medical prescriptions unless *he* (the owner of the open shop) be registered as a pharmaceutical chemist, &c. Now the question is, Does the assistant *keep open shop* by merely putting his name on the labels, and does the assistant pocket all the profits arising from the pharmacy part of the business? I ask you these few questions hoping you may be able to assist us in the matter with your opinion and advice.

I remain, sir, faithfully yours,
AN IRISH PHARMACIST.

[We should certainly presume that the druggist in the case supposed would render himself liable to a penalty under the Pharmacy Act of Ireland, 1875. Under that Act we believe it is competent for anyone to prosecute. In Great Britain such prosecutions can only be undertaken by the Pharmaceutical Society.]

Has he been treated fairly?

SIR,—As some of your readers know that I intended competing for the Herbarium prize for the year 1885-6, I thought you could allow me to explain why my herbarium will not be among those from which the prize one will be selected.

At a considerable expenditure of labour and time, and not a little pecuniary cost, I collected an herbarium of between 500 and 600 specimens, and sent it to Bloomsbury Square, where it was refused, the secretary telling me I was ineligible to compete.

The facts are as follows: When I passed my Preliminary examination I received a letter saying "you are now registered as a student or apprentice of this Society." In reading over the instructions for the Herbarium prize, one feature is that "a competitor must be a student or apprentice of the Society." I considered from my certificate I was so, and thought I was quite eligible. Six weeks before sending my herbarium up I wrote the secretary asking for final instructions. He simply sent me a circular, but omitted to say I was ineligible. On June 23 I sent up my collection and received on the 25th a letter from the secretary saying I was not eligible to compete for the medal, not having been elected an apprentice or student of the Society by payment of 10s. 6d. I immediately sent the subscription, which he would receive on the 25th.

He then acknowledged the receipt, but stated that I could not be elected until July 6. He would return my herbarium at once.

By the advice of Mr. G. Claridge Druce, F.L.S., pharmaceutical chemist, with whom I am apprenticed, I at once proceeded to London and had an interview with the secretary; he could not see his way to help me in any manner, and declined to lay the matter before the Council, until, having been introduced to Mr. Holmes, an enthusiastic botanist, by his kind persuasion the genial secretary consented to put it before them.

Of course I was elected on July 6, but I was informed the Council could not see its way clear to override [the by-law] in my favour, hence the herbarium was returned to me.

The receipt of my election is dated from January to December, 1886. Does that not imply one is a member for the current year?

During my interview with the secretary he acknowledged how very misleading the words "registered an apprentice or student of the Society" were; in fact, he said they had two meanings, and were used for a person who had passed the Preliminary, and also for one who had paid his subscription to the Society, and had been elected. Knowing this, would it not have been in his power to have informed me of my ineligibility when I wrote six weeks before sending my collection? when I could have been elected and have saved what appears to me to be a serious act of injustice to one whose herbarium has been barred from competition by a quibble, but as an equivalent has the honour of belonging to the Pharmaceutical Society.

I am, yours truly,
118 High Street, Oxford.

W. TITE FROST.

[Our correspondent does not state the case quite accurately. On passing the Preliminary examination he was advised that he was "registered as an apprentice or student," not "as an apprentice or student of this Society." It is a pity that the Society cannot more clearly distinguish between legal registration and association with their Society. This confusion, however, occurs because a registration at first voluntary has become compulsory. That the receipt for a retrospective period does not give retrospective rights seems anomalous, and may perhaps put the Society in the wrong; but our correspondent certainly ought to have known, and might have assumed, the general fact that only persons associated with the Society are eligible to compete for the Society's prizes.—*Ed. C. & D.*]

The Hop Bitters Labels.

SIR,—We observe in the last number of your Journal a paragraph with reference to the action we have taken in regard to Hop Bitters Labels, and you comment on the counsel's opinion quoted therein thus: "There is a cocksureness about that opinion which seems to indicate some degree of youthfulness on the part of its author. Surely the labels against which an injunction *has been* obtained would have been passed by this authority on the grounds stated." Now we had nothing to do with sending that paragraph, but certainly consider it would have been better to have refused its insertion than to make such comments about a matter of which you had no knowledge, and which we fail to see is any concern of yours.

As a matter of fact the "authority" had submitted to him, along with others, the *very label* upon which the Hop Bitters Company took proceedings and obtained an injunction, and he condemned that label as being an infringement of their trade-mark.

We trust that, in common fairness, you will give this correction publicity in the next issue of THE CHEMIST AND DRUGGIST, as your remarks are calculated to convey a wrong impression.

Yours truly,
London, July 27.

FORD, SHAPLAND & CO.

Stamps and Medicines.

SIR,—*Re* "Spongias" inquiry on page 123 of last week's CHEMIST AND DRUGGIST, and also *re* "Thompson's Liver Pills," on page 215 of your last volume. With regard to the latter, I understood that *any* pills sold as liver pills by Thompson (I suppose he would not print "Thompson's" on the label of a penny box of them) were liable to stamp-duty.

In other words, because Thompson had a stamp upon some liver pills, *all* pills sold by him as "liver pills" were rendered liable.

Writing of the former you say, "Teething powders" may be sold singly or by the thousand without stamping them. True, but, if "Spongia" sells some teething powders with stamp, would not *all* "teething powders" sold by him be liable, just as much as "Thompson's Liver Pills" are, in the eyes of the solicitor?

Besides, each powder in the packet of Steedman's or Steedman's Powders bears printed matter sufficient to render it liable. Any person holding a patent-medicine licence can, I believe, sell these powders singly; but is not this subject to the provision that they are taken from a stamped packet?

Is not "Spongia's" puzzle whether he will not have to sell single powders from a stamped packet? That is, will he not have to destroy a 1½*d.* stamp for every shilling's worth of powders he sells?

Faithfully yours to serve,

July 24. COUNTRY BUMPKIN. (188/52.)

[Our country friend is surely making difficulties where none exist. "Spongia" may, if he likes, as C. B. points out, quite easily make all his pills liable to the patent-medicine stamp. He can do this by advertising their virtues, or by describing the pills as "Spongia's" on his labels or elsewhere. But then, on the other hand, why should he take these steps? So with the teething powders. He cannot sell Steedman's or Spongia's teething powders, unless from a stamped packet, but he may sell simply "teething powders" without any stamp at all. But we urge any chemist who does not agree with our view of the case to apply to Somerset House for an authoritative reply on any particular point.]

17/189. *Spongia* also continues in doubt. He says:—"If I label and advertise powders so as to be liable to stamp duty, how should I do in selling single powders, or any quantity less than a packet? How could I satisfy (if needful) the Inland Revenue authorities that the packet from which the single powders were taken had been stamped?"

[If the Board of Inland Revenue were to prosecute you it would be for them to prove that you had not complied with the law. You would, of course, swear that you had done so. But you can save yourself all anxiety on the point if you will put up your packet of powders stamped, and send it to the Board, asking if you may sell the powders singly.]

Mr. Schacht and Reduced Prices.

SIR,—It is well that this eminent personage of modern pharmacy should disclaim any connection with the firm which has caused such a stir in the trade of Clifton; surely it would have been more becoming if, when Mr. Schacht had been outvoted by his two other partners, he had refused the use of his name to the price-list (which you recently noticed); and, had it appeared as coming from (Giles & Co., Clifton), such an unfavourable opinion would not have been created in the trade.

Yours truly,

DELTA. (188/64.)

The Production of Phosphorus.

SIR,—We are sorry to see that in your paper of June 26 you state, apparently on our authority, that the total production of phosphorus is 1,200 tons per annum, which we believe to be quite incorrect. In our letter of June 23 we ventured an estimate of the amount of amorphous produced, but said that we were unable to do so for the common phosphorus.

Yours truly,

ALBRIGHT & WILSON.

Oldbury, near Birmingham.

Antiseptic Tooth-powder.

SIR,—In reply to "Edinburgh Pharmacist," I send you by this post a small packet of tooth-powder made according to Dr. Macgregor's formula. I wanted, like you, to try it, as I am quite sure that, although your correspondent is "not

enamoured of it," you will find it an efficient cleanser, and neither unsightly nor disagreeable to taste. Unless "Edinburgh Pharmacist" is the "chemist in town who has prepared an antiseptic powder which has found some favour," and is afraid that the publication of Dr. Macgregor's formula will affect his returns, I cannot see the object of his letter. Dr. Macgregor lays no claim to the discovery of boric acid or its use as an antiseptic in tooth-powder. All he does in his paper is to call attention to the usefulness of boric acid in mouth affections, and to give a formula for tooth-powder which he *knows* to be effective, and believes to be agreeable in use. The latter quality being a matter of taste, it is not surprising that the doctor and the pharmacist differ. The formula is, of course, "essentially a prescription," but so are most formulae.

A KIRKCALDY PHARMACIST.

[The tooth-powder does its duty effectively, and is pleasant to use.—ED. C. & D.]

SIR,—As a working and operating dentist, I am compelled to use what I know is effectual, whether it be elegant or not, and the following is my favourite formula:—

Creta præp.	1 oz.
Sapon. Castil.	1 drachm
Acid. carbolicæ	10 drops
Ol. eucalypti	20 "

M.

With this the teeth must be well brushed at least twice a day. The effect is, in my hands, always satisfactory.

Chesterfield. T. ALEXANDER. (190/4.)

Photographie Chemieals.

SIR,—As a lecturer and writer on photography, and as one who in addition spends his holidays in travelling with the camera, may I be permitted to thank "F. E. J." for his advice to all chemists to keep a stock of such articles as the photographer is likely to require. Great as has been the development of this scientific art and amusement within the last three or four years, there is no doubt but that it is destined to attain a still greater popularity. In addition to the chemicals named by "F. E. J.," I should recommend potassium bromide 3*d.* per oz., and sulphite of soda, 2*d.* per oz. When "F. E. J." calls pyrogallie acid "somewhat dirty," I suppose he refers to the fact that it turns brown during development, and stains the negative. But this can be prevented by mixing it with three or four times its weight of sulphite of soda. I have been using the pyrogallie acid prepared by Dr. Henry Byk, of Berlin (English agents, Bernstein & Vogt, 28 Jewry Street) and find it excellent. It is a snowy white product of enormous bulk (1 oz. fills a 16-oz. water-bottle), and it dissolves in either water or alcohol to give a perfectly colourless solution. It would be an immense convenience, also, if chemists would keep in stock the "dry plates," of which millions are now used annually. Last, but not least, each chemist should take up the study of photography, or should encourage one of his assistants to do so, as it is most useful to be able to advise customers.

Birmingham, July 24.

W. J. HARRISON, F.C.S.

Ink Queries.

SIR,—Will you kindly do us the favour to ask so many able and eminent chemists of the day, through your Journal, to throw us light on the following point, which has sadly baffled our best attempts.

The problem for solution is how to make a permanent and stable solution of Prussian blue. We tried to make one in the manner prescribed by Mr. R. Haldane, in "Workshop Receipts," second series, page 329. But this solution is found quite unstable, and as soon as any iron salt, or thing made of iron, comes in contact with it, the precipitation at once sets in, and the ink deposits in writing. We also tried the mode of making of soluble Prussian blue, prescribed by Mr. Napier in his "Manual of Dyeing," but with no better success. We should like to know how to form a permanent strong solution,

capable of being used as ink, suggested by Mr. R. Haldane, in "Workshop Receipts," second series, page 326.

(2) Which kind of gum is best to use in making an ink with a strong copying power, and drying immediately on writing?

You will do us no little favour by getting information on these points.

H. A. C. (182/15.)

Bombay, June 29.

(1) *Chinese blue* affords the best solution. Take 2 oz. of it in powder and 1 oz. of oxalic acid, mix together and make into a thin paste with boiling water; when thoroughly uniform make up to 30 oz., or more, according to strength required, with boiling water. This makes a permanent solution, and, with a little mucilage added, a very good ink.

(2) Sugar is used for copying ink, or equal parts of sugar and gum arabic.]

16/187. *Yorkshire*.—We have always answered such legal inquiries as it is safe to reply to. But we again point out that if we were to engage the Attorney-General to reply to the many questions we receive as to whether such a label is an infringement of someone else's or not, there would be no guarantee that a Court would take the same opinion. Therefore we decline in such cases to do more than state the general principles of the law applying to them.

Veterinary Surgeons and the Pharmacy Act.

187/46. *Equus* asks whether "Eclectic's" objection to poison-sellers applies to veterinary surgeons. "In your editorial footnote about unregistered persons selling sheep-dipping compositions and other arsenical or poisonous preparations, the question is opened as to a veterinary surgeon's position. He is not usually a registered chemist, but it is quite within his province to sell sheep-dipping compositions, or eke out his pittance by the sale of other veterinary preparations. Who can be more suited by his special knowledge of the subject to deal in such matters if he chooses? Again, what is the legal position of a veterinary surgeon who has been brought up to the drug trade, and qualified only as a M.R.C.V.S. Can he keep a chemist's shop, and dispense and sell poisons, if he does not call himself a chemist? Is he not a chemist practically by the rigorous test now exacted by the R.C.V.S. before granting a diploma?"

[By the Pharmacy Act Amendment Act, 1869, it is provided that "nothing in the first fifteen sections" of the Pharmacy Act "shall prevent any person who is a member of the Royal College of Veterinary Surgeons of Great Britain, or holds a certificate in veterinary surgery from the Highland and Agricultural Society of Scotland, from dispensing medicines for animals under his care." That is, a person qualified as above described may supply poisonous sheep dips or other medicines or applications for sheep, but he must label and register such sales as is required by the 17th section of the Pharmacy Act. But a veterinary surgeon, notwithstanding all his knowledge, is not at liberty to call himself a chemist and druggist, nor may he keep open shop for the sale of poisons generally.]

68/186. *A Subscriber*.—You must be a member of the Pharmaceutical Society to be entitled to use the letters M.P.S. Write to the secretary of the Society for information as to the benefits offered by these letters, and as to the cost of acquiring them.

1/189. *Rec.*—You can register a label at Stationers' Hall for 5s. As far as we can judge that is no use for trade purposes. Registration of a trade-mark at the Trade Marks Office costs 25s., and perhaps some extras. How and what to register so as best to secure your property are questions which you might find it advisable to consult an agent about. See advertisement of Horn & Son in this Journal.

188/19. *Eerizotyton*.—**Cannon Oil**.—No doubt you mean Carron oil (*Linimentum calcis*), so called because it originated and is extensively used at the Carron Ironworks, Falkirk, N.B. The original formula is equal parts of linseed oil and lime water; this is claimed to be much more efficacious than the Pharmacopoeial liniment.

Curious Orders.

SIR.—Can any of your readers inform me what is sold as "Deal Salve" in Sunderland and district? also what the interpretation of "Tincture of Bevaxion" is? also the following prescription:—

Salve for Gethering Breasts.

	Oz.
Black demino	3
Dipalino	2
Imelyot	1
Straindgaltanian	1
Camphro' .. .. .	..
Chanamite oil .. .. .	..

Respectfully yours,

S. J. N. T. (180/66.)

188/29. *Eastern Counties*.—**Pepsin Wine**.—The following formula originally appeared in THE CHEMISTS' AND DRUGGISTS' DIARY:—

Pepsin porci	160 gr.
Acid. hydrochlor. dil.	℥160

Dilute the acid to 1 oz. with water, and digest the pepsin in it for an hour, then add—

Glycerine	ʒij.
Water	ʒviij.

Macerate for two days, shaking frequently, then add 10 oz. of sherry, and after standing for a few hours bring up the colour with browning, allow to settle, and decant as much of the clear liquor as possible, and filter the remainder.

185/44. *A. B. C.*—The formula, excluding the laudanum, is one which we suggested on May 29, and is perfectly safe.

187/11. *Yorkshire*.—**Concentrated Waters**.—A general formula for these may give poor results in some cases, but the following formula, suitably modified in such cases, has afforded good preparations:—

Oil, essential	100 minims
Light carbonate of magnesia	2 drachms
Rectified spirit	3 oz.
Water	1 ..

Dissolve the oil in $\frac{1}{2}$ oz. of spirit and as much water, and rub up with the magnesia, then transfer to a bottle with other 2 oz. of spirit, and shake occasionally during three hours; filter, and wash the magnesia with the remainder of the spirit and water, or a sufficiency to make 4 oz.

One part to be added to 39 parts of water when required for use.

Nemesis (183/69) and *Subscriber* (183/44).—**Cod-liver Oil Emulsion**.—Take 1 oz. of the finest tragacanth in powder, and mix it in a mortar with 3 oz. of glycerine, and add, stirring constantly, 17 oz. of boiling water. With this jelly mix 20 oz. of cod-liver oil, previously flavoured (with oil of bitter almonds and vanilla, or cinnamon and chloroform). Add the oil to the jelly 1 oz. at a time, taking care that each portion is thoroughly incorporated before adding another, otherwise the process must be begun *de novo*. The whole operation must be done in a large mortar.

In the cream-like emulsions quillaia and an alkali are the emulsifying agents, but some makers add pancreatine and other substances of that nature. Take 19 oz. of lime water, 1 oz. of tincture of quillaia (1 in 5), and 20 oz. of cod-liver oil, and shake well together in a Winchester. Flavour as above. Hypophosphites, or other soluble medicinal agents, should first be dissolved in the water used. Calcium hypophosphite, 4 grains, and sodium hypophosphite, 2 grains to the oz., are suitable proportions.

183/69. *Nemesis*.—A formula for quinine and iron tonic will be found in last volume, page 640.

2/39. *M. R. C. V. S.*—Try an additional oz. of soft soap "Water to make 5 pints" means sufficient to make the whole measure 5 pints.

186/69. *Subscriber.*—Fuch sine is a hydrochlorate of rosaline, and is commonly known as *magenta*. Arsenic is sometimes used in preparing it, and it may be poisonous from contamination therewith; but the arsenic-free compound has been given in doses generally from 1 to 2 grains and up to 5 grains. Like all aniline dyes it is liable to colour changes, and under certain conditions is decomposed by acids and alkalis; for example, nitric acid and spirit of nitrous ether, owing to the free nitrous acid which they may contain, at once deprive it of colour.

180/66. *S. J. N. T.*—Amber Varnish.—The amber is first to be fused in an iron pot, and then the Venice turpentine or linsced oil should be added to it before it is treated with spirit.

181/72. *Subscriber.*—Starch Gloss.—The kind sent is composed of borax and starch; about 1 lb. of the former to 2 oz. of the latter are good proportions.

187/69. *Compos.*—Transparent Cement is made by soaking 1 oz. of the finest machine-cut Russian isinglass in $\frac{1}{2}$ oz. of water until soft, then adding 1 oz. of glacial acetic acid and 20 grains of mastic in powder, dissolving by the aid of a gentle heat.

183/53. *E. C. Atkins* asks:—"Can any reader inform me why the *Tr. Iodi Decolorata*, (G. Pharm., should on keeping separate into two layers, the upper being a liquid having the appearance of S. V. R., the lower resembling oil of vitriol, and floating on the lower a quantity of small white acicular crystals?"

[An aqueous solution of hyposulphite of soda forms with a certain proportion of alcohol a mixture which separates into two layers on standing. The case referred to by our correspondent is, no doubt, one of the same kind, sufficient alcohol having evaporated through standing to cause the separation. The crystals may be iodide of sodium, but perhaps Mr. Atkins will examine them and state his results. See Mr. Darling's note in last week's issue.]

184/3. *Quercus.*—Tincture of *Euonymin*.—A very unsatisfactory preparation is made from *cuonymin*, which is only partially soluble in rectified spirit. It is preferable to make the tincture from the young bark; 1 of bark to 4 of rectified spirit is recommended by Martindale.

184/31. *Disco.*—The substance sent is impure naphthaline.

182/60. *H. B.*—Thymol Disinfectants.—For a liquid preparation you might take advantage of the readiness with which thymol combines with alkalis to form compounds soluble in water. This method appears to be the most practicable for a solution stronger than 1 in 800, as the use of spirit is out of the question. Combination with carbolic acid will not affect the solution. The basis of a powder should be a mixture of powdered bran and finely-ground sawdust, both of which can now be obtained at a cheap rate. One per cent. of thymol and 5 per cent. of carbolic acid would be sufficient to combine with these, the antiseptics being previously mixed together until liquefaction is complete. The powder may be coloured with a trace of aniline red.

182/32. *Linseed.*—Blacking (Liquid).—Mould on this may be prevented by the addition of half a drachm of salicylic acid to the pint, and the use of unrefined glycerine instead of treacle. We gave forms in our DIARY for 1884.

189/6. *Eroniensis* traces the nomenclature of *Elixir Proprietatis* thus:—Elixir proprietatis, P.L. 1720; elixir aloes, P.L. 1745; tinct. aloes co., P.L. 1788, P.L. 1809, P.L. 1824, and P.L. 1836.

189/20. *Subscriber.*—Food Preservative.—Boracic acid is commonly used. See page 641, June 26.

Fritly.—Carbolised Tooth-wash (Foaming).

	Oz.
Quillaia bark (in coarse powder)	4
Glycerine	3
Rectified spirit	5

Macerate for three days, then add—

Carbolic acid	3i.
Oil of wintergreen	20 drops
" cinnamon	5 "
Cochineal	5 grains
Water	30 oz.

Again digest for three days, shaking frequently, and filter.

186/19. *F. R. S.*—Botanic Essence for Herb Beer.—As far as we can judge, the sample sent is made by the following formula:—

Camomile flowers	1 oz.
Sassafras	$\frac{1}{2}$ "
Quassia	$\frac{1}{2}$ "
Liquorice juice (powdered)	2 "
Boracic acid	1 drachm
Water	q.s.

Infuse the first three in 15 oz. of boiling water for two hours, and strain off as much as possible. Dissolve the other ingredients in 5 oz. of water by the aid of heat, and add to the infusion. After standing over night to precipitate, decant the clear portion, filter the remainder, and add as much spirit as will make one pint.

10/2. *Smoke.*—Herbal Smoking Mixture.—The sample sent appears to consist of coltsfoot and mullein leaves in the proportion of about two to one, with a sprinkling of lavender flowers and a little broken-up rose leaves.

185/7. *Nemo.*—Granular Citrate of Magnesia.

Bicarbonate of soda	17 oz.
Tartaric acid	13 "
Citric acid	2 "
Sulphate of magnesia	$\frac{1}{2}$ "
Sugar	2 lb.

All in fine powder and well mixed. Take half a pound or a pound of the powder at a time, and place it in an enamelled iron dish, a gallon or more in capacity, and heat gradually over a slow Fletcher's furnace, and stir constantly until the powder becomes quite moist and pasty; then pass it through a sieve with sufficiently large meshes, and dry the granules on demy paper in a warm room.

Bind the Journals.—"You cannot too strongly urge the readers of THE CHEMIST AND DRUGGIST," says a subscriber, "to bind these numbers year by year, instead of placing them on one side or destroying them. The easy reference and great help and information that I have obtained from them when bound far more than compensates me for the expense."

Correspondents are requested to follow the instructions given in Memoranda to Correspondents. We particularly request that a separate piece of paper be devoted to each subject.

DISPENSING NOTES.

[The opinion of practical readers is invited on subjects discussed under this heading.]

183/21. *A. M. Robertson.*—**Sugar-coating Pills.**—Requisites: (1) Pills, well made, hard, and free from powder; (2) a confectioner's revolving pan; (3) a syrup made of 1½ lb. of sugar and a pint of distilled water. This is mixed immediately before use with a certain quantity of starch powder, which experience determines; this is kept warm over a hot-water bath. Syrups of different strengths without starch are also used. The operation has three stages. In the first the pills are placed in the pan, which is set in motion, and the pills allowed to rotate in it until warm; some of the starched syrup is then poured upon them until they have the appearance of an equal coating; they are occasionally turned round with the hand and the pan allowed to rotate until the coating is dry; the pills are then removed to sieves and the pan is washed out. The same operation is repeated, using a syrup made of 2 lbs. of sugar and a pint of water. The pills receive several coats of this syrup, until they have a hard, porcelain-like appearance; they are then removed to trays and the pan again washed out. Finally they get a coating of a syrup half the strength of the former one, and are finished off by several minutes' rotation in the clean and warm pan. If the pills or sides of the pan at any time during the operation become rough it is necessary to remove the pills and wash out the pan. The pills are then returned, a little water poured upon them, and the pan revolved. A confectioner will have no difficulty in the matter.

Ung. Metallorum.

In reply to *Moth*, Mr. R. Knowles, Wallington, says the formula may be found in Squire's "Phar. London Hosp.," 2nd edition, page 180. It is made of equal parts of zinc ointment, nitrate of mercury ointment, and subacetate of lead ointment.

W. R. W. (Reading) sends similar information.

Dispensing Troubles.

SIR,—I shall be obliged if any of your readers would kindly say what they would have done when a prescription as under was brought to be dispensed?

Pot. bicarb.	..	..	..	..	..	5vj.
Acid. hydrochlor. dil.	..	..	..	..	..	ʒij.
Aqua ad	..	..	..	..	..	ʒviij.

M.

Allow effervescence to subside. Two tablespoonfuls in a tumbler of water twice a day on an empty stomach.

The writer is an M.D. of high standing, and has recently been knighted. I consulted two medical men in my own town and they both advised me to only put ʒij. of the acid hydroch. dil. into the mixture. The symbol for ʒ appeared to have been altered into ʒ, and this embarrassed me. I pointed this out to the patient and made two mixtures, one containing ʒij. of the acid, and the other ʒij., and asked him to judge for himself which of the two was most like his former mixture, for he had had it dispensed at the establishment recommended by the physician. I also ventured to write to the medical gentleman, but all my anxiety to do my duty was met by a request, the next day, to send him the prescription, which had been left with me. I place before you another case which came before my notice quite recently. A gentleman had placed himself under a medical man at a popular inland health resort. On his return home he wanted the following prescription prepared:—

Pulv. alb.	xij.
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Sig.—One night and morning, when required.

I had to tell him I could not, and asked permission to write to the doctor. I did so, and received the following reply, not from the gentleman himself, but from his chemist:—"Dear Sir,—Dr. J— has handed over your letter. 'Pulv. alb.' is a private formul, and in accordance with my usual custom I enclose the powders *free*. Priced 1s. to patient. Yours truly, J. W. C." Now, Mr. Editor, does it not seem as if medical men in many instances wish their patient to

go only to the chemist they recommend? What with this kind of annoyance and patents sold in the town at 9d. for 13½d., and 1s. 10½d. for 2s. 9d., &c., together with others in the trade charging 6d. for making up a 6-oz. mixture from a Latin prescription, our honourable craft is fast becoming a thing of the past. Believe me, respectfully yours,
Colne, July 26.

WM. WILKINSON.

[Though an alteration may have been made on the first prescription, there seems no doubt that 2 drachms of acid was not intended. Two ounces would neutralise only about ʒivss. of the bicarbonate.]

Cod-liver Oil with Quinine.—This is made from pure quinine and oleic acid, 2 grains of the former being dissolved in 6 grains of oleic acid to form oleatum quiniæ, which is afterwards dissolved in 1 oz. of cod-liver oil. You will find it more advantageous and economical to buy the pure quinine rather than to make it yourself from the sulphate.

64/183. *Cyclist* asks, *re Anti-Neuralgic Ointment*, of July 10, would not Japan wax do just as well as cocoa-butter? The recipe was as follows:—

Chloral	..	..	..	..	..	1
Menthol	..	..	..	..	..	1
Cocoa butter	..	..	..	..	..	4
S. ermaecti	..	..	..	..	..	2

[Japan wax will make a much harder preparation, and this is not desirable. Otherwise it does not affect the activity of the ointment.]

Extract Taraxaci in Pills.

SIR,—I shall be obliged if you will tell me through your valuable paper how the following should be dispensed:—

Ext. nucis vom.	..	..	..	..	gr. iij.
Ext. tarax.	..	..	..	..	gr. xij.
Ext. aloes aq.	..	..	..	..	gr. iij.
Ext. hyoscy.	..	..	..	..	qs.

M. ft. pil. xii. (in arg.).

They split open after being silvered. I tried varnishing them first, but that did not prevent it. I have had three or four prescriptions like the above in lately.

Yours, &c.,

CHOCOLATE. (187/35.)

[The swelling in this case is no doubt due to the taraxacum extract, which is generally in a state of incipient decomposition, and silvered pills made of it frequently split. The best plan is to evaporate the extract to dryness almost, and use a little glycerine of tragacanth, as well as extract of henebane to mass. Do not make the mass too hard, and allow the pills to stand for half an hour before silvering.]

Spirit Varnish to dry transparent.—The following is from *Oils and Varnishes*:—Gum sandarach, 3 lbs.; pale seedlac or shellac, 2 lbs.; spirit, 2 gallons; dissolve, and add of turpentine varnish, 1 quart; agitate well, strain quickly through gauze, and in a month decant the clear portion from the sediment. Turpentine varnish is made by dissolving 3½ lbs. of pale resin in a gallon of turpentine.

Information Wanted.

183/43. *R. H.* writes:—"Where can I obtain a **Corking Apparatus** for wine-bottles, constructed so that you just place it on the bottle and drive the cork through a tube, which nips it on its road into the neck of the bottle. Some years ago I had the loan of one, but it was got in France, and, as far as I remember, it was made of wood.

Formula for **Sea-breeze Perfume**, by *Compos.* 187/69.

186/34. *W. W.*—**Lawn-sand.**—What chemical (and in what proportion) is mixed with sand for killing daisies and plantain in grass lawns? Does it answer well?

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This carefully-prepared Malt Extract is well known on the Continent, and recommended by the highest medical authorities in cases of Debility and Emaciation, in Diseases of Children with Consumptive Symptoms, Chronic Cough, &c.

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This carefully-prepared Meat Solution contains the real, stimulating, and nourishing constituents of the best quality of beef, freed of fat and sinews. Owing to its high degree of digestibility, it is of the greatest value to persons suffering from stomach and nervous complaints, to delicate children, convalescents, &c. It is at the same time exceedingly appetising, and totally devoid of that objectionable nauseous taste so common in most of the Meat Preparations.

It is warmly and solely recommended by Professor Leube. See "Sammlung Clinischer Vorträge" of R. Volkmann, in Dr. Wiel's "Tisch für Magenkrankte," and in Professor Reclam's "Gesundheit" (Zeitschrift für Hygiene), No. 14, vii., 1882, under the title "Newest Nourishments." Professor Reclam also has had great success with it in cases of debility of persons of all ages. This Preparation has been for some time, and is still, in use at the German Hospital, Dalston.

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USES.—INTERNALLY: In Dyspepsia and Gastralgia. Geo. Herschel, M.D. Lond., writes in the *British Medical Journal*, April 3rd, 1886:—"I find it chiefly valuable in (1) the Chronic Stomach Catarrhs of Children, (2) Acid Dyspepsia, and (3) Severe Gastric Pain coming on shortly after eating."

EXTERNALLY: It has been used by *Bouchut* in *cutaneous carcinoma*, *Rosbach* for dissolving the false membranes of *Diphtheria* (see *Zeitsch. für Klin. Med.*, vi. H. 6), by *Jacoby* of New York for the same purpose, and recently Prof. Finkler himself has restored patency to an œsophagus occluded by *carcinoma* by the continuous administration of a solution.

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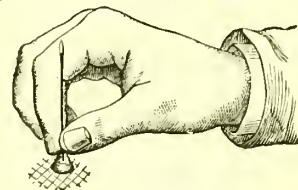
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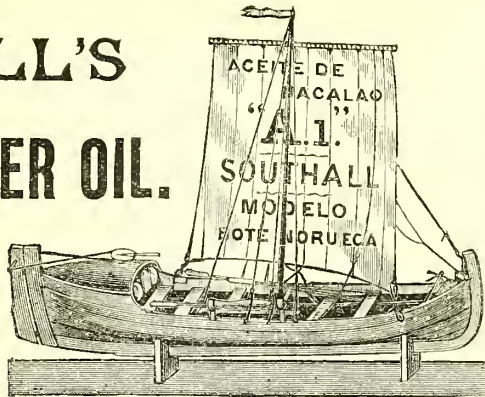
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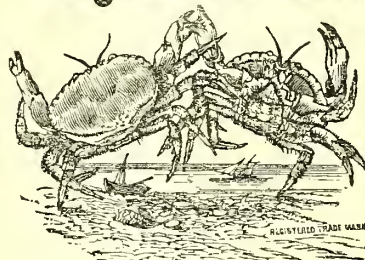
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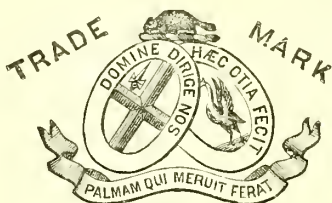
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" Dilute (Hall's Dinner).....	5 gr.	5 0	16 0	*Ipecac. Powdered.....	1-4 gr.	5 0	16 0
" Socotrine, B.P.	5 gr.	5 0	16 0	" " Carbonate, B.P.	5 gr.	5 0	16 0
" and Asafetida, B.P.	5 gr.	5 0	16 0	" " Comp. (Ipecac and Opium).....	5 gr.	9 0	32 0
" and Iron, B.P.	5 gr.	5 0	16 0	" " and Squill B.P.	5 gr.	5 0	16 0
" and Myrrh, B.P.	3 gr.	5 6	18 0	*Iron, Arseniate.....	1-8 gr.	5 6	18 0
".....	5 gr.	6 0	20 0	" " Carbonate, B.P.	5 gr.	5 6	18 0
" Nux Vomica.....	6 0	20 0	20 0	" " by Hydrogen (Quevenne's).....	1 gr.	5 0	16 0
*Aloin.....	1-10 gr.	5 0	16 0	* " Iodide (Blancard's Formula).....	1 gr.	7 0	24 0
".....	1-4 gr.	6 0	20 0	" " and Quinine Citrate.....	2 gr.	10 0	35 6
".....	1-2 gr.	7 0	24 0	* " Quinine, and Strychnine.....	10 0	13 6	49 6
".....	1 gr.	11 0	39 6	Laxative Vegetable (Improved Cath.).....	5 6	5 6	18 0
" Compound.....	7 0	7 0	24 0	*Manganese, Bin-oxide.....	2 gr.	9 0	32 0
" and Strychnine.....	7 0	7 0	24 0	Mercury, Bin-Iodide.....	1-16 gr.	5 0	16 0
* " Strychnine and Belladonna.....	7 0	24 0	24 0	* " Proto-Iodide.....	1-8 gr.	5 0	16 0
Anti-Cholera.....	2 gr.	7 0	24 0	".....	1-4 gr.	5 0	16 0
*Anti-Dyspepsia (Fothergill's).....	7 0	7 0	24 0	Morphine, Muriate.....	1-8 gr.	7 0	24 0
*Aphrodisiac.....	16 0	59 6		".....	1-4 gr.	9 0	32 0
Arsenious Acid.....	1-50 gr.	5 0	16 0	*Narcotic Extracts (Erowu-Sequard).....	15 0	55 6	
".....	1-20 gr.	5 0	16 0	Nitro-Glycerin.....	1-100 gr.	7 0	24 0
*Asafetida, U.S.	5 gr.	5 0	16 0	".....	1-50 gr.	7 0	24 0
" Compound, B.P.	5 gr.	5 0	16 0	Opium, Powdered.....	1 gr.	7 0	24 0
*Atropine.....	1-300 gr.	7 0	24 0	" and Acetate of Lead, B.P.	5 gr.	7 0	24 0
".....	1-100 gr.	7 0	24 0	* " and Camphor.....	7 0	24 0	24 0
Blue Mass, B.P.	1 gr.	5 0	16 0	Pepsin, Pure Concentrated.....	1 gr.	9 0	32 0
".....	2 gr.	5 0	16 0	Phosphorus.....	1-100 gr.	6 0	20 0
".....	3 gr.	5 0	16 0	".....	1-50 gr.	6 0	20 0
".....	5 gr.	5 6	18 0	".....	1-30 gr.	6 0	20 0
" Colocynth and Hyoscy.....	9 0	32 0	32 0	" and Iron.....	8 0	28 0	28 0
Calcium Sulphide.....	1-10 gr.	6 0	20 0	" and Quinine.....	17 0	63 6	63 6
".....	1-4 gr.	6 0	20 0	" and Nux Vomica.....	7 0	24 0	24 0
".....	1-2 gr.	6 0	20 0	" Nux Vomica and Iron.....	8 0	28 0	28 0
".....	1 gr.	6 0	20 0	" and Quinine.....	17 0	63 6	63 6
*Calomel, Colocynth, and Hyoscyamus.....	9 0	32 0	32 0	" Quinine, Iron, and Strychnine.....	17 0	63 6	63 6
".....	5 gr.	5 6	18 0	" and Valer. Zinc.....	11 0	39 6	39 6
" and Opium.....	7 6	26 0	26 0	Picrotoxin.....	1-80 gr.	7 0	24 0
*Camphor and Hyoscyamus.....	5 6	18 0	18 0	*Podophyllin.....	1-3 gr.	5 0	16 0
" Mono-Bromated.....	2 gr.	11 0	39 6	".....	1-4 gr.	5 0	16 0
*Cannabis Indica Extract.....	1-4 gr.	7 0	24 0	".....	1-2 gr.	5 6	18 0
".....	1-2 gr.	9 0	32 0	" Comp.....	8 0	28 0	28 0
*Cascara Sagrada Extract.....	3 gr.	7 0	24 0	Quinine, Bi-Sulphate.....	1-4 gr.	5 0	16 0
Cathartic Compound U.S.P.	5 6	18 0	18 0	".....	1-2 gr.	5 6	18 0
*Codeine.....	1-2 gr.	20 6	79 0	".....	1 gr.	6 0	20 0
Colocynth Comp. B.P.	4 gr.	8 0	28 0	".....	2 gr.	9 0	32 0
".....	5 gr.	9 0	32 0	".....	3 gr.	12 6	45 6
" and Blue Mass.....	5 gr.	9 0	32 0	".....	4 gr.	16 6	61 6
" and Calomel.....	5 gr.	9 0	32 0	".....	5 gr.	20 6	75 0
" and Hyoscy. B.P.	5 gr.	9 0	32 0	Sulphate.....	1-4 gr.	5 6	18 0
" Extract, B.P.	5 gr.	9 0	32 0	".....	1-2 gr.	6 0	20 0
Conium Compound, B.P.	5 gr.	5 0	16 0	".....	1 gr.	6 6	22 0
*Copaiba Compound.....	5 6	18 0	18 0	".....	2 gr.	10 0	36 0
" and Oleo-Resin Cubeb.....	5 gr.	11 0	39 6	".....	3 gr.	14 6	51 6
*Corrosive Sublimate.....	1-30 gr.	5 0	16 0	".....	4 gr.	18 6	67 6
".....	1-20 gr.	5 0	16 0	".....	5 gr.	22 0	83 0
".....	1-10 gr.	5 0	16 0	" Comp. (Anti-malarial).....	15 0	55 6	55 6
Croton Chloral.....	1 gr.	10 0	36 0	Rhubarb Comp., B.P.	5 gr.	7 0	24 0
".....	2 gr.	17 0	63 6	" and Blue Mass.....	5 gr.	7 0	24 0
*Cubeb, Oleo-Resin, with Soda.....	7 0	24 0	24 0	*Rhubarb, Ipecac, and Soda.....	7 0	24 0	24 0
Digitalin.....	1-60 gr.	7 0	24 0	Salicylic Acid.....	2 gr.	7 0	24 0
*Elaterin.....	1-20 gr.	13 0	47 0	".....	5 gr.	11 0	39 6
Emmenagogue (Mutter's).....	5 6	18 0	18 0	" Comp.....	16 6	63 0	63 0
Ergotin.....	3 gr.	16 6	63 0	Soap Comp., B.P.	5 gr.	8 0	29 0
Euonymin.....	2 gr.	16 0	59 0	Squill Comp., B.P.	5 gr.	5 6	18 0
".....	3 gr.	20 6	79 0	Strychnine.....	1-50 gr.	5 0	16 0
" Compound.....	16 0	59 0	59 0	Zinc, Phosphide.....	1-4 gr.	7 0	24 0
Ferruginous (Bland's).....	3 gr.	6 0	20 0	" Valerianate.....	1-2 gr.	9 0	32 0
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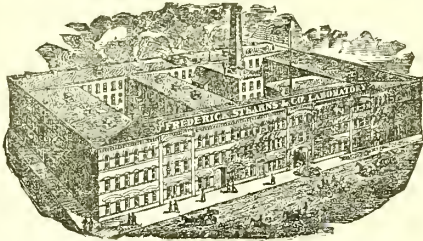
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"This combination of Messrs. HEWLETT is one which has been extensively tested, and with good results. It is justly popular in the profession as a very valuable and effective combination. It serves not only to improve aepsia, but to lessen the gastric pain and to facilitate difficult and painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—January 15th, 1881.

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THE STANDARD PARAFFINUM MOLLE, B.P. 1885,
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May now be had from all Wholesale Druggists in 1-lb., 5-lb., & 14-lb. tins, & in Kegs of 28 lbs., 56 lbs., & 112 lbs.

AT GREATLY REDUCED PRICES.

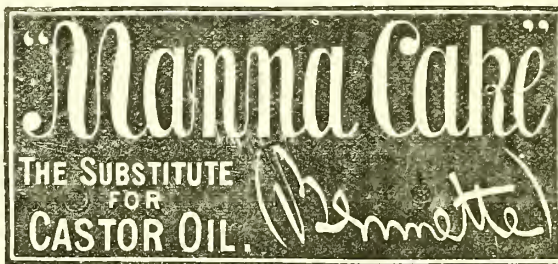
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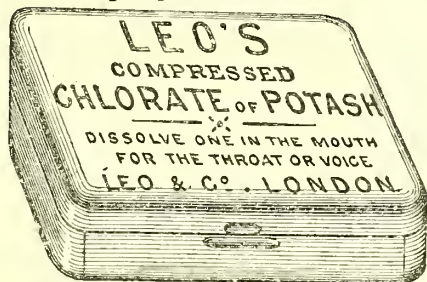
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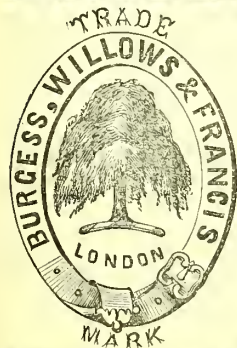
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Without an equal or another of the same kind. A Treatment that can be used at home,

And which has been tried by thousands and never failed. This system cures Consumption, Asthma, Bronchitis, Catarrh, Dyspepsia, Oozema, Debility, Headache, and all Chronic and Nervous Disorders, by a Natural Process of revitalisation. As a restorer of vital forces this system stands without a rival. For overworked business and professional men it is invaluable. Testimonials to its efficacy have flown in unceasingly during the past few years, many from well-known public men, among whom we may mention the following:—WM. D. KELLY, Esq., Member of Congress from Philadelphia; T. S. ARTHUR, Esq., Editor of *Arthur's Home Magazine*; V. L. CONRAD, Esq., Editor of *Lutheran Observer*; JUDGE FLANDERS, of New York; CH. W. CUSHING, D.D., and many others.

To those who wish to inform themselves in regard to this new Treatment, an Illustrated Treatise, containing 200 pages, giving a history of the discovery and mode of action of this remarkable curative agent, and a large record of surprising cures in Consumption, Catarrh, Neuralgia, Bronchitis, Asthma, &c., and a wide range of chronic diseases, will be sent post free. ADDRESS—

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Peruvian Mixture Capsules.....	10/ & 7/6	3/ & 2/
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Copaiba Capsules, No. 0.....	5/9	1/6
" " " " No. 1.....	5/6	1/3
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Copaiba, Alum and Cubebs.....	5/9	1/6
Compound Ferruginous.....	5/9	1/6
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STEDMAN'S TEETHING POWDERS



the advisability of having his Powders tested by DR. HASSALL, the result of whose analysis is certified below, hence vendors need be under no apprehension of the pain, trouble, and censure connected with most inquests, the occasional result of fatal doses of Patent Medicines.

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THE ANALYTICAL INSTITUTION,

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REPORT ON THE TEETHING POWDER PREPARED BY MR. JAS. STEDMAN, HOXTON.

I hereby certify that I have purchased a sample of STEDMAN'S Teething Powder, and have, at the request of the Proprietor, subjected it to Analysis for Morphia or Opium in any form.

I am enabled to state that I found the sample in question to be absolutely free from Morphia, or any other Alkaloid or constituent of Opium.

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Thus Vendors need not be under any apprehension of interference either by Police or Coroner, as the FREEDOM FROM NARCOTIC removes Stedman's Teething Powders from the "Scheduled Poisons" List, and prevents the possibility of inquests on account of the administration of these Powders.

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Full size, and prepared with Howard's Materials.

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Dr. J. COLLIS BROWNE'S CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

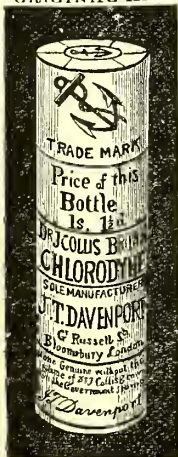
The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—



ONLY GENUINE.

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Banks & Richards, Birmingham	Goulding, Messrs. Cork	Parsons & Richardson, Leicester
Barron, Harvey & Co., London	Grattan & Co., Belfast	Peake, Allen & Co., Dublin
Bell, John, & Co., London	Grimwade, Ridley, London	Raines & Co., Liverpool
Bourne & Taylor, "	Grindley & Son, Chester	Raines & Co., York
Corbyn & Co., "	Hearon, Squire & Francis, London	Raines, Blanshards & Co., Edinburgh
Cox & Gould, "	Hodgkinson, Tonge & Stead, "	Sang & Barker, "
Curling & Co., "	Hopkins & Williams, "	Sanger, J., & Sons, London
Curtis & Co., "	Hovenden, R., & Sons, "	Sim, James, & Co., Aberdeen
Davy, M'Murdo & Co., "	Hunt & Co., Exeter	Smeeton, W., Leeds
Dobbin, W., & Co., Belfast	Hunt, A., & Co., "	Southall & Co., Birmingham
Drew, Barron & Co., London	Johnson, J. H. & S., Liverpool	Sutton, W., & Co., London
Drew, B., & Alexander, "	Langton, W., & Co., London	Tomlinson, Hayward & Co., Lincoln
Dunn & Company, "	Lynch & Co., "	Treacher, Hodgkinson & Co., "
Edwards, W., "	Mander, Weaver, Wolverhampton	Westrup, J. B., Kensington
Evans, Gadd & Co., Exeter	Marsden & Sons, London	Westwood & Hopkins, Lincoln
Evans, Lescher & Webb, London	Maw & Son, "	Woolley, James, Manchester
Ferris & Co., Bristol	Meggeson & Co., "	Wyleys & Brown, Coventry
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After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

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	<p>And in attractive 6d. and 1/ boxes.</p>		<p>We fill any combination in Oil, Paste, or Powder.</p>
	<p>ALWAYS ASK FOR "HOOPER'S."</p>		<p>WRITE FOR DETAILED PRICE LIST.</p>

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"THILUM," for Rheumatism, Neuralgia, Wounds, Bronchitis, Chilblains (Broken or Unbroken).
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"JVARA-HARI," for Fevers, particularly Malarious kinds, and as a Tonic.
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ILLUSTRATED PRICE LIST ON APPLICATION.

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Sells well everywhere, its beneficent qualities being attested to by physicians in all parts of the world. (See Testimonials.)

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FREEMAN'S CHLORODYNE



THE ORIGINAL AND ONLY TRUE.

It is the Greatest Medical Discovery of the present Century, and is regarded as a boon to mankind.

It is the best known remedy for Coughs, Colds, Consumption, Whooping Cough, Bronchitis, and Asthma.

It effectually checks and arrests those too often fatal Diseases—Diphtheria, Diabetes, Fever, Croup, Ague, &c.

It acts like a charm in Diarrhoea, and is the only known Specific in Cholera and Dysentery.

It effectually cuts short all attacks of Epilepsy, Hysteria, Palpitation, Convulsions, and Spasms.

It is the only Palliative in Rheumatism, Gout, Cancer, Toothache, Neuralgia, Sciatica, Lumbago, &c.

It rapidly relieves pain from whatever cause, allays the irritation of Fever, soothes and strengthens the system under exhaustive diseases, restores the deranged functions, stimulates healthy action of the secretions of the body, gives quiet and refreshing sleep, and marvellously prolongs life. It may be taken by old and young at all hours and times, according to the Directions.

It is extensively used by Medical Men in their official and private practice, at home and abroad, who have given numerous written testimonials of its wonderful efficacy.

SPECIMEN TESTIMONIALS.

From JOHN TANNER, M.D., L.R.C.P., M.R.C.S., L.S.A., L.M., Physician to Farrington Dispensary, London; Physician to the Rev. C. H. Spurgeon's Metropolitan College, &c.

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'It gives me great pleasure to bear testimony in favour of FREEMAN'S Chlorodyne. I have prescribed it extensively, and in cases of Asthma, Chronic Bronchitis, the last stage of Phthisis, and the Winter Cough of the aged, I have never found any substitute or chemical combination its equal.'

From J. DODD SWALLOW, M.D., M.R.C.S., Eng.; L.A.S.; Medical Officer to the London City Mission, &c. &c.

213 CLAPHAM ROAD, LONDON, S.W.

'I have great pleasure in stating that I am constantly prescribing FREEMAN'S Chlorodyne. In Consumption and Asthma, as a Sedative; in Cancer, and in cases of Diarrhoea and Dysentery, I am daily witnessing its striking effects, and believe that the thanks of the profession are due to Mr. FREEMAN for his efforts to bring prominently before the profession so valuable and reliable a remedy as the Chlorodyne which bears his name.'

EXTRACTS from the GENERAL BOARD OF HEALTH, LONDON, as to its efficacy in Cholera.

1st Stage, or Premonitory.—In this stage the remedy acts as a charm, one dose generally sufficient.

2nd Stage, or that of Vomiting or Purging.—In this stage the remedy

possesses great power, more than any other we are acquainted with, two or three doses being sufficient.

3rd Stage, or Collapse.—In all cases restoring the pulse. So strongly are we convinced of the immense value of this remedy, that we cannot too forcibly urge the necessity of adopting it in all cases.

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Purchasers are cautioned not to have palmed upon them any substitute. See that the Trade Mark, "The Elephant," is on the wrapper, &c., and that the words Freeman's Original Chlorodyne are engraved on the Government Stamp, which is the only true Chlorodyne.

N.B.—Lord Chancellor Selborne, Lord Justice James, and Lord Justice Mellish decided in favour of Freeman's Original Chlorodyne, and against Brown and Davenport, compelling them to pay all costs in the suits. See Times of July 21, 1873.

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SAVE 50 PER CENT. ON VASELINE.

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IS THE BEST FORM OF Paraffinum Mollè (B.P. 1885) MANUFACTURED IN ENGLAND.

A perfectly pure, inodorous, and stable Hydrocarbon Jelly; highly recommended by the profession as a basis for all ointments and pomade, as it never turns rancid.

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The dilute citrine ointment made with Geoline keeps absolutely pure, is of a very firm consistency, pleasant in its use, having a nice jelly-like appearance."

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In elegant Nickel-capped Bottles, 2 sizes; Square Tins (Self-opening), containing 5, 10, and 25 lbs.; and in Drums and Casks.

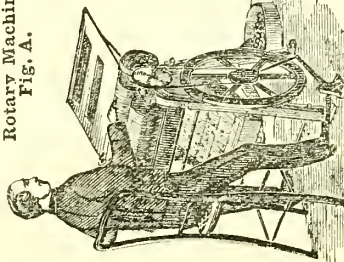
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As used to this date by Messrs. Holloway, Cockle, Cox, and all the principal Pill Makers in Europe, Asia, Africa, America, and Australia.



Rotary Machine, Fig. A.—This invention consists in a novel and improved arrangement of Machinery, whereby any description of Pill Mass can be converted into Pills, at the rate of from 15 lbs. to 40 lbs. per hour, according to the size of the Machine used.

ROTARY PILL MACHINES.

Fig. A.—No. 1...£12 12s.
 " 2...£15 15s.
 " 3...£20 0s.

Fig. B.

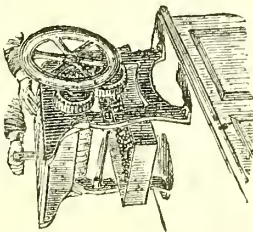


Fig. B.—A small useful Machine, capable of making 10 lbs. of Pills per hour, particularly adapted for persons making small quantities, at £7 15s.

Press suitable for same, £2 15s.

Any of the above can be made to cut two or three different size Pills, at an additional cost for extra Rollers and Plates.

PIPING PRESS, FIG. C.

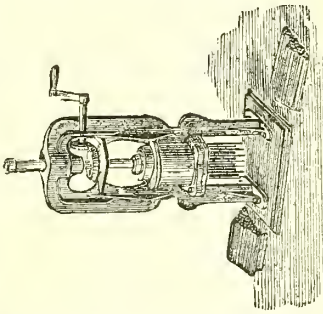
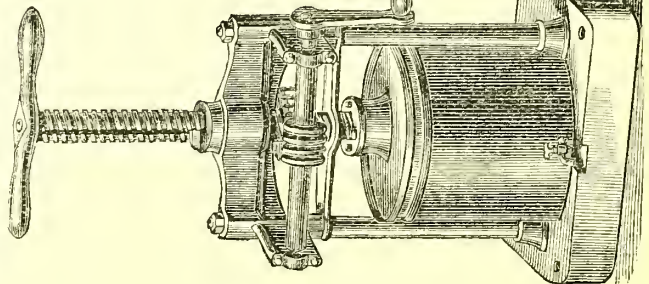


Fig. C. is the improved Press for Piping, by means of which a great quantity of Mass can be Piped in a few minutes truer than by the old method of rolling.

PIPING PRESSES.

No. 1. ... £3 0s.
 Fig. C.—No. 2... £5 10s.
 " 3... £8 0s.



J. W. PINDAR'S

Improved Double-Action

TINGTURE PRESSES

(As approved of by Wholesale Chemists).

SUPERIOR TO HYDRAULIC,

On account of holding the pressure.

Prices for One Gallon,

£3 10 / 5

For each additional Gallon,

£1 10 / extra.

Directions for Use forwarded with each Article.

"EGCENTRIC" PILL COATER.

NEW PATENT

PRICES.

- No. 1. For 2 lbs., £2/5; sifter for same, 7/6.
- No. 2. For 5 lbs., £3/15; sifter for same, 15/.
- No. 3. For 10 lbs., £5/15; sifter for same, £1/5/.
- No. 4. For 20 lbs. on Iron Standards, for Steam, Gas, or other power, £15/15/; sifter for same, £2/5.

The smallest Machines can be worked by Steam Power at a small additional cost.

Mr. J. W. PINDAR.

224 Strand, 13th March, 1866.
 Sir,—I have much pleasure in stating that the Pill Machine which you made for me answers remarkably well, as the Pills are far better made than those by hand-machines, and with much less waste. I can, therefore, confidently recommend it as a very excellent one, a great saving of labour, and consequently expense.—I remain, yours faithfully,
 THOMAS HOLLOWAY.

338 Oxford Street, opposite Great Portland Street, Feb. 11th, 1871.

Mr. J. W. PINDAR. The Rotary Pill Machine and Press which we had from you (for a special order) answered very satisfactorily.—We are, sir, yours respectfully,
 JOHN BELL & CO.

3 Crane Court, Fleet Street, Feb. 14th, 1871.

To Mr. J. W. PINDAR.
 Dear Sir,—We have now used your Rotary Pill Machine about six years, and find it answers better than any we had previously used, and makes the Pills of a very regular size.—Yours truly,
 T. WHELPLETON.

29 Murray Street, New York, and Farringdon Road, London, Nov. 9th, 1880.

Mr. J. W. PINDAR.
 Dear Sir,—Your letter of inquiry came duly to hand. As I always told you, the Pill Machine in operation at my London warehouse has given entire satisfaction. So have those we are using in this country. We can make smooth, round Pills of uniform size at a very small expense. I can safely say that your Pill Machine is all that you claim it to be—a perfect Machine.—Yours truly,
 A. J. WHITE.

Testimonials from all parts of the world may be seen on application to

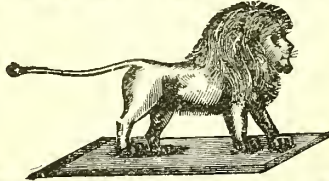
J. W. PINDAR,

75 New Church Road, Camberwell, LONDON.

AMPUTATION AVOIDED. THE KNIFE SUPERSEDED.

TRADE MARK.

REGISTERED OVER ALL THE
GLOBE.



TRADE MARK.

REGISTERED OVER ALL THE
GLOBE.

E. BURGESS'

LION OINTMENT & PILLS

Cure the worst and most obstinate cases of Ulcers, Abscesses, Cancers, Tumours, Polypi, Carbuncles, Piles, Poisoned Wounds of all kinds (including Dog and Venomous Bites), and every form of Eruption and Skin Disease; also Ulcerated and Cancerous Affections peculiar to Females, without the aid of Lancet or Knife. Numbers have been cured after leaving various London Hospitals as incurable, or curable only by amputation.

The following are specimens of Testimonials received. A list of over sixty, each bearing full name and address, is wrapped round each box.

ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883.

DEAR SIR.—I beg to inform you I have not a spot about me, and I believe you are an instrument in the Almighty's hands to do a world of good for your fellow-creatures. Anyone to have seen me this time twelve months, and see me now, would say it was the greatest miracle ever made in skin disease. I have had spots on me for about forty years, have taken medicine of every description, baths, &c., &c., until November, 1882, and nothing ever could touch it. I was then recommended to use the Lion Ointment and Pills as a certain cure, and I found them the masterpiece of the world. I have consulted great men, and they could not touch it. People must not be a trifle of using the Lion Ointment; it more it pinches them the more it is drawing the disease out—only persevere, and the Lion Ointment and Pills will do their work. Now, God bless you in your undertaking.—From yours faithfully,
MR. BURGESS. SILVESTER STONEHOUSE STUART.

ALMA ROAD, next door to EAST HILL HOTEL, WANDSWORTH, late 2 BOLTON ROAD, GROVE PARK, CHISWICK, MIDDLESEX: February 7, 1883.

DEAR SIR.—I am happy to forward to you the following testimonial of the great value of your Lion Ointment and Pills. Through the ill-treatment of my husband I have been suffering with poisoned blood, and, in consequence, a large abscess formed in my neck, also syphilis affecting my leg. I have, too, been suffering many years from a diseased hip. I consulted several physicians, who said that I should not recover unless I had the bone taken out. Last May, 1882, I was advised to use your Lion Ointment and Pills; by so doing I can scarcely describe the benefit I received in a very short time, and I am happy to tell you that they saved my life, and I am now perfectly cured. Hoping through my case your wonderful Ointment and Pills may get well known for the benefit of my poor fellow-creatures. You are at liberty to refer anyone to me at any time should you wish.
I am, Sir, yours respectfully, ELIZABETH STILLWELL.
To MR. E. BURGESS.

PROSPECT HOUSE, AMERSHAM COMMON: June 25, 1881.

SIR.—Please send me by return one box of your Pills. The box of Lion Ointment I sent for is for Erysipelas in the face; do you think it suitable? [Most effectual.] Also send me another box of the Lion Ointment, I have enclosed stamps for the same. I have had Ointment from you before through a friend of mine. I had been suffering from a small tumour in the head for some years, and had the advice of medical men, and all said I must have it taken out; but, on applying your Ointment, in a fortnight it drew it out and made a complete cure of it.—Yours respectfully,
To MR. E. BURGESS. MRS. E. HILL.

ELM LODGE, WIMBLETON PARK, late 26 BALLANTINE STREET, YORK ROAD, WANDSWORTH: January 17, 1881.

DEAR SIR.—Having attended St. Thomas's Hospital for nine months, suffering greatly with a tumour, extending from the back of the ear to the collar bone, affecting the shoulder, and receiving not the least benefit, I was earnestly persuaded to give your Lion Ointment a trial. By so doing I can scarcely describe the benefit I received in a very short time. I am truly thankful to state I am quite well and am able to resume my duties without trouble or inconvenience. I was also attended by several doctors during the five years I have been suffering from the tumour, not having received the slightest benefit. Dear Sir, you are at liberty to publish this, or send anyone to my residence for satisfaction.—I am, Sir, yours most respectfully,
To MR. BURGESS. MRS. H. GRIFFIN.

[The above was a most serious case. Photographs of the same, uncured and cured, and the Fungus and Diseased Bone drawn away by the Ointment, can be seen on application at 117 High Holborn, W.C.]

7 SHAFTESBURY PLACE, ALDERSGATE STREET, E.C.: May 20, 1882.
SIR.—It gives me great pleasure to add to your numerous testimonials. For four years I suffered with a very bad leg, and attended St. Bartholomew's, the University, and Dalston Hospitals, and various Dispensaries, where they told me it was a cancerous ulcer, incurable, that I must lose my leg. However, being recommended to use your Lion Ointment, I did so, and in three months the cancer was drawn away, and my leg made quite well.—I remain, yours &c.,
To MR. E. BURGESS. LUCY IBBS.

VERULAM, PORT NATAL, SOUTH AFRICA: March 1, 1881.
DEAR SIR.—I feel it my duty to thank you for the wonderful way in which your Lion Ointment has cured my kind of skin disease, which I had endured for over nine years. When I was residing at St. John's Hill, Wandsworth, I purchased a box of your Ointment, and by the end of the fourth week it had perfectly cured my hand, and I have seen nothing of it since. Previously to applying your Ointment, I had been to my own doctor at Wandsworth with it, and also to several Skin Disease Hospitals in London, but to no avail. They said it could not be cured, and must, therefore, be endured; but, as I said before, your Ointment has cured it. When I came out here (twelve months ago), I brought some with me, and am glad I did, for I have found it very useful. I gave some to a gentleman who had his legs covered with Natal sores, and could not walk for them, and it has perfectly cured them. I have been obliged to send home to my friends to send me out some, which I expect shortly to arrive, for, as I said before, it is very useful; in fact, cures everything in which I have tried it. If only you had an agent here, I would recommend it to everybody.—I am, dear Sir, yours, &c.,
MR. BURGESS. SUSAN S. SMITH.

Various Cancers, Tumours, Diseased Bones, &c., extracted by the LION OINTMENT AND PILLS; also Photographs of Cases Cured are on view at 117 High Holborn. A guarantee of their virtue.

A good sale for this remedy always follows its introduction by proof of its efficacy. Foreign Houses will do well to order samples through their English agents, also supplies of Bills, PHOTOGRAPHS OF CASES CURED, &c., which ALWAYS ensure a connection. The Ointment is put up in air-tight, grease-proof boxes, and will keep good any length of time in any climate. The Pills are in stout wooden boxes, and also retain their virtue for years. Prices, 1s. 1½d., 2s. 9d., 4s. 6d., 11s., and 22s. each.

USUAL WHOLESALE TERMS.

E. BURGESS,

117 HIGH HOLBORN, and KINGSGATE ST., LONDON, W.C.
Late WANDSWORTH, S.W.

COD LIVER OIL.

ABSOLUTELY PURE.

THE "ICEBERG" BRAND is manufactured by Messrs. J. JENSEN & Co. (Limited), at Brettesnoes, Loffoten Islands, and is made *ONLY* from *PERFECTLY FRESH COD LIVERS*. It possesses the highest nutritive properties, is perfectly sweet and pleasant to the palate, and light and easy of digestion. Entirely free from any disagreeable taste or nauseous eructations. *CHILDREN TAKE IT AND ENJOY IT.*

JENSEN'S

Ice Refined

COD LIVER OIL.



JENSEN'S

Ice Refined

COD LIVER OIL.

PRICES IN CASKS, TINS, OR WINCHESTERS ON APPLICATION.

In Bottles:—Imp. $\frac{1}{2}$ -Pints, 18/ per doz.; Imp. Pints, 31/6 per doz.

Professor Sir CHAS. A CAMERON, President of the Royal College of Surgeons, Ireland, &c., &c.

"I consider the Colourless Cod Liver Oil, prepared by Messrs. J. Jensen & Co., to be a very fine article, quite free from the rancid odour and nauseous flavour so often met with in Cod Liver Oil, especially those dark in hue."

SOLE AGENTS:

HERTZ & COLLINGWOOD,

Telephone
No. 573.

101 Leadenhall Street, LONDON.

For Telegrams
"Freshness."

In the High Court of Justice, London, June 4th, 1886.
Before Mr. Justice North.

THE HOP BITTERS Co. v. H. PRATT, CHEMIST, YORK.

THE HOP BITTERS Co. v. W. PLATT, CHEMIST, MATLOCK BATH.

In these Actions the Plaintiffs, who carry on business at 41 Farringdon Road, London, and known as the Hop Bitters Co., sought to restrain the Defendants from infringing their trade-mark of "Hop Bitters." Mr. Aston, Q.C., and Mr. Theodore Dodd (instructed by Messrs. Seeley & Son) appeared for the Plaintiffs. The former, in opening the case, said this application was made on behalf of the Hop Bitters Co. in respect to their well-known Hop Bitters, and he now moved for an Injunction "to restrain the Defendants" from infringing the Plaintiffs' trade-mark and vending imitations until the trial of these Actions. Mr. Bardswell, on behalf of the Defendants, elected that the motions be treated as the trial of the Actions.

The Judge immediately granted the Hop Bitters Co. a perpetual Injunction against both Defendants, and that they be condemned to pay the whole of the costs.

CAUTION.—*We direct attention to the Actions reported above, and have fully determined to ferret out all infringements of our rights and (without further notice) treat them in a like manner.*

If any person vending an imitation of "Hop Bitters" is in doubt as to whether he is infringing the trade-mark and rights of the Hop Bitters Co., he has only to ask himself whether he ever put up and sold any form of so-called Hop Bitters of his own manufacture till we had created a demand and popularised Hop Bitters at an enormous expenditure of money.

We know what the answer must be to this question. We shall protect our rights to the fullest extent, and prosecute every person, be they whom they may, who attempts to trade on the reputation and popularity of Hop Bitters, by putting up imitations of any description whatever.

HOP BITTERS CO.

ROCHESTER, N.Y., U.S.A.
LONDON, ENGLAND.
TORONTO, CANADA.

ANTWERP, BELGIUM.
PARIS, FRANCE.
MELBOURNE, AUSTRALIA.

DR. G. H. JONES, F.R.S.L., &c.,

SURGEON-DENTIST,

57 GREAT RUSSELL STREET, LONDON
(Facing British Museum entrance),

Will forward his New 64-page Pamphlet, entitled "PAINLESS AND PERFECT DENTISTRY," which contains a List of the Diplomas, Gold and Silver Medals, and other Awards obtained at the Great International Exhibitions, to any part of the world, gratis and post free. *Agents Wanted.*

POWELL & BARSTOW,

5 Albion Place, Blackfriars Bridge, London, S.E.,

Late W. HURLSTONE & CO., Blackfriars Road and Vine Street, S.E.,
MANUFACTURERS TO THE WHOLESALE TRADE OF

ELASTIC GUM SURGICAL INSTRUMENTS.

WORKS, LAMBETH. ESTABLISHED 1830.

Medical and Sanitary
Exhibition, 1881.

DIABETES

AWARD OF MERIT.

VAN ABBOTT'S GLUTEN BREAD,

And all other suitable Foods for Diabetic Patients.

Dietary Tables and Price Lists post free on application.

G. VAN ABBOTT & SON, 5 Princes St., CAVENDISH SQ., W.

PERFUMES, No. 30.

FIFTY KINDS.

9s. for 20 ozs., Carriage Paid.

Samples of any kind for 2 stamps.

When buying, compare my Perfumes with other makers', and buy the best.

GEORGE DURRANT, HERTFORD.

London Depot—Messrs. BAISS BROS. & CO.'

BELGRAVIA TOOTH-PASTE

(REGISTERED).

IN LARGE JARS, 1s. and 2s. 6d. EACH.

PREPARED ONLY BY

JOHN BEDDARD,

46 Churton St., Belgrave Road, London, S.W.

S. SAINSBURY'S

Prepared from the finest

ENGLISH LAVENDER,

without any foreign whatever.

Lavender

176 & 177 STRAND, LONDON.

Wholesale and Shipping terms on application.

Water.

THE PERFECT SURGICAL BANDAGE.

Preferred to all Makes hitherto used.

In Cases of Twelve Six-yard Rolls, 2 inches wide, 3s. 9d.; 2½ inches, 4s. 6d.;
3 inches, 5s. 6d.; or, Case containing twelve Six-yard Rolls
of each width, 13s.

Free by post, to any address in the United Kingdom, for prepaid orders only.

MANUFACTURED BY THE

Bole Hall Mill Company, Tamworth, Staffordshire.



ASSAY FURNACES, &c. THE MORGAN CRUCIBLE CO.,

Sole Manufacturers of
MORGAN'S and SALAMANDER CRUCIBLES,
BATTERSEA, LONDON, S.W.

All kinds of Crucibles in Plumbago, Clay, &c.,
Single and in Neats.
Muffles, Portable Assay and Melting Furnaces, &c.

Read "Assay Notes" in C. AND D., April 15, 1883.

PURE PRECIPITATED CHALK.

Cheapest Sellers in the Market.

Chemicals, Drugs, and Oils at lowest market rates.

APPLY TO

AUG. LEVERMORE & CO.,
8 LIME STREET, LONDON, E.C.

PETROLEUM JELLY,

EQUAL TO AND CHEAPER THAN VASELINE.

SANITARY FLUID AND SHEEP DIP,
THE CHEAPEST AND BEST DISINFECTANT.

GREASE, PITCH, ASPHALTE, AND ALL PRODUCTS OF TAR AND ROSIN.

Samples and Prices on application.

GRINDLEY & CO., POPLAR, LONDON, E.

CARMINE PUR.

(ARTIST'S.)

Chemists and others requiring Pure Carmine of the FINEST QUALITY will find this far superior to any other. It is intensely rich and brilliant in colour, perfectly soluble, and offers great advantage in price.

1 oz., 2s. 6d.; 4 oz., 8s. 6d.; 1 lb., 32s., nett cash, free by post.

J. SELLERS, 9 Farringdon Road, London, E.C.

LIQ. HUMULI CO. CONC.,

1 to 15 AQUA,

FOR TONIC BITTERS

(A FACSIMILE).

Sample and quotation free on receipt of three penny stamps.

J. HINTON KENDALL, Chemist, Blyth

SAVE OVER 30 PER CENT. BY USING

PARAFFINUM MOLLE. P.B.

(REFINED IN VACUO.)

A translucent, perfectly neutral, inodorous, tasteless, and soft (not granular) hydro-carbonaceous jelly. Sp. gr. at melting point, 0.865. Soluble in ether. Cannot become rancid or saponified. Prices—Yellow, 7 lbs., 4/; 112 lbs. 50/. White, 5 lbs., 5/; 40 lbs., 35/. *Tins free.*

PARAFFINUM DURUM. P.B.

Answers all Pharmacopœia "characters and tests." 9d. per lb. Sample pound of

either by parcels post, 1/. Process supervised by

CHARLES SAUNDERS, Analytical and Manufacturing Chemist,
6 Rochester Sq., N.W. *Special quotations to Wholesale Houses.*

Critchley's Starch Gloss

Makes Starched Linen like new. Does not stick to spider-like Materials. Once tried always wanted. Used in the Royal Laundries. Sold everywhere, in Packets, 1d., 3d., 6d., and 1s. each. Write for quotations.

Prepared only by
T. CRITCHLEY
'BLACKBURN' and
1, & 2 Australian Avenue,
LONDON, E.C.

"LA BRILLANTINE"

METALLIC POWDER (REGISTERED)

Is the best, cheapest, and most effective Powder for cleaning and polishing Metals and Glasses (specially Brass). It is used by the Life, Horse, and Dragon Guards, the Fire Brigades, &c., &c. Sold everywhere in 6d. and 1s. Boxes.

Proprietors: **J. F. BAUMGARTNER & CO,**

22 Newman Street, Oxford Street, LONDON, W.

"SPÉCIALITÉ" LIME JUICE

(NO MUSTY FLAVOUR).

For Sample and Terms

FELTOE & SONS,

ALBEMARLE STREET, LONDON, W.

Can be obtained through the Wholesale Houses.

H. SEEGER,
 21 MINCING LANE, LONDON, E.C.,
 Sole Agent for
ADALBERT VOGT & CO.'S
"UNIVERSAL"
METAL CLEANING POMATUM,
 Which is recognised by everybody to be the best.



INDIARUBBER STAMPS.



POCKET STAMP, WITH PENHOLDER AND PENCIL COMBINED.
 From 3/- subject. Send for Lists.
M. LINDNER, Manufacturer, 170 Fleet St., London, E.C.

To all those of either sex who have lost or are losing their Hair,
"CRINIDONE,"
THE HAIR PRODUCER, WILL PROVE A BOON.
 When out in handfuls comes your Hair,
 When shining bright bald spots appear,
 Don't sigh, nor cry, nor moan, nor groan,
 But get a pot of "CRINIDONE."
 AGENTS:—S. PIGOTT, Chemist, Lower Broughton;
 HARGREAVES & SON, Chemists, Preston.
 Sole Manufacturer—W. B. CAPPER,
 21 Oxford Street, C.-on-M., MANCHESTER.



TRADE MARK REGISTERED

THEEROLENE SANITARY DISINFECTANT
 AND
FLUID SHEEP DIP.
NON-POISONOUS.
 THE BEST AND MOST RELIABLE, AND THEREFORE THE CHEAPEST.
ANTI-FRICTION GREASE, OILS, PAINTS, TAR, ROSIN, &c.
PITCH, in Boxes and Casks, from 1 lb. to 4 cwt.
Prices and samples on application.
ELVIN BROTHERS, HULL.

ARTISTIC SHOP FITTINGS

FOR HOME AND EXPORT.

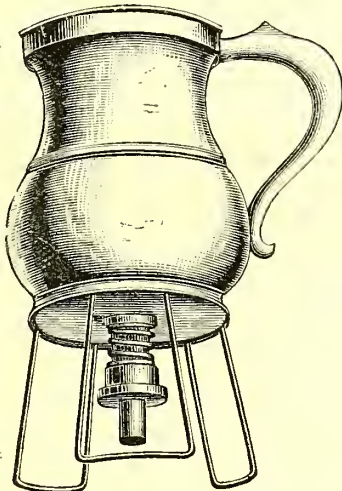
Our NEW CATALOGUE sent free on receipt of Business Card.

JOHN CURTIS & SON, WADE STREET and WADE LANE, **LEEDS.**

ESTABLISHED 1852.

HOW TO AVOID
DAMAGE! DANGER!! DIRT!!!
 USE
Maud's Patent Self-Acting Measure & Funnel.

So simple
 in its
 construction
 it cannot
 get out of
 order.



It can be
 washed
 and
 cleaned in
 five
 minutes.

By the use of the above simple apparatus not only is all waste and danger prevented, but where a number of Bottles require filling at one time, a very great saving of time and labour is effected.

Messrs. OLDFIELD, PATTINSON & Co., Wholesale Chemists, Manchester, write to say that their hands can do nearly half as much more work in the same time as by the old funnel process. To those selling petroleum, or other offensive liquids, its use will prove a great boon, as there is no need to soil the hands in measuring. Made in Tin, Copper, Pewter, Glass, &c., at prices varying from 2/6 the pint measure.

PATENTEE AND MAKER,

W. R. MAUD, PONTEFRACT, YORKSHIRE.

Particulars and prices on application.

PROFITABLE! SALEABLE! EFFICACIOUS!

THE GENUINE

Compound  Liqueurice

WORM CAKES.

(Trade Mark and Title Registered.)

The above preparation for Children, made to sell at **One Penny** each, is the most perfect article of its kind offered. Children eat them with the greatest avidity, and their success is unailing. Each cake is enclosed in a small parchment envelope, with full directions. Put up in neat Counter Boxes containing 3 dozen cakes each.

Price, 6/ per gross.

In quantities of 10 gross own name attached without extra charge.

Samples sent free on application.

MANUFACTURED BY

W. R. MAUD, Chemist, Pontefract, Yorkshire.

HEARN, RIDDELL & CO.,
GLASS BOTTLE MANUFACTURERS,
381 to 383 KINGSLAND ROAD, LONDON, E.



Glass Bottles of every description, either Plain or Stoppered, made in White, Blue, Amber, Actinic Green, or any other colour required. Screw, Nickel Capped Pomades, Honey Pots, Jelly Jars, &c., &c.

Makers of Opal Glass Covered Pots, in all sizes, which are far more Handsome and Cheaper than Earthenware.



H., R. & CO.'S PATENT GLASS SCREW STOPPERED FEEDING BOTTLES are the MOST PERFECT and Best to be obtained, and command a Ready Sale wherever introduced.

Special Attention given to Quality. Quotations Post Free to any part of the world on application. The above will be found the BEST and CHEAPEST HOUSE in the TRADE.

THE
NORTH LONDON GLASS BOTTLE CO.
(I. ISAACS & CO., Proprietors),
OUR NEW SPÉCIALITÉ BOTTLES

THE HANDSOMEST DISPENSING BOTTLES MADE.

We supply them, 6-oz. and 8-oz., 10/ per gross; 3-oz. and 4-oz., 9/ per gross. Those requiring a first-rate Bottle should see them before ordering of any other house. We also continue to supply our Second Quality Bottles, with name in scroll if required, 6-oz. and 8-oz., 8/ per gross; 3-oz. and 4-oz., 7/ per gross. These are first-rate value for the money. White Phials at greatly reduced prices, which may be had on application; also a sample bottle of any kind sent free.

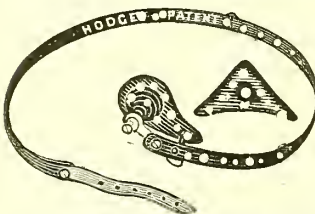
Bankers—London & Westminster Bank. Established 50 Years.

Warehouse: 25 Francis St., Tottenham Court Road, London, W.C.

GEORGE HAYNES & CO.,
Hampstead Cotton Mills,
CHERRY TREE LANE, STOCKPORT,
MANUFACTURERS OF

Bleached and Absorbent Wools,
GREY WOOL,
COLOURED WOOLS, AND JEWELLERS' SHEETS.
WHOLESALE AND EXPORT ONLY.

Telegraphic address—HAYNES STOCKPORT.



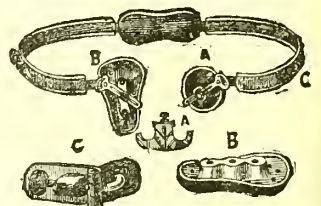
HODGE'S IMPROVED TRUSS.

The *Lancet*, in recommending Hodge's Truss, on Oct. 3, says:—"The pad gives an elastic pressure—a very great advantage—enabling it to be worn with great comfort. The truss is light, though strong; possesses such advantages that it is comfortable, adapts itself readily to the movements of the body, and is very effective."

British Medical Journal says (Dec. 19):—"Hodge's Trusses have met with the high approval of surgeons who have had great experience in the treatment of rupture."

HODGE & CO., 327 OXFORD STREET, W.

FACTORY: 18 JAMES STREET, W.



DISPENSING, ETC., BOTTLES.

WHITEHEAD & CO., 81 & 83 BLOOMSBURY, OXFORD ST., MANCHESTER,

Supply every description of above, and are second to no house in the kingdom, either in respect of quality or price.

Quotations for bottles of any size, shape, or colour, stating quantity required, on application.

OWNERS OF PROPRIETARY ARTICLES & SHIPPERS PLACED ON BEST TERMS

GREAT REDUCTION IN PRICE OF GLASS BOTTLES, SYPHONS, ETC.

ESTABLISHED TWENTY-FIVE YEARS.

ROUND SHOULDER OR LIME JUICE BOTTLES.

1 2 3 4 6 8 10 12 16 20 oz.
2/9 3/3 4/6 6/ 6/6 7/6 8/6 14/ 15/ 20/ 22/ per gross

VIALS (LONG, MEDIUM, OR SHORT SERIES).
oz., 2/8; 1 oz., 3/; 2 oz., 4/6 gross. Good quality

KALI (CONFECTIONER'S) BOTTLES.
4 6 8 10 12 20 oz.
6/ 7/6 9/ 11/ 17/ 24/ gross.

GLASS SYRINGES (Best quality).
1/2 oz., 14/; 1/4 oz., 18/; 1 oz., 27/; 2 oz., 49/ gross.

All and every kind of Bottle made, and prices given for any particular pattern.

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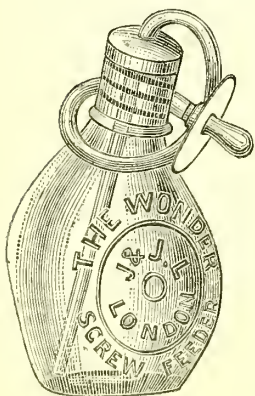
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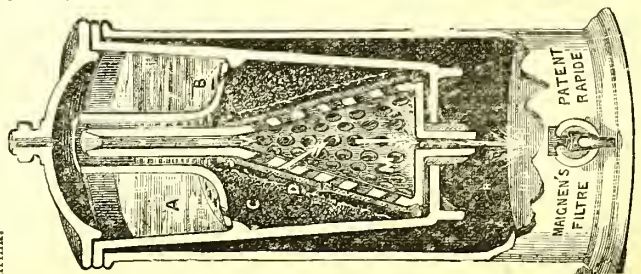
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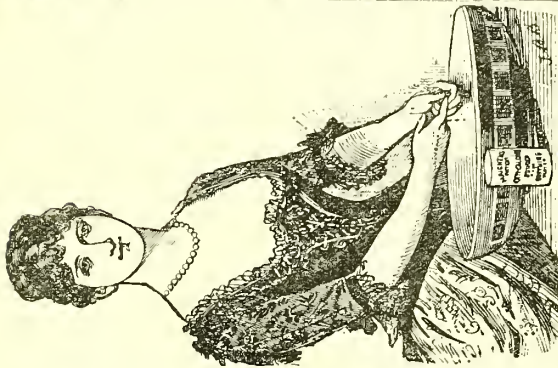
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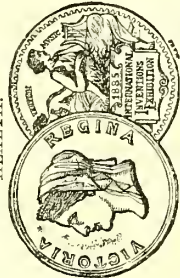
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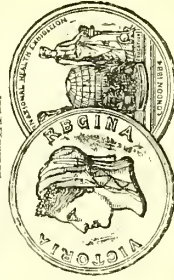
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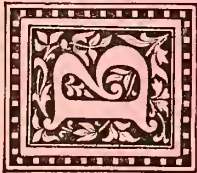
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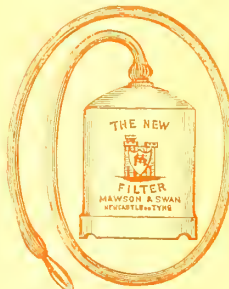
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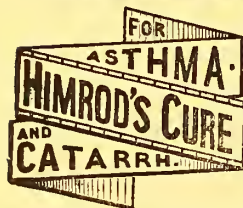
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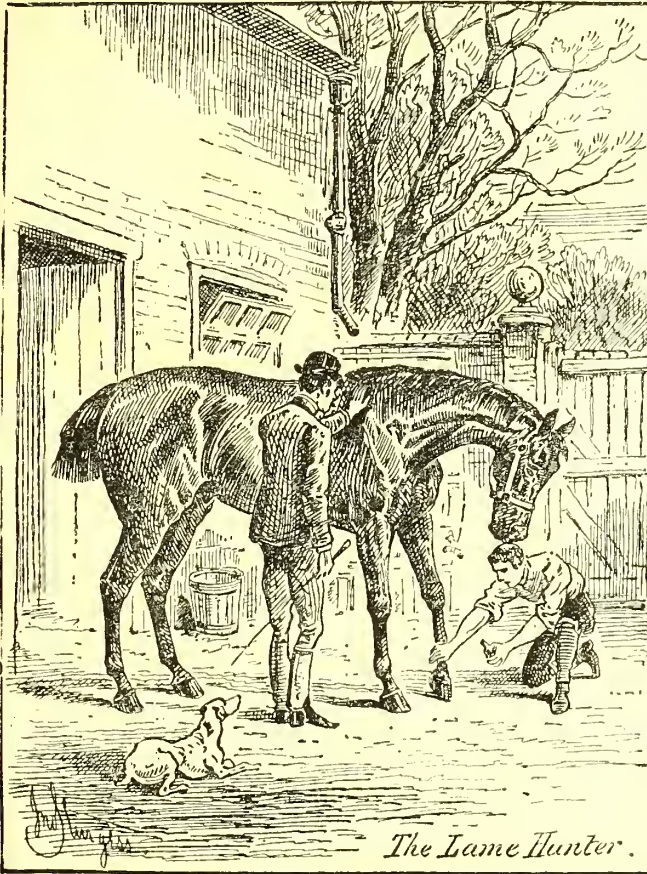
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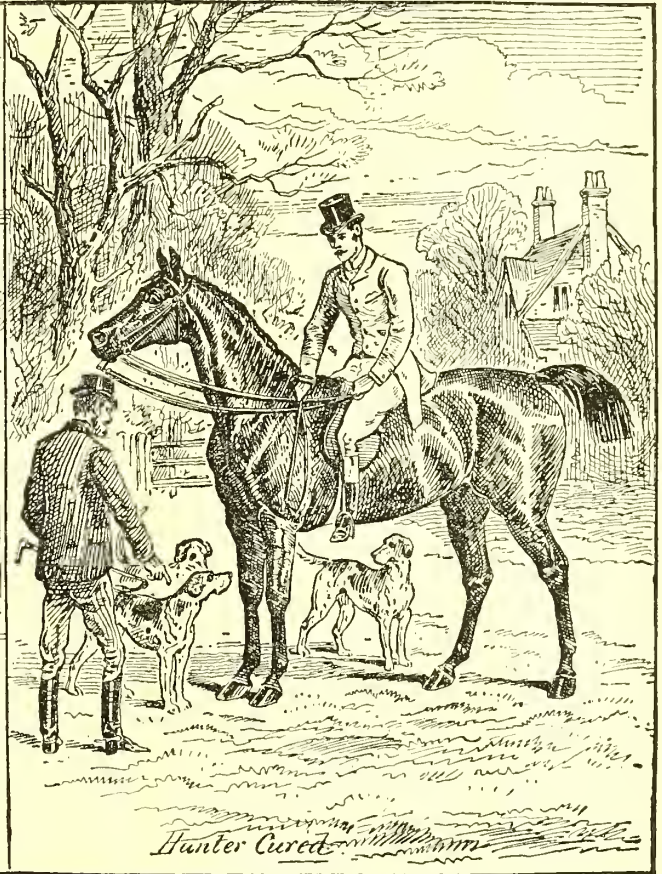
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From Mr. J. R. Humphreys, Stork House, Lamborne, Berkshire.

January, 1886.

SIRS.—I have used your Embrocation for the last 10 years in my stables, and find it MOST useful in many ways.

J. R. HUMPHREYS, Trainer.

From Mr. Albert Wetherell, Westwood Stables, Beverly, Yorkshire.

February 1st, 1886.

SIRS.—I have used your Embrocation for the last 10 years, and think no stable should be without the same.

ALBERT WETHERELL, Trainer.

ELLIMAN'S ROYAL EMBROCATION Sold by all Chemists and Saddlers in the United Kingdom; HOGG, 62, Avenue des Champs Elysees and Rue Castiglione; ROBERTS, 73, Place Vendome; L. MIDY, 113, Faubourg St. Honoré; E. ECARD, 213, Rue St. Honoré; LINGRAND, 116, Boulevard Haussman, Paris; ROBERTS, Via Tornabuoni, Florence; C. H. DELACRE, Brussels; H. W. SCHOLDER, 7, Korte Poten, The Hague; F. RIEDEL, Friedrichstrasse, 173, Berlin; H. V. SCHUTZE, Münzstrasse, Hanover; W. G. NORRLE, Elsinore; G. P. RONNINGS, 61, Vesterbrogade, Copenhagen; C. M. MOSEMAN & BROTHER, 128, Chambers' Street, New York; CARL OTTO, II. Praterstrasse, No. 23, Vienna; HEINRICH MULLER, II. Praterstrasse, No. 8, Vienna; CARLE WICKEDE & SON, II. Asperngasse, 3, Vienna; PHARMACIE ANGLAISE, 21, Rue Noailles, Marseilles; J. OLBRECHT, 26, Rue Bab-Azoun, Algiers; STOCKMANN & LEHMANN, Drougung Handlung, Moscow; STIEFENHOFER & WALNER, Wagenfabrikanten und Hof Sattler, Munich; JACOB SAUERS WIDOW, Saddler, &c., Cairo; C. ESCHRICH & CIE., and CHARLES EISSEN & CO., Saddlers, Ironmongers, Strasbourg; GERARD DE LAET, Sellier, Antwerp; S. TREES & CO., and T. WOODBRIDGE & CO., Toronto; and also at the Stores in INDIA and the COLONIES.—Sold in Bottles, at 2s., 2s. 6d., and 3s. 6d. each.

PREPARED BY ELLIMAN, SONS, & CO., SLOUGH, ENGLAND.

ELLIMAN'S ROYAL EMBROICATION,

Introduced to the public Thirty-four years since, has maintained its world-wide reputation, not only by its possessing remarkable healing properties, quickly restoring an injured limb or part to a healthy state, but also on account of the ease with which it is applied, its use being unattended by the slightest risk of blemish. A large proportion of the Masters of the Foxhounds and Harriers throughout the United Kingdom use it constantly in their stables. The testimony of these men as to its efficacy all must recognize as unimpeachable. The Embroication is very generally used by Contractors, Builders, Farmers, Brewers, Colliery Owners, Livery Stable Keepers, and owners of Carriage and Draught Horses; in fact, by all those who see that it is the strictest economy to keep their horses' legs sound and fit for hard work.

GOLD MEDAL AWARDED NEW ZEALAND EXHIBITION, 1882.

Testimonials from Masters of Fox Hounds.



From His Grace the Duke of Rutland.
Belvoir, Grantham, Dec. 1st, 1879.

SIRS.—Elliman's Royal Embroication is used in my stables; I think it very useful. RUTLAND,
Master of Belvoir Hounds.

Castle Weir, Kington, Herefordshire.
December, 1878.

GENTLEMEN,—I use the Royal Embroication in the stables and kennels, and have found it very serviceable. I have also used the Universal Embroication for Lumbago and Rheumatism for the last two years, and have suffered very little since using it. R. H. PRICE, LIEUT.-COL.,
Master of the Radnorshire Hounds.

From Captain R. Tonson Rye, Cork.
September 22nd, 1878.

SIRS.—Elliman's Royal Embroication is used in the Stables of the Muskerry Hunt, and has given great satisfaction.

Cliff House, Atherstone.

SIRS.—Elliman's Royal Embroication is used in my stables with good results. WILLIAM E. OAKELEY,
Master of Atherstone Hounds.

From Mr. J. Coupland, Gascote Hall, Leicester.
April 25th, 1882.

SIRS.—Elliman's Embroication has been used in my stables and I recommend it. Yours truly, J. COUPLAND,
Master of Quorn Hounds.

From E. R. Sworder, Esq., Barham Court, Canterbury.
April 1st, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables and kennels, and I consider it a good thing for strains and bruises. E. R. SWORDER,
Master of East Kent Hounds.

From Col. Pryse, Peithyll, Aberystwith.
April 1, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables. I find this a very useful application for cuts, strains, and bruises in horses' legs. C. PRYSE,
Master of Colonel Pryse's Hounds.

From Francis F. Lovell, Esq., Hinchleslea, Lymington, Hants.
April 9th, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables, and gives much satisfaction. FRANCIS F. LOVELL,
Master of New Forest Stag Hounds.

From Major J. M. Browne.
Fosseway, Lichfield, Oct. 17th, 1879.

SIRS.—I find Elliman's Embroication exceedingly good for sprains and cuts in horses, and also for cuts in hounds' feet. I shall strongly recommend it to all my friends. Yours faithfully, J. M. BROWNE,
Master of South Staffordshire Hounds.

From Burton R. P. Persse, Esq., Mayode Castle, Athenry, Ireland.
April 2nd, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables, and I consider it most valuable. BURTON R. P. PERSSE,
Master of Galway County Hounds.

From J. Bellamy, Esq.
December, 1878.

SIRS.—I use Elliman's Royal Embroication, and have found it most efficacious in many cases of sprains and wounds, but especially for sore throats, and when used with a bandage as a mild blister. J. BELLAMY,
Master of the Isle of Wight Hounds.

From Lord Haddington, Tynningham, Prestonkirk, N.E.
December 27th, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, and I consider it *indispensable* in any stable, but especially in the stable of a Master of Hounds. HADDINGTON,
Master of Berwickshire Hounds.

Hillmore, Taunton, Somerset.

SIRS.—Elliman's Royal Embroication is used in my stables; I have used it regularly many years, and have always found it invaluable, and strongly recommend it to my friends. LIONEL PATTON,
Master of Taunton Vale Hounds.

From Frensham, Farnham.
April 26th, 1882.

SIRS.—Elliman's Royal Embroication is used in my stables, and found to be most effectual. RICH. H. COMBE,
Master of Mr. Combe's Hounds.

From Admiral Parker, Delamere, Ivybridge.
April 24th, 1882.

SIRS.—Elliman's Royal Embroication is used in my stable, and with good results; I think it an invaluable preparation. GEORGE PARKER,
Master of the Dartmoor Hounds.

From Captain S. G. Butson, J.P., St. Brendon's, Clonfert, Eyrecourt, County Galway.
December 16th, 1884.

SIRS.—Elliman's Royal Embroication is in use in my stables, and I find the results most satisfactory. S. G. BUTSON, J.P.,
Master of the Kilkenny Hounds.

From Lieut.-Col. H. Leach, Corston, Pembroke.
April 1st, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables. I think it very useful. HENRY LEACH,
Master of S. Pembrokeshire Hounds.

From Colonel G. P. Blake, Worcester Park, Surrey.
December 23rd, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables with most satisfactory results. G. P. BLAKE, Colonel,
Master of Surrey Union Hounds.

From Major R. St. Leger Moore, Killasine, Naas, County Kildare.
December 26th, 1885.

SIRS.—Elliman's Royal Embroication is used in both my private stables and hunt horse stables, and I find it a very efficacious remedy. R. S. L. MOORE,
Master of Kildare Hounds.

From T. Walton Knolles, Esq., Oatlands, Kinsale.
April 2nd, 1884.

SIRS.—Elliman's Royal Embroication is used in my stables. I have used it for some time past, and find it very efficacious if properly applied. T. WALTON KNOLLES,
Master of South Union Hunt (Ireland).

From W. N. C. Marshall, Esq., Dennington House, Swynbridge, North Devon.
December 30th, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables—one of the best Lotions used. No stable should be without it. If used frequently, no blistering required. W. N. C. MARSHALL,
Master of W. N. C. Marshall's Hounds.

From W. J. Buckley, Esq., Pen-y-fai, Llanelly, Carmarthenshire.
December 30th, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables. WM. J. BUCKLEY,
Master of the Penllergare Hounds.

From Captain Fitzroy, Woodlands House, Taunton.
December 24th, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, and has been for many years. I find it invaluable for strains both in horse and hound. FRED FITZROY,
Master of Taunton Vale Hounds.

From P. G. Barthropp, Esq., The Kennels, Stratford St. Mary, Colchester.
December 30th, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, and I can strongly recommend it for many purposes. PHILIP GEORGE BARTHROPP,
Master of Essex and Suffolk Hounds.

From Charles W. Bagge, Esq., Cloheen Burtwant, County Cork.
December 23rd, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, with the most satisfactory results. CHARLES W. BAGGE,
Master of Duhallon Hounds.

From H. L. Lutwyche, Esq., Worham House, Hereford.
December 23, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, and I should be very sorry to be without it. I also use it in my kennels, and find it most valuable. H. L. LUTWYCHE,
Master of North Herefordshire Hounds.

From F. Swindell, Esq., Layston House, Buntingford.
December 22nd, 1885.

SIRS.—I have used your Embroication five years, and think it an excellent remedy.—Yours truly, FRED SWINDELL,
Master of the Puckeridge Hounds.

From J. Maulkin King, Esq., Bury St. Edmunds.
January, 1886.

SIRS.—Elliman's Royal Embroication is used in my stables, and I also use it, with the very best effects, in cases of sprains for hounds. J. MAULKIN KING,
Master of the Suffolk Hounds.

From Harold Helme, Esq., King's Thorne, Hereford.
March 10th, 1886.

SIRS.—Elliman's Royal Embroication is used in my stables, and I have found it a very useful remedy both for Sprains and Cuts. HAROLD HELME,
Master of South Herefordshire Hounds.

From A. W. Calvert, Esq., Orkley Court, Dorking.
December 23rd, 1885.

SIRS.—Elliman's Royal Embroication is used in my stables, and has been from time to time for many years. A. W. CALVERT,
Master of Crawley and Horsham Hounds.

From J. F. Lort Phillips, Esq., Kenilworth.
December 22nd, 1885.

DEAR SIR.—Elliman's Royal Embroication is used in my stables. J. FRED LORT PHILLIPS,
Master of North Warwickshire Hounds.

Testimonials from Masters of Harriers.



From W. L. Chorley, Esq., Quarme, Dunster, Somerset.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables; has been so for several years, and with great satisfaction. W. L. CHORLEY, Master of Quarme Harriers.

From Walter Mucklow, Esq., Bury, Lancashire.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables; I consider it most useful in many instances. WALTER MUCKLOW, Master of Holcombe Harriers.

From E. Denham-Spurrell, Esq., Manor House, Bessingham, Norwich.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I would on no account be without it. E. DENHAM-SPURRELL, Master of North Norfolk Harriers.

From C. Middleton Kemp, Esq., Foxbush, Hildenboro, Kent.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my father's stables, where my horses are kept, with satisfactory results. C. MIDDLETON KEMP, Master of Foxbush Harriers.

From Captain J. P. Lewes, Llysnewydd, Llandyssil, S.W.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I find it a rare good thing both for horses and hounds. CAPTAIN T. P. LEWES, Master of T. P. Lewes's Harriers.

Bochym, Helston, Cornwall.
GENTLEMEN.—Elliman's Royal Embrocation is used in my stables, and gives satisfaction. J. SYDNEY DAVEY, Master of Mr. Davey's Harriers.

From J. H. Mackenzie, Esq., Belleview, Whitehaven.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables; I find it most useful, and would not like to be without it. If used in time it always stops a cold or cough. J. HUGH MACKENZIE, Master of Whitehaven Harriers.

From F. H. Lamb, Esq., The Leazes, Newcastle-on-Tyne; and The Glen, St. Brilade's Bay, Jersey.
January, 1886.
DEAR SIRS.—We use your Embrocation, and good it is. FREDERICK HOLMES LAMB, Master of Northumberland and Durham Harriers.

From J. Chesshyre, Esq., Hertford.
January, 1886.
SIRS.—Elliman's Royal Embrocation has been used in my stables for many years. J. CHESHYRE, Master of the H.P.H.

From W. V. Watts, Esq., Littleton House, near Athlone, Ireland.
January, 1886.
SIRS.—I have used your Embrocation, and with very good results. W. W. WATTS, Master of Glasson Harriers.

From Philip Hilton, Esq., Rochester, September 27th, 1879.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I very much approve of it. PHILIP HILTON, Master of the Hundred of Hoo Harriers.

From Rees Williams, Esq., Aberyskir Court, Brecon, Sept. 25th, 1879.
SIRS.—Elliman's Royal Embrocation is used in my stables with satisfactory results. REES WILLIAMS, Master of the Breconshire Harriers.

From Major J. Wedgwood-Yeels, Avon Vale.
January, 1886.
SIRS.—We think very highly of your Royal Embrocation. J. WEDGWOOD-YEELS, Master of Avon Vale Harriers, Bath and County Club.

From Major L. J. Kiggell, Cahara Glin, County Limerick.
February 12th, 1886.
SIRS.—Elliman's Royal Embrocation has been used in my stables with satisfactory results, and I have heard of many pleasing results from its use in many ways. L. J. KIGGELL (Major), Master of Glin and Tarbert Harriers.

From R. Cardell, Esq., Trebelsue, St. Columb Minor, Cornwall.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I find it very useful. RICHARD CARDELL.

From Chapell Hodge, Esq., Pounds, Devon.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables and kennels, and is universally liked. CHAPELL HODGE.

From B. F. A. Jenner, Esq., Broadlands, Bridgend.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I find it most efficacious. BIRT. F. A. JENNER, Master of Mr. Birt. Jenner's Harriers.

From T. Webber, Esq., Ford Silverton, Cullompton.
January, 1886.
SIRS.—Elliman's Royal Embrocation is used in my stables, and I believe it is a very useful remedy for lameness in horses. T. WEBBER, Master of Silverton Harriers.

Sundry Testimonials.



From the Royal Hunt, Windsor Great Park, Cumberland Lodge, July 4th, 1881.
SIRS.—I feel great pleasure in testifying to the successful application of your Embrocation for green wounds, the removal of strains and enlargement of horses' legs, &c. Yours truly, CHAS. BRYANT.

From Messrs. Chaplin and Horne, the London Carriers.
September 12th, 1863.
SIRS.—Please to forward us, at your earliest convenience, four dozen of your Royal Embrocation; we are well satisfied with its efficacy. Yours respectfully, CHAPLIN & HORNE.

From G. C. Carew Gibson, Esq., Sandgate, Pullborough, Sussex.
October 7th, 1878.
SIRS.—I like your Embrocation very much; we use a great deal of it. All sorts of cuts, bruises, and slight sprains it does well for; capped hocks and sore throats it is almost certain to cure. Yours faithfully, G. C. CAREW GIBSON.

From Joseph Nall & Co., Manchester, Agents for L. & Y. Railway Co.
63, Corporation Street, Dec. 16th, 1876.
GENTLEMEN.—Please to supply us with another dozen bottles, large size, of your Royal Embrocation. We have found what you sent us in July last very useful and effectual. Yours truly, JOSEPH NALL & Co.

From Mr. J. B. Longland, Harpenden.
Railway Hotel, July 30th, 1874.
SIR.—I feel it my duty to make known the benefit we derived last hunting season through using your Royal Embrocation. A mare I had bought on account of her lameness (through a plint) I re-sold to her former owner, cured by using the Embrocation. Yours truly, R. B. LONGLAND.

Borough Arms Hotel, Lympington.
Nov. 29th, 1884.
SIRS.—We are the oldest postmasters in Lympington, and have used your Embrocation for the last three years and never found it fail to cure sprains, bruises, broken-knees; it is invaluable for horses on the road and we shall always be glad to recommend it; even if horses are not lame it is a good plan to rub their legs before a day's work. Yours truly, J. JOLLIFFE & SONS.

From Messrs. Wm. Harding & Co., Railway Agents and Merchants, Leamington.
November 2nd, 1875.
SIR.—We have used Elliman's Royal Embrocation for many years with satisfactory results. Yours truly, WM. HARDING & Co.

The Horse Repository, Singapore.
March 30th, 1885.
DEAR SIRS.—I have used your Royal Embrocation with the greatest success in cases of sprains and bruises, and for open wounds it is a most valuable application. Please send me twelve dozen more as early as possible. H. ABRAMS.

Posen, Prussia.
10th August, 1882.
Elliman's Royal Embrocation has been used in my stables for many years. I have found it invaluable for sprains and bruises in the horses. I shall recommend the remedy to all my friends. BARON VON KEUDELL, Riding Master in the 2nd Royal Hussars, Nr. 2.

Wolmirstedt, Prussia.
September 20th, 1882.
I am glad to be able to tell you that for the last two years I have regularly used Elliman's Royal Embrocation with very excellent results (especially is it to be recommended for preventing and curing sore hocks). I have used it in some cases for sprains of the shoulder with good results. I should also recommend it for applying to the legs of horses after a hard day's work, to give them renewed freshness. KRICHELDORFF, Riding Master, Estate Owner, and Lieut. of the Reserve of the Altmarkischen Ulanen Regiment, Nr. 16.

From the Trafalgar Colliery Co., Limited, near Drybrook, Gloucestershire.
June 20th, 1885.
DEAR SIRS.—Your Embrocation has done good service since used for our underground horses. Yours truly, THE TRAFALGAR COLLIERY CO., LD., FRANK BRAIN, Manager.

From Sedgwick S. Cowper, Esq., Rockwood, Rockhampton, Queensland.
Dec. 1st, 1864.
DEAR SIR.—When in England recently on Exhibition business, I obtained a case of your Royal Embrocation, which I have since tried, and must give full credit for your having produced the most successful Embrocation with which I ever met. Yours truly, SEDGWICK S. COWPER.

From Mr. Trevor Davies, Liverpool, Cab and Car Proprietor.
197, West Derby Road, January 17th, 1885.
SIR.—Be kind enough to send me a small case of your Horse Embrocation; I have eight horses, and have heard it greatly praised.

Royal Sea House Mews, Worthing.
May 19th, 1881.
SIRS.—I beg to hand you cheque for my account. You can make what use you like of my name in regard to your Embrocation, as I never used better. Yours truly, JAMES TOWNS.

From Mr. Greenhalgh, Mansfield.
July 27th, 1884.
SIR.—I have found Elliman's Royal Embrocation the best cure of any for Foot-rot in Sheep. Pare the feet well down and apply the Embrocation with a small brush to the part affected. Yours truly, H. GREENHALGH.

From Mr. J. Jackson, Horton, Nr. Malpas.
August 6th, 1884.
SIRS.—Your Embrocation has cured my mare of swelling at the knee, caused by an accident, which rendered the mare quite lame, and after having been under Veterinary care for nine months.

RHEUMATISM! SPRAINS!! CHEST COLDS!!! TRAINING!!!!

ELLIMAN'S UNIVERSAL EMBROCATION.

COUNTER-IRRITATION is the treatment of an INTERNAL LOCAL INFLAMMATORY DISEASE by an EXTERNAL LOCAL STIMULATING APPLICATION.

ELLIMAN'S UNIVERSAL EMBROCATION is the BEST COUNTER-IRRITANT, and can be used with confidence in those diseases for which the Medical Profession recommends Counter-Irritants and Rubefacients, such as Rheumatism, Sprains, Chest Colds, &c.

SPECIMEN TESTIMONIALS.

From Miss Mann, Church Street, Warwick.
January 5th, 1886.

SIRS,—For the last fifteen years, at least, I have felt I ought to write to you with regard to the *very great* benefit I have received from the use of your Embrocation. I have never been without it in the house for fully the time I mention. About twelve years since, when trying to use the skates at a rink, I fell and hurt my back fearfully. I did not use anything but your Embrocation, which I applied twice or three times a day for about ten days, and for weeks I used it, more or less, almost each day, and I feel convinced, the hurt was so bad, I should have been a cripple for life had I not have done as I did.

For ordinary weakness in the back, I am sure if used regularly on and off—I mean *every day for a week*, every now and then—it would prove a cure. But people will try so many things and not give *one tuing* a chance.

For Bruises and Sprains no matter how bad, I have never known it to fail. You are at liberty to make what use you like of what I have said, for I feel I have not said half enough.

Believe me, yours truly,
Miss MANN.

From The Mother Superior, House of Mercy, Horbury, Wakefield.

March 10th, 1886.

MESSRS. ELLIMAN,—We use your Universal Embrocation in our House for Rheumatism and Sprains; also among the Miners it is known as well, and appreciated as much, as by ourselves.

Yours truly,
THE MOTHER SUPERIOR, S.S.P. ✠

From Mr. H. Sharp, 4a, Sloane Street, Knightsbridge.

March 11th, 1886.

GENTLEMEN,—Having used your Embrocation a considerable time for Burns, Cuts, and Chapped Hands, I can testify to the benefit to be derived from its use.

Yours truly,
H. SHARP.

From Mr. John Randall, Post Office, Madeley, Salop.

March 25th, 1886.

GENTLEMEN,—I have much pleasure in volunteering a statement as to the efficacy of your invaluable Embrocation.

My doctor advised me to use it as being better than anything he could give me for a pain in the shoulder. We have recommended the Embrocation to many, and our bottle is seldom at home. My wife advised her milkwoman (who was so hoarse as not to be able to speak) to use it. She did so, although laughed at by her neighbour for doing so; it *cured her* in a day or two. What was singular was that the incredulous

neighbour who laughed became as hoarse as a cuckoo a day or two after, and went to borrow the use of her bottle. You can use my name and address if of service.

Yours truly,
JOHN RANDALL.

From Mr. F. Wood, Moria Street, Leicester.
Champion Cyclist, and Winner of the 20 miles Championship of the World three times in succession.

June 12th, 1885.

GENTLEMEN,—I was advised by a friend of mine in 1879, whilst taking part in a long distance race, to use your valuable Embrocation for stiffness, bruises, &c. I have found it of the greatest possible benefit to me both for racing purposes and Rheumatism, and more especially so since I had the misfortune to break my arm at Eastbourne in February last, as since I have had it out of splints I have suffered dreadfully; but, thanks to your Embrocation, I find it gets stronger daily. Had it not been for your Embrocation, I feel sure I could not have ridden so early in the season.

Yours truly,
F. WOOD.

Granville Terrace, Darlington, Durham.
April 13th, 1884.

MESSRS. ELLIMAN, SONS, & Co.

DEAR SIRS,—This being the second time your "Elliman's Embrocation" has been brought under my notice, I deem it my duty to speak of its virtue. A few years ago, when spending a holiday at Middleton-in-Teesdale, I had the misfortune to dislocate my ankle in a most serious manner; my wife sent to a Chemist's shop in the place for something to alleviate the pain and reduce the swelling. We were supplied with one of your bottles, which acted in a wonderful manner, and soon made all right. Now I wish again to speak of its effect. On Saturday last I was suddenly attacked with Rheumatic Gout in my foot, on Sunday morning I could neither touch the ground nor get a slipper on (let alone my boot); again we procured a bottle of your Embrocation, with one rubbing a change took place—the swelling was reduced, and after another couple of rubbings all pain has left, and a perfect cure was effected. I write this merely to tell you how grateful I feel after such a night's agony as I had on Saturday night, and I shall not fail to recommend it to all whom I find suffering from such disorders.

Yours faithfully,
RALPH MILLER.

From the Countess Blumenthal.
Wyk-on-Fohr, Schleswig, Germany.

August 11th, 1885.

SIRS,—The Embrocation does me much good, and I hope the friends for whom I had the other bottles will find it as useful as I find it myself.

From G. W. Atkinson, Esq., Athletic and Aquatic Editor of "Sporting Life."

February 1st, 1881.

GENTLEMEN,—Charles Rowell, the long-distance Pedestrian of the World, requests me to take out to New York for his use during the forthcoming International Race, one dozen bottles of your valuable Embrocation. Most of our long-distance pedestrians now use your Embrocation, and Rowell assures me that no other liniment so speedily dispenses stiffness and shin ache.

Yours faithfully,
GEO. W. ATKINSON,
Athletic and Aquatic Editor S.L.

From A. Barton, Esq.

The Ferns, Romford, May 5th, 1881.

SIR,—Being so well known in and about Romford, I write to say that had it not been for Elliman's Embrocation I should have remained a cripple up to the present moment. Seized with acute articular Rheumatism some time ago, which settled in my right knee, the pain I endured was most excruciating, and though attended by a gentleman who stands high in the medical profession, he could not guarantee that the affected limb would be restored to its normal condition. After rubbing well into the knee joints the contents of a bottle of Elliman's Embrocation, I soon experienced relief, and by persevering in its use, my contracted muscles relaxed and assumed their normal condition; when I say that I can now walk four miles a hour with perfect ease, and that my former enemy has entirely left me, no further comment is necessary. You have permission to make what use you think proper of this communication.

Yours truly,
ALFRED BARTON,
Valuer and Surveyor.

From F. Gosling, Esq.

9, Carrington Street, May Fair, S.W.

June 7th, 1884.

SIRS,—I met with a mishap in Pleadilly the other day and got a very badly sprained wrist; I used your Embrocation and obtained great relief, and in three days I could use my hand freely; I shall never be without a bottle now.

Yours truly,
F. GOSLING.

Mr. G. Lacey Hillier,

Of the Stanley Bicycle Club, and the Finchley Tricycle Club, Amateur Bicycle and Tricycle Champion at all distances in 1881, says in the "Athletes' Guide":—

"About twice a week have ankles, knees, calves, thighs, and small of the back well rubbed with Elliman's Embrocation, which I use continually, and most thoroughly believe in."

DIRECTIONS FOR USE.

FOR RHEUMATISM AND LUMBAGO.—To be well rubbed in with the hand night and morning, or at any time when painful.

FOR SORE THROAT OR COLD AT THE CHEST.—To be well rubbed in with the hand over the Chest and Throat when in bed; flannel should be placed over the Chest and Throat.

FOR STRAINS, SPRAINS, & BRUISES.—The parts affected to be well rubbed with the Embrocation three or four times a day.

FOR CUTS AND WOUNDS.—The fresh wounds to be well washed with lukewarm water, and the Embrocation to be sopped in with soft linen rag. It will produce momentary smarting, but it rapidly heals the wound.

FOR TOOTH-ACHE, TIC-DOLOREUX, CHAPS, AND CHILBLAINS BEFORE BROKEN.—To be frequently rubbed in with the hand to the parts affected.

FOR GOUT.—During the painful and tender state apply it gently with a feather or soft rag. If applied with the hand before the fit comes on, it will stop it.

TRAINING.—After severe exercise when training for athletic sports, rowing, &c., this Embrocation, well rubbed in with the hand for a few minutes, will be found very prompt in removing and curing stiffness and soreness of the limbs. Half a bottle of the 1/1½ size put in a gallon of hot water is found useful for bathing the parts of the body affected by stiffness, &c.; also a whole bottle added to a warm bath will be found most refreshing. Huntsmen, rowing men, bicyclists, and athletes should always have some on hand.

THE LENGTH OF TIME for which the Embrocation should be rubbed in would of course be less for a person with a very delicate skin than for one whose skin is not so sensitive, but in most cases five minutes is about the time understood, or until a pleasant glow and tingling is felt.

AS A SUBSTITUTE FOR THE MUSTARD PLASTER the Embrocation is to be well rubbed in with the hand, a rag should then be sopped in the Embrocation and spread over the part; another piece of rag soaked in cold water and wrung, placed on top of this. They may both be allowed to remain until dry.

SOLD BY ALL CHEMISTS, IN BOTTLES, 1/1½ and 2/9 each.

Prepared only by ELLIMAN, SONS, & CO., SLOUGH, near WINDSOR.

A1 Brand. **SHIRLEY'S** A1 Brand.
MENTHOL CONES.

Order as
A1 Brand

A NOVELTY IN HANDBILLS!

For separate
 shapes,
 see over

Sold where this Card was obtained 6d & 1s

Neuralgia AND Toothache CURED BY MENTHOL CONES.

SEA SICKNESS REMOVED BY INSECT BITES GONDS IN THE HEAD

Insist on having the **A1 Brand.**

A packet of circular cards, printed both sides, (copies of which are here given), supplied to buyers of the **A1 Brand.** Being novel and attractive, these cards are sure to be read, in consequence of which a large increase in the sale will be certain

DIRECTIONS for using the A1 Menthol.

Headache, Neuralgia, Sciatica, Rheumatism.—Rub well over the part affected, especially before going to bed, as it will produce sleep. It may be rubbed amongst the roots of the hair without injury to growth or color.

Toothache.—Put a piece the size of a pin's head into the cavity, or rub the gums with the finger, previously rubbed with the Menthol. **Earache.**—Rub at the **ENTRANCE** of the ear, and behind it.

For Faintness and Cold in the Head, use as a smelling bottle, and gently rub the entrance to the nostrils, or scrape a little off and snuff up the nose.

For Pains in the Stomach, Flatulence and Nausea, swallow a piece the size of a peppercorn, dissolved in spirits if preferred. **Sea Sickness.**—Double the quantity may be swallowed, also, rub and inhale as for Faintness.

Bites of Insects.—Simply rub the part bitten.

Insist on A1 Brand

A1 Quality.

Double your sale by selling a really good unadulterated article composed of pure Japan Menthol only, which leaves no disagreeable greasy marks on the skin. The A1 Brand is guaranteed to be *absolutely pure.*

A1 "Get-up."

Every endeavour is made to facilitate the sale of the A1 Brand by giving Handbills, Show Cases, and Dummy Cases. The object in doing this is to supply the chemist with an article which is sure to command a quick sale, with little trouble and *good profit.*

Please note we do not ask for a large order to obtain a Show Case.

This handsome Glass-Fronted Show Case given away to purchasers of 2 doz. 1 - and 1 doz. 6d. or 5 doz. 6d. sizes of the A1 Brand. The Case is 11in. long by 5½in. deep, and the lid lifts, so that the goods can be sold from it, making it both a useful and attractive addition to a chemist's counter. If preferred, a smaller Case, 8in. long by 4½in. deep, fitted with *dumettes*, given instead of the large empty one. This will be found of great use in hot weather and warm climates.



See over for separate Shapes and Prices.

Order as **A1 BRAND** from your wholesale house, or direct from
J. G. SHIRLEY,
 30, Paternoster Square, London, E.C.

BE SURE TO READ THIS.

Don't be ^{too}persuaded to try other Brands for the sake of cheapness. The A1 Brand allows a good margin of profit to both wholesale and retail, and finds favour with the public owing to the Menthol being *effective in its use and doing what it pretends to.* There is a lot of *inferior Menthol* in the market, so beware of cheap Brands, which will only tend to *ruin* the sale of an article which, if supplied pure and really good, *must* daily increase in demand, and become an important item in a chemist's business.

SEE OVER.

A1 Brand. Manufactured by **MENTHOL CONES** **J. G. SHIRLEY.** **A1 Brand.**

Style 1 Be sure to read the other side.



1.—6d. Glass Bottles, with metal screw caps 12 in a hinged box. **3/6** per doz.

Style 2 In ordering, state distinctly **A1 Brand.**



2.—6d. Plain Willow Boxes, lid serving as a holder. 12 in a hinged box. **3/6** per doz.

Style 3 **SPECIAL TERMS TO LARGE BUYERS.**



3.—9d. Glass Bottles, with metal screw caps. 6 in a box. **5/4** per doz.

Style 4 **CONES FITTED TO BUYERS' OWN BOXES.**



4.—1 - Glass Bottles, with metal screw caps (Menthol on wood mount serving as a holder). 6 in a box, or on a card. **6/9** per doz.

Style 5 5.—1 - Glass Bottles, with metal screw caps (bullet-shaped Cones, wrapped in tinfoil). 6 in a box, or on a card. **6/9** per doz.



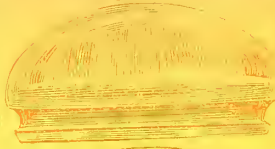
BE SURE TO READ THE OTHER SIDE.

Style 12.—6d. Polished American Birch, "pull off" lid, shape as No. 6. 12 in a box. **3/6** per dozen.

Style 13.—1 - Vegetable Ivory, acorn shape. 12 in glass outer. **6/6** per dozen.

Style 13a.—1/- Vegetable Ivory, in plain hinged box. **6/3** per doz.

Style 17.



Draughtsman.
A flat pocketable shape, made of Ebony and Boxwood, assorted, 7/3 per doz.
Do. Ebony only... 7/9 ..
Do. Boxwood do. 7/- ..
Do. Vegetable Ivory 8/- ..
A very saleable shape.

Style 18.



Regd. No. 45454.
The Ladies Combination Headache Reliever and Pin Cushion.

The top forms a pin-cushion, the Menthol being fixed in the bottom. Being made of assorted coloured plush, and arranged 12 in a hinged outer, a very saleable article is presented. 7/- per dozen.

PLEASE TURN OVER.

6.—9d. Boxwood, ordinary shape, on pedestal (screw lid). 6 or 12 in a box. **5/-** per doz.

GUARANTEED PURE JAPAN MENTHOL.

7.—1 - Boxwood, barrel-shape, screw lid. 6 or 12 in a box. **6/-** per doz.

Important to Shippers.—The screws of the boxwood shapes are not affected by change of climate, the wood being thoroughly seasoned

8.—1 - Boxwood, acorn shape, screw lid. 6 or 12 in a box. **6/-** per doz.

ORDER DISTINCTLY AS A1 BRAND.

9.—1 - Boxwood, skittle shape, screw lid. 6 or 12 in a box. **6/-** per doz.

9a.—1/6. Extra large skittle, 6 or 12 in a box. **7/9**

11.—6d. Boxwood Pedestals, screw lids, each in a separate box, 12 of which are enclosed in glass slide outer. **4/-** per doz.

11a.—Ditto, 12 in a box, without separate cardboard boxes and outer. **3/6**

14.—1 - Same shape and get-up as 11, only larger. **6/6**

14a.—1/- do. 11a do. **6/6**

Style 16.—A fancy pattern of electro-plate, boxwood and ebony, 12 in a box. Not suitable for hot climates. **7/3** per dozen.

Style 6



Style 7



Style 8



Style 9 & 9a



Style 11 & 14



A1 Brand. MENTHOL A1 Brand.

6^d. NEURALGIA & HEADACHE PENCIL. 6^d.

Style 10.—6d. Menthol, in oblong willow cases, with red labels. 12 on a card, very saleable. **3/6** per dozen.

Sell pure, unadulterated articles, and you are sure to give satisfaction to your customers. Therefore, stock no Menthol but **SHIRLEY'S A1 Brand, purest, best, and most effective.**

A1 BRAND MENTHOL

Style 19.—Pocket Menthol. The cases are made of boxwood, in the shape of an egg, screwing in the middle, and arranged on an attractive show card, with easel back. **3/-** per dozen.

For particulars of show cases and handbills given away, please see other side.

MENTHOL commands a sale all the year round; in summer, for Headache, Fatigues, &c., and in winter for Neuralgia, Rheumatism, &c.; therefore, always stock and push it.

A1 Brand. MENTHOL A1 Brand.

6^d For Neuralgia and NERVOUS HEADACHE 6^d

Style 15.—6d. Menthol in cardboard cases 12 in a show Box front of which drops to display the articles. **3/-** per dozen.

Increase your profits by selling Menthol. Show Case gratis. See over.

Order as **A1 BRAND** from your wholesale house, or direct from **J. G. SHIRLEY, 30, Paternoster Square, London, E.C.**
Telegraphic Address: **Menthol—London.**

The **A1 Brand** always gives satisfaction, so buy no other than **Shirley's A1 Brand**

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LITHOGRAPHED, FROM PLATE.	4½-in. × 3-in.	7/0	12/6	22/0
" ..	3½-in. × 2¾-in.	10/6	17/0	30/0
" ..	3½-in. × 2¾-in.	8/0	14/0	24/0

CIRCULARS, Tastily Displayed on Good Paper.

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LETTER PRESS.....	1,000	3,000	5,000
LITHOGRAPHED, FROM PLATE.....	6/0	15/0	20/0
" ..	9/0	17/6	24/0

BILL HEADS.

LETTER PRESS	1,000	3,000	5,000	
" ..	7/0	18/0	22/0	
" ..	9/0	22/0	30/0	
LITHOGRAPHED, FROM PLATE ...	5-in. × 5½-in.	8/0	20/0	25/0
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PER REAM15-lb. 6/0; 17-lb. 6/9; 19-lb. 7/6

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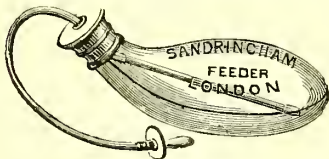
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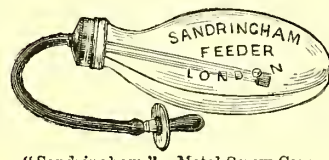
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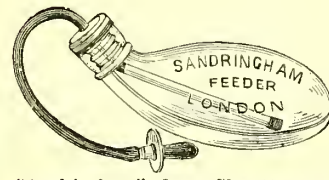
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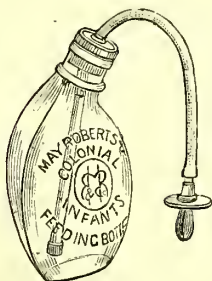
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"Colonial." Earthenware or Wood Tops.

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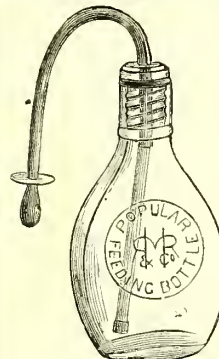
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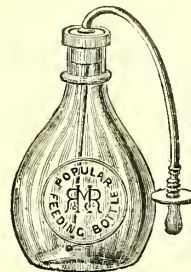
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With Black Fittings, each in box per doz.	3 1	
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Spare White Fittings per doz.	1 4	
Spare Black Fittings " "	1 7	
Spare Green Bottles " "	1 0	
Spare White Bottles " "	1 2	

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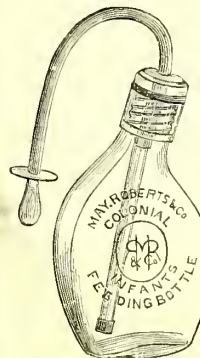
With White Fittings, each in box per doz.	s. d.	3 6
With Black Fittings, each in box per doz.	3 9	
With White Fittings, 1 dozen in box per doz.	3 0	
With Black Fittings, 1 dozen in box per doz.	3 3	
Spare White Fittings " "	1 6	
Spare Black Fittings " "	1 9	
Spare Bottles	1 9	



"Popular." Screw Glass Stoppers.



"Popular." Earthenware or Wood Tops.



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With Black Fittings, 1 dozen in box per doz.	2 7	
If with White instead of Green Bottles per doz. 2d. extra		
Spare White Fittings per doz.	1 4	
Spare Black Fittings " "	1 7	
Spare Green Bottles " "	1 0	
Spare White Bottles " "	1 2	

Popular (6d.) — GREEN, Screw Glass Stoppers—

With White Fittings, each in box per doz.	s. d.	3 6
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Spare White Fittings " "	2 6	
Spare Black Fittings " "	3 0	
Spare Bottles	1 2	

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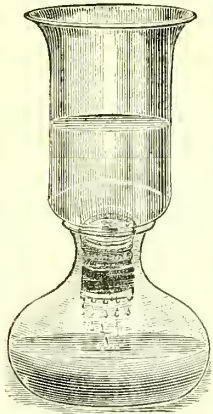
With White Fittings, each in box, two brushes . . . per doz.	s. d.	4 6
With Black Fittings, each in box, two brushes . . . per doz.	5 0	
Spare White Fittings " "	2 6	
Spare Black Fittings " "	3 0	
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Spare Bottles	1 2	

Colonial (1s.) — WHITE, Screw Glass Stoppers—

With White Fittings, each in box, two brushes . . . per doz.	s. d.	4 6
With Black Fittings, each in box, two brushes . . . per doz.	5 0	
Spare White Fittings " "	2 6	
Spare Black Fittings " "	3 0	
Spare Bottles	1 9	



STYLE "W."

CHEAPEST AND BEST.

THE ONLY RELIABLE FILTERS.

MADE AT OUR OWN GLASS WORKS.

No Intermediate Profits.

STYLE "W."—Plain: 1 pint, 2/3; 2 pints, 3/; 3 pints, 4/. Engraved: 1 pint, 2/9; 2 pints, 4/; 3 pints, 5/.

STYLE "X."—Plain: 1 pint, 3/; 2 pints, 4/; 3 pints, 5/. Engraved: 1 pint, 3/6; 2 pints, 5/; 3 pints, 6/.

VERY LIBERAL DISCOUNT TO THE TRADE.

JUDSON'S GLASS WORKS,
ORMSIDE STREET,
Old Kent Road, LONDON.

D. JUDSON & SON

(LIM.),

SOUTHWARK STREET,
LONDON.



STYLE "X."

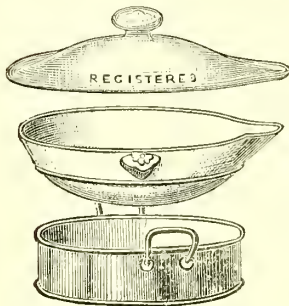
"MAY-ROBERTS" WATER BATH,

REGISTERED.

This Water Bath will supply a long felt want amongst Chemists and Perfumers, where small quantities of materials have to be dealt with.

The old form of Water Bath necessitates the use of a second vessel for pouring the melted Pomade, Cream, or other substance in to the bottles or jars in which they are sold. In the "MAY-ROBERTS" Water Bath the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be poured into the bottles or jars direct from the bowl. The Bath is also supplied with an earthenware cover.

1 PINT.	5 PINT.	10 PINT.
Each 3/0	.. .. 5/6	.. .. 9/6



MAY, ROBERTS & CO.,
9 CLERKENWELL ROAD, LONDON, E.C.

Temporary Address during Rebuilding of Premises—9 MOOR LANE, E.C.

Telegraphic Address—"MOAB LONDON."

J. DUNLOP, MITCHELL & CO.

Office and Show Rooms: 130 to 136 INGRAM STREET, GLASGOW.

THE BEST & HANDSOMEST WATER FILTERS
EVER MADE.

No one should drink unfiltered water. It is an acknowledged fact that nearly all our illnesses originate by drinking impure water. No house or establishment should be without one or more of our new "Mountain Dew" or "Rippling Hill" (Registered) Water Filters, entirely made of glass, in 1 and 2 gallons capacity.

FEEDING BOTTLES—Tinted, 26/ per gross; White Glass, 30/.

BOTTLES of every description of shape and size stoppered, with and without white metal screw tops, at lowest prices. Show and specimen Bottles, Glasses, and Jars in great variety; also Laboratory Glassware.

Illustrations and Prices on application.

Correspondence solicited.

AGENTS WANTED in the Colonies and Abroad.



DOULTON & CO., LAMBETH, LONDON, S.E.

MANUFACTURERS OF EVERY DESCRIPTION OF

WATER FILTERS.

NEW PATENT

Manganous Carbon FILTERS.
Boudoir and Table FILTERS.
Pocket and Syphon FILTERS.

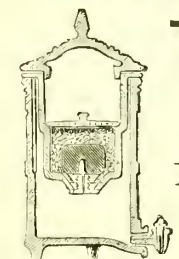
House Supply or Cistern FILTERS.
Patent Granular Charcoal FILTERS.
Refrigerator FILTERS.

MAIN SERVICE FILTERS

FOR INTERMITTENT OR CONSTANT SUPPLY.

See Reports, Analyses, &c. Detailed Lists on application.

To be obtained of all Dealers.



DOULTON & CO., LAMBETH, LONDON, S.E.

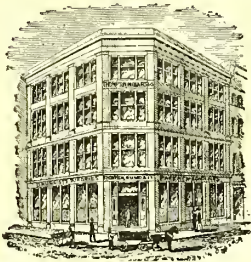
DEPOTS:—100 Soho Street, LIVERPOOL; Granville Wharf, BIRMINGHAM; and 6 Rue de Paradis, PARIS.

THOMPSON, MILLARD & CO.

LIMITED,

CURTAIN ROAD, LONDON, E.C.

Telegraphic Address, "BEATROP LONDON."



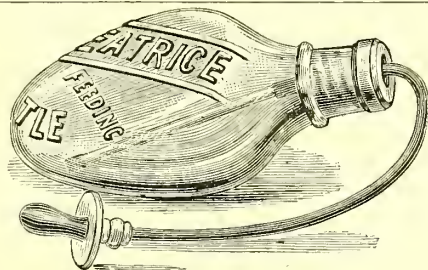
WHOLESALE and EXPORT

DRUGGISTS' SUNDRIESMEN, DRUGGISTS,

SURGICAL INSTRUMENT MAKERS, PERFUMERS, ETC.

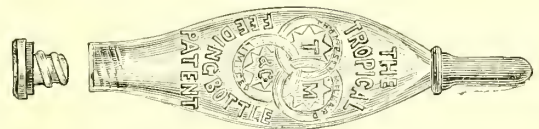
Sole Proprietors of the "Mater," "Bristol," "Imperial,"

"BEATRICE" & "TROPICAL" FEEDING BOTTLES.



THE "BEATRICE" FEEDING BOTTLE.

With opal glass screw stopper, best black rubber fittings, each in handsome shouldered box arranged to stand the feeder in white filling, and tube and bottle brush, per dozen 8s., subject to usual discount. This Feeder combines the advantages of the straight and bent neck bottles, can be laid on either side without leakage, and is easily cleaned.



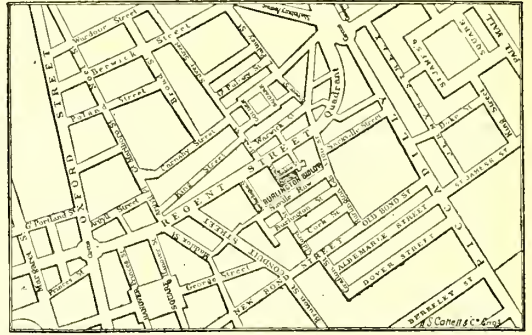
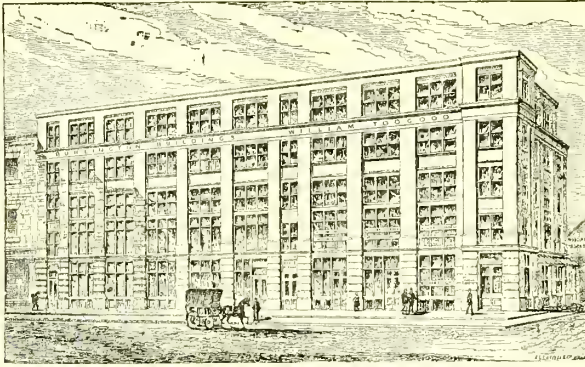
THE "TROPICAL" FEEDING BOTTLE.

THOMPSON, MILLARD & Co.'s new PATENTED Boat-shape Feeding Bottle. Fitted with screw glass stopper or metal screw cap at end to allow of cleaning. In two sizes. Illustrated Price List on Application.

WRITE FOR PRICE LIST OF CHEAP FEEDING BOTTLES, JUST ISSUED.

Special attention paid to Export Orders, and Illustrated Price Lists posted free to any part of the world on application.

Our goods give universal satisfaction, and buyers may with confidence favour us with a Trial Order.



WILLIAM TOOGOOD'S NEW PREMISES.

WILLIAM TOOGOOD,
WHOLESALE AND EXPORT
GLASS BOTTLE MANUFACTURER
 AND
DRUGGISTS' SUNDRYMAN,
 HAS REMOVED FROM
35, 36 & 37 MOUNT STREET, GROSVENOR SQUARE, W.,
 TO
BURLINGTON BUILDINGS,
HEDDON STREET, REGENT STREET, LONDON, W.

TO OUR CLIENTS AND FRIENDS.

SIRS,—On the occasion of advising you of our change of address, consequent, firstly, by the expiration of leases of premises which we have occupied for the past 56 years, and, secondly, by the necessity of obtaining greater accommodation to meet an increasing trade, we take the opportunity of thanking our friends for the support which has been accorded to us in the past, and to hope that we shall meet, not only with the same, but an increased support in our new premises.

Having greater facilities, our stock will be gradually extended to meet all requirements of the Trade, and our system of administration will be such as to secure the prompt execution of all orders entrusted to our care.

Our Show Room will contain a full line of samples of our manufactures, and we solicit a visit of inspection from all our friends—town, country, colonial, and foreign.

Yours truly,

WILLIAM TOOGOOD.

AUSTRALIAN AGENCY AND SAMPLE ROOM:

Mr. A. I. JOSEPH, Bond Street, Sydney.

Telegraphic Address: "TOOGOOD LONDON."

Telephone No. 3834.

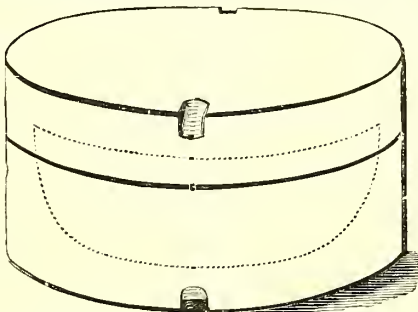
William Toogood's Price Current of Glass Bottles, Measures, Earthenware, Druggists' Sundries, &c., will be forwarded post free upon application.

SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

TOOGOOD'S IMPROVED PATENT EARTHENWARE COVERED POTS

ARE CLAIMED TO BE THE MOST PERFECT AND CONVENIENT YET OFFERED TO THE TRADE, AND POSSESS THE FOLLOWING ADVANTAGES:—

1st.—An India-rubber Band passed vertically over the pot is kept in its place by the notches, and effectually secures the lid; for travelling this supplies a want greatly needed.



3rd.—The inside of the Pots being rounded or egg-shape the contents can be entirely removed without waste.

2nd.—The Covers being made quite flat, labels can be affixed with ease, and without creasing.

4th.—Great attention has been paid to insure accuracy of contents.

PRICES. { $\frac{1}{4}$ 18/- $\frac{1}{2}$ 18/- $\frac{3}{4}$ 18/- 1 20/- 1 22/- 1 $\frac{1}{2}$ 24/- 2 27/- 3 34/- 4 42/- 6 54/- 8 oz. 66/- per Gross.



THE WESTMINSTER FEEDING BOTTLE.

(SCREW GLASS STOPPER.)

THE 1s. WHITE GLASS—

WHITE FITTINGS, 7/6; BLACK FITTINGS, 8/6 DOZ.

THE 6d. GREEN GLASS—

WHITE FITTINGS, 4/; BLACK FITTINGS, 4/9 DOZ.

DR. BELL'S EUCALYPTUS ANTI-CATARRH

OR

HAY FEVER SMELLING BOTTLE.

RETAIL, 1/1 $\frac{1}{2}$; WHOLESALE, 9/- DOZEN.

MANUFACTURED BY

WILLIAM TOOGOOD,

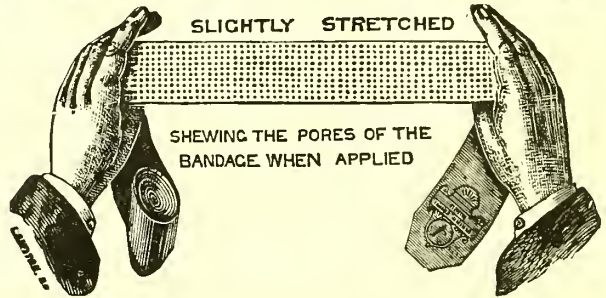
WHOLESALE GLASS BOTTLE MANUFACTURER & DRUGGISTS' SUNDRYMAN,
BURLINGTON BUILDINGS, HEDDON STREET, REGENT STREET, LONDON, W.

WILLIAM TOOGOOD'S REVISED PRICE CURRENT of Glass Bottles, Measures, Earthenware,
Druggists' Sundries, &c., will be forwarded free on application.

SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

H. STATHAM & CO.'S STRONG POROUS ELASTIC BANDAGES.

ESTABLISHED 1847.



For the Cure of Ulcers and other Diseases of the Leg.
Specially prepared from the Best and Purest Para Rubber and Sulphur.
The **POROUS ELASTIC BANDAGE** is filled with fine pores, attaining all the advantages of Porosity without deteriorating the quality.

PRICES FOR THE BANDAGES.	}	5 feet × 2½ inches wide, 2/ each.	5 feet × 3 inches wide, 2/3 each.
		7½ " × 2½ " " " 3/ " "	7½ " × 3 " " " 3/6 " "
		10½ " × 2½ " " " 4/ " "	10½ " × 3 " " " 4/6 " "
		15 " × 2½ " " " 6/ " "	15 " × 3 " " " 6/9 " "
		21 " × 2½ " " " 8/ " "	21 " × 3 " " " 9/ " "

SOLE MAKERS AND PATENTEES:

H. STATHAM & CO., 9, 10 & 11 CORPORATION ST., **MANCHESTER.**

Trade Discount 20 per cent., Cash, Carriage Paid.

INDIA RUBBER AND GUTTA PERCHA ARTICLES OF EVERY DESCRIPTION.

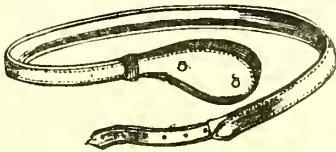


FIG. 1.

The Best and Cheapest Trusses of all kinds in the Wholesale and Export Market are manufactured by

H. M. COLWELL.

ELASTIC STOCKINGS, SUSPENDERS, AND SURGICAL BANDAGES OF ALL KINDS.

WHOLESALE AND EXPORT.

THE LARGEST SHIPPERS IN THE TRADE.

ILLUSTRATED PRICE LIST POST FREE TO ANY ADDRESS.

Estab. 1832.] 116 NEWINGTON CAUSEWAY, LONDON, S.E. [Estab. 1832.



FIG. 2.

'THE ANTI-SNORER.'

BY ROYAL LETTERS PATENT.

JOHN TUCKER'S PATENT ELASTIC BELT

(ALSO REGISTERED),

FOR KEEPING THE MOUTH CLOSED DURING SLEEP.

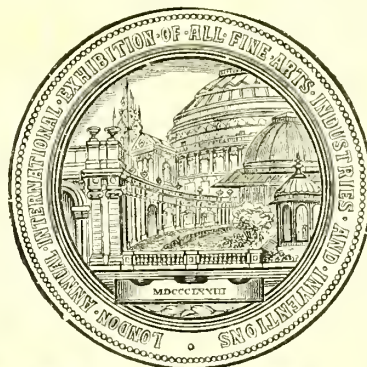
This perfectly safe and most simple appliance effectually prevents DRYNESS and PARCHING of the TONGUE and THROAT. Sufferers from Sore Throat (especially where the UVULA of the Throat is subject to Inflammation) will obtain the greatest relief by wearing it. The Inventor, by its use, has derived such great benefit to his health that he offers it with confidence to others.

Sold by Chemists; Retail, 7s. 6d. each; Wholesale, 66s. dozen.

Sole Wholesale Agent: **WILLIAM TOOGOOD**, Burlington Buildings, Heddon St., Regent St., London.



TRADE MARK, REGISTERED.



**COTTON & FLAX
LINTS,
CARDED COTTON WOOLS**

(GREY, WHITE, OR ABSORBENT),

Roll Bandages, and Absorbent Cotton Artificial Sponges,

MANUFACTURED BY

**ROBINSON & SONS,
WHEAT BRIDGE MILLS, CHESTERFIELD,**

Warehouse, 55 Fann Street, Aldersgate Street, London, E.C.

ALSO SOLE PROPRIETORS AND MANUFACTURERS OF

PATENT ABSORBENT GAUZE AND COTTON TISSUE,

Introduced by **SAMPSON GAMGEE, Esq., F.R.S.E.,** Consulting Surgeon to the Queen's Hospital, Birmingham.

ASK FOR "GAMGEE TISSUE," WHICH BEARS OUR TRADE MARK.

THE LANCET, August 24, 1878, on Paris Exhibits, says—

"Messrs. Robinson & Sons, of New Brampton, near Chesterfield, have exhibited some beautiful specimens of Lint, which attract the attention of French and foreign surgeons. They look very soft and silky. Their flax and cotton samples are equally good. These exhibitors especially draw the attention of French medical men (who employ the thready French lint) to their cheap cotton lint, which is employed in the majority of English hospitals, and which is cheap and easy to apply. They lay great stress on the care they take to rid the lint of chlorine, acids, or other irritating substances. They have also a collection of bandages very remarkable for their flexibility and facility of application. They look comfortable to wear; and ventilation must take place better with them than through a more closely-woven tissue."

IMPORTANT.

N.B.—Certificate of Merit to Robinson & Sons for Bandages, Cotton Wools, and Lints. Exhibited at the International Medical and Sanitary Exhibition, London, 1881.

We place the highest value on this AWARD, as most of the Judges of Surgical Appliances at the late Exhibition have used our Lints, &c., for many years at the London Hospitals. No higher recognition of Quality can be given.

ROBINSON & SONS.

Works :
Oldbury, nr. Birmingham

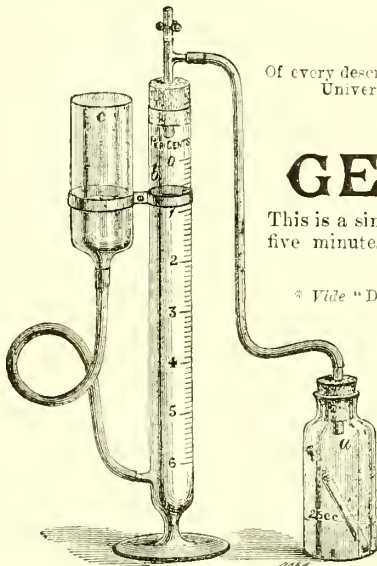
GIBBS, CUXSON & CO.,

Telegraphic Address —
" Dressing s Wednesbury,"

MANUFACTURERS, WEDNESBURY.

Gauze, Wool, Lint, Tow, Pads, Bandages, Ligatures, Suppositories,
Pessaries, Bougies, Spread Plasters,

Of every description, as supplied by G. C. & Co. to most of the leading London and Provincial Hospitals, including University College, Charing Cross, and Guy's Hospital, Manchester and Liverpool Royal Infirmarys, and Birmingham General Hospital.



GERRARD'S UREOMETER.

This is a simple form of apparatus for estimating urea, the operation being completed in less than five minutes. The determinations are scientifically accurate, no calculations being needed, as the result of the analysis is read at once in per cents. of urea.*

* Vide "Diseases of the Kidney and Morbid Conditions of the Urine, Dependent on Functional Derangement," by C. H. Ralfe, M.A., M.D. (Cantab.), F.R.C.P. (London).

PRICES.

- The UREOMETER, complete 10s. 6d.
 - Bromine Tubes, 2.2 c.c. 30s. per gross; 2s. 9d. per dozen
 - Ditto 4.4 c.c. 45s. " ; 4s. "
 - Sodium Hypobromite Solution, in ½-lb. stoppered bottles, 2s. 6d.
- (This solution, as made, will keep satisfactorily for six months.)

SPECIAL TERMS to large Consumers and Buyers. PRICE LISTS on application

ST. DALMAS' LEICESTER

Improved Adhesive Plaster

ON FINE FLESH COLORED CAMBRIC

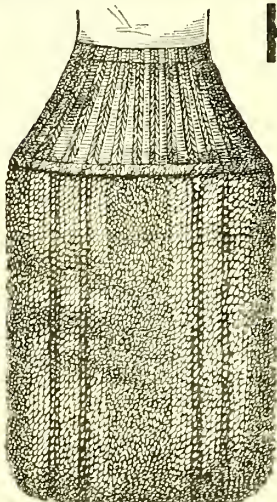
USED BY SURGEONS ALL OVER THE WORLD.

THE "LEICESTER"
SPREAD & MARGINAL
PLASTERS,
POROUS PLASTERS,
MUSTARD PLASTER,
CORN PLASTERS
&c., &c.
BEST QUALITY.

FRANCIS'
BRONCHIAL PROTECTOR.
REGISTERED TRADE MARK.
Best preventive and cure of Bronchitis, Asthma,
Winter Cough, Tight Breathing, and all Throat
Complaints. 13½d. and 2s. 9d.
MANUFACTURED BY
A. de ST. DALMAS, LEICESTER.
Formerly MOOR.

HAYWOOD'S SURGICAL APPLIANCES.

HOLDFAST BATH GLOVE.



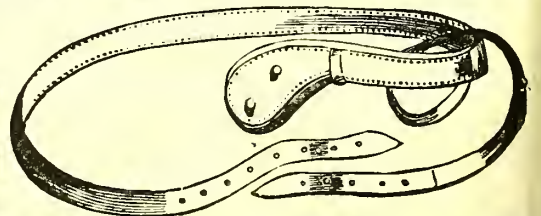
REGISTERED 21,184.



"Acme" Brace.



Elastic Stockings.



Trusses.

Greatest attention paid to Special Orders, which are invariably forwarded per return of post.



Suspensory Bands ges.

List of Prices and Directions for Measurement forwarded on application.

J. H. HAYWOOD, Castle Gate, NOTTINGHAM.

LINT

THE

LIVERPOOL PATENT LINT CO.,

MARK STREET MILLS,
NETHERFIELD ROAD NORTH,



LIVERPOOL,

MANUFACTURERS OF

PATENT FLAX AND COTTON LINTS

OF SUPERIOR QUALITY.

Will tear with perfect ease both ways, are free from the slightest impurity, being made from UNSIZED yarns, and possess immense absorbent power and porosity.

Our SPÉCIALITÉ,

EXTRA SUPERFINE CAMBRIC LINT,

Is the finest Cotton Lint manufactured, and is specially adapted for Surgeons' private use.

ABSORBENT AND CARDED COTTON WOOLS.

ABSORBENT OPEN WHITE AND GREY

BANDAGES

Which are much superior to any other kind for softness, coolness, and cheapness.

WADDING, SURGEONS' TOW,

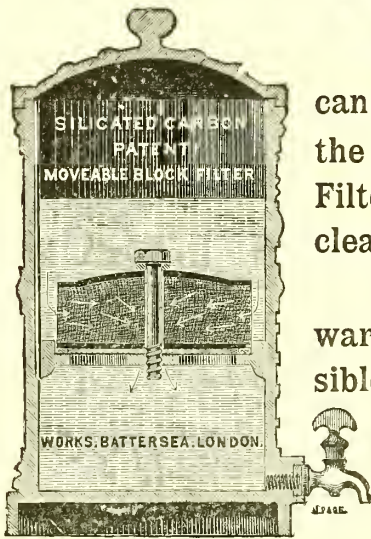
AND

CARBOLIZED TOW,

THE ANTISEPTIC DRESSING.

SILICATED CARBON PATENT MOVABLE BLOCK FILTERS.

LIBERAL DISCOUNT TO THE TRADE.

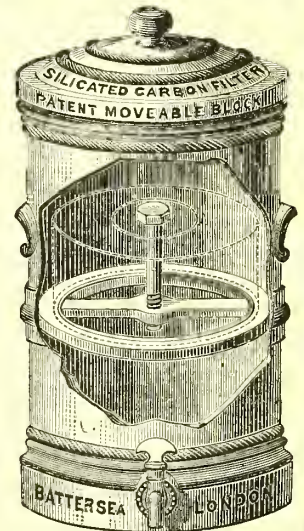


(Section.)

The Silicated Carbon Block can be instantly removed, leaving the whole of the interior of the Filter OPEN for inspection and cleansing.

The working parts are stone-ware, and no corrosion is possible.

No loose Pan or inner vessel to cause breakage.



LIBERAL DISCOUNT TO THE TRADE.

(Elevation with Block removed.)

Domestic Filters (as above), in Cream-coloured Stone-ware, with Plated Taps and Patent Movable Blocks:—

- | | | |
|---------|----------------------|-----------------------|
| No. 27. | O. ½ gal. 10/6 each. | D. 6 gals. 42/- each. |
| | A. 1 „ 14/6 „ | E. 8 „ 52/- „ |
| | B. 2 „ 21/- „ | F. 12 „ 70/- „ |
| | C. 4 „ 32/- „ | |

Dining Room Filters, in Marbled China, with Plated Taps and Patent Movable Blocks:—

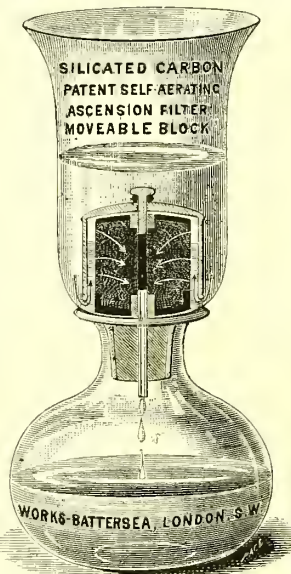
- | | |
|---------|----------------------|
| No. 22. | A. 2 gals. 35/- each |
| | B. 5 „ 80/- „ |

Refrigerative Terra Cotta, do. do.:—

- | | |
|---------|----------------|
| No. 25. | 2 gals. 31/6 „ |
|---------|----------------|

THE NEWEST AND MOST EFFICIENT TABLE FILTER.

The water ascends in the direction indicated by the arrows, and each time the top glass is filled the air under the porcelain cover is forced through the Silicated Carbon Block, which is thus automatically aerated.



By simply removing the glass peg the Silicated Carbon Block is at once released for cleansing or renewal.

The Carbon Blocks are efficiently cleansed by boiling, and extra blocks can be supplied with each Filter when desired.

No. 38.

PLAIN GLASS.

- | | | |
|--------------|--------|-----------|
| No. O—1 Pint | ... .. | 2/6 each. |
| „ A—2 „ | ... .. | 4/- „ |
| „ B—3 „ | ... .. | 5/6 „ |

No. 38.

ENGRAVED GLASS.

- | | | |
|--------------|--------|-----------|
| No. O—1 Pint | ... .. | 3/6 each. |
| „ A—2 „ | ... .. | 5/6 „ |
| „ B—3 „ | ... .. | 7/6 „ |

FOR FULL ILLUSTRATED LISTS WRITE TO THE

SILICATED CARBON FILTER COMPANY,
CHURCH ROAD, BATTERSEA, LONDON, S.W.

WHY SELL OBSOLETE GOODS ?

The old styles of Filters were very good in their time, but the discovery of JUDSON'S Filtering Medium, to take the place of the "WORSE THAN USELESS" Charcoal, has entirely put them out of the question for Domestic use.

JUDSON'S FILTERS AND FILTERING MEDIUM,

THE ONLY Filtering Medium that really Purifies Water, removing Impurities both in **SOLUTION** and Suspension.

Judson's "Galvano-Electric" Filtering Medium is used in all their Filters, and is **WARRANTED NOT** to contain Animal Charcoal or other deleterious matters.

WRITE FOR ILLUSTRATED CATALOGUE

DANIEL JUDSON & SON, LIM., SOUTHWARK ST., LONDON, S.E.

BISHOP'S GRANULAR EFFERVESCENT SALTS.

ESTABLISHED 1857.

THE LANCET, writing of Bishop's Preparations, says :—"Their excellence is well known."
The BRITISH MEDICAL JOURNAL says :—"The name of Mr. Bishop is a sufficient guarantee that the article is skilfully prepared."

Bishop's Granular Effervescent Citrate of Caffeine.

The Best Known Remedy for Headache. Sold in Bottles at 2s. 6d. each.

Bishop's Granular Effervescent Citrate of Potash.

Contains eight grains of this anti-febrile salt in each drachm.

Bishop's Granular Effervescent Mineral Water Salts.

Among the Mineral Water Salts thus prepared may be named, CARLSBAD, KISSINGEN PULNA, SELTZER, VICHY, LITHIA, FRIEDERICHSHALL, &c., &c. In each case a teaspoonful of the Salt in half a tumbler of water will produce a draught similar in effect to the natural water.

Bishop's Granular Effervescent Citrate of Magnesia.

A perfectly white and delicately clean preparation, prepared from Salts obtained from the Pure Fruit Juices of Lemons and Grapes. The best Chemists in Great Britain and the Colonies kept no other "Granular Effervescent Citrate of Magnesia" than "Bishop's."

Report on Mr. Bishop's Granular Effervescent Preparations. By Prof. Atfield, Ph.D., F.C.S., Professor of Practical Chemistry to the Pharmaceutical Society of Great Britain, Author of a Manual on General Medical and Pharmaceutical Chemistry.

Mr. Bishop's Granular Effervescent Preparations have been known to me for more than twenty years. The maker has submitted to me the formulæ for them ; I have seen them compounded at his factory ; I have more than once tested the materials he uses ; I have many times analysed the finished products. The formulæ are excellent, the ingredients pure, the processes perfect, the products all that can be desired.

(Signed) JOHN ATFIELD.

London, December 6, 1881.

Observe the name on the Seal, the Registered Trade Mark on the Label, and full address of

ALFRED BISHOP, Manufacturing Chymist, 17 SPECK'S FIELDS, MILE END NEW TOWN, LONDON.

Messrs. JOHN WYETH & BROTHER are Sole Agents in the United States for Mr. Bishop's Preparations, and keep Stock of all the above Products.

THE SPECIAL DISPENSING COUNTER.

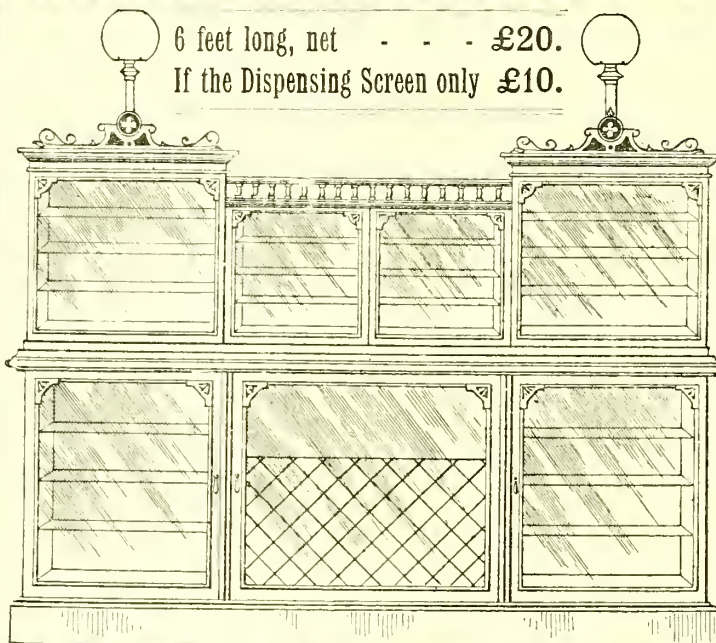
This DISPENSING COUNTER has been designed from the ideas of some of the leading Chemists and Dispensers in London.

It is manufactured in solid Spanish mahogany, and of best workmanship, so that it will stand any climate.

The counter has a solid mahogany top and plate-glass case front, the centre part fitted to take sponge.

A mahogany screen on top, consisting of plate-glass cases, with shelves inside; ornamental carvings and polished brass gas pillars complete.

The back of screen fitted with small shelves for dispensing bottles, and the inside of counter with strong counter drawers, label and cork drawers, &c.



6 feet long, net - - - £20.
If the Dispensing Screen only £10.



NOTICE TO THE TRADE.

In consequence of inferior Secondhand Goods being sold for our make, we have found it necessary to protect our reputation for best work with a Trade Mark, as above, and unless goods are so stamped we cannot be answerable.

BOWLING & GOVIER,

MANUFACTURERS OF HIGH-CLASS SHOP FITTINGS,
GUN STREET, BRUSHFIELD STREET, BISHOPSGATE.

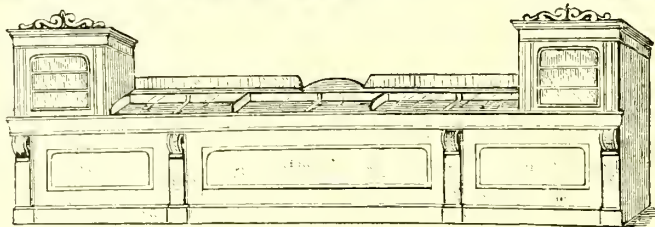
W. S. YATES

(ESTABLISHED 1864),

CHEMISTS' & GENERAL SHOP FITTER,

SHOP FRONT BUILDER AND GLASS SHOWCASE MAKER,
9 CAMDEN STREET, LIVERPOOL.

PLANS & ESTIMATES
supplied for Work
in any part of the
Kingdom.



ALTERATIONS
and REMOVALS also
Estimated for.

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- Messrs. KNOWLES & WRIGHT, Castle Street Liverpool.
- Mr. CRAWLEY, Rice Lane, Liverpool.
- " CALEY (2 shops), Stanley Road, Liverpool.
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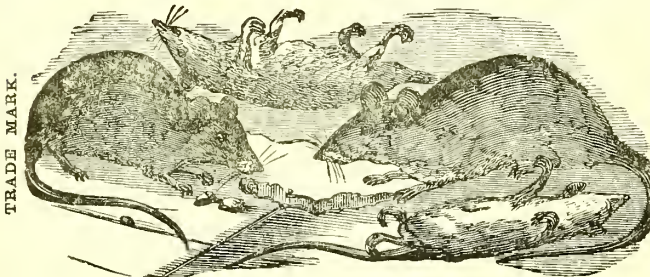
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I'm going a milking Sir she said.
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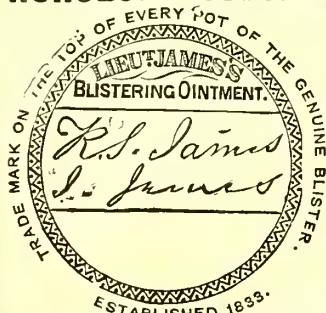
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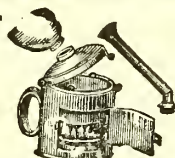
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July, 1886.

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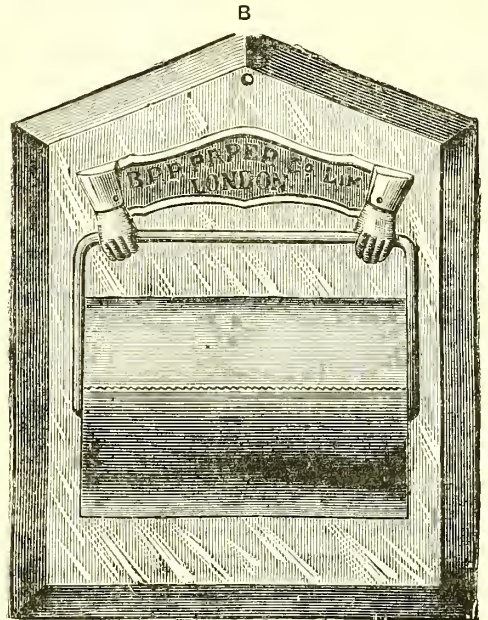
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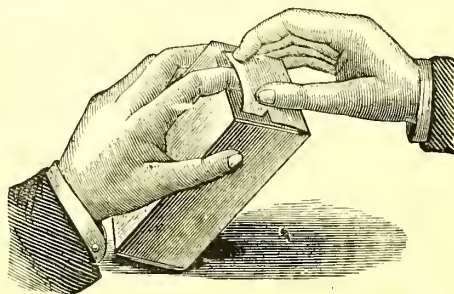
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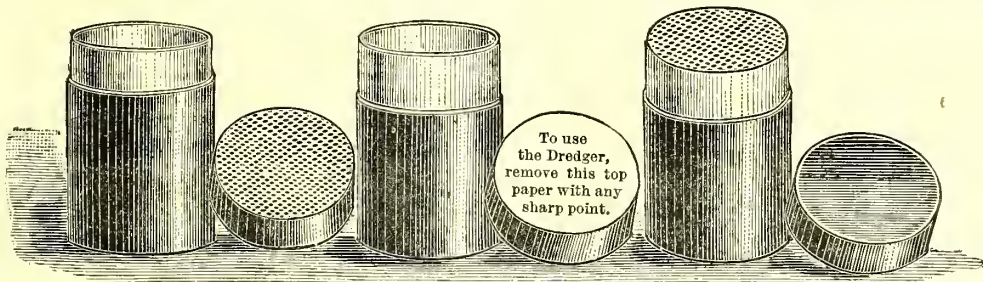
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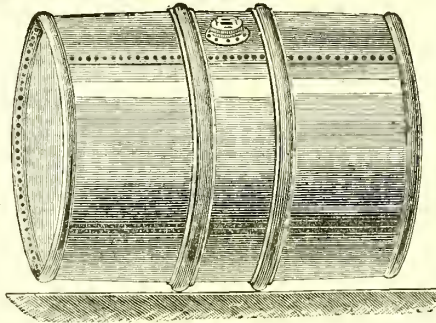
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SHERRY, for Pharmaceutical purposes 5/6 per gall.
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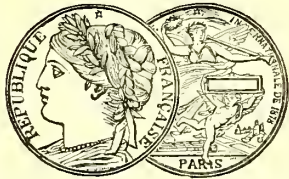
Liverpool, 1st July, 1886.

IMPROVED AND LATEST MACHINERY

PARIS, 1878.

FOR

VIENNA, 1873.



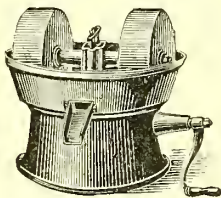
DRUG GRINDERS, WHOLESALE CHEMISTS & DRUGGISTS,



PAINT AND COLOUR MANUFACTURERS, AND OTHERS.

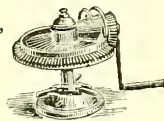
HAND EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



HAND MIXING AND CRUSHING PAN MILL.

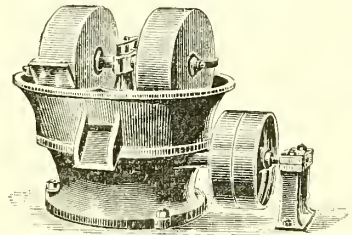
For Ointments,
Pastes,



Powders,
&c., &c.

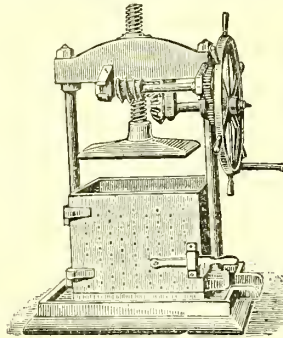
POWER EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



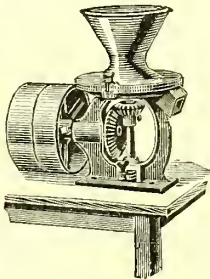
COMPOUND PRESS.

For Tinctures, &c. (made in Wood and Iron).



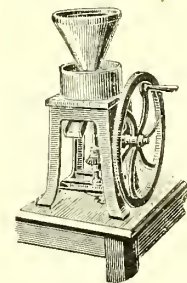
NEW DRUG MILL.

For Ginger, Roots, and all kinds of friable
materials.



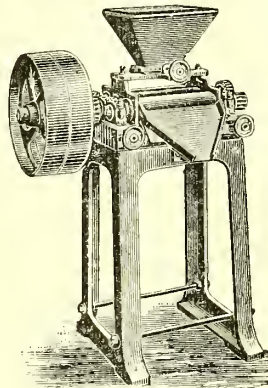
HORIZONTAL MILL

For Dry Powders.



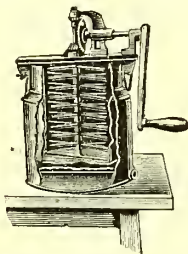
NEW GRINDING MILL

For Pastes, Colours, and Inks.



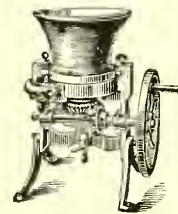
NEW HORIZONTAL MIXER,

For Amalgamating Compounds, &c. (made with
or without casing).



IMPROVED PAINT MILL.

For Mixing and Grinding Colours in Water or
Oil ready for use.



MACHINES FOR SPECIAL PURPOSES, EVAPORATING PANS, &c., MADE TO ORDER.

Prices and particulars on application to

FOLLOWS & BATE, LIMITED, Engineers, DUTTON STREET WORKS, MANCHESTER.

HYDROLEINE

The Marvellous Cleanser and Disinfectant.

WHAT THE MEDICAL PRESS SAY OF HYDROLEINE:—

“THE BRITISH MEDICAL JOURNAL,” Nov. 28th, 1885, p. 1,023, says:—

“The preparations of Hydroleine Disinfectants, just issued, seem to us to be of much importance, and to merit more than a passing notice. It is impossible to give a positive opinion without a prolonged trial extending over some months, but we entertain no doubt that they will soon come largely into use, and that they will in time rank as general favourites. The plan of supplying them in small boxes and tins, which can be purchased by the poor for a few pence, is certainly worthy of recognition. The Laundry Powder is especially valuable and cannot fail to be fully appreciated; whilst the Disinfecting Powders and Preparations for cleaning Brushes and Sponges are most useful. We have been much pleased with the results of our examination, and have much pleasure in recommending a trial of Hydroleine.”

“THE LONDON MEDICAL RECORD,” Dec. 15, 1885, p. 536; Edited by ERNEST HART, Esq.,
Chairman of the National Health Society.

“The new Hydroleine (Hydrated Soap Powder) is of considerable value for cleansing purposes, and is well adapted for use in the Laundry. It dissolves readily, forming a solution which lathers freely. It is useful for washing floors, tiles, marble, glass and delicate articles where the use of soap would hardly be admissible. For horses, dogs, sheep, and other animals, it is an excellent application, keeping them clean without trouble. An analogous preparation is the Hydroleine Carbolised Soap Powder, which is sold at a very moderate price, and is a powerful disinfectant. There are other Powders, intended for cleansing and reviving carpets, and for washing sponges and brushes. We have tried them all, and have no hesitation in saying that they are most efficacious. These Hydroleine Compounds are thoroughly reliable, and will come speedily into general use.

The following is a List of the Company's Manufactures:—

HYDROLEINE—Hydrated Soap Powder (Carbolized).

Specially prepared with refined Carbolic Acid, for Cleansing Bedrooms, Domestic Offices, &c., as a preventative of disease. In $\frac{1}{2}$ -lb. and 1-lb. Tins, at 4d. and 6d. each.

HYDROLEINE SANITARY DISINFECTING POWDER.

The Latest, Purest, and Most Powerful Disinfectant known. In Tins, 3d., 6d., and 1s. each.

HYDROLEINE CARPET CLEANSER AND REVIVER.

A novel preparation for Cleansing Carpets, &c., and reviving the colours. In Tins, 6d. each.

HYDROLEINE BRUSH AND SPONGE POWDER.

For Cleansing Brushes and Sponges. In Tins, 6d. each.

The Company are also Manufacturers of the following Specialities:—

HYDROLEINE (Hydrated Soap Powder) is supplied in $\frac{1}{4}$ -lb. (1d.) tin-foil packets

(with attractive labels) packed in 14-lb. boxes. The packets are also put up in parcels of a dozen, in 1-cwt. cases. It is also supplied in 2, 4, 7, and 14 lb. linen bags for larger consumers.

HYDROLEINE—For use in Laundries is supplied in casks holding 2 cwt., at 16s. 9d. per cwt.

N.B.—The whole of the above Preparations are handsomely got up, and form an attractive feature to any Establishment. Samples of all or any of the Company's Manufactures will be forwarded, carriage free, together with list of prices and trade discounts, on application to

F. J. HARRISON & CO., LIMITED,
Watling Street Works, Watling Street, Leicester.

PAM'S CLEANSING & DISINFECTING POWDER.

Free from Smell.
Perfectly
Harmless to
Animal Life.
No Soda
or Bleaching
Powder
required.
Excellent
Washing
Powder.
Does not Rot
Textile Fabrics,
nor Rust Steel
or Metal Goods.



DIRECTIONS FOR USE.

For Baths, ONE TEA-SPOONFUL in SIX GALLONS of Water.

For Washing, Cleansing, & Purifying Linen, Blankets, Flannels, Carpets, Paint, Windows, Milk Cans, Boilers, Cooking Utensils, Cisterns, and everything in Domestic use, dissolve ONE TEA-SPOONFUL in TWO GALLONS of Water.

For Cleansing, &c., Floors, Ships' Decks, Railway and other Carriages, Omnibuses, Cabs, &c., dissolve ONE TABLE-SPOONFUL in THREE GALLONS of Water.

For Extreme Purposes, such as Cleansing Type, Oiled Cotton Waste, Disinfecting Drains, Water-Closets, Urinals, Stables, Railway Trucks, Cattle Trucks, &c., TWO OUNCES to the GALLON may be used.

This is about the maximum effect; beyond this is simply wasting the material.

In all cases Rinse well with Clean Water afterwards.

For Disinfecting Noxious Smells, Dust Bins, Decaying Animal and Vegetable Matter, &c., distribute the Powder freely. Should the weather be very dry sprinkle slightly with water.

If the Powder should get hard or lumpy through damp it will readily dissolve in boiling water.

This new Cleansing and Disinfecting Powder is found to be invaluable for all Domestic purposes, namely, Bathing, Cleansing and Purifying Linen, Blankets, Flannels, Carpets; also for Cleansing Floors, Ships' Decks, Railway and other Carriages, Windows, Paint, Glass, Crockery, Milk Cans, Cooking Utensils, and Cisterns; it prevents corrosion in Kettles, Boilers, Pipes, Chamber Utensils, &c.

PAM'S POWDER Cleanses and Disinfects Water-Closets, Drains, Urinals, Stables and Cow-houses, Railway Trucks and Cattle Trucks.

PAM'S POWDER is an enemy to Grease and Dirt; is perfectly soluble in hot or cold water; has no smell; does not Rot Linen, or Rust Steel or Metal Goods of any description; will clean Silver and Plated Goods without Whiting or Plate Powder.

PAM'S POWDER is also invaluable for Washing all kinds of Animals—Cattle, Sheep, Pigs, or Dogs.

PAM'S POWDER is largely used for Washing Printers' Type, Rollers, Blankets, Machinery, &c. One Pound dissolved in a Quart of Boiling Water will make Six Gallons of Lye for all practical purposes of the Printing Office.

By using **PAM'S POWDER** Great Saving in Labour and Money will be effected.

CERTIFICATE FROM DR. KEMSHEAD.

I hereby certify that I have analysed and practically tested the powder known as "PAM." I find it to be a compound of the best materials for cleansing purposes, and to be perfectly harmless to articles of the most delicate texture, whether of Silk, Wool, or Linen. It also renders the hardest waters soft.

As a Disinfectant, it is Far Superior to and Cheaper than either Chloride of Lime or Carbolic Acid, while it is free from the unpleasant smell and other objectionable properties of those substances.

(Signed) W. B. KEMSHEAD, Ph.D.

Examiner in Chemistry to the College of Preceptors.

Late Professor of Chemistry, Dulwich College.

Dulwich, July 24th, 1885.

Trade Health, edited by Dr. ANDREW WILSON, F.R.S.E.

PAM'S CLEANSING AND DISINFECTING POWDER.—This is likely to prove a highly useful powder for general use under all circumstances in which a cleansing, detergent, and disinfecting material is required. It is free from all smell, is non-poisonous, and yet possesses qualities which render it valuable as an aid to cleanliness, and to the repression of noxious odours. As the result of testing its powers, we have found that this powder does not injure linen or other fabrics, and it can thus be advantageously employed in cleansing articles of delicate make. A solution of this powder poured down drains and closets acts effectively in destroying foul smells and in deodorising decaying materials. Its use may therefore be thoroughly recommended for household purposes. We may add that for the effective cleansing of the woodwork of rooms, &c., after being occupied with cases of infectious disease, "PAM'S POWDER" should be freely used. It is highly useful for such sanitary work. In the kitchen the use of this powder as an ordinary detergent is also to be advocated, and the fact that it does not rust or injuriously affect metal goods is a highly important feature, and one serving to commend it more forcibly to public and domestic favour. For cleaning engines, tricycles, &c., we strongly advise all interested in these machines to try PAM'S Powder.

SOLD BY DRUGGISTS, OILMEN, GROCERS, AND OTHERS.

Price 4d. per lb. in Boxes 1 lb. and upwards, also in Penny Packets; and in Casks, 28 lbs. and upwards, price 28s. per cwt. f.o.b.

JAMES T. DINSDALE & CO.

100 Upper Thames Street (near London Bridge), LONDON, E.C.

MACLEAN'S REVALENTA.

APPOINTED PURVEYORS TO GEORGE IV. IN 1825.

The Best, Cheapest, and most Wholesome Food for Invalids, Infants, and Convalescents. Suits the weakest digestion, and is much relished. Specially recommended by the Faculty. 2-lb. Packets, 2/ (retail). Agents wanted in every Town.

Edinburgh Depôt—MACLEAN & SON, 11 St. Andrew Street. Glasgow—Wholesale Depôt—51½ George Square.

Introduced 1855.]

ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.

One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.

Aqua Anethi, Concent., 4/ lb.	Aqua Cinna. Ver. Concent., 6/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/ lb.
" Anisi " 4 " "	" Cassia " 4 " "	" Mentli. Pip. " 4 " "	" Rose " 8/6 "
" Camphore " 4 " "	" Flor. Aurant. " 8/6 "	" Ang. " 6 " "	" Rose Virgin. " 10/6 "
" Carui " 4 " "	" Flor. Sambuci " 8/6 "	" Virid. " 4 " "	

The above are put up in Bottles of ½ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, July 15, 1882:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rose, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopœia. They are excellent in quality, and will be very useful, especially in country practice."

Wholesale Agents: HEARON & Co., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR, B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.



BEWARE OF THE PARTY OFFERING IMITATIONS OF

MACNIVEN & CAMERON'S PENS.

"They come as a boon and a blessing to men,
The Pickwick, the Owl, and the Waverley Pen."

THE "BIG J" PEN.

SOLD

THE "FLYING SCOTCHMAN" PEN.



2231 Newspapers recommend them.
"They are a treasure."—Standard.

EVERYWHERE.



"They eclipse all others."—Globe.

Specimen Box, containing all the kinds, by post, 1s. 1d.

MACNIVEN & CAMERON,

Penmakers to Her Majesty's Government Offices,

23 to 33 BLAIR STREET, EDINBURGH. (Estd. 1770.)

GEO. WATERSTON & SONS



SEALING WAX
QUILLS · QUILL PENS
and
STATIONERS' SUNDRIES

EDINBURGH

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Boxes ready made up, or the Patent Tops only (ready for making up), are supplied.

SELF-OPENING TIN BOX COMPANY

(GRIFFIN'S PATENT).

Albion Tin Works, York Road, King's Cross, London, N.

THE NEW TIN BOXES for all kinds of Hermetically Sealed Preserved Foods, DRUGS and CHEMICALS.

THE NEW TIN BOXES are as cheap as the ordinary Boxes, require no soldering up, and can be opened with a penny piece.

THE NEW TIN BOXES are being adopted by the largest Food-preserving Houses and CHEMISTS, to whom references can be given.

THE NEW TIN BOXES are also perfect for Tea and Coffee Canisters, Biscuit Boxes, Confectionery, Paints, Oils, Varnishes, Soaps, &c.

THE NEW TIN BOXES are described by the Times, Standard, Chronicle, Illustrated News, Engineer, Grocer, Oil and Colourman, and Press generally, as the "neatest and most elegant invention ever made."

AYRTON & SAUNDERS,

Designers and Manufacturers

OF

High-Class Artistic Specialities

FOR CHEMISTS AND DRUGGISTS;

WHOLESALE AND EXPORT DEALERS IN

PATENT LINT, PLAISTERS, AND COTTON WOOL,

MEDICAL GLASS BOTTLES,

SURGICAL INSTRUMENTS, TRUSSES, &c.

HARD AND SOFT WOOD TURNERS;

MANUFACTURERS OF ROUND, SQUARE, AND OVAL BOXES,

IN PAPER, WILLOW, AND CHIP;

IMPORTERS OF

AMERICAN, GERMAN, & FRENCH BOXES;

AND GENERAL DEALERS IN

DRUGGISTS' SUNDRIES of every description.

SPECIAL QUOTATIONS TO LARGE BUYERS FOR CASH.

WAREHOUSES—

149 & 153 DUKE ST.



FACTORY—

62 PARR STREET,

LIVERPOOL.

All Letters, Orders, &c., to be addressed to the Firm, 149 DUKE STREET.



AYRTON & SAUNDERS will be glad to undertake Foreign Agencies and Commissions, and to buy and ship for Firms who have no representatives in England, and as they keep themselves thoroughly abreast of the times their friends can rely upon being well posted up in all the Novelties and Specialities that are being constantly introduced.

EAU DE COLOGNE

OF THE MOST ANCIENT DISTILLER,

JOHANN MARIA FARINA,

Opposite the Julichs Place, COLOGNE.

ESTABLISHED A.D. 1709.

PRIZE MEDALS:—LONDON, 1851 AND 1862; OPORTO, 1865; PARIS, 1867; VIENNA, 1873.

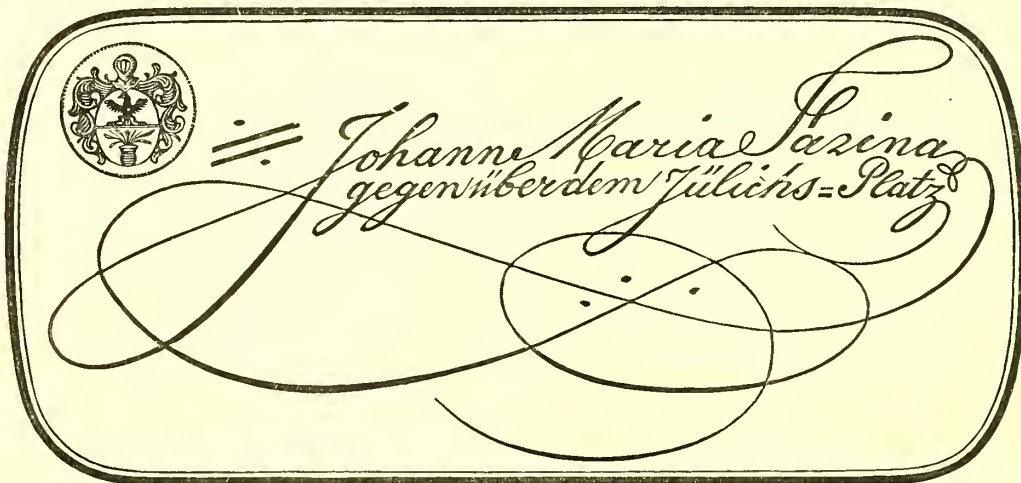
By appointment, Sole Purveyor to Her Most Gracious Majesty Victoria, Queen of Great Britain & Ireland; Their Royal Highnesses the Prince and Princess of Wales; William, King of Prussia;



Albert II., King of Saxony; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal; H.R.H. Frederick William, Crown Prince of Prussia.

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I beg to submit my Price Current.

At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the protection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been decided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

Orders equal to at least 12 dozen short bottles will be promptly executed at 12s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 7½ per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some London House, or permission to draw on same at three months.

The Goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland:—

MESSRS. J. & R. McCracken,

No. 38 Queen Street, Cannon Street, London, E.O.

The following are the sizes of my bottles:—

No. 1. Long Green Flasks	12 bottles	} to one dozen.
„ 2. Short White Bottles	...	...	...	...	...	12 „
„ 3. Double ditto	...	...	...	...	...	6 „
„ 4. Wickered Bottles (small)	...	...	...	...	...	8 „
„ 5. ditto (medium)	...	...	...	...	...	4 „
„ 6. ditto (large)	...	...	...	...	...	2 „

JOHANN MARIA FARINA,
OPPOSITE THE JÜLICH'S PLACE.

NEW AND IMPORTANT DISCOVERY.

GINGER ALE
FROM PURE JAMAICA GINGER.

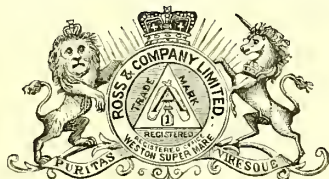
THE ROYAL YORKSHIRE GINGER ALE, from Pure Jamaica Ginger, is Non-Intoxicating.



ABSOLUTELY PURE.—See Analysis by Drs. J. H. HASSALL, M.D., and OTTO HEINER, F.C.S.

The difficulty of using Ginger in the Manufacture of "Ginger Ale," and at the same time having a CLEAR and SPARKLING DRINK, has, after much labour and expense, been thoroughly overcome by

MESSRS. HARSTON & CO., OF LEEDS



VINUM AURANTII.

SPECIALLY PREPARED FOR THE DISPENSARY.

Samples and Terms on application to

ROSS & CO., LTD.,
WESTON-SUPER-MARE.

HIGHLY COMMENDED BY THE "LANCET."

Colonial and Foreign orders promptly executed.

"laden with the scent of flowers,
And breath of odorous Spring."

SPINNER'S TEAS.

A company of Merchants are now selling through SPINNER & CO. the choicest Teas that come from India and China at 2/8, 2/4, 2/, and 1/8 a pound, in packets only. These are the perfection of Teas, and will please the most fastidious.—Agents wanted in every town and village. For Terms apply to SPINNER & Co., 60 Strand, London.

SPINNER & CO., London and Liverpool.

Telegrams—PACIFICUS, LONDON.

PEARSE & WHEATLEY, 42 MINCING LANE, LONDON, E.C.
WHOLESALE TEA AND COFFEE DEALERS.

SPECIAL BLENDS OF TEA— No. 1, 1/1 | No. 2, 1/2 | No. 3, 1/4 | No. 4, 1/6 | No. 5, 1/9 | No. 6, 2/ | X, 2/4

Duty-paid parcels in 20-lb. caddies or 56-lb. 1/2-chests. Carriage paid on 1/2-chests. Terms, net cash.

FINE COFFEES (Roasted)— 9d. | 10d. | 11d. | 1/ | 1/1 | 1/2 | 1/3 | Mocha, 1/4 | Finest Mysore, 1/5

In 28-lb., 56-lb., or 112-lb. bags; also supplied raw or ground. Terms cash, less 2 1/2 per cent. discount.

THE NEW FRENCH COFFEE **CAFÉ FRANÇAIS** To sell at 10d., 1/, and 1/4; in 1/2-lb., 1-lb., and 1-lb. Canisters.

FULL PARTICULARS, PRICE LISTS, SAMPLES, AND ANY INFORMATION ON RECEIPT OF TRADE CARD.

EXPORT DEPARTMENT.—Every variety of Tea or Coffee in bond. Shipped f.o.b. London against banker's credit or remittance. Samples, price current, and every information on application.

W. KEMP & SON,
IMPORTERS OF
HONEY & BEESWAX,
HORNCASTLE.

The Imports of New Crop Honies are now to hand, and include the finest possible qualities. Prices extremely low. Samples on application.

W. KEMP & SON,
LINSEED CRUSHERS,
HORNCASTLE.

Best Light Crushed Linseed, strictly pure.
Ordinary Crushed Linseeds.
Linseed Meal.
Samples and Prices on application.

SOFT SOAP

In Firkins, Half Firkins, and Barrels, also in Iron Drums for EXPORT.

THE UNION ACID COMPANY,
NEWTON HEATH,
MANCHESTER.

THE MORGAN CRUCIBLE COMPANY

(THE PATENT PLUMBAGO CRUCIBLE COMPANY)

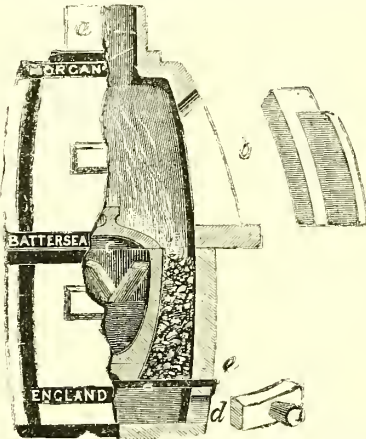
Sole Manufacturers of MORGAN'S and SALAMANDER CRUCIBLES.

PORTABLE FURNACES.

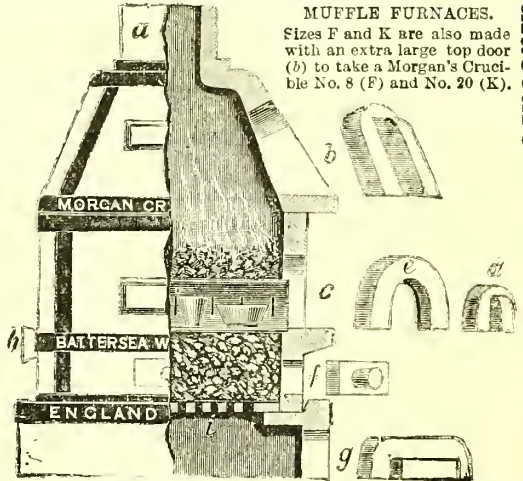
IRON BOUND. EXTERIOR DIMENSIONS.

For MELTING GOLD, SILVER, COPPER, &c.

For ASSAYING DENTAL WORK, &c.



a. Socket on which to fix iron chimney. b. Door for putting in crucibles and for cooking. c. Crucible. d. Door for regulating draft. e. Iron fire-bars.



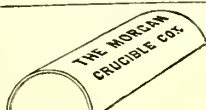
a. Socket on which to fix iron chimney. b. Door for fuel. c. Muffle. d. Door of muffle. e. Muffle arch. f. Door for turning fire. g. for muffle. i. Fire-clay grate.

MUFFLE FURNACES.

Sizes F and K are also made with an extra large top door (b) to take a Morgan's Crucible No. 8 (F) and No. 20 (K).

No.	Diam. in.	Diam. milli.	Height in.	Hauteur, milli.	For Morgan's Crucible No. 2	Price £ s. o.
A	9 1/2	235	17 1/2	445	1	0 0
B	9 1/2	248	20	508	1	5 0
C	11	280	22	559	6	1 0 0
D	13 1/2	349	26	660	8	2 5 0
E	14 1/2	369	28	712	12	3 0 0
F	18	457	32	813	16	4 0 0

Width and depth front to back		Largeur et profondeur		Width and depth front to back		Largeur et profondeur		For Battersea Muffles	Price
A	12 1/2	318	9 1/2	235	ABC D	£2	0 0		
B	13 1/2	337	10	254	BC D E	2	5 0		
C	14 1/2	369	11	280	C D E F H	2	10 0		
D	15 1/2	394	12	305	D E F G H	3	0 0		
E	16 1/2	414	12 1/2	324	E F G H	3	10 0		
F	17 1/2	445	13 1/2	350	F G H J	4	0 0		
K	23	585	19	483	K L	8	0 0		



MUFFLES.

With or without apertures.



No.	Long. in.	Wide. in.	High. in.	Price. per doz.	No.	Long. in.	Wide. in.	High. in.	Price. per doz.
A	7	3 1/2	2 1/2	12	G	11	4	3 1/2	21
B	7 1/2	4 1/2	2 1/2	15	H	10 1/2	5 1/2	3 1/2	25
C	8	4 1/2	3	18	J	12	6	4	33
D	8 1/2	5	3 1/2	21	K	14	8	5	48
E	9	5 1/2	3 1/2	24	L	15	9	6	54
F	10	6	4	27					

Sizes A to F, also K, are suited for the Furnaces of the same letters. G to L have one slit at back only. Muffles can be made of all shapes and sizes, suitable for Assayers, Enamellers, Dentists, &c. H is generally known as United States Mint pattern.

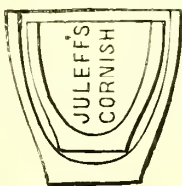
ROASTING DISHES.

Diam. in.	Diam. milli.	Per doz.	Diam. in.	Diam. milli.	Per doz.
2 1/2	64	1/3	4	102	1/9
3	77	1/6	5	127	2/

Larger sizes to order.

SCORIFIERS. (PER GROSS.)

Diam. in.	Diam. milli.	Price.	Diam. in.	Diam. milli.	Price.
1	26	3/	2 1/2	64	5/
1 1/2	32	3/6	2 3/4	70	6/
1 3/4	38	4/	3	77	7/6
2	51	4/6	3 1/2	89	9/
2 1/2	57	4/6	4	102	10/6



ASSAY CRUCIBLES.

FOR COPPER.

CORNISH FORM AND QUALITY (JULEFF).

Nest of Two	High. in.	Hauteur. milli.	Diam. in.	Diam. milli.	Price. per doz.
3 1/2	083	3	077	2	2/
2 1/2	064	2	051	1	1/

Single.. .. 2 .. 051 2 1/2 .. 064 1/ "

All sizes and shapes to order.



FOR TIN.

High. in.	Hauteur. milli.	Diam. in.	Diam. milli.	Price. per doz.
3 1/2	083	3	077	6/ per doz.

Covers, 2/ per doz.

FOR LEAD.

3 in. diam., .077 diam. milli, with Covers, 2/3 per doz. Other sizes to order.



FOR GOLD.

THESE ARE PERFECTLY SMOOTH AND OF THE CORRECT POROSITY.

No.	Diam. in.	Diam. milli.	Height in.	Hauteur. milli.	Per doz.
A	1 1/2	027	1 1/2	027	2/
B	1 1/4	032	1 1/4	032	2/
C	1 1/2	038	1 1/2	038	2/
D	1 1/2	045	2	051	2/

Covers for either size, 6d. per doz.



THE MINT OF THE UNITED STATES AT SAN FRANCISCO, OFFICE OF THE ASSAYER, SAN FRANCISCO, CAL., April 19, 1877.

SIRS,—I have tested and used the Assay Crucibles and Annealing Cups, and can with assurance recommend their superior quality and durability.

Respectfully yours, &c.,
O. D. MUNSON, Assayer.

AACHEN, July 23, 1880.
For several years past I have used Fire Clay Assay Furnaces, Muffles, and Crucibles made by the Patent Plumbago Crucible Co., Battersea Works, London, S.W., and am so thoroughly satisfied with them that I strongly recommend this manufacture to all laboratories, refiners, and smelting works.

(Signed) PROF. DR. DÜRRE,
Der Königl. Rheinisch Westfälischen Polytechnischen Hochschule.

NOTICE.—Care should be taken in all instances, when ordering, to specify the Crucibles, &c., manufactured by THE MORGAN CRUCIBLE CO. (Sole Manufacturers of Morgan's and Salamander Crucibles), Battersea Works, LONDON, S.W.

Sole Manufacturers of JULEFF'S Cornish Crucibles for Copper, Tin, &c.

COATE & CO.,

THE LONDON BRUSH WORKS,
AXMINSTER,
ENGLAND,

IN publishing their present Price Current, tender their best thanks for the favours received for a period of thirty-seven years. During which time, by the patterns registered and processes patented, namely, the White Enamelled Cement, the Machinery applied, the New Machines invented, &c., they believe they have taken the lead in improving the Manufacture of Tooth Brushes more than all the other Tooth Brush Makers in the world put together, whose main efforts seem to have been that of trying to imitate the style and patterns of COATE & Co., but with very imperfect success as yet.

For, as a true test of the superiority of their manufacture, COATE & Co. can say that at the present moment their customers are now supplying most of the crown-princes, and nobles of Europe with Tooth Brushes made by COATE & Co.

Such being our present position in the branch of manufacture, we beg to assure our friends and customers that no effort will be spared to hold our position and maintain continued support and approval.

We trust and think that the illustrations now issued will greatly assist our customers at the retail counter, and facilitate orders per letter at home.

The drawings of each pattern (Soft), V H (Very Hard), Y (for Yellow), out in Soft, Medium, and Hard, as usual.



If best Tooth Brushes are ordered better and more saleable variety of Brushes, Very Soft or Very Hard, Patterns can rely on having a nice COATE & Co. held in stock on J. made, yet the variety of Patterns, each Sort, Pattern, or Hardness.

THE FOLLOWING A LIST OF THE PRICES OF OUR MERCHANTABLE TOOTH BRUSHES:—

	PER DOZ.		PER DOZ.
Common Cemented	2/	Cemented, Superfine, stamped with Elephant	5/
Cemented	2/6	Warranted Best, stamped with Royal Arms	5/6
Cemented London	3/	Warranted Best Hair, stamped with Trade Mark...	6/
Cemented Improved	3/6	Extra Best, stamped with Trade Mark and "Coate & Co., London..."	6/6
Cemented Warranted	4/		
Cemented Warranted Extra	4/6		

ILLUSTRATED LIST SENT FREE ON APPLICATION WITH BUSINESS CARD.

N.B.—A Large Stock of all kinds of Tooth Brushes, Hair Brushes, &c., kept ready for Merchants' Shipping Orders.

VERNMENT DISINFECTANT

POWDER (PINK) in 1 Cwt. 2 Cwt. CASKS 1lb & 1/2 Packages

CARBOLIC SOAP No 1 & No 2

CARBOLIC & GLYCERINE SOAP in 1/4lb TABS

GOVERNMENT SANITARY CO., LONDON E.

TO BE HAD FROM ALL WHOLESALE DRUGGISTS.

AI in Quality.
AI in Style and "up."
AI in Therapeutic results.

So be sure to ask

AI Brand

MENTHOL CONES.

MENTHOL versus HOT WEATHER.

A Show-case, fitted with dummies, price 2s., given away with a 6 dozen order. Write for further particulars.

J. G. SHIRLEY, Proprietor, AI Brand MENTHOL, 30 Paternoster Square, E.C.

Write to-day for NEW PRICE LIST (sent post free on application). This will be found worthy the attention of all desirous of increasing their trade.

NITRO-GLYCERINE TABLETS,

Tabellæ Nitroglycerini, B.P. 1885 (Martindale).

By authority of the Council, the compilers of the British Pharmacopœia have adopted and made OFFICIAL Nitroglycerine Tablets, a perfectly fixed solution in the Chocolate. The Tablets are not prepared with Alcoholic solution of Nitroglycerine. They weigh ONLY 2 1/2 grains.

They are sold at the following REDUCED prices to the trade, subject:—

Boxes, Retail 2s. 6d. and 4s. 6d. each.
" Trade 24s. and 43s. per doz.

FOR HOSPITALS AND DISPENSING:

In Bot Retail, 1-oz., 6s. 6d.; 2-oz., 10s.; 4-oz., 16s.; 8-oz., 27s.; and 16-oz., 48s. each.
Trade, " 60s.; " 96s.; " 156s.; " 264s.; " " 480s. per doz.

W. MAINDALE, PHARM. CHEMIST, ORIGINAL INVENTOR—10 New Cavendish St., Portland Place, W.

THE ONLY PERFECT ENEMA OBTAINABLE.

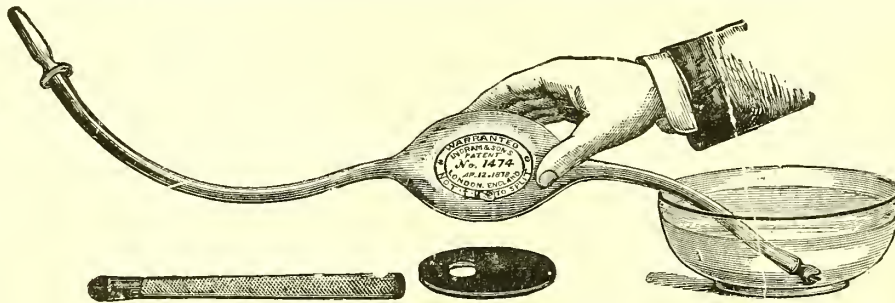
INGRAM'S IMPROVED HIGGINSON ENEMA AND SYRINGE APPARATUS

(BY ROYAL LETTERS PATENT).

Made without Seams or Ribs by our Patent Process of dipping in a solution of India Rubber, thus adding great strength and durability.

NONE GENUINE UNLESS STAMPED WITH NO. OF PATENT 1474.

CAUTION.—The only
Enema made without
Ribs.



All Imitations may be
detected by the Ribs on the
Surface, and are always
liable to split.

WARRANTED NOT TO SPLIT.

A.—Metal Pin Valve.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is perfectly smooth on the surface, will not become hard or sticky, will not leak, and will not admit air while injecting or refilling. Specially prepared to resist the heat of tropical countries.

The great superiority of INGRAM'S IMPROVED PATENT SEAMLESS ENEMA over all others has given rise to VARIOUS IMITATIONS, and it has become imperative that the Patentees should, in order to PREVENT DECEPTION, explain the PROCESS OF MANUFACTURE OF THEIR ENEMA and the MODE OF MANUFACTURE OF IMITATIONS thereof, as they have UNDENIABLE PROOF that INFERIOR ENEMAS are positively BEING SOLD as their "ADVERTISED" PATENT SEAMLESS ENEMA.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is made by a NEW PATENT PROCESS, viz. : By repeated dipping in a solution of India Rubber until the required substance is attained. This process adds greatly to its STRENGTH and DURABILITY, and, at the same time, dispenses WITH ALL SEAMS, which, as is well known, are weak points in an Enema. This improved mode of manufacture (the result of long study and experience) enables the Patentees to produce a PERFECT ENEMA WITHOUT SEAMS, thus overcoming the great fault to be found in ALL other Enemas, viz. : SPLITTING AND LEAKING, which has always been a source of trouble.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA is fitted with IMPROVED VALVES, which prevent the admission of air with the fluid and CAN at any time BE REPAIRED, if necessary.

CAUTION.—Imitations of INGRAM'S IMPROVED PATENT SEAMLESS ENEMA are made of several pieces of Sheet India Rubber, which are cemented together and shaped in a mould, THUS PRODUCING RIBS ON THE SURFACE, and ENEMAS SO MANUFACTURED ARE ALWAYS LIABLE TO SPLIT AND LEAK AT THE SEAMS, AND THUS TO BECOME QUITE USELESS.

INGRAM'S IMPROVED PATENT SEAMLESS ENEMA may be distinguished from ALL IMITATIONS by its ENTIRE FREEDOM FROM RIBS OF ANY DESCRIPTION on its surface, and by having an IMPROVED METAL PIN VALVE at the suction end A ; and it is acknowledged to be the ONLY PERFECT ENEMA OBTAINABLE.

Patented in England, No. 1474, April 12, 1878; in France, No. 126,909, October 11, 1878; and in America, No. 212,939, March 4, 1879.

To be obtained of all Surgical Instrument Makers, Druggists' Sundriesmen, Chemists and Druggists, in the three following qualities:—

No. 1a. Highly Polished, in Red, Green, Blue, Black, or White.

No. 1b. Unpolished, in Red, Green, Blue, Black, or White.

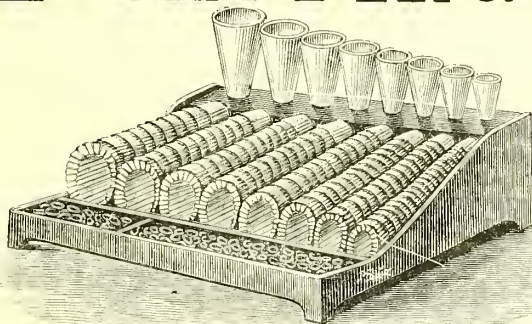
No. 2. Unpolished, in Drab only.

Favourably noticed in "British Medical Journal," December 13, 1879; in the "Lancet," January 3, 1880; and in "British Medical Journal," September 30, 1882.

HUNT'S BOTTLE CAPPING TRAY.

In Cast Iron
Japanned Black.

Price
Six Shillings.



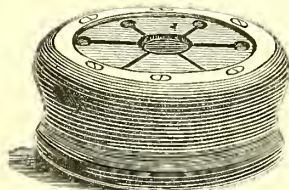
Dimensions
12 in. by 9 $\frac{1}{4}$ in.

Weight 9 lbs.

For holding a provision of all sizes of Pleated Paper Bottle Caps with the Sticks and Indiarubber Bands.

HUNT'S BOTTLE CAPS 1s. per gross.

HUNT'S BOTTLE HOLDER.



Keeps the bottle or phial upright and steady while dispensing or capping. Permits of free handling without the fingers coming in contact with the glass. It is slipped over the bottle as shown beneath.

USEFUL IN
MANY WAYS.

WILL SUIT
VARIOUS SHAPES.



MADE IN THREE SIZES :

SMALL, for 1 & 2 ozs. | MEDIUM, for 4 & 6 ozs. | LARGE, for 8 & 10 ozs.

Prices, 1s., 1s. 3d., and 1s. 9d. each.

SOLD BY ALL WHOLESALE DRUGGISTS AND SUNDRIESMEN.

MANUFACTURERS :

W. F. HUNT & CO., London and Marseilles.

HOMŒOPATHIC MEDICINES PUT UP READY FOR SALE, OR IN BULK

(In 2, 4, 8, and 16 oz. Bottles. Tinctures or Pilules).

CAMPHOR PILULES,

In 1-oz. Vials, Retail 1s. ; per Dozen, 3s. 9d.

SEND FOR OUR WHOLESALE PRICE LIST.

KEENE & ASHWELL,

MANUFACTURING HOMŒOPATHIC CHEMISTS,

Successors to HEADLAND & CO., Established 1835,

The **FIRST** Established Homœopathic Chemists in Great Britain.

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