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THE NEW ANTIPYRETIC

PHENACETINE-BAYER

(Para-Acetphenetidine)

O.C₂H₅

C₆H

NH (CO-CH₃)

MANUFACTURED BY THE

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THERAPEUTIC PROPERTIES.

In healthy persons Phenacetine, according to Dr. Köbler, does not produce any ill-effects in doses of fro 0,5—0,7 grm. (8—12 grains); but in all cases of pyrexia even relatively small doses of 0,3 grm. (5 grains are never without perceptible antipyretic effects. To adults it is best administered in single doses of 0,6—0, grm. (10—12 grains), instead of smaller ones given repeatedly; no disagreeable after effects, such as nause vomiting, or cyanosis, were ever observed in 50 cases presenting various febrile conditions. On the contrary at fever temperatures of 39.5—40.5 C. (103.1—104.8 F.) a reduction of 1.5—2.5 C. (2.7—4.5 F.) invariable ensued; the reduction is usually gradual, reaching its maximum in 4—6 hours, the rise is likewise gradual extending over 8—10 hours. Decrease of temperature (Apyrexy) is usually obtained without sweat secretions but the pulse improves and a pronounced euphoria ensues.

Phenacetine does not cause any disagreeable symptoms in healthy persons even in doses of 1-2 grm (16-32 grains); in 20 cases (12 adults and 8 children) in which it was administered it proved to be a quickly and energetically acting antipyretic. Nausea, vomiting, cyanosis, collapse, or other disagreeable after effects never occur. Dr. Hoppe fully confirms Dr. Kobler's statement as to the gradual fall and very slow rise of fever temperatures. Both investigators agree that Phenacetine produces **Apyrexy** as surely as any other antipyretic.

FOR CHILDREN.—In eight cases reported upon by Dr. Hoppe, Phenacetine acted energetically as an antipyretic of children in doses of 0,2—0,4 grm. (3½—7 grains) without causing any disagreeable symptoms, and Dr. Sluyter in Barmen has recently given it to young children in doses of 0,5 grm. (8 grains); he obtained by its administration not only the desired antipyretic effect, but also a condition of evident comfort and quiet.

NEURALGIA. — Besides its antipyretic effects, it possesses eminently antineuralgic properties. Dr. Hoppe published 15 cases of severe cephalalgia and megrim, where Phenacetine produced an effect which was most beneficial and, at the same time, most astonishing. It should also be mentioned that Phenacetine was of special value in a case which had previously, but unsuccessfully, been treated by Antifebrin and Antipyrin. In such larger doses as 1—2 grm. (16—32 grains), given several times a day, Dr. Hoppe has found Phenacetine to be an excellent antineuralgic; it does not act quickly, but surely (generally in 1—2 hours), without causing any ill effects. On this point Dr. Heusner also says:—

"Phenacetine promises to become a most valuable addition to therapeutic agents, owing to its beneficial influence on the nervous system. It is not a narcotic like morphia, but acts, as Dr. Hoppe also observes, similarly to Antipyrin, and is more comforting and pain-allaying. Its wonderful anodyne effect is shown in cases of neuralgia and other derangements of the nervous system arising from reflectant irritation or general nervousness. I have prescribed it almost daily in megrim, gastralgia, ischias, insomnia, &c, caused by diseases of the uterus, the kidneys, or by overwork, &c, and have frequently heard it highly and enthusiastically praised. In insomnia caused by over-work and nervous excitement I myself have taken doses of 1 grm (16 grains) with the best result. Phenacetine, contrary to quinine, bromide of potassium, and the narcotics proper, does not cause lassitude or other disagreeable symptoms, and is easily taken on account of its tastelessness. As it promises to become an important remedy in many hysterical, neuralgic, and other nervous disorders, I do not healtate to predict for it in this respect a distinguished place among therapeutic agents."

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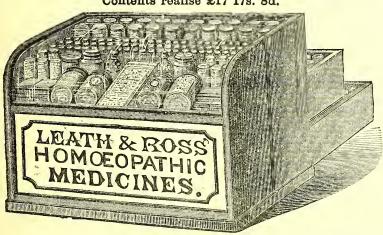
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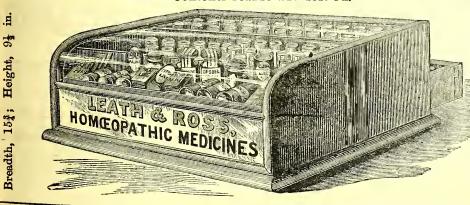
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MARCH 1, 1888.

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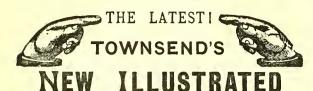
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See page 63 (bottom folio) for particulars of

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Vide Correspondence in 'CHEMIST & DRUGGIST,' Oct. 8,1887.

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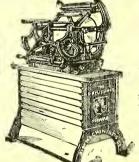
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Mahogany dispensing screen with glass c &c., about 7 feet; send sketch, length, d height. Illsley, Barnard Castle.

Old gold, platina, silver, or dental mctals; most value in cash, or bigh class mech cal work. Entwise, Deutist, Shaw St.

Chemist and Druggist, No. 10 (Oct., 1873); 363 and 368 (April 2 and May 7, 18; 1878, Vol. 20, Nos. 1, 2, 3; 1835, Vol. Jan. 15. State price only. 207/28.

8



The accompanying cut represents a facsimile of our Pound Bottle, containing luid ounces, with elongated and etched stopper for trying the odours. We have a nged our Perfumes into ranks according to popularity and demand; those h ng the most ready sale comprise the first rank, then, next in order, the second ri, then the third rank. This plan gives the Druggist at a glance a more corehensive idea of our line, and also enables him to make his selection accordir to the general popularity of the odours. We would always advise a full line of the perfumes kept in stock, as the second and third ranks contain many

ours desired by persons of special tastes, and, while they are nigenerally of as ready sale as those of the first rank, yet th are always staple. The goods are all made of the same dee of strength, and are intended to be of equal desirability, yesome will take precedence in popular favour over others. Wnake only the finest quality of Perfumes, which are especially degreed to meet the demand of the best drug trade throughout th world.

PERFUMES

C THE FIRST RANK POINT OF POPULARITY.

ady of the Lake. Vhite Lilac. Vhite Rose. Ieliotrope. ockey Club. ew Mown Hay. ily of the Valley. rairie Flower. Vild Lotus. ueen of May. lyrtle Bloom. lang Ylang. tephanotis. iolet.

PERFUMES

O THE THIRD RANK I POINT OF POPULARITY.

P chouly. Re Geranium. To Rose. Ridoletia Nat Blooming Cereus. E Bouquet. Miefleurs.

Illustrated Catalogue finished upon application.

PERFUMES

OF THE SECOND RANK IN POINT OF POPULARITY.

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

PRICE LIST.

			Per doz
	z., assorted	l odours	8/
ā,,	,,	,,	14/
14,,	"	,,	20/
$2\frac{1}{4}$,,	,,	"	32/
31,,	"	"	42/
41,	"	"	62/
9,			112/
18,	"	,,	216/
1 ,,	,,		rist 16/
Small	trial size		
Large	trial size,	, per gre	35/
Large	, ,, ,,	39	99/

Perfumes combine richness of fragrance with delicacy and ermanence of odour. They may be handled and retailed eith from bulk or in small packages, both in cold and warm clin es, without appreciable deterioration of quality. They take 1e lead and enjoy the preference in all countries wherever intruced.

I ing to receive your orders, we are,

Yours very respecfully,

For the Handkerchief

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

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, 1878.

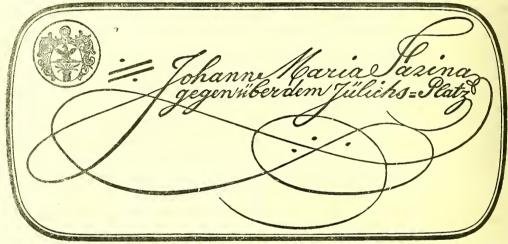
Sy appointment, Sole Purveyor to Her Most Gracious Majosty Victoria, Queen of Great Britain & Ireland; Their Boyal Highnesses the Prince and Princess of Wales; William, King of Prussia;



Albert II., King of Saxony; Alexander II., Empero of Russia; Francis Joseph, Emperor of Austria Lewis, King of Portugal; H.R.H. Frederic William, Crown Prince of Prussia.

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, 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 bedecided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all personselling 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 the has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancest.

Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against r

Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against result drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterda, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extends 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 sol 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 particular 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.

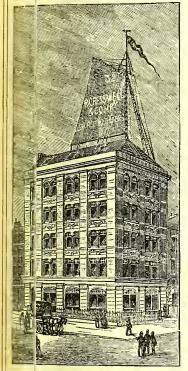
COLOGNE: January, 1838.

JOHANN MARIA FABILIA.

OPPOSITE THE JÜLICHS PLACE

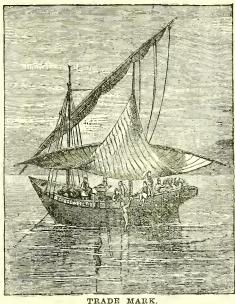
SPONGES.

- Ediodorial indi-





RECEIVED
HIGHEST
AWARD
AT THE
ADELAIDE
EXHIBITION,
1887.



BRANCHES:

GLASGOW.
DUBLIN.
LIVERPOOL.
PIRÆUS.
SMYRNA.
HAVANA.
NASSAU, N.P.

R. GRESSWELL & GO., LIM.

32 RED LION SQUARE, LONDON, E.C.

MR. R. CRESSWELL, Managing Director.

is Business was established in 1850 by Mr. R. Cresswell, the senior partner of the well-know firm of R. CRESSWELL & CO., now carried on as a Limited Company, of which Mr. R. Creswell is th Managing Director.

R. CESSWELL & CO., LIM., can supply Sponges of every quality YIELDING MUCH BETTER VALUE than those offered by other firms.

We ave had OUR OWN STAFF on the Mediterranean and Bahama Fisheries for the last 30 YEARS and fear NO COMPETITION.

SECIAL LINES NOW ON SHOW SUITABLE FOR THE APPROACHING SEASON.

LLUSTRATED PRICE LIST POSTED ON APPLICATION.

PLEASE NOTE STYLE AND ADDRESS:

R CRESSWELL & CO., LIMITED,

32 RED LION SQUARE, LONDON, W.C. ESTABLISHED 1850.



WOOD VIOLET.

H.R.H. The Princess of Wales.

H.R.H. Princess Christian.

J. and R.H. the Crown Princess of Germany

H.I. and R.H. the Crown Princess of Germany. II.R.H. the Princess Louise (Marchioness of Lorne) II.R.H. Princess Henry of Battenberg. II.R.H. the Duchess of Teck, &c.

EDWIN R. BIGGLESTON S
HELIOTROPE ESSENCE

The Queen, the Ladies' Newspaper, remarks; "Edwin R. Biggleston's Hellotrope Essexe is delicate and durable; can be well recommended."

In Bottles, 1/6, 2/6, 5/6, 7/6, 10/6, and 21/.

FDWIN D DICCI PSTON

EDWIN R. BIGGLESTON, CANTERBURY.

PRIZE MEDAL, CALCUTTA EXHIBITION.

BRECKNELL'S SKIN SOAP

IS THE BEST AND MOST SALUBRIOUS SOAP IN USE.

BRECKNELL'S SADDLE SOAP

Used in the Royal Stables, by the Army, and in Hunting Establishments.

THE BEST ARTICLE FOR THE PURPOSE.

BRECKNELL, TURNER & SONS, 10 THE QUEEN, &c., HAYMARKET, LONDON.

SEE INDEX, PAGES 23-25.

SHIPKOFF & CO. OTTO OF ROSE

MANUFACTURERS & MERCHANTS, KIZANLIK, BULGARIA.

VIRGIN OTTO ONLY DEALT IN.

GEO. P. BAKER, 19 Ivy Lane, Newgate St., London, E.C.

E. FOUGERA & CO.,

No. 80 NORTH WILLIAM STREET, NEW YORK, U.S.A.,

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

AGENCIES AND CORRESPONDENCE SOLICITED.

HIGH-CLASS PERFUMERY

"Messrs. J. Atkinson & Co.'s Perfumes are in aroma and strength particularly fine." Chemist & Druggist,
Jan. 29, 1887.

& GU

Proprietors of REGISTERED

"ZENITH"
BRAND PERFUME

Samples and quotations on application, at their only address,

5 FINSBURY SQUARE, LONDOL

ASTA IV

TRADE MARK.

By using this new a excellent preparation most delicious BAT AND TOILET WATE will be obtained.

Pasta Mack SOFTENS the WATE and

BEAUTIFIES COMPLEXION

Of all Chemists and Perfumers.

Sole Manufacturer, H. MACK, ULM a/D.



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DE

MATIÈRES PREMIÈRES (D) PARFUMERIE.

PARFUMERIES DE SEILLANS

(VAR, FRANCE).

Flower Pomades. Perfumed Oils. Flower Extracts
Essential Oils. Distilled Waters, &c., &c.

OF ALL WHOLESALE DRUGGISTS, OR WHOLESALE ONLY OF

R. C. TREATT, Dunster House, Mincing Lane, London

EWEN'S GUARANTEED LARD PURE Trade Mark.



ONDO

FOR OINTMENTS, &c.

Adeps Præp. Adeps Benz.} EWEN'S

Can be obtained through any WHOLESALE HOUSE. Facsimile of I. and Deer Suct and Beef Miles

Mutton, Beef, Yeal, and Deer Suet and Beef Marrow Clarified Trotter and Neats' Foot Oil.

riety TOILET SOAP 68/ to 22/
per owt.

Clarified Fat Work
Perfumery and
Toilet Soap Factory,

5 HATFIELD STREET, LONDON, S.E.

YEST.

HEAD-QUARTERS FOR SPONGES.



NEW ADDITIONAL PREMISES.

In consequence of great increase of business, CRESSWELL BROTHERS have taken an additional Warehouse at No. 1 Red Lion Square, next to their present premises. The additional Show Rooms now at their disposal will enable them to better display their unrivalled Stock, which is the largest in the World.

SPONGES FOR THE SUMMER SEASON.

CRESSWELL BROTHERS make a speciality of the best Toilet and Bath Sponges, both bleached and unbleached, for Druggists. All buyers who require Sponges of good shape, good texture, and strong fibre will find that Cresswell Brothers' goods combine those characteristics. A considerable saving will be effected by dealing direct with Cresswell Brothers, as they are the only firm who can place their goods straight into the shop of the retailer from the hands of the fishermen.

SAMPLE CASES SENT ON APPROVAL.

uying Establishments at Ægena & Hydra, Greece; Calymnos & Smyrna, Turkey; Nassau, Bahama Islands; & Key West, Florida

SOLE AGENTS FOR THE CUBAN SPONGE FISHING COMPANY.

Branches at 3 ALBION CRESCENT, GLASGOW; 11 WETERINGSTRAAT, AMSTERDAM.

GOVERNMENT CONTRACTORS.

AGENCIES IN ALL THE MOST IMPORTANT EUROPEAN AND COLONIAL CENTRES.

WRITE FOR NEW EDITION OF ILLUSTRATED PRICE LIST.

CRESWELL BROTHERS, 1 & 2 Red Lion Sq. (next to Church), LONDON, W.C.

No connection whatever with a Company trading under a similar name in the same square.

RANDALL'S **ACK CURRANT LOZENGES**

Plain Black Current, old square 2/6 Plain Black Currant, rough oval 2/6 Black Currant and Ipecacuanha 2/6 Black Current and Tannin .. 3/

Black Current astringent) Black Current Cough Lozenges* 3/6 *Ipecac. & Morph., strength as "B.P."

Iu Bot[†]les, 1-lb., 2-lb., 4-lb., and 7-lb. For Exportation, in Soldered Tins, of any size. From EDWARDS, London, or SANGER & SONS; through any Wholesale House; and from the Manufacturers,

RANDALL & SON, SOUTHAMPTON.

Who will forward Samples by post on application.

Also Brown Cough Lozenges, 2/; 7 lbs. stamped with name free, and Musk Lozenges (Special), 2 6.

N.B.—Medical Lozenges of every kind, including those of the Pharmacopæia of the Hospital for Diseases of the Throat, London, made with Black or Red Current



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

The most efficacious antacid and mild aperient for Delicate Constitutions. Ladies, Children, and Infants.

ALL WHOLESALE DRUGGISTS

BEVERAGIS. TEMPERANCE

A Sixpenny Bottle of

EXTRACT OF

Will make 8 gallons of sparkling, wholesome, and refreing

PRIME HERB OR BOTANIC BEF.

Unequalled in strength and richness of flavour by any preparatio made from fresh herbs.

The Extract is very carefully manufactured, on the most impred scientific principles, from the herbs and plants gathered and dried the proper season, when their virtues are in full vigour, thus retaining heir invigorating and health-giving properties.

It makes an excellent beverage, giving uatural flavour and co'o and a sparkling foam like bottled ale.

In Bottles, 6d. to make 8 gals.; 1s. to make 18 gals.; d 2s. 6d. to make 50 gals.

GINGER

makes a sparkling, refreshing, and invigorating beverage for summer and winter.

SPARKLING FOAM PRODUCK.

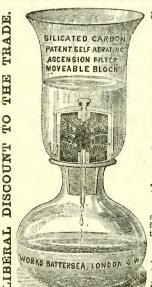
Oue tablespoonful added to 2 gallons of the Herb Beer or Ginger e, just before bottling, gives a creamy foam like bottled ale.

Wholesale Agents,

W. ELWARDS & SONS, Queen Victoria St., Loid.

Specially favourable terms to large Buyers from the PROPRIETOR,

Mansfield, Nots. ADAMS.



So commonly the result of Drinking Unfiltered Wate is rendered

IMPOSSIBLE

BY USING

Through which no particle of Lead can pass. is attested by the leading analysts of the day. "The most remarkable property of the Silicated Carbon Filter appears when its filtering power is tested in the removal of Lead from solution. . . I wish to dwell with the utmost emphasis upon the value of these Filters for removing Lead."

H. C. BARTLETT, Ph.D., F.C.S

The Silicated Carbon Block can be Instantly Removed, leaving the whole of the Filter Open for Inspection and Cleansing.



Domestic Filters.

Glass Table Filters.

FOR PRICES AND FULL PARTICULARS, WRITE TO THE

FILTER CO., BATTERSEA, LONDON, S./.

3Y ROYAL LETTERS PATENT.

HASSALL & CO.'S INOSPHO-GITRIG AGID

I the Best, Purest, and most Economical Agent for Acidulating all Saccharine Beverages.

Price only 10d. per lb., in 9 and 18 gallon casks; 1s. per lb. in small quantities.

On Ounce Measure is equal to One Ounce of Citric. It produces a higher class Beverage, and shows an economy of between £6 and £7 per cwt. Ve do not ask for an order, we merely solicit the favour of a trial.

3-oz. Sample for Postage (3 stamps), or 14 lbs. on approbation.

PAMPHLET GRATIS.

UNSOLICITED TESTIMONIALS.

LEMON STREET, ABERDEEN.

I have pleasure in hearing testimoup to the fact that first-class waters are produced, with greater hody and finer fruity flavour, at half the cost of LEAD, generally found in the crystals.

I am persuaded that your Acid will ultimately command the Mineral Water Trade.

Yours faithfully, WM. THOMSON.

"And may I also he permitted to add my testimony to the excellence of your Phospho Citric Acid; I consider it far and away preferable Co. H. ORTON, STOKE GOLDING.

FERMENTATION.

Wen Fermentation is present, Saccharine Beverages made win this Acid will keep sound and bright several days longer than those made with Crystal Acids.

HASSALL & CO.

YORK ROAD, KING'S CROSS, LONDON.

TELEGRAMS:-"REMPUJARON LONDON."

ESTABLISHMENT OF BOULEVARD VOLTAIRE, 162 & 164, PARIS

GOLD & SILVER MEDALS



AT ALL EXHIBITION.

SYPHONS

OF ALL MODELS

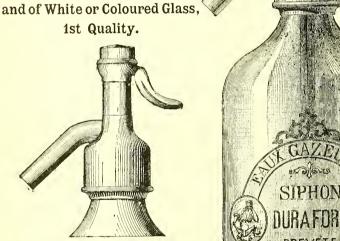
Made of Bright or Ordinary Metal.

PATENTED.

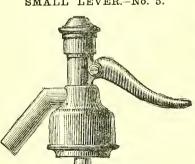
APPARATIS

POWDERS

To Make Seltzer and Vhy Waters, &c., &c.



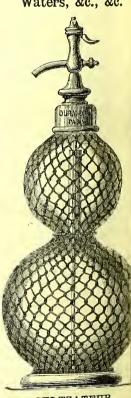
SMALL LEVER.-No. 5.



LARGE LEVER.-No. 10.



SMALL LEVER.-No. 1.



SELTZATEUR.

New Patent Syphons with TUBES entirely made of CRYSTAL for Lemonade and Potash or Soda W. T.

We beg to call the attention of our numerous customers to the quality of the material employed in the manufacture of our S hons.

In the bright quality not a particle of lead is employed. The crystal is of the very best quality; each Syphon is guaranted to be tested before leaving our works.

SODA WATER MACHINES.

FILLING MACHINE

Large Discount for Quantities. Our General Catalogue and List Price will be sent free on application.

JEWSBURY & BROWN'S

(MANCHESTER)

SIARKLING TABLE WATERS,

UNRIVALLED FOR PURITY AND QUALITY.

ODA WATER.

SLIZER WATER.

PUASH WATER.

LIHIA WATER.

SIMPLE AËATED (WATER.



LEMONADE.

GINGER ALE.

QUININE TONIC.

GINGER BEER.

HOREHOUND BEER.

EXTRACTS FROM ANALYTICAL REPORTS.

"The extraction of the Waters which I have made has satisfied me that they have been pared with the greatest care, and are of excellent quality."
FRANCIS JONES, F.R.S.E., F.C.S.
"On the wile, I have no hesitation in stating that your Aërated Waters are of the highest indard 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. ESTOUER, F.C.S., F.C.I.

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

113 ARKET STREET, and 44 DOWNING STREET, MANCHESTER,





FIRE!! FIRE!!

FOSTER'S PATENT NOZZLE

For Converting Syphon Bottles immediately into

FIRE EXTINCTEURS.

In Fancy Boxes containing 1 doz. Nozzles, 18/ each. Trade Discount, 33\frac{1}{3} per cent.

Handsome Showcard and Handbills given gratuitously.

Every room in every house should have a Syphon Bottle fitted with a Nozzle, ready for immediate use. It forms the Simplest and most Reliable Fire Extincteur ever invented.

Price1s. 6d. each.

BARNETT & FOSTER, Manufacturers, "Niagara Works," 26 Eagle Wharf Road, LONDON, N.

PRIZE MEDAL, International Health Exhibition, 1884. AWARD OF MERIT, International Medical and Sanitary Exhibition, London 81.

VAN ABBOTT'S GLUTEN BREAD,

AND ALL SUITABLE FOODS FOR DIABETIC PATIENTS.

VAN ABBOTT'S ELIXIR of SACCHARIN and SACCHARIN PERLES for SWEETENING EA, COFFEE, &c., are perfectly harmless to DIABETICS and all to whom Sugar is injurious.

G. VAN ABBOTT & SON are Manufacturing GLUTEN CAKES, BISCUITS, &c., SWEETHED with SACCHARIN for DIABETIC PATIENTS.

Full particulars on application. PAMPHLET, with DIABETIC and other DIETARY TABLES, COOKING RECEIPTS, Price List, &c., Pos ree.

G. VAN ABBOTT & SON,

DIABETIC, INVALID, and INFANT DIETETIC DEPOT, 5 Princes Street, Cavendish Sq., LONDO, W

THIRTY-SIX PRIZE MEDALS AWARDED TO THE FIM,

FRYS

Pure Concentrated

Frepared by a new and special scientific process securing extreme solubility, and developing the finest flavour of the cocoa.

GOLD MEDALS
EDINBURGH AND LIVERPOOL EXHIBITING



TRADE MARK.

J. S. FRY & SONS, BRISTOL, LONDON, & SYDNEY, N.SW.

BRAND & CO.'S PEPTONES

BEEF,
MUTTON,
VEAL.

AND

CHICKEN

CONCENTRATED OF BEFF OF MUTTON & CHICKEN BROTHS;
TURTLE SOUP & JELLY, CALFS FOOT — CHICK
SOLE ADDRESS.
JELLY, MEAT LOZENGES 11 LITTLE STREET. MAYEAR W. (C.

To H.R.H. The Prince of Wales, The Empress of Germany, &

NESTLE'S MILK FOOD FOR INFANTS

ALSO WELL ADAPTED FOR CHILDREN AND INVALIDS.

Prepared at VEVEY, SWITZERLAND

The only Perfect Supplement and Substitute for Mother's Milk.

Easy of Preparation—requires merely the addition of water.

UNIVERSALLY RECOMMENDED BY PHYSICIAS.

18

HOBROOK'S WORCESTERSHIRE SAUCE HOBROOK'S LONDON RELISH HOBROOK'S PURE PICKLES

THE BIRMINGHAM VINEGAR BREWERY COMPANY, Limit d, have for many years been the Sole Manufacturers of the articles.

The attention of the Company having been drawn to certan advertisements and other documents which have been circulated in the Trade, that the Public are invited to puchase these articles from persons other than the BIRM VGHAM VINEGAR BREWERY COMPANY, Limited, the BIRM VGHAM VINEGAR BREWERY COMPANY, Limited, have already commenced legal proceedings to protect the excluive rights which they claim to these articles. The Public and the Trade are warned that any of the above articles purchased under this Brand from any Manufacturers except the BIRMINGHAM VINEGAR BREWERY COMPANY, Limited, will not only be spurious, but may expose the person retailing the same to the risk of being made Defendant to legal proceedings.

TO THE

CHEMISTS & DRUGGISTS

OF

GREAT BRITAIN.

TELEGRAPHIC ADDRESS:
COLEMAN,
GEORGE'S, NORWICH.

St. George's, Middle St., NORWICH, December, 1887.

The Excise Authorities having created a difficulty as to the sale of Medicated Wine containing a certain percentage of alcohol, we obtained in January last, from the Inland Revenue Authorities, permission to sell our Liebig's Extract of Meat and Malt Wine, WITH QUININE, without a Wine Licence, and many Chemists not holding a Wine Licence have sold considerable quantities. In order further to meet the requirements of the trade, we have introduced a Liebig's Extract of Meat and Malt Wine, NON-Alcoholic, made from the juice of the Grape, Liebig's Extract of Meat, and Extract of Malt. This also can be SOLD WITHOUT A WINE LICENCE. orders will oblige either direct or through the Wholesale Houses.

Yours obediently,

COLEMAN & CO., LIMITED.

N.B.—The Wine is sold in Bottles, 2/9 and 4/6 each.

Trade prices on application.

P.S.—Where the Licence is not held we are willing to pay the entire cost of a Retail Licence (the holder of which can sell any kind of Wines) if an assorted order of 12 dozen is sent us of any of our preparations. List on application. Our Liebig's Extract of Meat and Malt Wine WITHOUT QUININE commands a very large sale, and is recommended by over one thousand medical men who have sent us testimonials in its favour.

SOLE MANUFACTURERS-

COLEMAN & CO., LIMITED,

ST. GEORGE'S, NORWICH,
AND 3 NEW LONDON STREET, LONDON, E.C.

EIGHT PRIZE MEDALS AWARDED.

HOUSEHOLD SPECIALITIE

YorkshireRelish

THE MOST DELICIOUS SAUCE IN THE WORLD.

To Chops and Steaks, Fish, &c., it is incomparable. In Bottles, 66 and 2s. each.

and 2s, each.

CAUTION.—On each Yorkshire Relish Label is a Willow Pattern 1 and name, Goodall, Backhouse & Co. No other is genuine.

Goodall's Baking Powder

THE BEST IN THE WORLD.

Makes delicious Puddings without Eggs, Pastry without Butter, dheautiful light Bread without Yeast. In 1d. Packets; 6d., 1s., 2s., 35s. Tins.



B.P.

The hest, cheapest, and most agreeable tonic yet introduced. Bottles, 6d., 1s., and 2s. each.

Goodall's Custard Powder

For making delicious Custards without Eggs, in less time and at half price. Sold in Boxes, 2d., 6d., and 1s. each.

Goodall's Blanc Man<u>é</u>e Powder

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

Goodall's Egg Powder

Acknowledged to be the only real substitute for eggs yet discovered. action on Oakes, Puddings, &c., &c., resembles that of the egg in exparticular, enriching them in colour and flavour, rendering them myholesome and nutritions. One sixpenny tin will go as far as twenty-1 eggs. In 1d. Packets; 6d., 1s., 2s. Tins.

SOLE MANUFACTURERS-

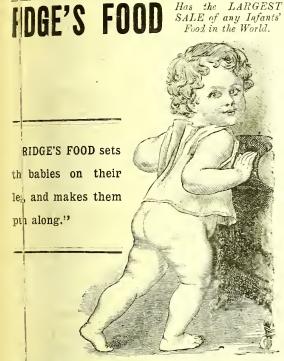
GOODALL, BACKHOUSE & CO

WHITE HORSE STREET, LEEDS.

A Monthly Price List of Druggists' Sundrie Patent Medicines, &c., can be had Pos Free on application.

GOOD

VALUE



The mand for Dr. RIDGE'S CELEBRATED COOKED FOOD has so increased in publivour that it is estimated the sale exceeds by hundreds of tons annually all the other foods of a similar character put together.

MANUFACTORY-

RIGE'S ROYAL FOOD MILLS, LONDON, N. Telegraphic Address_"RIDGE'S FOOD LONDON."

TYRER'S

BOROUGH" K

THE GIANT 1d. BOTTLE OF SAUCE.

LARGEST IN THE TRADE.
In Half Gross Boxes, at 6.6 per Gross.*

"BOROUGH" KETCHUP, WORCESTER, HARVEY, YORKSHIRE, OR READING SAUGE.

1d. Sample Bottles, dozen parcels	 per gros	ss 5/ ext	ra quali	ity 6/
" " ½ gross boxes	 "	5/6	23	6/6
1d. Giant Bottles, dozen parcels	 11	6/	12	8/
" " ½ gross boxes	 11	6.6*	31	8/6
1-Bottles (flat or round), reputed 1-pint	 22	16/	2.7	24/
1-Bottles (flat or round), reputed pint	 5.9	26/	11	32/
3-pint Imperial Round Stoppered Bottles	 >>	30/	51	36/
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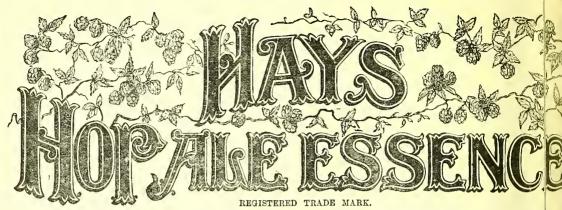
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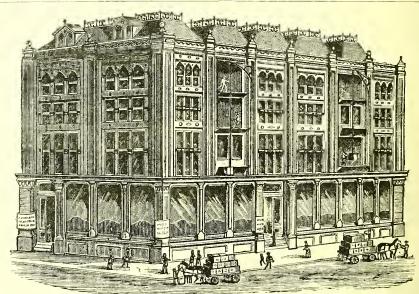
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- No. -On the 10th April, 1888: "Our customers LIKE IT AND RECOMMEND IT."
- No. -Another writes, on the 3rd April, 1888:—"We have got your Tea started here, and it GIVES SATISFACTION TO EVERY ONE WHO TRIES IT."
- No. —Another, on the 31st March, 1888:—"I find fresh customers every week, and it GIVES GREAT SATISFACTION."
- No. On the 21st March, 1888:—"The Tea is LIKED WELL, getting fresh customers every day."
- No. —On the 19th February, 1888, a customer writes, ordering Spring Blossom Ceylon Tea:—"I shall make it known as much as possible; they all say THEY NEVER TASTED BETTER TEA."
- No. —Another, on the 25th February, 1888, says:—"I find the Spring Blossom rapidly gaining favour, and GIVES UNIVERSAL SATISFACTION."
- No. -Another, on the 27th February, 1888, says:-"GREAT INQUIRIES FOR THIS TEA."
- No. —A customer ordering six cases of Spring Blossom Ceylon Tea on the 10th February, 1888, says:—
 "I may say that the customers who have tried it speak in great praise of it, and WILL HAVE NO OTHER."
- No. 1.—Another writes, on the 7th February, 1888, ordering three cases of Spring Blossom:—"The sale of your Spring Blossom Tea is increasing, and appears to give much satisfaction."
- No. .—Another writes, on January 9th, 1888, of the Spring Blossom :—"1 may for your information tell you that your Ceylon Tea GIVES GENERAL SATISFACTION."
- No. .-Another writes, February 13th, 1888 :- The Spring Blossom Tea is TAKING WELL with my customers."
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**	Cubeb	and	Bu	chu	• •	• •		12/6	,,
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Male Fe	rn Ext	ract		• •	• •			15/	"
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CONAINS THE ESSENTIAL ELEMENTS to the Animal Organisation -- Potash and Lime;

THI)XIDISING AGENTS-Iron and Manganese;

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IT 1 FFERS IN EFFECT FROM ALL OTHERS, being highly susceptible to oxidation during respiration, plessant t aste, acceptable to the stomach, and harmless under prolonged use.

IT IN SUSTAINED A HIGH REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Inchitis, and other affections of the respiratory organs. Is employed also in various nervous and debilitating diseases v1 success.

ITS JRATIVE PROPERTIES are largely attributable to Stimulant, Tonic, and Nutritive Qualities, whereby the variou rgans are recruited.

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The pre ited dose produces a feeling of buoyancy, and removes depression and melancholy; hence it is of great value in the treatment of mental and nervous affections. From its exerting a double tonic effect, and influencing a healthy flow of the secretions, use is indicated in a wide range of diseases.

NOT E.—CAUTION.—The success of Fellows' Hypophosphites has prompted certain persons to utter substitutes Mr. Fellov having examined several of these, finds no two samples identical, and all differ from the veritable, in composition freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, in the property of staining the strychnine in solution, and in the medicinal effects.

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That is genuineness of the early testimonials was certified by Aaron Alward, Esq., M.D., Mayor of the City of St John, Province of New Brunswick, Canada, and the great seal attached on 6th February, 1868;

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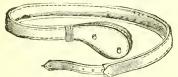
Mr. llows therefore refers to the printed form surrounding every bottle, where the letters may be found in cail.

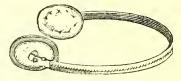
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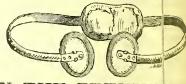
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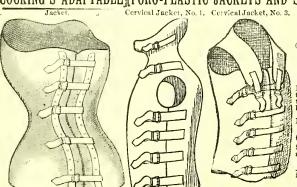
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FOR MEASUREMENT. JACKET (in cases of slight deformity) Circumference at axilla.

INSTRUCTIONS

waist.
hips.
Length from axilla to great
trochanter.
severe angular cases circumrence over apex of curve, posion of ditto, and contour should
given: in lateral cases a be given; in lateral cases a description of the case.

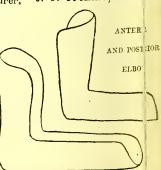
In all cases it must be stated if for male or female.

CERVICAL JACKETS

Same measurements required and circumference at neck, and length from neck to axilla. Any part of the Jacket can in the process of manufac-ture be left soft.

A FULL LIST OF SPLINTS AND PORO PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.





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[1888

Clorate of Potash Tabloids.

FOR FECTIONS OF THE VOICE, THROAT, AND RESPIRATORY SURFACES GENERALLY.

By ing these Tabloids the drug is effectually brough in contact with the oral mucous surfaces as a contuous gargle, and its specific action made



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certain. In acute sore throat, Chlorate of Potash "usually relieves the uneasiness in a few hours" (Cohen). "It is used in ulcerated mouth and follicular pharyngitis, and has been employed in

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"Of onvenient size, they are beautifully made; and, as hey dissolve slowly in the mouth, are well suited; throat affections."—The LANCET.

Suppl in beautifully graven white metal boxes, blue silk label, at and 8/6 per dozen. Retail prices, 64. and 1s.

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The elvent and discutient as well as antiphlogistic powers. Chloride of Ammonium are well known, and have let to its extensive employment, especially in Germa, in cases of sore throat and bronchitis, attende with abundant secretion of thick and tough mucus phlegm. Physicians will at once appreciate the gre advantage to their patients of the local effects of this alt slowly dissolving and coming in direct contact ith the inflamed surface. It at once mitigates the cough or irritation, and lessens expectoration. Two othere of the Tabloids will sometimes entirely relieve ughs that have long resisted treatment with ordinar remedies. One may be dissolved occasionally on the

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Tabloids of Compressed Chlorate of Potash with Borax.

The Tabloids afford an agreeable form in which to prescribe Chlorate of Potash and Borax.

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The Voice Tabloids contain COCAINE, CHLORATE OF POTASH and BORAX.

The most agreeable form in which to prescribe Cocaine is in the Voice Tabloids with Chlorate of Potash and Borax.

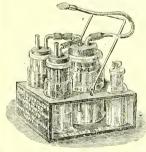
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long diseased or weakened nasal and respiratory mucous membrane to a healthy state, so that in cases of catarrh, where thickening, induration and irritation exist, a most decided improvement is brought about in a short time." In "throat-cough," pharyngeal irritation,

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The Burroughs Chloride of Ammonium Inhaler affords perfectly neutral fumes, and is always ready for use.

Dr. Franks, Dublin University, says:—"It is the best I have ever used, and I think I have tried all."

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Supplied to the trade at 7/6 each. Retail price, 10/-.

The foregoing prices are subject to our usual discount.

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Qui	nine Bisu	lphate	, ½ gr.	, Vinaigrette sty	le (ova	l bots.,	50 in	each)								1/0		8/0
	"	,,	,,	100 in bottle	• •							• •				1/6	• •	12/0
	"	,,	1 gr.,	Vinaigrette styl	le (ova	l bots.,	36 in	each)			• •					1/0	• •	8/0
	,,	12	0 .,	100 in bottle						• •		• •		• •	• •	1/9	••	15/0
	22	77		Vinaigrette styl	le (oval	l bots.,	24 in	each)	• •	• •			• •		• •	1/0	• •	8/0
	,,	,,	- /	100 in bottle											• •	2/9	••	24/0
	25	19		Vinaigrette styl	le (ova	bots.,	24 in	each)	• •	• •	• •	• •	• •	• •	••	1/6	• •	12/0
	"	19	- 07	100 in bottle							• •		• •	• •	• •	3/9	• •	
	31	,,		Vinaigrette styl	,			,						• •	• •		• •	17/
	39	12	5 gr.,	100 in bottle		• •	• •		• •	• •	••	• •	••	• •	• •	5/6	••	50/0

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Flows easily from the Pen.

Blotting-paper may be applied at

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ADVERSEMENTS of employers and assistants can be received us up to the first post on Friday mornings, and will be it rted in the current week's issue.

AT a funcil meeting of the Society of Chemical Industry held in ndon on Monday, it was decided that the annual meeting ould be held in Glasgow on July 18th, 19th, and

POST-(RD COMPETITION, No. 4.—We remind readers that we not admit post-cards into this competition which reach us ter than Monday, April 30. What is asked for is a predicin of the first three among the candidates for the Pharmactical Council, the election to which is fixed for next mon. For fuller particulars reference must be made to the pr numbers of this month.

THE reling cases which we offer subscribers are now userby a very large number chemists, and are founderly convenient. They kee ogether thirteen numbers very tidy form, always rely for reference. By havi two cases in hand the numbers of a complete lume are always available intil the time comes f binding. We sell the cases at the office for s., or by parcels post 1s. d., or two for 2s. 3d. them to y house for en-



closure, 1 by any of the carriers, as in the latter case we have to I for booking.

BRITISH PHARMACEUTICAL CONFERENCE.

MEETING of the Executive Committee was held at A 17 Bloomsbury Square on Wednesday, April 25, at 4 P.M. Present—Mr. F. B Benger, President, in the chair; Professor Attifield, Messis, Carteighe, Davies, Greenish, Martin, Martindale, Piowman, Ransom; Mr. Umney, hon. treasurer; Dr. Thresh and Mr. Naylor, hon. general secretaries, and J. C. Nightingale, assistant secretary.

The minutes of the previous meeting were read and con-

firmed.

Letters regretting inability to attend were read from Professor Bentley, Messrs. Conroy, Dott, Groves, Maben,

Stephenson, and Symes.

It was announced that the following donations had been received, and the thanks of the committee were accorded to the respective donors: Proceedings of the Illinois Pharmaceutical Association, 1887, and the Calendar of the Pharmaceutical Society of Ireland, 1888.

It was proposed by Mr. Plowman, seconded by Mr. Davies. and carried, that Mr. II. Hutton be appointed local secretary

for Bath.

The question adjourned from last meeting, as to the advisability of furnishing proof copies of authors' MSS. to members in attendance at the annual meeting was again discussed.

Ultimately it was proposed by Professor Attfield, seconded by Mr. Greenish, and carried unanimously, that—"This committee, having fully considered the supply of authors' papers to members present at the annual meetings of the Conference, decides that it is altogether impracticable."

The President announced that he and Dr. Thresh had been to Bath during the present week, and, in company with Mr. S. R. Atkins (Salisbury) and Mr. H. Hutton (Bath), had had interviews with several of the leading chemists there, all of whom gave them a cordial reception and promises of sup-They recommended the Grand Pump Hotel as the most suitable for headquarters, and generally reported satisfactory progress.

A number of gentlemen were duly nominated and elected

members of the Conference.

DIARY FOR NEXT WEEK.

Secretaries of societies are requested to send early information of approaching meetings.

Monday, April 30.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. G. Aitchison on "Decoration"—Lecture I.

Tuesday, May 1.

Royal Institution, at 1.30 P.M., Annual Meeting. 3 P.M., Mr. Walter Gardiner, M.A. Cambridge, on "The Plant in the War of Nature.'

Wednesday, May 2.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. T. R. Ablett on "Drawing, a means of Education."

Thursday, May 3.

Royal Institution, at 3 P.M. Professor Dewar, M.A., on "The Chemical Arts."

Chemists' Assistants' Association, 103 Great Russell Street, W.C., at 9 P.M. Annual General Meeting, and presenta-

tion of the Burroughs-Wellcome prize.

Chemical Society, Burlington House, W., at 8 P.M. Messrs. Horace T. Brown and G. H. Morris, Ph.D., on "The Determination of the Molecular Weights of the Carbohydrates." Mr. N. Collie and Dr. Lawson on "The Action of Heat on the Salts of Tetramethylammonium. Mr. N. Collie on "The Action of Heat on the Salts of Tetramethylphosphorium."

Friday, May 4.

Royal Institution, at 9 P.M. Mr. J. K. Laughton on "The Inviucible Armada: a Tercentenary Retrospect.

Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Indian Section. Surgeon-General H. W. Bellew on "The Injurious Effects of Canal Irrigation on the Health of the Population of the Punjab."

Saturday, May 5. Royal Institution, at 3 PM. Mr. Carl Armbruster on "The Later Works of Richard Wagner."

Metropolitan Reports.

FIRE.—The premises, 8 and 10 Fairclough Street, St. George's-in-the-East, occupied by Gates & Hewett, druggrinders, were damaged by fire on Monday.

QUININE AND IRON TONIC in 1d. packets is the latest novelty which the curbstone merchants of London have got hold of. The demand for it is extraordinary. Even City men have wedged themselves into the crowds which surround the sellers. The "tonic" hails from Old Kent Road.

SWIMMING.—The S. Maw, Son & Thompson Swimming Club held their first handicap of the season at the Islington Baths, Liverpool Road, on Monday, April 23. The distance to be covered was 88 yards, and three heats were competed, each by four swimmers. H. Litten (7 sec. start) won the first, his competitors having 22, 20, and 7 sec. start; the second heat was won by W. Hasthorpe (6 sec. start), against others with 26, 16, and 2 sec. respectively; C. Sage, scratch, won the third, against others with 20, 19, and 19 sec. start. The final heat is to be swum on Monday next.

CHEMISTS' ASSISTANTS' ASSOCIATION.—A special meeting was held on Thursday night to discuss and express an opinion on the Pharmacy Bill in reference to the branch shops clause. An important item on the programme was the reading of the Burroughs-Wellcome Prize Essay by Mr. A. C. Stark. In regard to the Pharmacy Bill the chairman, Mr. J. E. Saul, made a few introductory remarks, asking the members to speak especially about the branch clause, as the association has already declared for the curriculum. Mr. Millard, in moving the resolution in favour of the Bill, expressed sympathy for the present managers, and would be glad to see a way out of the difficulty, but, in accord with the spirit of the Pharmacy Act, he felt that the branch clause was required. The resolution was in the following terms:—

That the members of the Chemists' Assistants' Association of London, consisting of managers, assistants, and apprentices, qualified and unqualified, having considered the various clauses of the Pharmacy Acts Amendment Bill at present before the House of Commons, are of opinion that in the interest of the public, of assistants, and of pharmacy generally, the Bill should, with all convenient dispatch, be placed on the statute-book.

Mr. Phillips seconded, and a good discussion ensued; but there was not a single word of opposition, and the resolution was unanimously passed. It was also agreed to send copies of the resolution to the metropolitan members of Parliament. Afterwards Mr. Stark read his essay, in which he showed an intelligent appreciation of recent progress in pharmacy.

THE ASHLEY'S BOTTLE COMPANY (LIMITED).—The statutory meeting of this company, formed to work the machinery invented by Mr. Ashley for the manufacture of bottles, was held at the Cannon Street Hotel last week. Mr. G. W. Hastings, M.P., the chairman, expressed great confidence in the future of the company, notwithstanding the unkind comments which had been made upon it; but some of the other speakers were less sanguine. Mr. Keevil, who had visited the works as the representative of a number of shareholders, stated that he found the machine now in operation, with the assistance of two men and a boy, could turn out mineral-water bottles at the rate of one per minute, which was less than was done by the old system of the blow-pipe, under which two men and a boy could produce ten dozen bottles per hour. Mr. Keevil also said that Messrs. Kilner Brothers had shown him a machine-made bottle made by a member of their firm fifteen years ago, on a similar principle to that of the Sykes and Macvay system. This system Mr. Kilner failed to work satisfactorily, and it was dropped by their firm. The machine Mr. Keevil saw at the company's works was not the rotary one which is to come forward, but which, it seems, is still not ready. Several shareholders expressed great dissatisfaction, as they were led to believe from the prospectus that the machine was ready to work.

ALLEGED EMBEZZLEMENT.—A young chemist named George Wyatt, of 15 Hindon Street, Pimlico, appeared before Mr. D'Eyncourt at Westminster on Tuesday, on the clarge of

embezzlement to which reference has previously en made The charge was for embezzling the sum of February 11, 1887, and 8d. on February 15; also we stealing a seal, brass letters, &c. Some time ago he was n the employment of Mr. Frank C. Fernando, homocopatl chemist. 3 Victoria Buildings, Pimlico. He left, however, id set up for himself, when two or three small articles were iscovered to be missing, on which the present charge was sed. The prosecutor admitted, in reply to Mr. Dutton, the although he knew where Wyatt lived for months after he d left his service, he never made this charge until he set u in opposition business. He (Fernando) had had cards printe lescribing himself as of the Royal Naval Reserve, althou he was never in that service nor in the Royal Navy. The only voyage he ever made was to Colombo and bac as a boy, when he was in the mercantile service. This as about twelve years ago. As to his financial position, I admitted that he had paid a composition of 10s. in the pold to his creditors on April 5 last year. He had not remove his fur niture before his creditors met, but he had sent t. or 101. worth of sponges for storage to his mother-in-lay house at Walworth. He had not attempted to commit sude either with pistol or poison; admitted to have taken pium for dysentery. Mr. D'Eyncourt suggested to the procutor the advisability of withdrawing the charge. Mr. Feando said he would do so, and accordingly the summons was thdrawn, the magistrate ordering the articles to remain it he hands of the police. Mr. Dutton said the magistrate ha no power to make such an order. Now the charge was wit rawn the case was in exactly the same position as before, at therefore the articles should be in charge of the deferrent. The magistrate therefore ordered the articles to regin in the defendant's possession.

CONCERT IN AID OF THE LONDON HONOPATHIC HOSPITAL.—Despite the wretched weather, St. Jnes's Hall on Monday night was fairly well filled with an a reciative audience, who had come to assist at a grand ever g concert "under royal and distinguished patronage") inid of the London Homceopathic Hospital in Great Ormond Seet, an institution for which it is claimed that it is "consta y doing a great and widespread work among the needyick," and which certainly has a large and increasing circlet in and out-patients; last year there were nearly 9,000 of he latter. That Mr. Sims Reeves' name appeared prominely among the performers who had promised their aid me have had something to do with the large attendance, but sugh the great tenor admitted having derived consideral benefit from homocopathy, homocopathy did not (at les on this occasion) receive in return the aid of Mr. Reeves' co peration, a most unfortunate attack of cold occurring to event his attendance. A telegram to this effect was reacoy Major Wm. Vaughan Morgan, chairman of the hospitalo a disappointed audience, a portion of which vented its moyanee in somewhat undignified hoots and derisive laughte Madame Nordica, the American soprano, sang two English sgs, "Far away from thee" (accompanied by the compose) of Fred. Cliffe) and "Autumn and Spring," and two It an ones, an "Ave Maria" and & "Mia piccirrella," all especially the last named, were loudly encored, a exaction with which the lady declined to comply. Miss loe Glenn delighted the audience by her magnificent rencing of a song called "True Love" (composed by W. Coen) and "Heaven's Watchword" (Gilbert Campbell), the laverse of which she repeated. Herr Carl Formes, a bass sher, whose fame dates more than a generation back, but whor many years has lived in retirement in the United State gave two selections from Mozart's "Nozze di Figaro," hu, y entertaining the audience by the manner in which h endered these, with a strength of voice which would ead few people to believe that the artist had turned he proverbial "threescore years and ten." We derstand that this was almost the first re-appearance in Ergland of Herr Formes, Mr. Gilbert sang a song by Mendelssohn and "Hearts of (;" while sang a song Mr. Lawton, from New York, appeared in Mr. Si Reeves place with a song called "Marguerite." Messrs. aldeman Messrs, aldemar Meyer and Gustav Ernest contributed by violin 1 pianoforte solos and accompaniment to the enjoyme of the evening. We understand that the hospital was enefited by the concert to the amount of nearly 2007, net.

Probincial Reports.

Items news, and newspapers containing matters of interset to thrade, sent to the Editor, will much oblige.

BIRMINGHAM.

BIRMI HAM AND MIDLAND EYE HOSPITAL.—The medical repo for the quarter ended March 31 shows that the total nur er of attendances was 9,592.

EPSON ALTS IN BREAD.—" With reference to the use of Epsom s s by bakers, there is a chemist in this town who, to my ce in knowledge," writes a correspondent, " sells considerable lantities of Epsom salts to bakers who put it into

How REY CALL THEM .- Do you know that large quantities of Lydia water" and "cold potato drops" (dec. aloes co.) are s l by the chemists of the hardware metropolis, and that "corescension" milk is occasionally asked for ?

MIDLA COUNTIES CHEMISTS' ASSOCIATION.—The movement for e alteration of the place of meeting of the association for the Grand Hotel to Mason College has for the present from through. The probability, however, is, that for next sess a arrangements will be made with the governors of the co ge for meeting there.

OBLIGHT TO CHEMISTS.—From the advertisement column of the Pmingham Daily Mail of April 21 we cull the following -

"WI LAVE NO OBJECTION TO SERVE CHEMISTS,

as well as he public generally, but would like them to declare themselves such, instead of trying to look unconscious of the fact, that they would come boldly into our shop instead of peeringo long into the window before they make up their minds.

"IE CENTRAL DRUG STORES PRICE-LIST

is in the ands of Her Majesty's authorities at Somerset House, fo evision, on matters requiring stamp duties, and, as soon a eccived, will be mailed through Birmingham and

"In the neantime we quote a few lines to show our scale of prices: re glycerine, in guaranteed bottles, 10d.; honey, virgin, 84 er lb.; sponges at all prices and in great variety; very best oth brushes, 1s., for 7d.; Beecham's patent pills, 1s. $1\frac{1}{2}d$, 19d.; Calvert's toilet soap, 1s. 6d, for 11d; Viking beef extra, 1 oz., 8d., 2 oz., 1s., 4 oz., 1s. 10d.

"Other tent medicines at reduced stores rate.

"Centr Drug Stores, Old Square, Corporation Street, Birmingh. Near the Grand Theatre."

BRADFORD.

THE E RAORDINARY POISONING CASE.—The adjourned inquest ir ference to the death of Lily Holgate (11), who died at t Bradford Infirmary, on Sunday, March 25, as was supped from having taken a quantity of carbolic acid, was resurt on Tuesday. Evidence was given as to the finding of bottles id jars at the house of the deceased's father, and two or the druggists who were called said they had no recollection of having sold anything on a Sunday night to deceased; ather. Other evidence was directed to throw suspicion the father, and the inquiry, which occupied the whole day was concluded by the jury returning a verdict of "Wilful reder" against the father of deceased.

NORWICH.

A HAL JOLIDAY FOR CHEMISTS —The chemists of this town are itated at present regarding a proposal to make every Thu lay afternoon a half holiday. It has been suggested the gested the the leading chemists of the town should call a meeting o he trade to consider the matter, and those who do not exider themselves the men of light and leading wait with spectancy.

NOTTINGHAM.

THE PHARMACY BILL.—The following letters have been received from the borough members, in reply to the resolution forwarded from the meeting of chemists held at the Milton's Head Hotel, reported last week :-

House of Commons, April 13, 1888.

DEAR SIR,—I heg to acknowledge the receipt of your letter and the copy of resolution with reference to the Pharmaey Bill. You are probably aware the subject is exciting a great deal of attention from different views being taken as to the justice of some of the provisions. I can assure you the matter shall have my eareful consideration.

I am, yours faithfully, ARNOLD MORLEY.

19 Buckingham Street, Strand, W.C., April 13, 1888.

DEAR SIR,-I have received your letter and statement with regard to the Pharmacy Bill. For many years the subject has been one of contention, and even now there appears to be no immediate prospect of its heing settled. In my experience of legislation of this kind, where new examinations have been imposed upon an industry that has been long in existence, it has always been the custom that those who served in it for a number of years-the limit being mutually agreed to-should be exempt from new examinations. I should think your friends would not object to a similar solution of the difficulty in the present case. I am, yours truly,

H. Broadhurst.

House of Commons, April 19, 1888. DEAR SIR,-I must apologise for the delay in replying to your letter of the 12th, with copy of resolution passed by the chemists and druggists of Nottingham in favour of the Pharmacy Act Amendment Bill. I need hardly say I will give every attention to the opinion of my constituents of this trade so unanimously expressed; but it appears to me at first sight that hardly sufficient consideration is shown for the long experienced, steady-going, and careful men who have carried on the trade for years without making any serious mistake, and who may yet be quite unable to "cram" for an examination late in life. The terms of the Bill, however, in this respect, seem rather vague and indifferent, and perhaps this objection does not really exist. However, if there is any modification required, it will no doubt be done in committee, and I do not think the second reading will meet with much opposition. Yours faithfully.

H. SMITH WRIGHT.

SCOTLAND.

THE CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSO-CIATION held their fourth annual business meeting on April 20, when the Committee's report was read. The treasurer's statement showed that the Society had a larger balance than ever before, although the expenditure had been greater than in any previous session. Three new members were enrolled. The appointment of office-bearers was deferred.

Pharmaceutical Society of Great Britain.

THE Board of Examiners for Scotland met at Edinburgh, on April 16 to 19, for the purpose of conducting the

Minor Examination.

THE following gentlemen were successful:-

Adamson, John Robert, Newcastle- | Johnstone, William Hope, Edinon-Tyne Bennett, Albert, Leeds Blyth, John, Leith Bottomley, William, Halifax Cleeland, Henry, Belfast Dakers, John J., Newcastle-on-Tyne Elliot, William Marshall, Edinburgh Ferrie, George Thomas, Edinburgh

Fowler, George Ross, Forfar Glendye, James, Glasgow Gaddes, Andrew, Silloth George, John David, Edinburgh Greig, John, Belfast

Halsted, Arthur Walter, Burnley Harley, Thomas, Glasgow Holmes, Thomas Mason, Bownesson-Windermere

Hughes, David, Holywell Hunter, John, Paisley

burgh King, Frederick, Edinburgh

Lane, Frederic John, York Me Allister, Robert Dempster, Kilcreggan

MaeEwan, Walter, Newport, Fifeshire

McKenzie, William Graham, Edinburgh

Morris, James Kneeshaw, Scarborough

Millar, James Herd, Edinburgh Peebles, Thomas Smith, Lochec Smith, William, Glasgow Walker, David, Edinburgh

Wilkie, John Prondfoot, Edinburgh Williams, William Pierce, Liver-

Wolfendale, Richard, Burton-on-Trent

Pharmaceutical Society of Ireland.

A SPECIAL meeting of the Council of the Society was held on Friday, April 13. Present: The President, Mr. J. E. Brunker, M.A., in the chair, Vice-President (Mr. Draper), and Messrs. Allen, Hodgson (treasurer), Grindley, Wells, McCormack, Hayes, and Beggs.

THE IRISH PHARMACY BILL.

The PRESIDENT said that while the Council were sitting on the occasion of the last meeting a telegram arrived asking an immediate reply to a communication from Messrs. Clay & Close, of London, in reference to the Society's Amendment Bill about to be submitted to l'arliament. The standing orders had to be suspended and the business dealt with, and he would now ask the Registrar to read the portion of the minutes of the last meeting which related to the subject.

Mr. FERRALL read an extract from the minutes, and also some letters since received.

LORD MILLTOWN'S VIEWS.

The PRESIDENT said they had now before them a full statement of Lord Milltown's views. Some of his suggestions were very important, but others were purely formal and arose out of the language of the draftsman. It would expedite business to dispose of the latter at once. First, as to the preamble of the Bill. Lord Milltown's observations on that point were as follows:—"Lord Milltown thinks this is unnecessary and apt to be misleading. If any preamble at all, it should commence with the last clause (reciting expediency), and this to be altered sequentially. The better way, he thinks, would be to put this preamble into a short statement of objects outside and inside Bill." Then as to clause 1, "His lordship thinks that the short title should be 'Pharmacy Act (Ireland), 1875, Amendment Act, 1888."

On the motion of Mr. Allen it was agreed that the preamble should be amended as suggested by Lord Milltown, and that the short title of the Bill should be as suggested.

The President said it was suggested by Lord Milltown

with respect to clause 3 of preamble as to the word "poisons," that the Act 33 and 34 Vict., chap. 26, might be incorporated, and that then the word "poisons" would need no interpretation. A statement in the Bill as to the meaning of a statutory declaration" he considered surplusage.

Passing over his suggestion with respect to clause 5, subsection 2, for the present, he considered, with respect to subsection 3 of that clause, that a fee of two guineas to the treasurer for registration under the Act would be too high. As to clause 6, he only suggested the substitution of the word "section" for the word "enactment" in a particular place.

In relation to clause 7, his suggestion was that the annual fee of 10s. 6d. proposed by the clause should be reduced to 5s. The object of the fee was to pay the expense of forming and

keeping up a register.

The VICE-PRESIDENT: Pass that over for the present.

The President said clause 9 of the Bill proposed to enact that "from and after the 1st December, 1888, it should be unlawful for any person to assume the title of 'Registered Druggist' in any part of Ireland, &c." Lord Milltown asked why the date selected should not be "the 1st January, 1889?" He (the President) thought that the proper way of expressing the limit would be "from and after the passing of the Act." As to clause 11, Lord Milltown said that the authority of the Government should be obtained for any enactment that the inspector of weights and measures should be a prosecutor. As to this, there had been a mistake on the part of the draftsman. He had drafted the clause to the effect that it should be the "duty of the inspector of weights and measures"—to whom in each year the Registrar should send a printed copy of the register of pharmaceutical chemists and of registered druggists-" to prosecute" any person in his district committing an offence against the provisions of the Act. The decision at which the Council arrived years ago was, not that the inspector of weights and measures should "prosecute"—for he (the President) did not think the Government would allow such a duty to be thrown on him, or that such a duty should be entrusted to him—but that he should "report" any infringe-

ment of the Act that came to his knowledge to be Registrar. He (the President) proposed that the clay should run as follows:—" It shall be the duty of such in ector to report to the Registrar any person within his disict committing any offence against the provisions of the principal Act and the 33rd and 34th Victoria, chap. 26 (t. Poisons Act), and to assist the Council in prosecuting to nviction any such person."

Agreed to.

The PRESIDENT said that as to clause 14 it was aggested that the words "or proprietors" should be inseed after every repetition of the word "proprietor."

Agreed to.

The PRESIDENT said Lord Milltown's observa n as to clause 17 was that "if part of the penalties recoved under this section are to be paid to the inspector, this class in-consistent with clause 11." But as they had am ded the latter clause there would be no inconsistency, bouse the inspector, as the informer, would be entitled to or third of the penalty under section 36 of the principal Act In connection with section 18 of the Bill it was suggest that it should provide for the incorporation of the Sale Act (Ircland) and the Pharmacy Act (Ireland), 1'5. The object was to provide a definition of a poison. If t change should be thought important by Lord Milltown, tl Council would raise no objection; but they thought their or form of provision the better one.

Mr. Allen moved a resolution formally approve of the amendments already assented to; and it was sended by

Mr. Hayes and unanimously passed.

INSISTS ON A MODIFIED EXAMINATION

The PRESIDENT said clause 5 of the Bill was as lows :-"Every chemist or druggist practising as such in pland on his own account before the 1st January, 1887, shall entitled to he registered as a druggist under this Act on corlying to the satisfaction of the Council with the following pvisions, that is say: - He shall on or before the 1st of Decer er, 1888, make application in writing to the Council to be gistered under the provisions of the Act. Such applicatic shall be accompanied by a statutory declaration of the app ant that he was practising as a *Chemist or Druggist* of his own account in Ireland prior to the 11th August, 1875, that he was practising as a Chemist and Druggist on his or account and styling himself as such prior to the 1st Jan y, 1887, giving the name of the place where he carriedon such practice, and by statutory declarations from the legally qualified medical practitioners, registered as such that the applicant had carried on such practice on his own ceount and then it provided that the Council might eitlerequire further evidence on the subject, or dispense with c statutory declarations and take other sufficient evidence lieu of them. The comment of Lord Milltown on th was as follows:—"This he does not clearly understan Why should a distinction be drawn between those pract ng prior to 1875 and those prior to 1887? If there is uson for such a distinction such reason does not appear. objects to this sub-section (2) on the ground the it will include many men who have acted in contravention the Act of 1875 and may not be properly qualified. In his pinion a modified examination of all those who have arted in business since 11th August, 1875, should be made sential, and he can support no other plan." With regard the first part of this objection the title "Chemists or liggists" occurred in section 31 of the principal Act, and conquently had to be retained in the amending Bill in order) secure the rights of those who were protected by that sec n of the original Act. As to those who had gone into hus ss after the passing of that Act, the right of registration vas proposed to be confined to bona-fide "Chemists and 1 ggists who had commenced business after 1875 on oir own account and who styled themselves as such; and exclude grocers, ironmongers, and others who since the ne date had added to their husinesses that of druggists of id commenced the sale of poisons.

Mr. Hayes: Would it not be a wise thing for two nembers of the Council who are familiar with the working the Act in Ireland in the past to go to London and have a presa-

tion with Lord Milltown?

Mr. Wells: I think what Mr. Hayes suggest is what should be done. Lord Milltown never had a word conver-

sation out the Act with anybody connected with the Societ I believe that if the President went over and saw him he ould be able to clear his mind of a whole lot of those and, and then probably he would see matters as we do, an ve would have no further difficulty.

The ESIDENT: So far as several of these clauses are concer 1, I do not see any difficulty in meeting his objections

Mr. ELLS: He means that every man who now has a shop, I who was not in business when the Act of 1875

passed just pass a modified examination

The ESIDENT: Yes. As I understand him he puts the bond it apprentice on the same footing as the man who was actual n business before 1875. We would raise a storm of oppositio if we did not afford an opportunity of getting registe I to men who came into business since 1875.

Mr. VLLS: Some men who had not the necessary qualification ere honourable enough not to go into business. Others d; and are you to give the latter an advantage over

the hourable men?

The ESIDENT: I think Lord Milltown's suggestion that those vo have acted straight in the face of the law should be requed to pass an examination is a very proper one. I propose hat sub-section 2 shall read in this way:—"No chemis and druggist who has commenced business on his own account between August 11, 1875, and January 1, 1887, a no person who was an assistant or apprentice in 1875, s l be entitled to be placed on the register of registered eggists, unless he shall have been examined with respect his knowledge of: (1) The English language; (2) arithme; (3) elementary chemistry; and unless he has a pract | knowledge of, and is able to distinguish by their appearate and suitable tests, the various drugs and poisons and poinous substances in general sale. The rules affecting such expinations to be approved by the Lord-Lieutenant in Council I include the apprentices and assistants, whom Lord M town wishes to have an opportunity of being placed on the rister. I move that these amendments be adopted.

Mr. A EN seconded the motion, which was unanimously

agreed

The lesident: Then he requires us to register men at a nomina ee.

Mr. Fres: The examination would be included in the

The VE-PRESIDENT: Leave in the two-guinea charge, and let include the cost of the examination. He tells us that the must all pass a modified examination, and at the same ti he says that the registration fee must be nominal. That is t logic. I propose that the two-guinea fee be retained, d that it include the cost of the examination.

Mr. (INDLEY seconded the motion, which was unani-

mously reed to.

The LESIDENT: The next objection is as to the annual fee of 1 6d. He thinks it ought to be reduced to 5s.

Mr. Fogson: A fee of 5s. will not cover the expense of printing and posting the register.

Mr. Fres moved-

"The he Council does not consider 10s. 6d. too much as the fee for t registration of pharmaceutical chemists and registered d gists, as the expense of registration will be greatly increased, a they do not think any member will object to such a fee.

Mr. A EN seconded the motion, which was passed unanimously.

PARTNERSHIPS AND STORES.

The I SIDENT said that clause 10 of the Bill proposed to make unlawful for any registered druggist to allow a portion his premises to be used for dispensing prescriptions, user a penalty of 5%. As to this, Lord Milltown asked:

which eggists had previous to 1875? or does it impose hardshi on anyone?" Lord Milltown did not understand the difference between the positions of draggists. stand t difference between the positions of druggists in Irelar and in England. The right to compound medical prescrip ns was strictly limited by the Irish Apothecaries Act of 791 to licentiate apothecaries up to 1875; and druggist in Ireland stood on a different footing from those in Engle I, where no such limitation as to dispensing existed. The object the clause was to check an evasion of the law which w known to exist. A druggist nominally let off a counter other portion of his shop to an apothecary or

pharmaceutical chemist, under whose authority and supervision the dispensing of prescriptions was supposed to be carried on, the business of the establishment being nevertheless conducted as one business. Clause 12 of the Bill stood as follows: -" Every person lawfully keeping open shop and selling and retailing poisons or dispensing and compounding medical prescriptions shall personally manage or conduct such shop, &c, or shall employ for the purpose as assistant or manager some person qualified according to law to keep open shop as aforesaid." Lord Milltown proposed that that section should commence—" Every person or persons keeping open shop"—so as to cover the case of partnerships and companies. He also asked that the word "lawfully" should be omitted from the clause; and he observed as follows:-"This would render the latter part of the section providing for the case of partners, and the whole of the 13th section unnecessary." In any case the provisions of the 13th section are considered by him to be so impracticable that he makes their excision a condition precedent to his undertaking charge of the Bill,

Mr. Wells: My view is that it would be better for us to withdraw our Bill for the present rather than yield this

The Vice-President said there was a large class of persons to whom they wished to do justice, and therefore they should go on with the Bill.

Mr. Wells: If that clause is modified as he asks, Arnott & Co. might employ me to conduct a druggist's business.

The VICE-PRESIDENT: That is the law now.
The PRESIDENT: The highest Court in the kingdon has affirmed that it is the law.

Mr. GRINDLEY: By a quibble.

Mr. ALLEN: Whether it is a quibble or not, such is the law.

Mr. Wells: I think we are in a better position as we are at present.

The PRESIDENT: All over the country there are bogus proprietors of establishments who merely give their names, and have businesses conducted by unqualified persons. Clause 12 would prevent that.

Mr. Wells: The object is to shut the door on illegal men

now, so that qualified men may start.

The PRESIDENT: I am satisfied that unless we can get the present Bill, or something like it, carried, the Society may as well pull down its blinds and stop.

The VICE-PRESIDENT: We have hardly a representative meeting, and I would suggest to you to put off the considera-

tion of these two clauses

The PRESIDENT said the 13th clause of the Bill proposed to enact that corporations and co-partnerships should be liable to penalties for selling poisons or keeping open shop unless every member of the company or corporation was a duly-qualified pharmaceutical chemist. That was virtually a proposal to repeal the law of the land as declared by the House of Lords. He could only say what he had always said, namely, that while he would like to see the clause made law, he was not prepared to sacrifice the Bill for it. The note which he had made on Lord Milltown's objection was as follows:—"While adhering to the opinion that such a clause is equitable in the interests of pharmaceutical chemists, who are compelled to pass through a long and expensive preparation for the exercise of their calling, the Council does not see its way to let useful legislation fall through by insisting on the clause. Accordingly, in deference to Lord Milltown's strongly-expressed opinion, it consents to the clause being omitted.

The VICE-PRESIDENT: The omission of the 13th section of the Bill will simply leave the law as it stands now.

The PRESIDENT said that even with the omissions suggested by Lord Milltown, the 12th and other clauses would enable them to ascertain the names of the proprietor, or proprietors, of every establishment, and every company or copartnership, and to compel them under penalties to employ properly qualified persons to conduct pharmaceutical business and the sale of poisons. They would get at numbers of cases that they could not reach at present.

Lord Milltown's suggestion of the words "or proprietors" after each repetition of "proprietor" in clause 12 was agreed to; but on the motion of Mr. Hayes, seconded by Mr. Allen, it was resolved that while clause 12 should begin "person or persons," the word "lawfully" as occurring in that clause should be retained.

The PRESIDENT moved that his note upon clause 13, ending with a consent to withdraw it, be adopted; and Mr. Hodgson seconded the motion, which was unanimously agreed to.

Mr. HAYES suggested that two members of the Council should wait on Lord Milltown.

The VICE-PRESIDENT: I do not think there is anything you

want from him that you would not get by correspondence.
The PRESIDENT: Certainly if I had some conversation with him I might be able to enlighten him on many points. If he expresses any wish for an interview we shall be ready to see him.

Mr. Edward McCreery Shea Hill, of Dublin, and Mr. William George Whitney, of New Ross, were elected members of the

Some other business was postponed till the next meeting. The Council then adjourned.

THE COURSE OF PRACTICAL CHEMISTRY,

The President wishes to correct a statement which appeared in the report of the last monthly meeting. The old regulations relating to attendance on a course of practical chemistry will still be in force in the case of all candidates whose certificates shall have been issued by the schools before July 1 next.

FRENCH PHARMACEUTICAL NEWS.

(From our Paris Correspondent.)

EXPLODING AGAIN .- Another accident has occurred in Messrs. Brin's works at Passy, where a young man was, on Good Friday last, killed by the bursting of au over-charged oxygen gasholder. This time it was a commonplace gas explosion caused by mere carelessness. A gas-heating stove had been newly set up in the office, and last Thursday one of the elerks turned on the gas while another went for a match. As may be expected, an explosion resulted when the light was applied. The clerk and an accountant were dangerously injured, the windows blown out to splinters, and the building was set on fire.

DISINFECTION OF PAWNED BEDDING .- At the Mont-depiété, the Parisians' venerable "uncle," many articles of bedding are pawned, and, as may be expected, it is often after long sickness or some death in the family that the owners part with them temporarily. Hence contagious diseases may be spread by such bedding, which is brought to the Mont-depicté without any wrappers, if all were piled together in the storerooms without precaution. The administration last summer procured steam-pressure disinfecting ovens, and since then has disinfected 9,187 mattresses, 3,090 feather beds, 8,343 pillows, and 8,165 blankets and coverlets. As the purification is known to be perfect, it would almost tempt one to now and them pawn one's bedding for the sake of the thorough cleansing.

Some Incidents of the Boulanger Troubles.—Last Saturday afternoon a band of students numbering several hundreds organised to "demonstrate" against General Boulanger, and after gathering recruits from the Faculties and the School of Mines, proceeded to the College of Pharmacy for more adherents. All the while they were singing various anti-Boulangist songs and calls, the most popular of which appeared to be "Conspuez Boulange" (Spurn ye Boulange), sung on the same tune as the "Conspuez Chatin" of two summers ago, only the final "r" of the name has to be dropped to make it a dissyllable for the sake of measure. At the College the manifestants were joined by some third year's students, and as they were leaving the building and turning down the Avenue de l'Observatoire, a waggon of the Lanterne newspaper bore down on them, and, it is said, attempted to rudely drive through the dense crowds of young men. As the Lanterne is a Boulangist and anti-student paper, and the young men feel at home in the Latin quarter, this was a little too much. The waggon was stopped, and the men ordered to apologise and shout "A bas Boulanger!" They refused, and whipped their horse; but they were held fast and made to

eome down, pale with fear, while the students quietly u hitched the horse, upset the waggon to dumpout its conten and set them on fire. They proved to be "Le Bossu," a ser publication undertaken by the newspaper. At the same tir the young men did their best to turn the waggon into kindli wood, but as the vehicle was an iron one they only succeed in breaking their canes and umbrellas over it. Finally, havi smashed all the glass about the waggon, they proceeded other exercises, while some of the young men good-natured helped the drivers to hitch on the horse again. What to place afterwards has probably been related by the da papers—the facts besides belong to the domain of politics but the eonclusion deserves brief mention. A student meeting was called for Monday evening, April 23, at the Sa de l'Ermitage, and a very large attendance answered the in tation. The small hall, barely sitting 150, held about 8 young men standing, while almost as many were packed the little garden outside. The object of the meeting was hear the report of delegates and ratify their promises Premier Floquet. The students in their organising, debatic and maintaining order showed considerable wisdom and go sense. It was known that attempts would be made to bre up the meeting by various disturbances, but the young m decided from the first not to heed interruptions and to them pass in contemptuous silence. Several times was the fortitude brought to the test. Once it was a shout of "Vil Boulanger!" from a corner of the hall; next various not eontradictions; and, most galling of all, from a rear house abominable cornet began braying "En revenant d'la R'vu the Boulangist rally-song. But the young men stood fir and every time after short interruption order was restor and business proceeded with. The delegates' report, now public notoriety, was that during their interview with Minist Floquet, after exposing their grievances, they had received promise that if the students would pledge themselves to ma no demonstration on their side of the Seine, M. Floquet wol, take it upon himself to prevent on the other side all kinds street manifestation. The students accepted the committee report, and unanimously pledged themselves to abstain for week from all demonstration. Before adjourning a permane committee was elected, composed of two from the Faculty Sciences; three from the Faculty of Letters; five, School Medicine; four, Law School; one, School of Mines; tv Central School; two, School of Pharmacy; and one, School of Beaux-arts. Finally an order was passed from mouth mouth to avoid all cries on leaving the hall, and all d persed in a most orderly manner. Minister Floquet has ke his pledge, and for the present order reigns again in t Latin quarter.

Personalities.

MR. EDWIN STUBBS, late of Hull, has purchasel t business of Mr. H. G. Waters, of Emsworth.

Mr. G. Moor has purchased the branch business of My. Corbett, formerly Sandiland, St. George's Square, Dro wich.

WE regret to learn that Mr. Thomas Heath, chemist a druggist, of High Street, St. Mary Cray, was sudder stricken with paralysis on Thursday last.

MR. W. CORBETT, of Bromsgrove, has succeeded to t partnership of Mr. Hughes in the firm of Messrs. Hughes Wyatt, Stourbridge.

Mr. W. Price, of Abergavenny, who recently retired from the drug trade, has taken a farm in the neighbourhood Ledbury, Worcestershire.

TESTIMONIAL TO A CHEMIST.—Mr. Evan Williams, w for some years carried on business at 161 New Cro Road, S.E., was presented on April 12 with a handson illuminated testimonial on vellum, signed by the leadi clergy, gentry, medical practitioners, and residents at No Cross, as a token of their respect. Owing to ill-health Williams has been obliged to dispose of his business with view to settling in California. Mr. Josiah Jones, formerly assistant to Mr. Cornell, of Ipswich, has succeeded to t business formerly carried on by Mr. Williams.

UGS AND THEIR COMMERCE AT VARIOUS TIMES.

By F. HARWOOD LESCHER, F.C.S.*

making a few selections from the almost inexhaustible mine or treasury of interesting facts about drugs, I propo to take a few glimpses at the substances used to cure d ase at different times, and to carry you back in spirit to social life of various countries. And I propose to treat subject from a rather novel point of view—the commerc one.

ommerce is the main-spring of our whole lives. siplest form it is the negro catching game that he may li and changing his surplus game for something else, and a rwards collecting gums, &c., for a living. Its more comp form is shown in the great trading companies that have could the British flag all over the globe, bringing drugs

fri everywhere to our markets.

r. Webb recently interested us in the insect friends and fo of the plant: I am speaking now to an audience that conly be the friends of drngs, as our living and that of offamilies depend upon them. Drugs of some sort were a cessity from all time. Man's endeavour to help sickness by redicine is part of man's life; it is an instinct second or to that of obtaining food. We come upon allusions to dis everywhere, and their commerce, as investigated by Del Hanbury and others, is really the history of the world's

mmerce procures drugs for us. The nomad tribes dig to hubarb on the bleak steppes of Tartary for a livelihood; th ailor braves the storm, and we all here at home work ha, simply to get food, for a livelihood; but from all this co nercial work, the sick man in London recovers health. anlives. It is true we are dependent on the lowest class of sh herds, Hottentots, and Indians in South America, and the fore the quality of some drugs suffers from bad collectio but this is improving, and the cultivation of cinchonas in va, cardamoms in Ceylon, senna in Tinnivelly, is giving us ugs of first-rate excellence.

propose to take three main epochs of the commercial hisry of drugs. Firstly, the caravan era, from the earliest tin; secondly, the commercial position of the trading cit of Europe in the middle ages; and thirdly, mention of

drus in modern time.

Prugs have been used from the earliest time: probably theirliest records are those of rhubarb, mentioned in a Chise book on medicine, 2,700 years before Christ; old hieglyphics on some Egyptian monuments, 1,700 years B.C represented gum trees, and the collection of gums, probat in the very districts above Kartoum that fail us now, anchave therefore raised the price from 40s. to 20l. per vt.

earliest trade was perhaps that of the caravans that we from Persia to India and China, and some insight into the ade of the Phœnicians is given us at the time of King Sol on-especially in the natural gums of Arabia, as myrrh and libanum. Myrrh, aloes (the wood is meant), and cinnar are mentioned as perfumes in the book of Proverbs. Ace te was used as an arrow-poison by the Chinese. Skill in dicine accompanied civilisation; we find both (long aftethey existed in China and Egypt) among the Greeks and omans, and with this skill a demand for drugs. One of t earliest mentions of proprietary medicines is applied to t Berberis from India, or Rusot, used by the Greek doctors or ophthalmia, under the Greek title of "lycium." This was lid in little jars, and is met with now in collections, kno as "Jason's Lycium," the "Lycium of Heracles," &c. Indi princes sent the famous precious camphor of Borneo as dibute to Chinese Emperors—that sort termed "a most rare erfume," found in little solid pieces in the wood, and wor its weight in gold.

Oanum was known as incense, or frankincense, long beft the Christian era; it is mentioned as tribute paid to Kin Darius, and as among the spoils captured by Alexander the reat. Aloes from Socotra was known to the Greeks

400 ars B.C.

After the decay of civilisation in Rome, when the fertile Roman campagna was devastated by hordes of Goths and Huns, and given over to malaria, at a time when wolves roamed over the forests round the Thames, there arose a high state of civilisation, and a celebrated school of medicine, and therefore of pharmacy and drugs, in Arabia. In the tenth century scammony and aloes from Socotra were recommended to King Alfred the Great in a letter from a patriarch of Jerusalem; ginger is named in Anglo-Saxon leech-books. In the "Arabian Nights" we have several insights into the pharmacy of that period—the magician in Aladdin asked a druggist for a certain potent poison, which the latter said that he would not put up until he had been shown a piece of gold! This appears to have been the only poison regulation in force in Arabia at that time.

During the Roman Empire there was a large commerce of drugs from India, and custom duties levied on them. At the Roman Custom House at Alexandria, duties were levied on ginger and cardamoms, amongst other drugs, coming from India. Opium, from Asia Minor, is mentioned as a medicine by Pliny, though it was only introduced into India about 950, and the habit of smoking it in China about 1650. Arabian physicians used Bish, or East India aconite, and also galangal, and first used sonna about 1000, and introduced it

They used the pods, not the leaves. into Europe.

About this time, viz., 1000 A.D., from Arabia and also from Constantinople, the centres of civilised life, radiated caravan routes, through Syria, and thence right along the north of Africa, crossing at Gibraltar into Spain. Other caravan routes led up from Italy; the Levant was the centre of trade. Acre, in Palestine, being one of the most important depôts of drugs. Medicine, or leechdom, as it was called, was then at a very low ebb in Britain and Northern Europe. The common domestic herbs and indigenous plants were used, but charms and so-called witchcraft were even more employed in diseaseas for traces of commerce in drugs in England, they scarcely then existed.

In the beginning of the ninth century, about 810, that great monarch Charlemagne, at the same time Emperor of the West and King of the Franks, ordered many drugs to be introduced from Italy into the convent gardens in Central Europe and on the imperial farms, Among these were almond trees and aniseed. Charlemagne possessed that universal genius which looked to everything, small as well as great; like Napoleon, who, during his Russian campaign, sent to Paris the scheme for the management of the Theatre Français, which exists to this date.

II. The second period in the commerce of drugs shows us the rise of the trading cities of Europe during the Middle Ages. As the tide of knowledge and civilisation flowed westward, the centre of trade moved gradually from the Levant down the Mediterranean. Instead of caravans journeying from Persia with drugs, we have ships and navigation coming more into play, and then the great Italian trading cities became the centres of commerce. Pisa, and Genoa, and Venice received drugs and spices and gums from the East, and sent them by the great routes, scarcely worthy of the name of roads, north and west, and some by sea to Britain. Then, to plunder these we read of robber chiefs of the Rhine and pirates of the Barbary coast; but the profits of the traders could bear these tributes, and the trading cities of Italy grew rich and powerful. In the thirteenth century on mention is made of oranges and lemons in letters about the cultivation of land in Sicily. Cloves and saffron were the same price in England, namely, 10s. per lb., which was more in value than a cow. Saffron, cultivated in Persia and then in Italy, was introduced into England about 1350, under Edward III., and cultivated; and for two centuries afterwards English saffron was exported to France. It is from the cultivation of this drug that Saffron Walden takes its name. Saffron was used in Germany then as now: in Nuremberg, in 1444, a man was burnt alive for adulterating saffron, and his saffron was burnt with him! In this same century we come upon the first mention of castor oil. The plant was cultivated by Albertus Magnus, Bishop of Ratisbon; but the expressed oil from the seed has only very recently been known—not before the eighteenth century, when it came from the West Indies and was worth 7s. per lb. Its cultivation in India, whence so much comes now, dates from much

later than this. Mace was worth 3s. 7d. per lb., and cumin

secd 2d. per lb. in England in the thirteenth century, when

es of a lecture delivered at a social meeting of the employés of Mess Evans, Lescher & Webb, held at the Aldersgate Street Schoolroom Monday, April 23.

a sheep was worth 1s. 6d. and a cow 9s. 6d. We come upon a very early mention of staphesacre seed, recommended by the physician of one of the popes, to cure vermin in the head

In the fourteenth century we read of the trading city of Pisa imposing a customs duty on gum tragacanth, and having a large commerce in gum arabic from Alexandria. The Venetians received ginger from India via Egypt; long afterwards the Spaniards introduced it to the West Indies. Sugar, from the sugar-cane, originally a native of, and cultivated in, India, was grown about this time on the shores of the Mediterranean; we read of 100,000 lbs. sent by a merchant in Venice to England, the value to be returned in wool, which was at that time our most important export. Colocynth was at this time cultivated in Cyprus, though it was previously known in Spain. Cubebs in the Middle Ages were used as a spice, eaten powdered with meat; John, King of France, in his captivity in England in this century, used them, and also grains of paradise, as a condiment. Even now cubebs are classed as a pepper, and not as a drug, in the French Custom House. About this time we read of French ships sent by the merchants of Rouen from the Port of Dieppe to the West Coast of Africa for ivory and grains of paradise. During this and the fifteenth century we read of drugs from the East, as galbanum and asafætida, reaching England by way of Venice. The Sultan of Zanzibar on one occasion sent the Doge of Venice many loaves of sugar and a like number of boxes of odoriferous benjamin. We hear of a great trading company being in existence in Genoa, called the "Maona," which managed the then important trade in mastic of the island of Scio; to them Columbus, a native of Genoa, wrote, believing that he had discovered this drug in America. About this time we find senna cultivated in Italy. In the Middle Ages rhubarb came from Tartary, viâ Persia, by caravans to Smyrna and Alexandria across the Isthmus of Suez; this transport made it very dear, and it became known in commerce as Turkey rhubarb, from the country whence the European merchants bought it. Long afterwards it began to come overland through Siheria and Russia, and about 1700 the very careful examination and rejection of inferior roots began at the frontier town of Kiachtka, and then the name Russian rhubarb sprang up. Subsequently a wonderful cheapening of the drug was effected by shipping it from the treaty port of Canton; the East India Company took hold of the trade, and it became known as East Indian

Meanwhile civilisation and commerce were moving towards other parts of Europe, and on the shores of the Baltic was springing up a mighty trade. The commerce of drugs is associated with two of the most remarkable confederations the world has ever seen. England played a prominent part in the one, the Hanseatic League; and the other, the East India Company, is perhaps the subject of which English eommerce is most proud. Eighty commercial towns of Northern Germany, with Lubeck at their head, constituted the Hanseatic Confederacy. With them were associated four principal foreign factories-in London, Bruges, Bergen, and Novgorod. This league, banded together for mutual defence, and to monopolise trade, was formed in the middle of the thirteenth century (about 1239), and developed rapidly; the towns were all seated on the sea or on navigable rivers. Bruges, in Flanders, was an entrepot for caravans between the Mediterranean and the Baltic, and Bergen for the trade of Norway, though not for trade in codliver oil—this is a medicine of the present century. In London there were factories or warehouses, a Teutonic Guildhall in Thames Street, and an alderman of the Haunse to settle disputes; there were depôts, too, for wool at Lynn and Boston. The Germans seem to have monopolised most of the profitable English export and import commerce in those days. This league of merchants and trading eities dictated to princes, raised troops, and made war against cities and states. How well this also describes our own East India Company later on!

In this country the import trade in drugs was not large, but it is interesting to note that the first commercial corporation ever known in England had business with drugs; I allude to the Grocers' Company. As early as about 1000 A.D., in Anglo-Saxon time, by the statutes of Ethelred, the Easterlings, or merchants coming from the East to Billingsgate, had to pay twice a year, among other things,

10 lbs. of pepper. From the date it seems plain the they eame from the Levant, and not from the eastern shes of h : Baltic. About 1180 they introduced such good inted o'1, that from them it received the name of sterlin and also weight by beam, both known in the Levant. Thosis of legal weighing was the pennyweight, the "sting" minted penny, the standard coin of specific value and (finite weight. These merchants from the East, dealers in apper and other drugs and Indian spices, sometimes calle Emperor's men, were first mentioned as the guild of Peppers in London about 1180, in the reign of Henry II. The first managed commercial weighing and had charge of the ing's beam. They were incorporated as the fraternity of Grisarii, or weighers en gros, in 1345, and this guild has remain the Company of Grocers to the present day. In 1447 a atent roll of King Henry VI. gave this company power to "e mine and garbel anis, cummin, wormseed, rhubarb, scal lony, spikenard, senna, electuaries, syrups, ointments, platers, and confections, cardamoms, and all sorts of drugs, any wise belonging to medicines, so as not, in the built of these, to be hurt in their bodily health." They contind to have charge of the public scale, or King's beam, and i 1453 we find them making a charge for weighing "Drugg, env draught, ij pence." In 1456 John Ayshfelde was fineds. 8d. by this Company of Grocers for "offens don in makyge of untrewe powder gynger cynamon and saunders."

The sixteenth century found the centres of counteres shifting westward. In 1505 the Portuguese navigate ound the Cape of Good Hope and obtained a share of thetrade with India and China in drugs and other produce; the trade from China which had before been met at Ceylon an ofterwards on the Malabar coast, by the Arab trade down Red Sea. The Portuguese about this time were the first find the country of the cardamom on the Malabar coast of ndia, and they discovered the true nutmeg plant in the islas of the Indian seas, though it had been known to the Apians and imported into England long before; a hundred ye: later the Dutch got hold of the trade of the Spice Island The Portuguese at this time founded colonies in India and a the west coast of Africa, which they still hold. The Spania, too, were most enterprising, and their discovery of brought numerous new drugs; jalap and sarsaparill came about 1550 to Europe. The enormous riches of Amer probably, however, caused a slackening of Spanish vige, and about this time English commerce began to assert tself. Under Queen Elizabeth England finally broke from the ower of the Hanseatic League and took away most of the privileges of the Germans trading in England; our hardy imen broke the power of the big galleons of the Spanish A ada; our captains scoured the sea; in 1577 Captain Wint one of Drake's officers under Elizabeth, was wrecked and ound Winter's Bark in the Straits of Magellan. About the time the plan of making incisions in the manna ash, and cocting Manna, as practised at the present day, was begun in cily.

III. The third or modern epoch in the his ry of drug commerce is characterised by the rise commercial prosperity of England, and is fi augurated by the establishment, about the be ning of the seventeenth century, of the East India Coany. This company was founded about 1600, under the le of "The Governor and Company of Merchants Trading jo the The way in which our glorious arms flowed East Indies." our persevering trade reads now like a fairy tal The Portuguese and the French, who were before us, oppolus; the Dutch had risen to a wonderful pitch of excellent both for the amount of their commerce and their skill in vigation, and even in fighting at sea. In 1700 they owne bout half the tonnage afloat of Europe. But about 16 the arms and counsels of Cromwell greatly helped this co sany, and in the reign of Charles II. they began the teat le, of which they afterwards obtained nearly the whole. I their early years we read of their offering at one of the sales gamboge, "a gentle purge"; it was taken out at 5s. They sometimes bought the whole stock of aloes from the lig of Socotra Later on, they prevented tret being taken the drugs they handled. In 1657 the prices in London ve for opinm only 6s.; scammony, 12s.; rhubarb, 16s., of the oney of that time.

And now new and important drugs were coming into England in large quantities. Copaiba was recommended for curing wounds by the missionaries in the Brazils. I first

colists in Barbados prepared the juice of the aloe they for growing there about 1650. German price-lists of mention balsams of Peru and tolu as coming from An ica. The Countess of Cinchon, the wife of the Viceroy of tu, was cured of fever by a bank from Peru, by which Ches II., in 1678, was also cured of fever by Tabor, an un lified doctor, whom the king made his own physician. Thoutch imported star anise (not the oil) from Manila to flat rtea. About this time the Portuguese brought calumba fro their possessions in West Africa, and pareira brava fro their colony of the Brazils. From the same source, too, abt this period ipecacuanha was introduced into Europe, and rescribed as a wonderful cure for dysentery by Helvetiu the physician to Louis XIV. of France, who later on, abo 1720, used pareira brava.

eighteenth century brings us to modern times. Most of e drugs we now employ were known a hundred years age nd their commerce was getting more and more into the hat of the English. But the most absurd remedies were stil n use, and in a book on "Drugs," by Pomet, the Paris druist, in the middle of the century, are many curious des ptions. Dragon's blood is well described by one of the autrs of those days, as "the tear of a tree, red like blood, the uit of which is like to a cherry, whose skin being taken off like a dragon's, and hence its name." Gamboge, also, as oming from China, some say scammony coloured wit affron, others ricinus coloured with turmeric." Pomet bel edin unicorns, calling them "camphirs" or Arabian wild asso He recommends the left hind foot of the elk against the ling sickness, or epilepsy. Among curious medicines met oned in books of repute in the healing art about this time we d the following:—A young man's blood in spring-time; Araan mummy—1 drachm helps coughs—artificial or moder mummy is not so good; elixir of mummy can also be use spirit of man's brains—1 scruple is a "noble antepilep"; a live frog put on the stomach in colic will draw the disce to itself and die. Again: "Note that to cure consun ion, take hair and nails of the patient, cut them small, andut them in a hole in the root of a cherry tree, and then stop with clay." Another, to cure the gout: "Take the said haind nails, cut small, and either give them to birds in a road egg, or else mix them with wax, and stitch it to a liverab, casting it into the river again." But civilisation But civilisation and uth were taking great strides, and the nineteenth centur pened with a growing extension of British commerce.
Dug the wars of Napoleon English merchant ships were con yed by men-of-war, and we read of the West Indian flee vith pimento, and the East Indian fleet with rhubarb, gun ginger, &c., safely eluding French fleets. A few new dru were introduced from the colonies, as buchu from the Hotatots of South Africa in 1821. Steam later on gave a wor rful impetus to English commerce, and the adoption of aloids and active principles has considerably extended the mand for crude drugs at the present day.

I cultivation of medicinal drugs is at the present day one the most important factors in our commerce. Several thound bales of Tinnivelly senna, cultivated in the south of I ia, are imported every year; this senna is displacing Ale adrian all over the world. The cultivation of cardamon in Ceylon has, in my recollection, brought down the pricirom 10s. to about 2s. to 3s.; the cultivation of quinineyielng barks in Java, Ceylon, and India is of even more com ercial importance. Ten years ago quinine was 16s. 6d.; som brands are now under 2s. per cz, and this is mainly owi to the enormous quantities of cinchona barks produe from the trees grown on these plantations. Other dru will doubtless in time be cultivated and become more abu ant, to the good of the increasing world's population. Son of the drugs that have illustrated my lecture arc abo two hundred years old, lent me by the courtesy of Mr. olmes, from the Pharmaceutical Society's Museum. In con ering all the above subjects, we must be thankful to divi Providence that has so constituted Nature that we fud) many remedies for human ailments, and conclude

with he words of the Poet Laureate:-

Fo dipt into the future, far as human eye could see,

Sa he vision of the world and all the wonder that would be;

Sa he heavens fill with commerce, argosies of magic sails,

Pi of the purple twilight, dropping down with costly bales; Momy brothers, men, the workers, ever reaping something new,

The which they have done but earnest of the things that they shall do.

THE LONDON CHAMBER OF COMMERCE.

THE chemical trade section of the London Chamber of Commerce held its annual meeting on Wednesday, April 25, at the offices of the Chamber, Botolph House, London, E.C., Mr. Thos. Tyrer taking the chair. There were also present Mr. Wm. G. Blagden, Vice-Chairman, and Messrs. T. G. Adair Roberts, T. P. Morsen, Jas. Robbins, Thos. Bennett, G. B. Francis, Arthur B. Hul, Chas. Umney, Rud. Messel, W. J. Bush, Thos. Christy, Bernard Dyer, R. H. Davies, David Howard, and Wm. Thorp. The minutes of the previous meeting having been read and approved of, the Chairman brought forward the question of the

MANUFACTURE OF SPIRITUOUS PREPARATIONS IN BOND, which, though third on the agenda paper, was by common consent accorded the first place in the debate, as the subject of paramount interest. The Chairman said the present position of the negotiations with the Somerset House authorities on the subject of the repayment of the excise duty on spirituous preparations manufactured in bond was not particularly cheerful. At the very moment when those conducting the negotiations on behalf of the drug trade believed a settlement to be imminent, much unexpected delay arose in the official quarter, finally resolving itself into an apparent desire to again discuss, from a different standpoint, questions which were thought to have been already disposed of. There appeared to be some doubt in the official mind whether after all the authorities were not going to be "done"-in other words, whether, under the guise of an allowance of the excise duty on the spirit lost in the manufacturing process, it was not sought to create a bounty on the manufacture. Under not sought to create a bounty on the manufacture. these circumstances Dr. Bell, the official chemist, asked the representatives of the trade whether they were prepared to place in the way of the authorities facilities for estimating the actual loss of spirit in the different processes of manufacture, a request which had immediately brought Mr. Umney to the rescue. That gentleman declared his willingness to allow the Somerset House chemists to visit his firm's works and take whatever steps they thought fit to put the question to a practical test. The Chairman then asked Mr. Umney to inform the meeting what steps the Somerset House people had taken with reference to his offer.

Mr. Umney: We had hoped that it would have been possible to agree with the Excise upon the terms of the allowance before the Budget Bill was brought forward in the House of Commons, but these expectations have, unfortunately, not been realised. A certain impression is prevailing that we seck to obtain a bounty from the Government. far from this being the case, when we made known to the trade what were our actual demands many thought the allowance asked for insufficient to cover our loss. In a conversation I had on the subject with Dr. Bell (the chemist representing the authorities), the latter, in order to illustrate the difficulties in the way of the Government, asked me whether there would be anything to prevent a manufacturer from exhausting ginger with methylated spirit, abstracting the olco-resin, dissolving the latter in pure alcohol, and then claiming a drawback, as if the root had been exhausted directly with pure alcohol, thus making a clear profit out of the allowance. Dr. Bell thought the authorities had no actual proof of the amount of spirit lost in the process of making the various tinctures, but accepted my offer to send an inspector to my firm's works to judge for himself. For the last seven days this gentleman has come regularly in the morning, provided with his official seals and red tape, and after working himself in the laboratory in conjunction with my firm's chemist, seals up the alcohol employed on leaving, and uses every precaution to render his experiments as exact as possible. If after all these experiments our demands are not granted I am much atraid we shall never get what we ask for, viz. a fair drawback on the spirit lost in making tinctures and other preparations.

Mr. David Howard expressed his thanks to Mr. Umney for

Mr. David Howard expressed his thanks to Mr. Umney for having so generously admitted the authorities to his laboratory, and agreed that if the demands of the trade were not conceded now it would be hopeless to expect anything in future. The real point at issue was undoubtedly the difficulty of ascertaining exactly the loss of alcohol in manufacturing. He mentioned tincture of cantharides as an instance of a

tincture in which the loss of spirit in manufacturing was practically nil, so that if a uniform drawback were allowed on all preparations the manufacture of such a tincture as that of cantharides would become very profitable.

The Chairman also thought that Mr. Umney's action in offering facilities to the officials deserved the best thanks of the section. A formal vote embodying this sentiment was theu duly proposed, seconded, and unanimously agreed to.

THE WORKING OF THE MERCHANDISE MARKS ACT

next came up for discussion, the Chairman inquiring whether anyone present had been aggrieved by the operation of that Act. But nobody appeared to have any complaint to make in this respect, and Mr. Umney related that, so far as he was aware, the only instance in which the wholesale drug trade could be said to have been directly affected by the measure at all was with respect to a consignment of anise seed which, being marked "London," had been sent to Hull, and was there kept back for several days, the Customs refusing to pass it through on account of the mark. It was subsequently explained that the action of the Customs in this instance was probably based upon the experience acquired in the case of certain goods, with which "port-marking" was resorted to as a means of deceiving buyers about the place of manufacture. The Chairman announced that the experience of all sections of the Chamber showed that the Act worked satisfactorily, and was not in any way injurious to British trade. He thereupon proposed that Mr. David Howard be appointed to represent the chemical trades section on the Merchandise Marks Act Association, a body which exercised its influence with the Customs to prevent undue friction in the operation of the Act, and obtained legal advice when difficulties arose. This proposal, seconded by Mr. Umney, was unanimously agreed to, and Mr. David Howard expressed his satisfaction at the manner in which the Act was now put into operation, and by which much of the trouble experienced in the beginning had abated. The section then turned its attention to the question of the

LEGALISATION OF INVOICES FOR THE UNITED STATES,

a subject about the details of which a good deal of confusion seemed to prevail. The grievance which it is desired to remove apparently lies in the 641st clause of the American law governing the importation of merchandise, which provides that in case of shipments of goods to the United States the person actually exporting them shall make a declaration of their nature before the American consul for his own district, and that declarations by third parties, such as forwarding agents, or before consuls outside the district where the exporter actually resides, shall not be admissible. Quite recently some very slight relaxation has been made in this Draconian law, and now the exporter, in case of illness, or absence for other "unavoidable reasons," may obtain a power of attorney and send some one else on his behalf; but the regulation remains a vexatious one, and the shortness of the time allowed for appearing before the consul (about $1\frac{1}{2}$ hours daily) does not render it any more acceptable; moreover, Brother Jonathan, when conceding power of attorney in some instances, took care to accompany this coucession by an increase in the charge for the declaration. After some conversation it was decided to appoint a sub-committee, consisting of Messrs. Thomas Bennett and David Howard, to find out exactly what was wanted, and report accordingly. It was felt that diplomatic action would be the only means by which, perhaps, the grievance might be abolished.

DEATH LURKING IN THE TIN CAN.

A somewhat sensational correspondence has recently been carried on in the press about a danger to human life said to arise from the alleged adulteration with lead of the tin used in the manufacture of provision cans. Mr. John McCall, head of a London firm of provision merchants, and chairman of the preserved food trade section, therefore addressed a letter, which was read at the meeting, to his brother of the chemical trade section, asking whether he could indicate a simple chemical test by which any person, though not of scientific education, could at once distinguish a pure tin receptacle from one adulterated with lead or other metal. A discussion ensued on this missive, in the course of which Mr. Umney pointed out the importance of distinguishing

between defective and deceptive tinplates, and s gested that if tins were found to be of the latter descripen, i.e., consisting of iron-plate covered with an alloy of tin id lead, the simplest and casiest course would be to be gethe offender to the Mansion House and prosecute him where the Merchandise Marks Act. Mr. Messel suggested hat in ordering the plates care should be taken to specify the type were to be of pure tin, and after some further convexition, during which it became evident that it would he are some difficulty to comply offbauch with Mr. McCall's quest, the letter was referred for further consideration of the analytical sub-section. The saying that in France evithing ends with a song and in England with a dinner rejived a decided contradiction to-day as concerns its second jet.

ANIMAL MAN

was appealed to by the Secretary, who suggested hat as other sections periodically met at the festive bed the chemical branch might be inclined to follow that ample, in which case he (the Secretary) would be glad to "rke the necessary arrangements." But the idea fell flat, it was passed over without discussion, Mr. Umney saying the it had been suggested that Mr. McCall, in return for the luable information which he would receive, might invite the emical section to

DINE OFF THE SPURIOUS TINPLATES,

a suggestion received with much merriment.

After this interlude serious business was again rumed, the Secretary reading a letter from Mr. Thomas aristy, calling attention to the fact that hundreds of a damaged tea-leaves, tea-sweepings, &c., are annually to this country, but refused permission to pass the stoms as being unfit for human food. Mr. Christy, on half of British industry, had written to the Customs amorities asking whether this damaged tea might not he a nitted duty free for the purpose of

CAFFEINE MANUFACTURE,

but had received the reply that the law forhade the divery of tea upon which duty had not been paid for any rpose whatever. This, Mr. Christy thought, was a most in prant matter, directly affecting what might be a flouris ag industry. At present, every year between 3,000 and 4, 1 lbs. of caffeine were made in Germany mainly from sweepings which were refused admission in this antry. The Germans bought up every pound of these, and it w of no rare occurrence, tea brokers said, that 20 or 30-ton lowere thus purchased at a time. Mr. Christy suggested that the Customs officers could be brought to admit the dy free importation of this tea under certain conditions, a w industry might be created in this country. The sw pings might be rendered perfectly unusable for consum in by being saturated with petroleum, which would not act in the least the extraction of caffeine, nor be in any way costly process, a very small quantity of petroleum only beg required to permanently render tea unfit for use as a herage. Mr. Christy had been in correspondence on the subje with Messrs. G. T. C. Bartley (M.P. for North Islington) d Sir John Lubbock, M.P., and these gentlemen had spoke o the Chancellor of the Exchequer, and were prepared to p questions on the subject in the House of Commons. The (stoms officials said that there was no precedent for the plasal, but thought that the request might be brought bele the authorities. It was ultimately decided that Messrs. omas Christy and T. P. Morson should pursue the matt report further at the next meeting.

THE ELECTION OF OFFICE-BEARERS

closed the proceedings. Mr. Umney proposed the resolution of Mr. Thos. Tyrer as chairman, adding a few words appreciation of that gentleman's services not only section, but to British industry in general, sentiments were cordially echoed by the seconder. Mr. Wm. light was also re-elected to the vice-chairmanship, and the third of the committee, with the exception of Mr. G. H who had deelined to stand, were also re-elected. Hogston's place Mr. Otto Hehner was chosen, the there gentlemen being Messrs. B. Redwood, J. M. Steel J. T. Macadam, C. A. Gosnell, A. Horny, G. Pugh, C. Chris sherson, W. J. Crook, J. B. Francis, Thos. Christy, Ar Ir B. Hill, W. J. Bush, R. A. Fairclough, and Chas. Wightm

SOCIETY OF CHEMICAL INDUSTRY.

LONDON SECTION.

EETING was held in the Chemical Society's rooms, A urlington House, on Monday, at 8 P.M., Mr. David Ho rd in the chair. The first paper read was on

> THE MANUFACTURE OF CHLORINE. By C. T. Kingzett, F.C.S., F.I.C.

paper had special reference to the use and economy of ma esia in the process. When Professor Dewar read his par on the Weldon-Pechiney process before the society it appred that the reaction involved in that process had not bee satisfactorily determined. The oxychloride of magnes n as finally treated in the process contains more than 20 r cent. of water, and it is possible that the chlorine whi is obtained results not merely from the action of oxyn on the dry chloride or oxychloride, but also in par and perhaps chiefly, from the oxidation of the vapour of hydchloric acid, which is generated in the earlier stages of the composition. Thinking over this the author came to the nclusion that Leblanc soda-makers might utilise much of eir waste hydrochloric acid in the manufacture of chi ne by simply passing it through a permanent quantity of ognesia, which would act as a catalytic agent. The who matter was made the subject of experiment, and the aut row placed some of the results before the members. For typical experiments were spoken of. In the first of the a mixture of dry air and hydrochloric acid gas was pas I through a combustion tube packed with magnesia and asb os, the whole being at a bright-red heat maintained for an ar. Chlorine was evolved copiously, and it was found tha he combustion tube contained magnesium chloride, the rest leading to the supposition that the reaction occurring is r only

2HC1+0=H.0+C'.

but pat the chlorine, in part at least, resulted from the foll ing reactions:

> MgO+2HCl=MgCl2+H2O, and $MgCl_2 + O = MgO + Cl_2$.

Telucidate this matter further, a second experiment was ma in which only asbestos was packed in the tube, and the olved gas was allowed to act on a solution of potassium iod, the experiment again being made at a bright-red heat. In is case again chlorine was copiously evolved, thus proving at at a bright-red heat air decomposes hydrochloric acidas and furnishes chlorine in consequence, but that the qua ty so obtained is much less than that which results whe magnesia is employed as a catalytic agent.

I next experiment was made to ascertain if chloring is obt ed by the direct decomposition of anhydrous magnesium chi de by oxygen. For this purpose a mixture of recently ign d magnesia and asbestos was packed in a combustiontub dry hydrochloric acid gas passed through this for an hou the current of gas then stopped, and residual gas then driv out with air, the tube allowed to cool, again heated, and current of air passed through it. In this case also chline was copiously evolved, and the amount estimated from the quantity of iodine liberated from a solution of pot ium iodide. The amount of magnesia employed in this exp ment was 13 grms, the amount of chlorine obtained 362 rms., and the amount of magnesium chloride found in the ceiver at the end of five hours 14725 grms. the experiments the author, therefore, came to the conclusion at the chemical reactions which are concerned in the We n-Pechiney process must be expressed as follows:-

1. $H_2O + MgCl_2 = MgO + 2HCl$, and $2HCl + O = H_2O + Cl_2$. 2. MgCl₂+O=MgO+Cl₂,

whi the decomposition of the HCl vapour by means of air is p noted by the presence of free magnesia. The reaction is, refore, very similar to that occurring in the Deacon profs, in which chloride of copper is the catalytic agent.
The arth experiment of the series was made to determine howhe magnesia could best be employed for the manufacture f chlorine. In this case a combustion-tube was filled wit jumice stone saturated with magnesium chloride, which on lition was deposited in the pumice as MgO. The condition of the experiment were much similar to the others, a

mixture of air and hydrochloric acid gas being passed through the red-hot tube for a period of six hours. The gas was obtained from 18.98 grms, of real HCl contained in the ordinary commercial acid, and of this 3.011 grms., equivalent to 2 929 grms. of chlorine, was used. The chlorine evolved was converted partly into chlorinated lime, and the residue "caught' by means of potassium iodide. The total quantity of active chlorine obtained was 1.65534 grm., and the combustion-tube contained combined chlorine. It thus seems to be tolerably well established that not only chlorine but bleachingpowder may be made directly, readily, and economically by passing a mixture of hydrochloric acid vapour and air, with or without aqueous vapour, over any suitable substance, such as brick or pumice stone, which has been previously coated or admixed with the oxide or a salt of magnesium; and the author was of opinion that this process presents great advan-tages over the so-called Weldon-Pechiney process, which involves the handling of huge quantities of solid material and the employment of complicated and expensive plant.

In concluding, he called attention to the fact that the late Mr. Weldon was unaware, between 1870 and 1872, of the action of magnesia in decomposing hydrochloric acid, but that other chemists were, and he quoted from the following

patents in corroboration of the statement:-

1870. Pat. No. 3093. H. Larkin and Wm. White. 1874. Pat. No. 3483. Joseph Townshend.

Neither of the processes involved in these patents was identical with the author's proposal, which may briefly be said to be the employment of any suitable porous substance impregnated with magnesia or a salt of magnesium for the purpose of assisting the decomposition of hydrochloric acid by the agency of air. The author intimated that he had taken steps to protect the novel features of the process.

Dr. LUDWIG MOND, in the course of a long speech, said that he was of opinion that Mr. Kingzett had not carried his experiments far enough, and before placing his results before the society he ought to have been able to give more than one example of quantitative results. He did not think that Mr. Kingzett's process possessed any advantages over the Deacon process, while it had most of the disadvantages of the latter; for example, it would be necessary to have pure hydrochloric acid gas, and this meant that only one-half of the gas from the salt-cake furnacc could be used. Dr. Mond then proceeded to quote from a large number of patents, such as Solvay's, Hasenclever's, and his own. He contended that magnesium chloride was used before the Weldon-Pechiney patents, and predicted that ere long ammonia soda-makers will be able to manufacture chlorine as readily as the Leblanc soda-makers.

Professor DEWAR said that he would speak of the paper only with diffidence, as it contained so little proof of the applicability of the suggestion brought forward. It was perfectly well known that such reactions as Mr. Kingzett explained did occur, but what was not known was that by passing oxygen over magnesium chloride chlorine was obtained, and by reversing the process oxygen was obtained. That was what he had shown experimentally when he had read his paper. Professor Dewar then proceeded to refer to the success of the Weldon-Pechiney process, especially in regard to its suitability for making potassium chlorate, and also spoke of the great similarity between many of the patents for the manufacture of chlorine.

After some further remarks from Dr. Mond,

Mr. KINGZETT replied, saying that the criticism did not touch his point at all, which was that by the use of a small and permanent quantity of magnesia chlorine could be easily obtained. Dr. Mond had spoken of his own patentsit was natural that he should do so-and Professor Dewar had said much about the Weldon-Pechiney process, in which he had a pecuniary interest.

The CHAIRMAN, in moving a vote of thanks, said that the beauty of the Weldon-Pechiney process consisted in the engineering skill required in carrying out the theoretical proposals, and therein lay the success of most chemical achieve-

Mr. E. J. BEVAN then read a paper by himself and Mr. C. F. Cross on "The Electrolytic Bleaching Process," which was a reply to the criticism by Dr. F. Hurter of a previous paper read by them. In the present communication the electrolysis of magnesium chloride was especially considered.

Regal Reports.

SUNLIGHT SOAP $\div x$.

IN the Queen's Bench Division of the High Court of Justice on Tuesday, Mr. Justice Manisty and a special jury tried the case of Annat v. Platt & Co. The action was for libel. The defendants admitted publication, but denied that the words used were libellous, or that the plaintiff had sustained any damage, and pleaded that the occasion was privileged.

The plaintiff was represented by Mr. Kemp, Q.C.; Sir Charles Russell, Q.C., and Mr. Atherley Jones appeared for

the defendants.

Mr. Kemp, in the course of his opening statement, said that Mr. Kenneth Arnat, the plaintiff, was the proprietor of a preparation for extracting grease spots, stains, &c, and he entered into agreement with the defendants, Messrs. James Platt & Co, wholesale woollen drapers, of St. Martin's Lane, by which they were to become agents for the sale of the article, the title of which was "Annat's Spot and Grease Extractor." From September to October goods were sup-Extractor." From September to October goods were supplied to the defendants to the value of 147. 8s, and it appeared that there was likely to be a considerable sale. But in October, 1887, the defendants issued the following circular. It was headed, "Annat's Spot and Grease Extractor," and went on to say, " We introduced this to our customers in the first instance, believing it to be a most effective material at the price, and letters received since speak very favourably of it. There is no doubt of its merits to extract grease, but we have lately been informed that Sunlight Soap has the same quality. We have tested it and find it has such. We will sell the stock we have left of Annat's at 1d. each, and return 8d. to all those who have paid us 9d. We shall recommend, and sell in future, for the purpose of extracting grease spots Sunlight Soap at 3d. a cake." In consequence of this publication the plaintiff's business had (the learned counsel said) been very much injured. He would put his client in the box, who would deny that his extract was the same as Sunlight Soap, and he thought the jury would come to the conclusion that it was a case for substantial damages.

Mr. Annat, on being examined, stated that he introduced his extractor to the defendants in 1887, with the result that he entered into a verbal agreement with Mr. James Platt to supply him from time to time the quantity he required at 72s. a gross. The defendants were to send out circulars stating that they were wholesale agents of the article. Subsequently Mr. Platt informed him that some of his customers had stated that they had discovered the preparation to be simply Sunlight Soap, and he had determined to issue a circular, of which he showed plaintiff the first proof. Witness told Mr. Platt that it was not the case that his preparation was simply Sunlight Soap. He afterwards assured the defendant that the ingredients contained in the tablet would do the work without the soap at all, in which form it was conveyed. A few days later the defendant sent him a proof of the circular, the issue of which he advised the defendant would be detrimental to his (plaintiff's) business, and he asked him to withdraw it, and offered to take the remaining stock of his preparation off Mr. Platt's hands; but he refused, and said he must issue the circular and sell the preparation at 1d. Since the publication of the document his business had sunk to zero.

Cross-examined by Sir Charles Russell: I carry on the manufacture of the stuff in my own house at Hornsey, on the ground floor (front) and partially in the kitchen. I employ no hands. It was in June that I first matured the invention, and in August that I went to the defendants'

manager, Mr. Blenkinsop. I have sold 25%, worth of the preparation.

What ingredients do you use?—I do not choose to inform the Court of that. I use Sunlight Soap for a conveyance of my ingredients, as well as other soaps too. I have no invoice of any material except Sunlight Soap. I told Mr. Platt that the merits of the production were unique, and nothing like it was known. It was a great discovery of my own; it would remove grease, paint, and ink spots from any fabric. Mr. Platt sent for me in October, and told me that his customers had represented to him that the extractor was nothing else

than Sunlight Soap. I denied that. Mr. Platt said b pro posed to stop the sale of the Extractor.

Did you say you had never seen Sunlight Soap?-'s; I

Then have you only begun to use Sunlight Soap in your manufacture since October?—No; I used it before.

Why did you deny all knowledge of Sunlight Sch?-Because I did not know what soap I was using.

Where did you get Sunlight Soap from ?-My wife d it for household purposes. I ordered a gross of barrom Lever's, of Queen Victoria Street. I did not choose give my name, because I thought it might lead to the disvery of my invention.

Did you say that your grease extractor was a secre preparation, not even your wife knowing how to make?—Yes; I simply used the soap as a conveyance for ringredients. I said that the ingredients were very costl and I produced a phial. I said the ingredients from whi I made the fluid cost 18s, a pound. Upon Mr. Platt infoing me that my invention was said to be Sunlight Soaland nothing else, I took steps to have an analysis made my soap and Sunlight Soap. It was made by Mr. Nap., of Ipswich. About three weeks before the defendant se the circular out he told me that he would not send it out it riew of my protestations. Then he sent to me a second tim and said he had received further complaints from his cus ners along with splendid testimonials.

Did he tell you that he had had your soap compar by

Mr. Stevens and Dr. Attfield?-No.

Did he tell you then that he would be obliged to ser out the notice to his customers, saying that he would he: no more to do with the sale of your soap?—Yes; sombing tantamount to that. I think he charged me with lying deceived him. I think he said I had made him a particator in imposing on the public.

Did he ever offer to you to give you back the stuff! had at 1d. a tablet?—No, sir. One of my cakes sells for 1d., including postage it weighs 1 oz. A 12-oz. cake of Scight

Soap weighs 12 oz., and is sold for $2\frac{1}{2}d$.

Except that the piece in the box of your prepara n is dry and shrivelled, is there any difference?-Yes.

What is it?-Mine contains an essential oil which the ther does not.

An essential oil of what ?—I decline to answer.

Do you manufacture the essential oil ?-Yes; I ext:t it from a vegetable ingredient. I got it from a friend the first instance. It is an American plant, well known the Homœopathic Pharmacopæia. Witress produced a ottle containing a coloured liquid.

Sir Charles Russell: It looks like hair-wash. (Lauger.) Witness: It would make a very good hair-wash.

How many drops of this precious article would be j. on a cake of that soap?—Very few drops would be necess? Except half-a-dozen drops from that bottle, is the any distinction between your preparation and Sunlight Soa -lt

is very powerful in its action for the purposes required And the addition of those drops creates the differe e in

value between $2\frac{1}{2}d$, and 16s. for 12 oz. ?—I have not word it out. The first supply I got from the plant and paid no ing. For the next I paid a wholesale chemist 18s. a pound. got it from a chemist contained in a liver-pad—Holman's ver-Pad, which was largely advertised.

Do you mean you extracted this extract from a live ad?

Yes. (Laughter.)

How many liver-pads did you buy altogether?—out half-a-dozen. My friend first gave it me in the crude te.

It looks like sawdust ?—It is sawdust. (Laughter.) Evidence was then called as to the practical merits plaintiff's preparation.

Mr. Napier, analytical chemist, of Ipswich, said thete plaintiff's production contained an essential oil that Stight Soap did not.

Sir Charles Russell, for the defence, said that every atement in the circular complained of was true in fac He should prove that plaintiff's soap was the same th: as

Sunlight Soap. Mr. James Platt, the defendant, was called, ancgare evidence with respect to his having received repeated om-plaints from his customers that Annat's Extracto was nothing more than Sunlight Soap. Upon having it tes i it 1日本による 1日

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was und to be the case. He offered to let the plaintiff have is soap back at 1d. a tablet, thus losing 5d. on it.

Cis-examined by Mr. Kemp: I have not been indemnified

in al way with respect to this action by the Sunlight Soap

Dohn Attfield, F.R.S., consulting chemist, stated that hell examined the two articles and found them to be pracally the same.

Our expert evidence was called of a similar character. Drog the course of the trial the learned judge more than once inted ont that on the pleadings it was admitted that the ractor was the sole property of the plaintiff.

M fustice Manisty having summed up, the jury retired to coider their decision, and after a short absence returned

into art with a verdict for the plaintiff, damages 5%.

M Justice Manisty entered judgment accordingly, with

Si harles Russell asked for a stay of execution.

My ustice Manisty: I see no reason for granting one. I thinlhe verdict is quite right.

PEUT DAVIS & SONS' "PAIN KILLER" TRADE-MARK.

O: Ionday, April 23, the case of re Lancaster Harbord and ade Marks Act, 1883, came before Lords Justices Cotte Fry, and Lopes in the Court of Appeal.

M: nce, Q.C., Mr. Millar, Q.C., and Mr. Whiteway appear for the appellants; and Mr. Phipson Beale, Q.C., and

Mr. ladwyck Healey for the respondents.

M: nce, in opening, said the appeal was by Messrs. Perry Davi- Sons, druggists, of the United States of America, from decision of Mr. Justice Kay striking off the register of tre marks, npon the application of the respondent, Mr. Lancter Harbord, druggist, of Liverpool, the words "Pain Kille Messrs. Perry Davis & Sons registered the words in ques n so far back as January, 1879, and they were then regis ed as an old trade-mark which had been used for forty or fif years before the passing of the Act. The first question to be ecided was whether there would be a sufficient user of th words " Pain Killer " to make them a proper subject for a tra-mark, and the second question was whether the wordvere incapable of being registered on the ground that they re descriptive. The respondent, who was the applicant the court below, claimed that the words could not propry be registered, and Mr. Justice Kay struck off the wordbut gave Mr. Harbord no costs of the application. Mr. Hart, I's case was that in the year 1886 he made up a drug whiche called "Penn's Lotion."

Mi'hipson Beale said Mr. Harbord traded under the style

of Pe. & Co.

Mince said it appeared from the affidavits which had been ed that, although the words had been used by the appella; to distinguish a medicine made only by them ever tracked year 1840, and the respondent was in the drug tracked respondent had never heard of it. A Mr. Bapti purched some of "Penn's Lotion," and in writing to Messrs. Harbi to order a further quantity, asked them to send him me "Penn's Pain Killer." Thereupon Mr. Harbord thoug "Penn's Pain Killer" would be a very good name to use fithe medicine, and adopted it. The words were first used the respondent somewhere about the years 1886 or 1887. Messrs. Perry Davis & Sons brought an action to restrainhe respondent from using the words, and the action was it by a motion to strike the trade-mark off the register. He h an affidavit by Mr. Hovenden, in which he stated that had been in business as a wholesale dealer and proprietof medicines for thirteen years, and his firm had sold a cciderable quantity of Perry Davis & Sons' "Pain Kille every year. The preparation was almost universally order and calculated by the property of the property o order and asked for by customers by the name "Pain Kille alone. He mnst say that the words had been claimed in Ca da by the appellants as a trade-mark so far back as the yr 1850. Mr. Harbord had been very reticent in giving any elence whatever. He had read to their lordships what Mr. wenden had said, and he had a number of other affidets, which he would not labour, but would simply say tt he had affidavits from two wholesale dealers in Hull, one m a wholesale dealer at York, two from wholesale deale at Liverpool, one from a wholesale dealer at Glasgow, and o from a wholesale dealer at Edinburgh, which were to a pilar effect. He also had similar affidavits from Messrs.

Barclay & Co, of Farringdon Street, London, a very wellknown firm, and from Messrs. Edwards & Sons, of Queen Victoria Street, who stated that the preparation was almost universally ordered and asked for by customers by the name of "Pain Killer" alone, and they had no hesitation in saying that the name "Pain Killer" was known in the English language as indicating Perry Davis & Sons' preparation. There were also affidavits from the manager of Messrs. Sutton & Co., Bow Chnrchyard, a very large firm; and from Mr. Newbery, of King Edward Street, a member of another large firm, who stated that the name "Pain Killer" was well known in England amongst druggists as meaning Perry Davis & Sons' preparation, and that it was the almost invariable custom of the trade to order Perry Davis & Sons' preparation under the name "Pain Killer" alone.

At this stage the Court adjourned.

On Tuesday Mr. Ince, continning his address, said there was not a tittle of evidence adduced by the respondent to show that the words were distinctive of the manufacturer: bnt, on the contrary, there was overwhelming evidence that they were distinctive of the article manufactured. He asked their lordships to come to the conclusion that there had been a sufficient separate user of the mark to make the words capable of registration under the Act of 1875; and that it was special in its invention and distinctive in its application.

Mr. Millar followed on the same side. He said the trademark had been upon the register unquestioned by anybody for nine years, when the respondent commenced to use the words upon his preparation, which he had previously called "Penn's Lotion." The onus rested upon him to show that what had been done ought not to have been done. Up to the present he had failed to show that the mark had ever been used by anybody else.

Without calling upon counsel for the respondents, Lord Justice Cotton, in affirming the order of Mr. Justice Kay, said that he did not mean to express any opinion whatever on the question whether the words "Pain Killer" were special and distinctive words. It must be shown that the words, before the Act of 1875, had been used as a trade-mark by themselves, and not merely in conjunction with other words, or as part only of trade mark. That was the effect of the decision in J. B. Palmer's Trade-mark Case (24 Ch. D. 504), which had been approved of by Lord Selborne in the subsequent case of Leonard and Ellis's Trade-mark (26 Ch. D. 288, 295). Upon the evidence in this case he could not come to the conclusion that these words, and these words alone, had been so used. The appeal failed, and the decision of Mr. Justice Kay must, therefore, be affirmed.

Lords Justices Fry and Lopes gave judgment to the same

effect.

ANTISEPTIC COLLODION.—It has often been observed that inflammations and irritation of the skin follow the administration of hypodermic injections, and it has been found that these untoward results are due to septic inoculation. To prevent their occurrence, "antiseptic collodion," prepared by dissolving $\frac{1}{6}$ of a grain of sublimate in 3 drachms of collodion has been recommended. Before injection, the proposed site is painted with the preparation to the size of a shilling piece.

THE wound in the German Emperor's throat is regularly dressed with eucalyptol. While he was at San Remo the Emperor had the prescriptions of his German medical attendants dispensed by the German pharmacist Wiedemann, while Sir Morell Mackenzie's prescriptions were dispensed by Mr. Squire, the English chemist at San Remo. In addition to surgical dressings and inhalers, the articles supplied were carbolic and boracic acid lotions, morphine and chloral draughts, stomachic powders of bismuth subnitrate, and the indispensable eucalyptol.

An American gentleman, who does not know that saccharin forms a soluble salt with soda, has discovered that 1 drachm of saccharin dissolves in a pound of glycerine when heated, and that the result is a mixture which very closely resembles in taste and appearance the best white honey. It dissolves readily in water, milk, tea and coffee, wines and liquors. Two teaspoonfuls added to the juice of one lemon, made up to 8 fluid ounces, makes a lemonade sweet enough for almost any one, and three teaspoonfuls to 4 ounces of stewed cranberries makes a dish "fit for a king."

Gazette.

PARTNERSHIP DISSOLVED.

Thomas & Humphreys, Llanfair and elsewhere, physicians and surgeons.

THE BANKRUPTCY ACT, 1883.

RECEIVING ORDERS.

Bayley, Arthur H., late of Stonefield Street, Islington, present residence unknown, medical labeller, or writer of embossed letters upon medicine buttles

Dixon, Cecil Bernardino, and Dixon, Sara (trading as Dixon & Cardus), Northam, Southampton, oil-cake and artificial manner manufacturers.

Hodgson, William Bacon, Manor Park, Essex, physician and surgeon. Howarth, Robert Scowcroft, Cheetham, Manchester, chemical manufacturers' manager.

Joures, Robert, South Shields, chemist.

FIRST MEETINGS AND PUBLIC EXAMINATIONS.

Dobson, George, Leicester, chemist—April 27, 28 Friar Lanc, Leicester; May 16, Castle, Leicester.

Joures, Robert, South Shields, chemist—May 3, Official Receiver's office, Newcastle-on-Tyne; May 3, County Court, Newcastle-on-Tyne.

Key, David Thomas, Edith Villas, West Kensington, surgeon—May 2, 33 Carey Street, Lincoln's Inn; May 17, 34 Lincoln's Inn Fields.

Milner, Edward, Micheldever, Hampshire, and New Cavendish Street, London, surgeon—May 8, Chamber of Commerce, 145 Cheapside; May 9, Castle, Winchester.

Scott, William, Huddersfield, doctor of medicine—April 27, Messrs.

Haigh & Sons, New Street, Huddersfield; May 14, County Court,
Huddersfield.

ADJUDICATIONS.

Joures, Robert, Sonth Shields, chemist.
Scott, William, Huddersfield, doctor of medicine.

NOTICES OF DIVIDENDS.

Briscoe, Henry John (trading as Briscoe, Son' & Co.), Litherland, Lancashire, and Liverpool, general merchant and produce broker—first and final div. of 1s. $5_{10}^{2}d$., April 27, Official Receiver's offices, Liverpool.

Deacon, Henry Pelham, Willesdeu Lane, Willesden, lately in partnership with C. C. Dickson, surgeon—first and final div. of 3½d., any day except Saturday, Chief Official Receiver's offices, 33 Carey Street, Lincoln's Inn.

Hancock, Henry Joseph, East India Dock Road and Preston's Road, Poplar, veterinary surgeon—first and final div. of 5s. 11d., any day except Saturday, Chief Official Receiver's offices, 33 Carey Street, Lincoln's Inn.

Kelsey, William, Chalford Hill, Bisley, Gloucestershire, L.R.C.P. and L.R.C.S.—first and final div. of 11\(\frac{a}{l}\), any day, Official Receiver's offices, Gloucester.

ORDERS MADE ON APPLICATIONS FOR DISCHARGE.

Leon, Marcus (trading as Marcus Leon & Co.), Grosvenor Road and Claverton Street, Pimlico, chemical manufacturer—discharge granted subject to certain conditions.

Ralph, Philip, Hereford, chemist and druggist and farmer - discharge suspended for six mouths.

FAILURES AND BANKRUPTCY REPORTS.

Re DAVID POWELL, St. Thomas, Chemist and Druggist.

This bankrupt has been further examined at the Swansea Bankruptcy Court, before Mr. Oliver Williams, deputyregistrar. The statement of affairs shows gross liabilities amounting to 1111. 5s, out of which 1051. 0s. 6d. was expected to rank. The deficiency account showed 501. 18s. 11d. to the bad. The deputy-registrar expressed himself thoroughly satisfied with the answers given by the bankrupt, and adjourned the examination for a month, when it will be closed.

Re JACOB HUGH PAYNE, Thrapston, Chemist and ruggist, and Sauce Manufacturer.

This debtor came up for his public examination t North-ampton Bankruptcy Court last week, before Dr. aukner, registrar, and in answer to the Official Receive said he borrowed 120%. from his wife in 1884 to carry on housiness. He had failed previously, and had also made a coposition with his creditors. His wife's claim did not rank dividend. His stock had depreciated in value in course of realisation. His provisional patent for a cerl in sauce lapsed in February. He placed a high value on but had been disappointed. The examination was lipourned until May 8.

Re G. M. DELPECH, 21 Mincing Lane, Colonial roker.

THE debtor, trading as a colonial merchant and roker, at 21 Mincing Lane, and Havre, under the style of G. Delpect & Co., has filed his petition, and upon the appearance of Messrs. Stocken & Jupp, a receiving order was meeting by Mr. Regis rar Hazlitt. In reply to questions, the debr stated that the rent of his office in Mincing Lane was 1% a year and there was a quarter in arrear. His unsecured iabilities were about 12,000l, and there were also secured at contingent liabilities amounting to about 15,000l. His ets comprised book debts (good and bad) to the amount 19,000l, and furniture at his residence at Greenhithe about 00l.

MARRIAGES.

[Notices of Marriages and Deaths are inserted ee if sen with proper authentication.]

BEMAN—HORNER.—On March 26, at Bethe Chapel Sunderland, by the Rev. W. H. Harwood, assist by the Rev. F. R. Roberts, J. H. Buckley Beman, wholesa druggist Leeds, to Elizabeth Mary, eldest daughter of Counc or Henry Horner, Sunderland.

FINDLATER—KELMAN.—At Aberdeen, by spec licence on April 11, William G. Findlater, chemist, to Ro la Came ron, youngest daughter of James Kelman, Auchin le, Banff shire.

DEATHS.

BROWN.—On March 28, Mr. William Henry Brod, chemis and druggist, Union Street, Ryde, I.W. Aged 38

CORBETT.—On April 17, Mr. Harcourt Edmw Corbett chemist and druggist, Kingswood Hill, ne Aged 40.

EDGE.—On March 25, Mr. Robert Edge, chemis and drog gist, Aintree, Liverpool. Aged 44.

ERBA.—On April 8, Mr. Carlo Erba, head of manufacturers of pharmaceutical preparations che same name, died at Milan. Aged 77. Mr. Erba, who life in very poor circumstances, at the time of his eath controlled what is probably the largest establishme of pharmaceutical specialities in Italy. The deceased ago gave a munificent donation for the advancem maceutical studies in Italy, and is said to have be fortune of fourteen millions lire (=560,000l.) of which twelve millions are left to the deceased's only ther, and the remainder to various legatees.

JONES.—On April 14, Mr. Frank Jones, chemis and druggist, 83 Oxford Street, Liverpool. Aged 42. The deceased had been dispenser at the Cancer Hospital for sor time.

KENNEDY.—On April 7, Mr. William Kenned pharma ceutical chemist, Trongate, Glasgow.

MARTYN.—On April 8, Mr. Edwin Row Martichemis and druggist, Frankfort Street, Plymouth. Aged

Scalfe.—On March 30, Mr. Christopher Thos Scalfe chemist and druggist, Bridge Street, Worksop. And 42.

WRIGHT.—On April 11, Mrs. Ann Wright, c nist and druggist, Olney, Bucks. Aged 64.

Trade Hotes.

Wood vol, hitherto a Norwegian product, is now made in this col ry by the Hartlepool Wood Wool Company.

MR.TH AS BIGG, of Leicester House, Great Dover Street, Borough, ondon, has just issued a useful pamphlet on sheep and amb dipping, with special reference to his composition.

A BILL is been introduced in the Parliament of Quebec to consoli te and amend the law respecting fraudulent marks on rchandise. The provisions of the Act are similar to the Mer and ise Marks Act of the United Kingdom, and is the sam is the Bills which are to be adopted in all British colonies, consequence of representations made by the Prime Mirter.

MESSAS RESSWELL BROTHERS, sponge merchants, 2 Red Lion Squ', nave just added considerably to the commodiouse of their premises by taking a lease of the house on Square, an old town residence of Miss Florence Nightinga

The new premises consist of a house of four floors, rest bling No. 1 so closely as to appear uniform with it. The fight have made the alterations necessary to make the so into one, and will now be in a better position than ever or storing goods and for doing business with dispatch.

TABLOI TRITURATES.—The latest form of elegant pharmacy from the laboratories of Messrs. Burroughs, Wellcome & Cc s the tabloid triturate. This form for administering medical they have already made familiar in the strophant; tabloids, and now extend it to a long list of remedies, ost of which are of a potent or nauseous character. For some time Drs. Lauder Brunton, Murrell, and other have paid attention to "triturations" of drugs as means of administering these in a well-divided state. Trations, according to the United States Pharmacoppeia, a mixtures of 10 parts of the medicine with 90 parts of s ar of milk. It is upon this basis that Messrs. Burroughs Vellcome & Co. have worked, adapting, however, the proportioning the trituration into tabloids, so that the triturates are a typ are between 1 and 2 grains in weight, and are put up in affities and have done in the vinaignetite bottles which the firm much to make popular.

NEW COMPANIES.

HOBBS' PATENT AUTOMATIC INFUSER COMPANY (LIMITED -Capital, 5,000*l.*, in 1*l.* shares. Object, to purchase from Ir. James Hobbs, of 13 Springfield Road, Brighton, animy ved apparatus (Patent No. 6,672, 1885) for making small quantities, intended more especially for with the stock, &c., connected therewith.

NORMAL TOOD COMPANY (LIMITED).—Capital, 250,000l., in 5l. sha; Object, to acquire the business, &c., of the Highland Company (Limited), and the Normal sheries Company (Limited), and the Normal imited), and to carry on the business of sea fishing, fis merchants, fish dealers, fish carriers, curers, and manufacters of and dealers in fish, fish extracts, soups, eakes, oil glue, manure, guano, and other products of fish, and the waste products of fish.

NATION PURE DRINKING-WATER AUTOMATIC SUPPLY ASSOCIATE (LIM.).—Capital, 100,000l., in 1l. shares. Object, to manufa are and deal in automatic machines for the supply of pure war or other liquids, and to acquire certain letters patent for e manufacture of the said machines.

TAYLOR DRUG COMPANY.—Capital, 20,000l., in 1l. shares. Object, to quire the business of patent-medicine vendor, drug merc at, and general storekeeper, at present carried on by Mr. illiam Barker Mason at 3 Albion Street, Leeds; 3 Bear Lee, Leeds; 14 and 15 Thornton Arcade, Leeds; 60 Kirkg; Bradford; 372 Manchester Road, Bradford;

Market Place, Pudsey; and 24 Westgate, Dewsbury. The first subscribers are the said Wm. B. Mason, wholesale druggist, Lifton House, Leeds; W. J. D. Bratt, pharmaceutical chemist, 61 Ackhurst Street, Bradford; H. B. Thompson, warehouseman, 159 Roundhay Road, Leeds; T. G. Milburn, accountant, 58 Woodsley Row, Leeds; J. Pickering, registered chemist, 5 Burton Slow Lane, York; J. G. Hopps, registered chemist, 7 Fountayne Street, York; and J. Cookson, chemist, 2 Providence Row, Clay Pit Lane, Leeds. The business of the company shall be carried on by Mr. Mason, who shall be managing director, and he may also hold the office of secretary, and shall not be removable.

SIR ANDREW CLARK is reported to have once made the remark, "I worked twelve years for bread, twelve years for butter, and twelve more for the luxuries of life."

A POMADE FOR SCURF.—A case of apparent chronic sulphur poisoning from the use of the following pomade is reported:—

The patient had used this for some time to cure dandruff of the scalp, applying it every second day. The physicians who attended the patient say that the poisoning was directly caused by the oxidation of the sulphur and its mingling with the perspiration, forming sulphurous acid, which was absorbed. The cessation of the use of the pomade was followed by speedy restoration to health.

Poisoning Cases.—An inquest was held at Dudley, on Monday, on the body of David Williams (17), a pupil-teacher. It appeared from the evidence that deceased had lately been studying very hard, and this apparently had affected his head. On Saturday morning he was found by his father in an unconscious state, and a letter written by him showed that he had contemplated suicide. Mr. George White, chemist, said Albert Sheldon and deceased called on Friday night, and the former asked for something to kill a dog. An ounce of prussic acid was supplied. Williams witnessed the sale and Sheldon paid for the poison. Sheldon corroborated this, and Dr. Higgs proved that death was due to prussic acid. A verdict of "Suicide whilst in a state of temporary insanity" was returned.—Margaret Jane Carson (18), lately a nurse at 29 Cranworth Street, Ardwick Green, Manchester, was dismissed from her situation last week, and was so affected on this account that she immediately went to the shop of Mr. James Meacham, chemist, 287 Hyde Road, and asked for a packet of poison to kill rats. She was supplied with a threepenny packet of "Battle's vermin-killer." She returned in the course of three-quarters of an hour, and, alleging that she had lost the powder, asked for another packet. Before it could be given she fell to the floor, evidently in a fit. Assistance was obtained, and the young woman was at once conveyed to the Infirmary, where she died. She had swallowed the vermin-killer. The facts were elicited at an inquest held on April 25.—At Sheffield, on Tuesday, Leonard Hill, a shoemaker, attempted to commit suicidel with threepennyworth of chlorodyne and some Battle's vermin-killer, and after suffering three hours' pain he regretted the act and called in medical assistance to aid in his recovery.—On the same day, at Denton, an inquest was held on the body of George Darling (25), who died somewhat suddenly at his father's residence, on Monday morning, from the effects of an overdose of a sleeping draught.—Vermin-killer has been unusually run on by suicides lately. At Birmingham, on Wednesday, an inquest was held on the body of Jessie Huxley, who had swallowed a packet of vermin-killer containing 8 grains of strychnine. Sensational reports have been published during the week of an enormous poisoning crime said to have been committed in Brazil by a Senhor Joaquin Bueno, who is said to have used strychnine and chlorate (? chloride) of mercury to poison the wells, the wine, and the provisions belonging to some Indian villages, and to have succeeded in his villany to the extent of securing nearly 4,000 corpses. The story has been officially and definitely contradicted by the Brazilian Minister, but whether it is a pure invention or only an exaggeration of some actual circumstances remains to be ascertained.

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17/ per cwt. bag included, 18;- in 28 and 56 lb., 20;- in 7 and 14 lb. parcels
Cleaned and Ground, so as to retain the natural colour of the seed without being
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The Woodha'l Bromo-Iodine Water is now being bottled at the ring and can be obtained from any Chemist, or on application direct of the Spa, Woodhall, Lincoln.

Note.—The NEW BATHS and PUMP ROM are now open to the Public.

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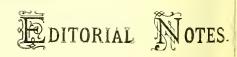
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LEGISLATORS ON PHARMAC

THE letter printed at the head of our correspondence stion this week shows that the opposition to the branc shop clause, raised on the part of certain unqualified manages, in what we have more than once testified to have been a asonable and temperate manner, has been effective. The promoters of the Bill in the House of Commons have connted to amend the clause in committee in such a way as to empt existing managers of a certain status. This informion is quite authoritative and reliable. And there is reason, believe that if the Bill were to have a chance of passing cha course as that agreed to by Sir Henry Roscoe and Dr. rquharson was the only one to be taken. Our Nottingh: report contains three letters from Members of Parliam t, all indicating a strong reluctance to assist by legislatio anything approaching restriction of industry. We are dotful of the possibility of framing a clause which shall mply exempt those managers who may be thought to have ome thing like a claim to such exemption, but if it can b lone, it will make a desirable reform possible without occa ning too much hardship. Our information leads us to belie that the support of the Pharmaceutical Council to this pendment may be looked for, and as it will remove th most serious opposition to the Bill, it leaves a fairly clea path for its passage.

The Council of the l'harmaceutical Society of Irel lappear to be preparing their Parliamentary campaign ith a certain degree of deliberation, and we presume the have given up any anticipation of getting their Bill pass year. At the best, they will be able to do no mo than

n ea demonstration in the House of Lords this year, for u er the most favourable conditions the hot weather will cainly reach the House of Commons before the Irish Prmacy Bill, and there is absolutely no chance for an o sed Bill which is read a first time when the temperature is ar 80°. The recent discussion in the Irish Council reyes the interesting fact that Lord Milltown does really consir the bills which he introduces. We are afraid that in sce of our previous comments we have done him an injustice in is respect. It is also satisfactory to find, from his commts, that the noble Lord is ready to give fair consideration at due weight to criticism from outside quarters. His vis in regard to "chemists and druggists" in Ireland have re hed very nearly the position we have persistently taken, ar he is certain, sooner or later, to support in full the only repnable and permanent solution of the difficulty, which w be to create or restore arrangements providing for the esplishment of two classes of pharmacists in Ireland.

ord Milltown indicates that he will not support any plan folegalising the status of "chemists and druggists" in Ir nd except by a modified examination, and the Council age to provide such an examination. This, it seems to us, is ut ordinary justice. The men who in Ireland have es lished themselves as "chemists and druggists" since 18, if they have not broken the law, have certainly not be squeamishly respectful to it; and it is hardly right that th should be rewarded, while more scrupulous men should finthemselves in a worse position. But then these unreco ised chemists and druggists have supplied an undo ted need, and that need will continue to exist. The Bis not worth passing merely to get the Pharmaceutical Sorty out of a temporary difficulty. What Lord Milltown nes to do is to see that provision shall be made for a steling moderate examination, which shall ensure to all pa of Ireland a sufficient supply of traders who can be tried to carry on the necessary transactions in poisons.

e attempt on the part of the Irish Council to introduce use directed against the stores Lord Milltown flatly refer to have anything to do with. He makes its excision andition precedent to his undertaking charge of the Bi We are not surprised at this resolution, though we rest it, but we commend it to the consideration of those who valiantly urge the addition to the English Pharmacy Bi simple and sweeping clauses drawn up for the express besit of a class, and not of the public generally.

HE PHYSICIAN ABSORBS THE PHARMACIST.

THpitiful picture which Mr. Kinninmont drew in Edinburgh a imight ago of the prospects of Scottish Pharmacy, in the vent of the Pharmacy Acts Amendment Bill becoming lawvas a somewhat staggering prospective climax to the hop of those who believe that a pharmaceutical curriculum will e the saving of the drug trade. "The Bill," he said, "sply meant for Glasgow and all like cities a great depre on in legitimate trade. It would make the trade too ext sive for the remuneration that was to be had in phracy. The result would be that the medical men would be erywhere and the chemist nowhere—in fact, the latter wol have no locus standi. In Glasgow there were three me al men for one chemist, and by and by there might be six n fact, their profession was being squeezed out, owing to competition of medical men and the competition of sto." Glasgow is undoubtedly peculiarly situated, and, as it the kingdom, its poson as regards pharmacy is worthy the attention of

pharmaceutical legislators. When the British Pharmaceutical Conference was held in Glasgow in 1876, English visitors had their eyes opened as to the everywhere-presentness of the "doctor's shop." A dozen years have only helped to increase the number, and meanwhile the city chemists have been shorn of their profits by the advent of the cutting stores. It is in the knowledge of these facts that Mr. Kinninmont has sounded his note of warning, and that Glasgow chemists have resolved to strenuously oppose the Pharmacy Bill.

The point raised by Mr. Kinninmont in regard to the relative cost of the medical and pharmaceutical curricula is one which deserves to be taken into account. It is obviously a matter of the highest importance to the community to know that a youth may be educated for the medical profession at but a slightly greater cost than will be required for a minor branch of that profession. Is this really the case, however? Mr. Kinninmont gives little information on the point, but it is well known that Glasgow is very favourably situated as regards medical education. The university degrees of M.B. and C.M. can be obtained for a minimum charge of 90l., Aberdeen only of all the other universities in Great Britain beating this figure. Then there exists in Glasgow an admirable institution-Anderson's College—which imparts sound medical education, sufficient for the double qualification of the Scottish colleges, at a cost of 48l., or just double the sum that will be required for the courses of lectures and teaching in chemistry, botany, and materia medica which are contemplated by the Pharmacy Bill. But lecture fees do not comprise the total cost of education; a much more serious matter is the time which must be devoted to study, and the present regulations of the medical qualification require that a period of not less than forty-five months be spent at a medical school, whereas the pharmacy curriculum will cover a period of ten months only. The expenses of maintenance must therefore be much higher in the one case than in the other; and there have to be added to the higher expenses the greater outlay for books, anatomical and other subjects, and higher examination fees, the whole constituting a powerful deterrent against entrance to the medical profession by those who swell the ranks of pharmacy in the West of Scotland. We fail to see, therefore, that there is any strong reason on the ground of cost for supposing that pharmacy will be deserted in favour of medicine. There must be stronger reasons for the desertion, and these reasons probably lie in the demand for cheap doctoring and physicking which exists in populous manufacturing towns. Glasgow has a peculiar population of this kind, made up largely of Irish immigrants and their descendants, who have come to this country in blessed ignorance of doctor's fees and a strong belief in the union and dispensary systems. Consequently, doctors' shops bulk largely in the pharmacy of the city. But there is another reason for the number of doctors' shops, viz, that doctors do not dispense their own medicines, but arrange with chemists to have a consulting room in their shops, where they may see patients, and in return for this the chemists get the dispensing to do. In many cases the doctor becomes jealous of the chemist's success, and opens a shop for himself. The chemists arc not altogether blameless for this condition of things; it is peculiarly a west of Scotland custom, and has failed to get a foothold in other important towns in Scotland. The custom has greatly helped to foster the absorption of the pharmacist by the physician, by tempting the doctor to become a chemist and the chemist to become a doctor. It is quite opposed to the spirit of the age, distribution of labour being the tendency of the times; and we have a hope that the English dispensary system, which is a somewhat parallel case, will ere long give place to more thorough methods of medical treatment. The dispensary is not, however, an open 'drug shop, and does not encroach upon the domain covered by the Pharmacy Acts; doctors' shops do, and it is a matter for consideration whether they ought not to be subject to the same regulations as the shops of chemists and druggists. So long as they are bonâ fide conducted by the owners themselves, no harm can result; but when the managers are girls and unqualified youths—as many in Glasgow doctors' shops are—it is obvious that an element of danger is introduced which is contrary to the spirit of the Pharmacy Acts.

THE HEALTH OF LONDON.

In a short note published last week we quoted a few figures from the report of the Registrar-General for 1887, showing the apparently steady progress of the metropolis towards sanitary perfection. We showed that since 1840 the London death-rate had diminished from 25 to 19.6 per thousand. If the improvement has been fairly spread over persons of all ages, and proves to be an established one, it may be read in the reverse way as meaning that a Londoner has now a chance of life twenty per cent. better than his father had, and this notwithstanding the vast increase and greater density of population. Registration London is comprised in 77,410 acres, or 121 square miles. The space has not increased, but the population living in that area has nearly doubled. that, while in 1841 there were 25 persons living on each acre, in 1881 there were 49 persons in the same space. But it may be fairly argued that a much larger proportion of the workers in London proper go out of its limits every evening, and that these, though they may contract disease within its boundaries, go away to die. To see how that consideration would reduce the comparative healthiness of London, we refer to the Registrar's tables applying to what he calls Greater London. His limited London is a space enclosed within a rough sort of square extending about 11 miles in each direction, and containing a population estimated in the middle of 1887 to have numbered 4,215,192. The "outer ring"-which includes Barnet on the north, Leyton and West Ham on the east, Croydon and Epsom on the south, Brentford and Uxbridge on the west—has a total population of 1,200,874. The death-rate of the inner and more densely populated city is, as we have said, 19.6; that of its outlying suburbs, to which it may be thought many of its inbabitants go to die, is only 15.9, a better figure than the 16.88, which is the death-rate of Brighton, the apparently healthiest of all the large towns in England and Wales. Taking London with its outer ring, the mean death-rate for the whole is reduced to 18.9, which is very near that of all England and Wales taken together, where it is 18.78.

Comparing London with the rest of the country, we find it is only surpassed in the lowness of its death-rate by eight of the 28 towns specially reported on by the Registrar. These are generally the smaller of the 28, namely, Brighton, Derby, Norwich, Nottingham, Hull, Portsmouth, Leicester, and Sunderland. Birmingham is almost on a level with London. The great manufacturing towns of Lancashire and Yorkshire are all much worse. Where 1,000 people would die in England and Wales generally, the same population in Brighton would give 925 deaths, in London 1,106, in Birmingham 1,120, in Leeds 1,199, in Liverpool 1,384, and in Manchester 1,701.

London compares favourably, too, with foreign capitals. In Paris the death-rate is 23.4, in Brussels 20.9, in Amsterdam 22.1, in St. Petersburg 27.8, in Berlin 21.9, in Vienna 25.9, in Rome 28.8, in New York 26.4, and in Philadelphia 21.9.

Sanitarians and medical men are fairly entitled to great deal of credit in bringing about the satisfactory colition which these statistics manifest, and it seems to us t t the much-abused Metropolitan Board and City Corpation deserve some respect for their courage in dealing bolly, if perhaps sometimes extravagantly and mistakenly, wit such difficult matters as drainage, unfit houses, disinfecti, &c. The diminution of disease and death is attributable ainly to improvements in these respects. Medical skill wou seem to be a much inferior factor. During the past year neer, diseases of the circulatory system, and diseases the urinary system each secured a greater proportion of time, and it is noticeable that this increase has been a con wous one during the past four years. Deaths due to preature birth are similarly steadily on the increase. The irrovement in recent years is most marked in fevers, tulcular diseases, and diseases of the respiratory system. With gard to fevers, the statistics are somewhat surprising. It ill be remembered how alarming were the daily reports the papers during the latter half of last year in regard the spread of scarlet fever. It now appears that thetotal number of deaths during the year from that diser was 1,447, being a rate of 0.34. The number of deat was somewhat in excess of that of either of the two immedately preceding years, but was considerably below the mual average of the previous ten years, which was 1,965, o rate of 0.47 per thousand. Measles in 1887 claimed exact twice as many victims in London (2,894) as scarlet fev and whooping-cough was even more fatal, its record bein 3,948. Measles and diphtheria are the only zymotic diseases which seem to be on the increase. Small-pox, which from 77 to 1886 averaged in London annually 1,141 deaths, occored only 9 deaths in 1887. The same number is attribled in the year to "cow-pox and vaccination." Hydroph ia is credited with 2 deaths in 1887, the annual average bog set down as 10. It is curious to observe that while the neral improvement is progressing, "old age" is also reduc as a cause of death from 2,801 (average) to 2,458 (in 887). London deaths from accidental poisoning in 1887 we 64, the average of the previous ten years having been 75 from suicide by poisoning, the number was 71 against , the annual average. The mean temperature of the air at reenwich during the year was 47.8°, or 0.8° below the avege of the previous 115 years, though in the summer it v 1.3° above the average.

PULQUE: ITS SOURCE AND MANUFACTURE.

THE question recently asked in the House of Comm's by Dr. Cameron, of the Secretary to the Treasury, regard 3 the decision of the Commissioners of Inland Revenue to pose a licence on an importer of Mexican pulque in Edit righ, has raised some interest as to the origin and nature the spirit in question. The following notes on the subject therefore be of interest.

Pulque is the national drink of the Mexican people and is obtained from the American aloe (Agave americana), plant which is much cultivated in greenhouses in this count is known in Mexico as the "maguey," or "tree of we and is considered, in its numerous varieties, as one most important productions of the Mexican soil.

The best account of the Agave americana and its u given in a report by Her Majesty's Secretary of Lega n on the commerce of Mexico in 1865, from which the following notes are taken. Pulque, it seems, was well known ancient inhabitants of the Mexican continent, for fabulous traditions connected with it, and which we col-

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ren Thi lect by the missionaries who came to the country in the earl lays of the Spanish occupation. One of these is the des ction of a race of giants indigenous to the valleys of Atoc and Matlacueqe, and of cruel propensities, by more civied races who had come to settle there, the former hay; fallen asleep from the somniferous effects of the juice of maguey, whilst the discovery of the juice itself, wheer under its ancient denomination of "metl," "aguamie (honey-water), or "pulque," was attributed, by a porta of the ancient inhabitants of Mexico, to the god Izorecatl, as would appear from various symbolical inscriptior ound in the country. More modern tradition, however as fixed the epoch of its discovery to about the years 104 o 1050, under the reign of the cighth king of the Tal tribe, named Tepaucaltzin, at whose court a relation of h named Pepautzin presented himself and informed him that is daughter had discovered that a sweet and aromatic liqu sprang from the metl plants in her garden. The king orded her into his presence, and she brought him a "te netl," or vase, of the liquid she had discovered, which he tted and then ordered her to bring him more, and subsequitly becoming enamoured of the maiden—whose beauty was eat, and whose name was Xochil, or flower—he married her, which union a child was born, to whom was given the me of Meconetzin, or "Son of the Metl," or maguey, in a sion to the circumstance which was the origin of his pares' first interview.

Wither the discovery of the use of the juice of the magy is really to be attributed to the god Izquitecatl, or to Queen Xochil, there is no doubt that the various pro ties of the plant itself were known many years before the scovery of Mexico by the Spaniards, for, not only is it mer ned as furnishing thorny scourges, as well as whips, mac of the fibres of the plant's leaves for the multitudes who mually met to celebrate a festival in honour of the god xcatlipuca in the great temple of Tenochtitlan (the moon Mexico); but the use of the juice became so general that nany severe laws against the drunkenness resulting froit were issued by the ancient Mexican kings, mention beir made of a widow, who sold it promiscuously, having been put death by the order of the King Netzahualcoqatl, only worn suckling infants, old people, and soldiers upon the man being allowed to drink it.

Nwithstanding that the primary object of the Spaniards who ame to Mexico in the earlier periods of its subjection was o search for the precious metals, the maguey plant also ccupied their attention very considerably, especially whe increased intercourse with the natives revealed the varies of uses to which the plant was put by them, and was fully treated of by the authors of the time. The plar nay be cultivated at an elevation of 10,000 feet above the rel of the sea, but is grown with greater success at an elevion of about 9,000 feet. Though the plant is grown in mai parts of Mexico, the great maguey district is that of the hins of Apam, embracing a range of territory of more tha 300 square leagues, almost covered with the plant, etth in its wild or cultivated state. This vast maguey dist t is now entirely destitute of trees, although vestiges rema of cedar forests which formerly existed there, the soil ing light, stony, and apparently arid in many places indel, nothing can be less agreeable to the eye or promising in general aspect than these or any other maguey plantati s, although so surprisingly productive. In the district refred to there are maguey-growers whose estates are not wor less than some millions of dollars, taking into account the lantity of pulque produced.

Afar as can be ascertained from the meagre statistical receis of the time, not more than from 50 to 60 pulque

estates existed during the last two centuries, whilst, in the several districts of the Mexican table-land of Teotihuacan, Pachuca, Apam, and Texcoco, there are now 178, and from 80 to 100 in the district of Ilaxcala.

The following is the mode adopted for the extraction of the juice of the plant, and the manufacturing from it of pulque. So soon as the leaves begin to turn yellow, a small concave aperture is scooped out, by means of a keen-edged knife called an "iztetl," in the core of the plant, which is usually from 18 to 20 centimetres in diameter, and this aperture is gently scraped round, care being taken that no incision be made in the leaves or fibres around it, for fear of imparting a bad taste to the juice. This operation produces a sediment denominated "raspa," through which the juice, generally known under the technical name of "agua-miel," or honey-water, exudes from the grooves of the plant: this juice is extracted by the "ilachiquero," or maguey labourer, by means of an elongated gourd formed into a tube, called an "acocotl," the air in which is exhausted by suction, and which he thrusts into the incision in the core of the plant, stopping the aperture at one end with his finger, and emptying its contents into his "zurron," a sort of impervious sheepskin bag inserted in a net and strapped to his back. Each labourer has usually the care of from 50 to 60 plants, from which he extracts, or, as it is technically expressed, sucks from about 110 to 120 arrobas of honey-water per week. As soon as his zurron is full, he carries it to the "tinical," or pulque manufactory, very commonly returning to each plant, and performing the same operation of scooping round the incision and exhausting the juice it contains, twice in the day, taking particular care to cover up the aperture with leaves and stones, lest the cattle, dogs, or cagates—a small species of jackal, which infests the country in large numbers -should get at the juice.

The honey-water varies in quantity, colour, and quality, according to the variety of the plant, the producing time of which may be said to extend on an average to about three months, although some sorts only yield juice during a period of twenty days, and other sorts are so plentiful that they yield it during six months, and that in large quantities. The least productive variety of the plant is calculated to yield about 60 arrobas of juice, that of an average sort about 80 arrobas, while the finest sort of all, the "manso legitimo" of the plains of Apam, yields, when it has attained complete maturity, from 140 to 160 arrobas. The average quantity yielded by each plant, one with another, may be roughly estimated at about 100 arrobas.

The "tinicales," or pulque manufactories, of the different maguey plantations, consist of a long covered-in gallery, well ventilated, and containing rows of vats made of bullock's hide stretched over a wooden framework, and smeared with lime on the outside, into which the honey-water is emptied so soon as it is brought in from the plantations, and which in about thirty-six hours begins to ferment, throwing up large bubbles of froth, losing its pristine transparent colour, and assuming a milky-whitish tint, which it permanently retains. It was formerly the habit to throw lime or a plant called "oegractli" into the honey-water, in order to produce a greater degree of fermentation, but now only a small quantity of "madue del pulque," or pulque already manufactured, is poured into the empty vats, which quickly deposits a thick and whitish-coloured sediment, upon which the new juice or honey-water is thrown in: the mixture after fermentation being ready for use is then sent off to the city of Mexico. Puebla, or the nearest market within a radius of twenty or thirty leagues, the pulque very often undergoing a considerable dilution with water by the way at the hands of the "arrieros," or carriers, who convey it in sheepskin bags upon

mules and donkeys. The quantity which thus annually enters the city of Mexico alone may be estimated on the average to he about 2,000,000 arrohas, and ahout 500,000 arrobas go to Puebla. The cost of transport alone has been calculated, taking the approximate average of one real as that of each arroba, to amount to 312,000 dollars. Not less than 20,000 mules and donkeys laden with the beverage enter the city every month by the gate leading to the maguey districts. To the quantity paying duty must also be added a considerable quantity which is smuggled in, and including this it may be calculated that about 50,000,000 bottles are now annually introduced into the city of Mexico, and the amount of money annually expended in the drink, at the average rate of about a quarter of a real per hottle, represents a sum of about 1,600,000 dollars, the number of "pulquerias," or pulque stores, within the capital (which, in the year 1771, when the increasing popularity of the beverage compelled the Spanish Viceroy to issue special regulations respecting licences to sell it, &c., amounted to thirty-four, afterwards increasing to eighty) now amounts to over five hundred. These stores are usually painted in gay colours outside, the wall behind the counter almost invariably exhibiting a rudely-executed allegorical fresco setting forth the "power of love" under the stimulating effects of the maguey plant, Venus, Bacchus, and the nymphs occupying prominent positions in the background, whilst a little image of the Virgin, with a lamp burning hefore it, occupies a retired corner of the establishment.

The best quality of the heverage is known under the different denominations of "pulque fino," "pulque dulce," or "pulque fuerte," whilst the inferior sort, the produce of the maguey planted in an inferior soil, and which is commonly consumed only by the poorer classes of Indians, hy whom it is often manufactured in earthen pots, is called "ilachique," and there is another sort sold in the pulquerias composed of an admixture of this with some other sorts of a somewhat better description, denominated "pulque criollo," or creole pulque. On account of the manufacture of ilachique being erroneously supposed to be carried on hy the poor Indian population alone, it is subject to the payment of a very slight duty, and little is known of the real amount of its consumption.

It is stated that a chemical analysis of pulque shows it to contain in different proportions, according to its quality, alcohol, mucilaginous fecula, sugar, water, and potash. It has been observed that the drunkenness produced by it under its different varieties is of a less violent description than that produced by another common heverage of the country, "chinguirits" (hrandy made from the sugar-cane), and that delirium tremens is rarely produced by the immoderate use of the former, though often by that of the latter. It is also affirmed that the pulque-drinker is commonly long-lived, whilst the reverse is the case with regard to those addicted to chinguirits, and that the former beverage, notwithstanding its somewhat acid taste, is, probably on account of the fecula contained in it, peculiarly heneficial to women suckling their infants, and to those requiring a wholesome stimulant. The excesses committed by the lower orders during a riot occasioned by the high price of maize in the city of Mexico in the year 1692, heing attributed to pulque-drinking, its use was prohihited altogether; this prohibition, however, was afterwards removed, and the Crown of Spain allowed its sale again under certain restrictions, incorporating the tax upon it with other colonial imposts, in which, in course of time, it hecame a highly important item, producing in some years a sum of more than 1,000,000 dollars to the Treasury. During the fcw years which preceded the war of independence the annual amount of the pulque tax was from about 600,000 to 700,000

dollars, hut in the year 1810 it fell to about 500,00 and in 1811 to 400,000 dollars, and from that the present it has continued falling, until it has replied the present comparatively low average of ahout 200,00 annually, the cause of so sensible a diminution begained attributable to the extensive system of smuggling ried on, and to the increasing neglect and indifference amongst public functionaries during a long lapse of anarchy and confusion.

A spirit called "mezcal" is also made from the p of the maguey plant, heated in a kind of oven which is n le in the ground, and which is of the simplest possible confuction; and after fermentation has taken place, it is passe through an alembic two or three times until it attains abou 60 to 80 degrees of strength. It can be made from every cription of the maguey plant, but the varieties hest adapt for its manufacture are called the "chino," "manso," and "nemetl." The consumption of this product, however, trifling compared with that of pulque. The manufactu of this spirit, often erroneously called a wine, "vino de zeal," is almost exclusively carried on in the States of G dalajara and San Luis de Potosi. That manufactured in the former State, generally distinguished under the name of 'equilla," from the name of the place where it is principall made, is very generally consumed throughout the country on that manufactured in the latter is almost all sent to G naxuato and Zacatccas, and is consumed by the mining la arers of those districts. In the two first-named States the are extensive tracts covered with what is termed "magu verde," or green maguey, which is too poor to produce as but the worst quality of pulque, and is consequently turn to the manufacture of mezcal. The plants, which grow spor neously, are cut down at certain seasons, and are never speed to flower, which causes a greater proportion of sap concentrate within the trunk.

Besides these spirits the agave yields gum, said be used in medicine, vinegar, sugar, &c. On this point were told that "the helief in the efficacy of the medicinal proprties of the plant is universal among the Mexican peasantry o whom it has been handed down from time of remote antiqy; thus the juice of the leaf is said to he a specific for bises and contusions, the gum which is engendered in the ver part of the stem to cure the toothache, whilst various ex riments upon the curative properties of the plant under lifterent forms have heen made hy members of the medical pression in Mexico with satisfactory results." More recently, 1 nely, in 1874, it was stated that General Sheridan, the Unil States officer, when in charge of a small army in Texas, ha he misfortune to have an outhreak of scurvy amongst his en, and having heard that the juice of the Mexican agave sscssed anti-scorhutic properties, and heing entirely without ne-juice or any other remedy, started in search of the Age plants, and having found a number, the juice was expresse and the men compelled to take it in liberal doses, the effect f which was to entirely stay the disease. It is stated to ba a fetid smell, like putrid meat.

Perhaps some trials may be made in this country to the medicinal value of pulque now that it has become included to our notice.

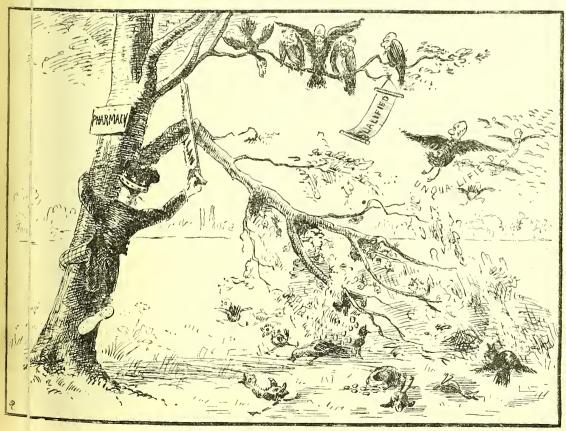
Hemidesmus At a recent drug sale in London the came up for disposal a number of part ges of the midesmus, or Indian sarsaparilla, recomprised the first consignment of the drug recomprised the first consignment of the drug recomplete a rather unusual interval of thirteen years. I has perfectly natural, therefore, that hefore these packages are up for sale the drug should have heen reported to be considered, it was unohtainable; but as retail druggis are so rarely called upon to supply either the root or its proposed.

the fact at the drug is scarce or otherwise is not likely to create n h excitement. Yet it happens that in St. Bartholomew's lospital, the largest medical institution in the metropo Indian sarsaparilla takes the place of the smilax root, so it all preparations of sarsaparilla used therein are characte ed by the absence of what is generally known as sarsapar, and the hospital has the distinction of using more he lesmus root than all other consumers put together. Before t last arrival the hospital stock became exhausted, and one f the customs of the institution appeared to be threaten with extinction. The physicians of the hospital report the they find the preparations of hemidesmus to be as satisf ory as those of sarsaparilla. That is perhaps not saying 1 cb; nevertheless, when Dr. Ashburner introduced it in this ountry in 1831 it was said to increase the appetite. to act as liuretic and improve the general health, plumpness, clearness nd strength succeeding to emaciation, muddiness, and debiv. It was also said to be useful in affections of the kidneys, rofula, cutaneous diseases, and thrush. It had long be used in India, where it is held in high reputation, and is kivn under the names Nannari root and Ananto-mul. It is thoot of Hemidesmus Indica, which is the same plant as a Periploca Indica of Willdenow and the Asclepias pseudosat of Roxburgh. The root has a strong odour resembli tonka bean, this characteristic being particularly marked the recent consignment. The odour is believed to be do to a volatile crystallisable "acid," which was separate by Garden in 1837. Some years later (1843) Scott obtained stearoptene from the root by simple distillation with wa, this body being probably identical with Garden's "acid." arden proposed to call the "acid." "smilasperic acid," by t may, according to Pereira, "with more propriety be term 'hemidesmic acid' or 'hemidesmin.'" The comparative nimportance of the drug is probably the reason why no armacist in these enlightened days has attempted to clear the uncertainty regarding its active constituents. Mr. Pocligton made a careful microscopic examination of it in 187 and found it to possess such characters as entitled him to that "hemidesmus is much more interesting to the mic botanist than to the micro-pharmacist." It was introduc linto the British Pharmacopæia in 1864, and still

remains, with its preparation, syrupus hemidesmi, but no other pharmacopæia has had the hardihood to give the drug a place.

* *

Mr. James Platt, the well-known author of Business "Business," "Morality," and many other treatises, has been himself trying to combine morality and Chivalry. with business, and in a special instance has found it a costly experiment, as will be seen from our law reports this week. Mr. Platt is a wholesale draper as well as an author, and in the former capacity he undertook the wholesale agency for a certain Spot and Grease Extractor, which he sold to his customers at 9s. per dozen packets. He was led to believe after a time that the article he had been selling was just Sunlight Soap cut up into tablets and newly packed as a proprietary article. At any rate he came to the conclusion that a 3d. cake of Sunlight Soap would effect the purpose aimed at as well as a 1s. packet of the extractor. So he determined to give up the agency. That was moral, but it was not enough for Mr. Platt. His chivalric sentiments were aroused, and he thereupon issued to his customers circulars stating what he had discovered, offering the remainder of his stock of the extractor at 1d. per packet, and announcing his willingness to return 8d. on every 9d. he had received for the packets already sold. The inventor of the extractor has sued Mr. Platt for damages caused to him by the issue of this circular, and has managed to persuade a British jury to give him 5l. and costs. The 5l. will not go far as a substitute for the pretty trade Mr. Annat was building up, but the costs will come rather heavy on the We are bound to speak with every respect of the plaintiff's invention. The judge and jury evidently regarded it as "property," and as such sacred. Mr. Annat frankly admitted that the basis, or vehicle, or conveyance, as he termed it, of his extractor was Sunlight Soap; but he asserted that to each 1-oz, cake of Sunlight Soap he added a few drops of a wonderful essential oil such as could be extracted from the sawdust in Holman's liver-pad. We are not surprised to find that that oil is costly; science is at present not agreed whether it adds to the detergent power of the conveyance.



HOW LORD MILLTOWN DEALS WITH THE BRANCHES.

BRITISH AND FOREIGN CONSULS' REPORTS.

BELGIUM.

Petroleum. There was a falling-off in the receipts of American petroleum last year, the figures being, in 1887, 852,339 barrels, as compared to 936,915 barrels in 1886. Russian petroleum, on the other hand, is on the increase, about 100,000 barrels having been imported in the year 1887, against 91,000 barrels in 1886, at prices slightly below those quoted for American oils.

CHINA.

The Wenchow during the year 1887 opium figures to the extent of 64.00 piculs; China root, 137.44 piculs; 238.40 piculs; medicines, 2,601*l.*; safflower, 11.38 piculs; Japan wood, 407.89 piculs; vermilion, 18 piculs; varnish, 110.43 piculs; and white wax, 138.41 piculs; most of these items showing a considerable increase over the previous year.

Opium. In 1887 the Wenchow district yielded as large a crop of opium as it is capable of. The country, as viewed from a hill-top, was in many places one vast brilliant patch of poppy, with only sparse squares of green. The yield per acre of the best sort is 12 to 16 catties (say, 16 to 21 lbs.); of inferior sorts, 16 to 24 catties. The best drug, when the crop came in, sold at 2 dollars per catty, but rose to 4 dollars at the end of the year.

FRANCE.

During the year 1887 the rise in price of The chemicals continued, not with standing that little business was done. Ammonia salts augmented Chemical Trade at in price on account of the demand for agricultural purposes, as did nitrate and nitric acid 10 per cent. for the same reason. Colouring matters, pyroligneous acid, and soaps remain the same. The rise in volatile alkalies continues, on account of the orders from the South of France, as a preventive against the mildew in the vines. In the third quarter of the year a rise took place in sub-products of wood, and in the end of the year there was another decided improvement. The arrangement between the large manufacturers has kept up the price of bicarbonate of soda, and the increasing demand for chemical manure has caused a change for the better. There is, altogether, a very satisfactory state of affairs in chemicals, and there appears to be every prospect that this will continue during the early months of 1888.

FRENCH COLONIES.

The general tariff of France, with a few modifi-Protection cations, came into force on July 1, 1887, and as it severely handicaps all British manufactures, the trade between French Indo-China and Singapore has shrunk to very small proportions. The Saigon Chamber of Commerce has addressed a letter to the Minister for Colonies, setting forth the advantages of the tariff to the colony and to the natives, and complaining that the duties constitute purely and simply an aggravation of the taxes borne by the residents and natives without profit to anyone, because most foreign products continue to find sale, though in more limited quantities; that the sale of French goods has not materially increased, and it is not surprising, as, for example, French cotton goods cannot be sold except at from 20 to 35 per cent. dearer than foreign, notwithstanding the duties the latter bear; that this will always be the case so long as French manufacturers neglect to study the tastes and wants of buyers in quality, price, and appearance; that the Chamber firmly believes that the charges imposed upon the population had previously reached the utmost limit, if not more, and it is to be feared that the natives, over-burdened by taxes, will not produce more than the necessaries of life, and that this commercial policy, if persevered in, will bring about the ruin of the colony. Importations of French or naturalised products are obliged to bear a certificate of origin; imports from France, Algeria, or French colonies are free of duty if imported direct, and by the same vessel in which they left those countries, or by a vessel of the same line.

JAPAN.

Taxation on the Japanese Imperial Budget are rect tax affecting soy and drugs, which yil a not in tax on soy during 1887-88 is estimated to produce 212,2020 and that on drugs 69,2031., both being consideray in except of the yield in the preceding year.

In a recent report the German Consul The Drug
Business in
Manila.

Manila refers to the relative largess of the importation of drugs, chemicals, id pharm The Drug Manila. ceutical preparations into the Philippir Islands, and points out that during the year 86 no le than 465,251 pesos, or 87,234l. worth of these ods, weigh ing over 45 tons, arrived from abroad. In 1885 e value the imports under this section was 469,964 pps, and 1884, 581,436 pesos. It is stated (though really wisome exaggeration) that the bulk of the physical maceutic articles used in Manila is of German origin, alth gh a larg proportion of them are imported by way of En and. In few important articles, however, such as chlora of potas citric acid, and mustard flour, England continue o domina the market. An extremely good demand exists the islan for patent medicines, which are known by e name "especificos." Most of these come from Fran Americ and English patents following in order of import ce. The is also a considerable sale in Manila for brandy od lique essences. These are diluted in the local disti ries whi have been established during the last few rs. An liqueur is a favourite article of consumption, bu lost of t essential oil used in its manufacture is obtained om Chir and only a small proportion is oil distilled fr Europe (Spanish) seed. The imports of perfumery resented, 1886, a value of 45,478 pesos (8,527l.). Company manufactured locally, but toilet soaps have to import Paints and varnishes are principally importe from t United Kingdom, English brands having acquid an es blished reputation which would render it difficul or Germ manufacturers to compete. All the same, the C sul thin that his countrymen, by sending cheap consignrats of go quality to leading houses, may ultimately succeed in obtain ing a footing in this branch. Aniline dyes are no much us yet, though small lots are occasionally imported rom Ho Kong through Chinese merchants. As regard usiness general, the year 1886 does not appear to have to partic larly distinguished either for exceptionall good for unusually bad trade, but it is pointed the importance of Manila as a market for goods is frequently overrated, and that partials thereof the most thought the most trade of the most solon of the control of the most solon of the control of the most solon of the most through the most solon of the most s articles through more than one importer at the me, as t price can only be kept up if the Chinese, who in I cases as intermediaries between the native consunt and the European merchant, find it impossible to protestitate to protestitate the consultation of the co goods from more than one dealer. These Chine traders evidently a very slippery class to deal with, but services seem indispensable, and they know it, that t European traders are pretty well at their merc is regarded to and custom. The Chinese travellers hawk European goods all over the islands, a task which no Eu pean could undertake owing to climatic obstack while natives themselves are not sufficiently integent a reliable for it. It is expected that trade through the Luz the principal island of the Philippine group, and considerable impetus from the completion of the project railway system, the main line of which is now course construction, and will bring some of the riche and m fertile districts in direct communication with it capit Sugar, tobacco, abaca, or Manila hemp, and coffe emain staple products of the islands, while among the xports pharmaceutical interest sapan wood, logwood, digo, a essential oil of ylang ylang are the leading a cles. distillation of ylang-ylang are the leading at ythrougout the island of Luzon, especially in the leighbo hood of Manila and in the province of Alba and the European markets have unfortunately been fided we will much of its for reconstruction. oil, much of it of very inferior quality, although ew of old-established distillers maintain their reputant cellence of product. The exports of ylang-ylan were kilos. in 1884, 1,613 kilos. in 1885, and 1,487 kilo in 1886

NOTES I INCOMPATIBILITIES IN PRESCRIPTIONS.

By ENRY CAMPBELL, Pharmaceutical Chemist.

(A) per read before the Midlind Counties' Chemists' Association, April 26, 1888.)

A FTEL few preliminary remarks the author said that sor time ago a chemist dispensed ferrous iodide with potassiu chlorate. Iodine was liberated, and the subsequent de 1 of the patient who took the medicine was attributed to astric irritation caused by the free iodine. An action f damages was brought against the unfortunate pharmac, on the ground that he ought to have known that such a mhination might prove unsafe, and should have refused dispense it. But it is impossible to decide in every cas whether a mixture is safe or unsafe, much depends on prop ions of ingredients, degree of dilution, order of mixin and upon how long the mixture is kept hefore it is altaken; and although a chemist might recognise the ssibility of some degree of decomposition occurring, he ght fairly hesitate to discredit the doctor in the eyes of t patient hy refusing to dispense the prescription. Therefor in any doubtful case experience must decide, and not mere a rigid application of any rule.

Some sons consider that all drugs which react chemically are nonpatible, and therefore are led to condemn mixtures tinctures of henbane with solution of potash, of perchlori of iron with glycerine, of quinine sulphate with alkalies, of Goulard's solution with tincture of opium. Yet I dare sail of us have dispensed such combinations to the entire sa faction of the prescribers, whose directions it is our

duty to cry out.

Still, i lealing with presumably incompatible prescriptions we must enerally speaking, rely on the following rules:—

1. If a dangerous decomposition may be expected to occur aff the medicine has left our hands, we must take some prestion to obviate such danger, and in most cases that prection will consist of a warning to the prescriber.

2. To the the suspected ingredients before mixing—or, in the langue of the dispensing counter, "to keep them apart

as far as ossible."

3. To x them cold.

4. Whistrictly necessary to use mucilage (preferably that of traganth, because it contains less gum than acacia mucilage in order to retard decomposition, or to suspend a precipita

In a p or read before a medical society, the following mixture s condemned:—

onthe g and that, as the first two ingredients form a well-known a loidal precipitant, a compound containing most of the order will fall, and he taken in the last dose. If the more is dispensed according to the second rule, the precipitate is so readily diffusible, and, aftershaking, remains suspende so long, that the patient has plenty of time to pour out a do but, of course, he should be told to "shake the

Again is considered that Liquor strychninæ must not be combine with bicarbonate of soda. When first asked to do so I exped that the liberated alkaloid would be precipitated.

the following mixture has remained clear for weeks:-

iquoris strychninæ ... m v.
odii bicarbonatis ... gr. xv.
Aquæ ad ... ;

The door of the strychnine solution contains $\frac{1}{22}$ grain of alkaloid rming in the ounce mixture a solution of the strength 1 in 9,600, while the solubility of the alkaloid in water is out 1 in 5.700.

Potas in iodide is sometimes considered to be incompatible in the form were prescribed in an ounce of water with doses of Liquor tychnina, gradually increased from 5 minims to 30 mins, no precipitation occurred until more than 20 mini of the liquor were used; and even then, by adding 1 drach of tragacanth mucilage to each dose, reaction was

so retarded that, by preparing only sufficient medicine at a time to last one day, the patient took it with safety; but I may mention that he was under close medical surveillance. But in another case where 10 grains of the iodide were mixed with 20 minims of liquor strychninæ and an ounce of water, needle-like crystals appeared in twelve hours. This result was due, I found, to the slight alkalinity (allowed by the British Pharmacopæia) of the iodide; for when the solution of the salt was slightly acidified with hydrochloric acid before the liquor strychninæ was added, no crystals appeared for four days, and then in comparatively small quantity.

Another favourite combination is :-

Although an alkaline carbonate forms a precipitate with mercuric chloride, still if in the above mixture the first and third ingredients are mixed, and the solution of the carbonate then added, no precipitate occurs, even after a month has elapsed. If common water be used, a slight precipitate of calcium carbonate forms, but it is free from mcrcury.

Again, tannic acid is said to be incompatible with mineral acids. Certainly a concentrated solution gives a white precipitate with dilute sulphuric acid; and tannin, being a glucoside, is decomposed by boiling with dilute acids; yet, dispensed according to our second and third rules, the following mixture presents no signs of decomposition:—

Most likely some change occurs; but if the prescriber is satisfied with the medicinal effect produced, it is not for the pharmacist to object. It may be urged that at all events such a mixture is of indefinite composition, and changing daily. But this is true of other valuable medicines; for instance, the relative proportions of strychnine and hrucine in tincture of nux vomica, the percentage of aldehyd in spirit of nitrous ether, or of codeine in opium, are all indefinite. Tannin is considered to be incompatible with alkaloids, because in strong solutions a dense precipitate occurs; hut here, again, if we properly dispense the following the precipitate is readily diffused on shaking:—

Potassium bromide is said to be incompatible with metallic salts, and certainly it was not always safe to mix it with the liq. ferri perchlor. B.P. 1867; but the 1885 liquor being practically neutral forms in the following prescription a mixture in which very little bromine is liberated, usually none at all, yet it is wise to observe our first rule.

Now I come to cases in which "incompatibility" can be overcome by adding something to the prescription. When alkalies are mixed with quinine sulphate, the alkaloid is liberated, often in a sticky, resinous form, but if the powdered alkaloidal salt be mixed with water, and a proper quantity of tragacanth mucilage, and the alkali, previously dissolved in water, be then added, a presentable mixture results.

Syrup of iodide of iron gives with potassium iodide a pre-

Syrup of iodide of iron gives with potassium iodide a precipitate of ferrous hydrate quickly changing to ferric hydrate, because the potassium iodide is usually alkaline; hut if a little citric acid be first added to the solution of the potassium salt the mixture remains clear.

In a case where some "ear drops" were to contain cocaine hydrochlorate with borax, the alkaloid was partially precipitated, but re-dissolved with a trace of hydrochloric acid.

When additions have to made we ought, if possible, to first obtain the sanction of the prescriber, and I may say that in my experience such sanction has always been freely accorded.

A habit of dependence upon the special knowledge of the pharmacist is, I have reason to believe, hecoming more and more general among the members of the medical profession. It is for pharmacists to prove themselves worthy of it.

Trade Report.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allocances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide,

42 CANNON STREET, E.C., April 26.

NEARLY all changes which have occurred since our last report have been towards lower prices, and business still continues in a most languid condition. Much attention has been bestowed on quinine, which is rapidly falling away towards the "lowest on record" price at which it was sold last year. The cinchona sales this week also showed a reduction in the value of bark. Citric, tartaric, and oxalic acids are rather weak, and if there is any change at all in these articles it is for the worse. There is a report that the price of glycerine has been considerably reduced by certain makers, but we have not been able to verify this. Arsenic is about the only important article in the chemical trade which is actually advancing in value. As regards drugs, we have to report some slight improvement in the Smyrna opium market; cod-liver oil is held at higher rates, and American peppermint oil is very firm. A better demand is also said to exist for Cape alocs and Mexican sarsaparilla. This is about all in that department. To-day's gum sales were rather irregular, and there was little demand, but Australian gum and ordinary Ghatty brought full prices. Good Kowrie gum sold well, lut ordinary qualities were a little easier. Gum animi and Manila copal were quiet, and gum olibanum was only in demand for pickings. Gum tragacanth recently sold at lower rates, and shellac is also a trifle easier. Spices, with the excert on of Jamaica ginger, are weak or lower.

GREAT INDIGNATION IS EXPRESSED in French and German journals at a recent judicial decision in England, affirming that income-tax must be paid in the United Kingdom not only on the profits made by agents of foreign houses acting in this country, but on the entire profits which accrue to the foreign merchant or manufacturer from his trade with the United Kingdom. French and German commercial bodies have memorialised their respective Governments to take measures for counteracting what they designate as a British attempt at destroying the Continental export trade.

OPIUM-GROWING IN RUSSIA.—We understand that the Russian Government are about to make experiments during the present year to cultivate opium in different parts of the empire for commercial purposes. The Ministry of Domains have procured a supply of poppy seed in European Turkey, which has been distributed to the Imperial Schools of Agriculture in the Central and Southern provinces of European Russia. A supply of the implements used in opium cultivation in Turkey and Persia has also been ordered.

Loss on the German Subsidised Steamship Lines.—The German Imperial Mail Service, which was started some time ago with a heavy Government subsidy, has been worked at a heavy loss during the past year. According to the annual report of the Norddeutscher Lloyd, which has just been issued, the East Asiatic main and branch lines show a loss of 2,153,868 marks, the Australian main and branch lines a loss of 1,989,272 marks, and the Mediterranean line a loss of 459,037 marks. The total loss is therefore 4,602,177 marks, which, after deducting the imperial subsidy of 4,400,000 marks, leaves a nct loss of 202,177 marks. To this must be added 366,552 marks for current repairs; 175,632 marks, share in the cost of administration; and 1,009,000 marks, representing 5 per cent. written off from the capital of the ships, and 20 per cent. from the furniture and fittings; making a total loss of 1,753,361 marks. This unsatisfactory

result is mainly due to losses of the branch line more particularly on the line to Samoa and Tonga, when the goods and passenger traffic is so small as to be scarcely in which respect it resembles the Mediterranean is.

UNDER THE NAME OF THE HOLLAND STEAL HIP COMPANY a service of steamers has been started at which purposes to run regularly between Amsterdam (1, Nether lands, India, and other ports. The capital has the 600,000l. in shares of 500l. each, which are to successive series. The first issue of 240 shares 120,000l. has been entirely taken up by the Netherlands Navigation Company at the Hague and some private the Netherlands India Company will transfer steamers to the new company against 200 shares It is expected that the service will be opened in with four steamers, and that severe competitive with the existing Nederland and Rotterdam Lloyd Companies.

From time to time merchants in different rts of the United Kingdom have made representations to in favour of an extension of the official day in the so that they may not be charged overtime for the upervision of the officers when ships are "working" after in color. It is said that the Treasury authorities have been insidering this question in conjunction with the Board of Ctoms, and that some plan is likely to be devised for the requestion the traders.

MR. JOHN SELLERS, of the firm of Reynold & Sellers drug brokers, of 3 Mincing Lane, E.C.; sailed to delbourn this week, on a trip for the benefit of his health which has been for a long time in an unsatisfactory state. In tends to stay in Australia two or three months

ACIDS.—Last week's advance for Citric acid h quite maintained, and to day 1s. 7d. per lb. we have not heard that any busines done at that figure. In Oxalic there is practica $3\frac{1}{2}d$. per lb. being the nearest quotation. Tartically said in some quarters to be steadier, but we do a can be quoted above 1s. $5\frac{3}{4}d$. to 1s. $5\frac{7}{8}d$. for 1s. $6\frac{1}{4}d$. for English.

ALOES.—Since the last auctions a better demay is said thave sprung up for *Cape* aloes, resulting in somet at higher prices being paid.

AMMONIA SALTS.—Carbonate lifeless at 4d. 20 per cent. Sal ammoniae remains unchanged 34s. for firsts and 32s. for seconds. Sulphate is declining, at 11l. 15s. in London for 24 per cen grey, and 11l. 12s. 6d. at Hull.

ANISE remains very low in price, at 19s. to 21s. r Russia seed, while up to 40s. and 41s. is paid for Italia and 52s per cwt. for Spanish (Alicante).

ARSENIC very firm at 12s. 6s. to 13s. per cw for whit powder on the spot.

BLEACHING POWDER, firm at 8l. 10s. to 8l. : on the spot, and 7l. 10s. on the Tyne.

BORAX still nominally 30s. for English brand; put som weakness is apparent, and 29s. per cwt. would no pub buy

CAMPHOR.—At the end of last week the *Ophe* brough 1,127 tubs Japan camphor, viâ Hamburg. Nomin y 72s. 6d is the present spot price for Japan, but it is sai hat 70s c.i.f. has been paid, which would point to a firmer ndency.

CANARY SEED.—Large arrivals have come to and, and prices, although considerable quantities have chan a large por that holders in Turkey have held back a large por last crop in the hope of better prices, but h disappointed, are now compelled to let it go, also supplies continue on a liberal scale, and are maintain. The Morocco seed stored here is held find a market. Spanish seed is regularly brought moderate quantities, and sells fairly well. In

States t market is still depressed, prices ranging about at par wit our own, and consequently business between the two corries is at a standstill. Of La Plata seed only little is offer at present for prompt delivery. The quotations are not Turkish seed, 43s. to 46s.; Dutch, 43s. to 47s.; Spanish 4s. to 58s.; Morocco, 48s. to 50s.; and La Plata, 40s. to per 464 ex warehouse.

CARLAY SEED is pressed for sale, and prices are giving way. It stock in Holland is not unusually large, but holders em to have but little stability. The quotations are now:—tch, 24s. 6d. to 25s., and Russian, 20s. to 21s., per cwt. ex rehouse.

CASC A SAGBADA.—Holders here still require 70s. per cwt. In regard to the rumour which we reported in our last iss that the recent advance has brought forward supplies to be Californian trading centres, another dealer informs u hat there can be no truth in this, as there is no stock le to speak of anywhere, and the new crop does not arrive til September.

CAST UM.—The Hudson's Bay Company will offer for sale 468 lbs, 1 May 2 next.

CINC NA.—The periodical auctions on Tuesday included 3,143 kages, offering an assortment rather below the average regards quality. It was generally expected that prices vald rule lower, and such, indeed, was the case, holders ering pretty freely, and being content to accept a reduction of 10 to 15 per cent. on the recent values, the unit at e present sales not exceeding 2d. Of the 1.841 rackage Ceylon bark, fully two-thirds was sold, and rather over or half of the 623 packages of Indian bark, among which t hest selection was found. Eighty-seven packages Java cinona were all disposed of, but of the very small supply 592 packages of South American growth the bulk was boot in. The following prices were paid :- CEYLON CINCH(1: Succirubra, natural branch, $1\frac{1}{4}d$. to 2d.; chips, dull, quy, to fair, 2d. to 4d.; shavings, $2\frac{1}{2}d$. to $4\frac{1}{2}d$.; root, dull mil to good, 2d. to $4\frac{1}{2}d$.; quill, broken, 3d.; dull and irregula 41/2d.; renewed, low common woody to good, mostly shaving 2d, to 9d. Officinalis, branch, $2\frac{1}{2}d$.; chips, $2\frac{1}{2}d$. to 4½d.; ske shavings, 3d. to 6d.; renewed medium to fine, 4d. to 1. Hybrid, &c., chips, 2½d. to 3d.; renewed, 5d. to 7d. lx an Cinchona.—Wynaad and Mysore-grown, mostly Sective a chips, dry bright quilly, $2\frac{1}{3}d$. to $4\frac{1}{2}d$.; spoke shaving $1\frac{1}{3}d$. to $3\frac{1}{2}d$.; root, 2d. to $2\frac{1}{3}d$.; quill, crushed and broken, d. to 4d.; small dull druggists', 5d.; renewed, 5d. to $8\frac{1}{3}d$. Ledger, &c., natural, 2d. to 8d.; renewed, 7d. to $7\frac{1}{3}d$. JAVA NCHONA.—Stem chips, 5d.; fine bold druggists' quil, 8to 10 d. per lb. SOUTH AMERICAN CINCHONA.— Cuprea d. to $4\frac{1}{3}d$. Calisaya from the Bolivian plantations, in brok quills, 5d. to $7\frac{1}{3}d$. The shipments of cinchona from (lon, according to the latest advices, are again assumi very large proportions, and now almost equal those of the evious season. The French official statistics are given a ollows :-

ı				1886	1887	1883
ı				Tons	Tons	Tons
þ	orts to Ma	rch 3	31	 267	215	201
19	sumption	19		 108	128	98
· P	orts	"		 63	33	40

Coche is quiet, and offers at 9d. to $9\frac{1}{2}d$. for German in vials.

COPP. (SULFHATE) remains firm at 21% to 21%. 5s. for ordinatorsts.

CRE. OF TARTAR.—Firsts are worth 122s. per cwt., and second 18s. to 119s. per cwt. There has been a somewhat better uiry during the last few days, it is said.

CUM SEED steady and rather scarce on the spot. Malta seed is orth up to 50s. per cwt., and Bombay 37s. to 39s.

Cut remains steady. Among the sales reported this week i IM in slabs at 30s. 6d. per cwt.

FEN REEK SEED is very firm with an advancing tendency, 3. to 8s. 9d. being quoted for good Mogadore, and 8s. 6d. 7s. for new Egyptian seed.

GAMER.—The market is very quiet. 21s. 9d. per cwt. bas be paid for several lots of block on the spot during the week, d that price still prevails at the close.

makers have suddenly reduced their quotations 15s. per cwt. in order to defeat the competition which has sprung up recently, and now quote double distilled 1.260 s.g. at 60s. to 62s. 6d. per cwt.; but upon making inquiry we find that agents here still adhere to the quotation of 75s., and speak of the article as being very firm.

GUM ARABIC.—At to-day's auctions over 2,300 packages were offered for sale, but only a small part was disposed of at irregular rates. Very little interest was manifested for Amrad gums, but Ghattys brought full, and occasionally for inferior lots—rather higher prices. Australian gums, of which 116 packages were offered, also sold dear, at 63s. 6d. to 66s. 6d. per cwt. for dark red woody mixed, and 70s. to 76s. 6d. for fair palish. Aden and Eyyptian Amrad gums were mostly bought in, though some ordinary Aden sorts sold at 90s. per cwt. For Indian Amrad the following prices were realised:—Low dark blocky, 37s. to 43s.; fair reddish drop, 57s.; ambery ditto, 70s.; fair glassy Oomra, 80s.; pickings, from 16s. to 40s. 6d.; common to ordinary siftings, 24s. to 30s.; while Ghatty sold:—Fair to good, 55s. to 65s. 6d.; superior, 115s.; pickings, 29s. 6d. to 38s.; common, 19s.; siftings, 29s. to 35s. per cwt. The Liverpool market has remained without further arrivals of *Brazilian* gum, and the existing stock is now in only a small compass. A steady demand has prevailed, but business is rather on a smaller scale, embracing 370 packages at 52s. 6d. to 55s. per cwt. for fair medium, part blocky, and 57s. 6d. to 60s. Fer cwt. for fairly free gum. A few small lots of Egyptian Amrad gum have been sold at 135s. for fine pale, and 47s. 6d. for very common rough. There have also been fair sales of Galam Senegal at 142s. 6d. to 149s. 6d. per cwt., according to quality.

GUM TRAGACANTH.—Last Friday over 3,000 packages Syrian were offered for sale, by auction, but there was scarcely any demand, and only a very small proportion was sold at lower rates; good pale firsts 7l., ordinary to good thirds 80s. to 5l., and common to fairly good fourths at 65s. to 77s. 6d. per cwt. Ordinary to fine siftings brought 55s. to 92s. 6d, and pickings from 25s. to 40s. per cwt.

IODINE firm at 9d. per oz.; iodide of potassium 11s. per lb.

LINSEED of fine quality is only in moderate supply, and with a good demand prices are well maintained. Finest Dutch is held up to 45s. Hungarian, 42s. Russian, according to quality, 37s. to 40s. per 416 lbs. Sicilian seed is firm at 45s. per 424 lbs. Bombay, 39s. 6d. Calcutta, 39s.

MERCURIALS.—Prices have now attained greater steadiness, owing to the less violent fluctuations in the quicksilver quotations. Makers now quote:—Calomel, 2s. 11d.; White precipitate, 3s. 1d.; Red precipitate, 3s. 2d.; Corrosive sublimate, 2s. 3d.; Blue pill, 1s. 11d.; Mercurial ointment, 1s. 10d.; and Vermilion (English), 2s. 6d. per lb.

Musk —It is thought that at next week's auctions the price will show a further reduction.

MUSTARD SEED is being pressed on the market, and sells at 7s. 6d. to 9s. per bushel for fine white, and 9s. to 12s. for brown English. The new crop of Bombay seed is now being shipped. The quotation for this variety rules at 5s. to 6s.

NUX VOMICA.—The Pelin, just arrived from Bombay, had on board 34 bags.

OIL (COCOANUT).—There is very little animation in the market. For Ceylon oil on the spot 24l is quoted, but for arrival 23l, 10s. is asked, although there are no buyers at that price. For Cochin oil 27l to 27l 10s. is the nearest spot price, while 26l to 26l 10s. would buy for arrival. Business in Mauritius oil at 25l is reported.

OIL (COD-LIVER).—A firmer feeling prevails, both here and in Norway, the Finnemarken fishing having been, up till last Saturday, a total failure. This fishing will not be over until well towards the end of May, but it is not expected that it will, iu any case, yield any considerable results; and as it usually gives about one-fourth of the entire crop, its failure is likely to further influence the price. The lowest price quoted for steam refined Lofoden is now 68s, but other importers ask 70s. to 75s. per barrel, and all are taking up an attitude of reserve.

GLYCHNE.—It is reported that the older German glycerine | OILS (ESSENTIAL).—There is rather a weaker feeling for Star anise, and 6s. 2d. per lb. would probably be accepted.

Oil of Cassia is very quiet, the nearest spot price being 3s. per lb. Citronella remains very neglected at 15.d. per oz. Bergamot, fairly steady, and quoted at from 7s. 9d. to 9s. per lb. according to quality. Lavender, very firm for French and with a rising tendency for English. Finest Mitcham has been sold up to 34s. per lb., but some holders would not now sell at that price. Lemon, fairly steady and quoted as usual at widely varying prices, ranging from 3s. 9d. per lb. for Messina, to 5s. 3d. or even 5s. 6d. for fine Palermo. American oil of Peppermint (H.G.H.) is very firm at 10s. 6d. per lb., and it is generally said that in Michigan, which is the State giving the tone to the market, farmers have only planted one-fourth, or less, of the aereage which they had under cultivation last year, while in addition the young plants have been damaged by the weather. Otto of rose, firm, but without change. French Thyme: the new crop is now arriving, and quoted at 4s. per lb. for good quality.

OIL (OLIVE) remains extremely quiet at 32l. for Mogadore, 34l. to 35l. for Messina and Gioja, and 36l. to 37l. for Spanish oil. Reports from Naples say that the oil market there remains in an abnormal position. In Gallipoli there have been no transactions worth mentioning, and prices have been nominally quoted at 33l. to 33l. 10s. per tun, f.o.b., without sellers at the lower or buyers at the higher price, and there is no foreseeing what the next fluctuation will be, or on what terms the outstanding accounts for the May settlement will be closed. The entire business has been concentrated on Gioja oils, which closed on April 16 at 30l. to 30l. 10s. per tun, f.o.b, according to quality. These low prices are due entirely to the accumulation of stocks, as the crop has not only been abundant, but also unusually late, and it is only now that the new oils are clearing in quantity.

A large business has, however, been done, and there are heavy engagements for England and elsewhere. The budding of the olives has commenced in the earlier districts, but it is yet too early to form a reliable opinion as to the prospects. The winter has been favourable, but there are complaints of drought at Gallipoli, Taranto, and other districts in the province of Lecce, whereas at Gioja no crop of any importance

can be expected.

OIL (PALM) remains neglected at 211. 10s. for fine Lagos.

OPIUM.—There is not much doing here, except in soft shipping, of which about 200 cases are stated to have been exported within the last fortnight. The Smyrna market, according to the most recent reports, has been rather firmer, a number of holders appearing to attach some credence to the persistent reports of damage to the growing crop. The business transacted has not been large, amounting only to about forty cases in the week ending April 14, old and new tale-quale Karahissar and Yerli at 8s. 11d. to 9s. 10d. per lb., and old Karahissar with "visite" at 9s. 10d. per lb. The true cause of the momentary rise is said to have been not so much the belief that the coming crop was damaged as the fact that operators who had sold large quantities for delivery to America were compelled to cover. The growing crop is now beginning to pass through its most critical period, and a few days of unfavourable weather, such as hot south wind, may reduce the yield by some thousands of packages. Mcantime, no such eventuality has yet occurred, and the brightest hopes are entertained of the crop in Asia Minor, rain having fallen in all the growing districts. Rain has also fallen in the province of Salonica, and considerably improved the prospects of the growing crop in that locality.

PATCHOULY LEAVES.—Our market is now becoming well supplied with these leaves, but most of the parcels that are for sale are unfortunately of very indifferent quality. A further shipment of 46 bales arrived this week per *Glenavon* from Singapore.

POTASH Salts.—Bichromate rules very quite at $4\frac{1}{2}d$. per lb., Chlorate steady at $5\frac{3}{4}d$. per lb. for pure, a very low price and one which does not pay the makers, although there are more sellers than buyers now at that figure. Prussiate tending lower, at $6\frac{5}{6}d$. per lb. for foreign yellow.

QUICKSILVER.—On Friday last the importer raised his price from 7l. to 7l. 5s., at which it has since remained; but the market closes weak, second-hand owners having to-day accepted 6l. 19s.

QUININE.—Since last week a rather large bunes has been done, especially in German brands, at company declining prices, and to-day the lowest point we reached which has prevailed for many months, with a sale o 0,000 oz Brunswick in bulk, first hand at 1s. 43d per oz. second-hand parcels of this brand are said to have been dealt in, both to-day and yesterday, at 1s. 4 per oz. but this we have not been able to ascertain efinitely. Most makers, however, have not followed the decae at the same rate at which it has progressed. Heva's quotations have been reduced to 2s. for vials and 1s. 10a or bulk Whitfen's to 1s. 10d. and 1s. 8d. respectively. The Fabbrica Lombarda does not quote. Jobst and Zimmer stanut 1s.6d. B. § S. at 1s, 5d, and the Brunswick factory, as alread reported at 1s. $4\frac{1}{2}d$. per oz. There are not wanting people who still prefer to have confidence in the article, and who aim that the makers are merely depressing the market I now and then selling small lots at lower and lower price so as to induce weak holders to get rid of their stock, hich the makers buy up and tender in fulfilment of contest due but most people incline to the belief that we sh soon he down again to the lowest price on record, or ren that "shilling quinine" is looming in the distance. The nereased exports of bark from Ceylon, which are said to nely equal last year's, the presence of an exceptionally hear stock at Colombo, and the rather unfavourable London stastics, all argue in favour of the latter view.

RAPESEED searce, and held at firm prices. Fir English, 48s. to 53s. per 424 lbs.; French, 48s. to 50s. p 424 lbs. Crushing rapeseed unaltered.

RHUBARB.—Our stock was increased this we by an arrival of 85 cases per *Diomed* from China.

SARSAPARILLA.—Honduras remains neglected, it there has been a better demand for Mexican lately, which squoted at $4\frac{1}{3}d$. to $4\frac{3}{4}d$. per lb., London terms.

SHELLAC.—The week commenced with privat sales of Garnet lac AC for delivery (ship declared) at 35s er cwt, c.i.f. terms. At the auctions on Tuesday a pry good supply, numbering 867 cases, was offered, the week being practically "without reserve," and a decline of 1 per cwt. on many lots and a little less on others. The pllowing prices were paid:—Second orange, worked, good fipart palish, 43s. 6d. to 44s. 6d.; fair reddish, 42s. 6 to 43s.; ordinary weak and livery, 41s. to 42s.; unworked air, 42s. to 43s.; ordinary livery, 40s. to 41s. 6d.; Button, worked coloury fourth or dark, 33s. 6d. to 34s. Since the auctions further sales of AC Garnet lae have sold to give at 35s. c.i.f., and third Button lae, June-July shipmen at 37s. c.i.f., so that there has been very little change a value during the week.

SODA SALTS.—Ash is quoted on the Tyne at 1d bes 71d. per cent. Bicarbonate: the nearest price is 51.5 per ton. Caustic is quoted at 7l. 7s. 6d. for 70 per ct. spot. Crystals are quiet, but pretty firmly held at 45s. 6d. ere and 39s. 6d. on the Tyne. Nitrate easier at 10s. to 109d. per cwt. on the spot, according to quality; common, or May delivery, 9s. 9d. to 10s. per cwt.

SPICES.—Arrowroot remains without improvement medium to good ordinary St. Vincent 2\frac{3}{3}d. to 2\frac{1}{3} per lb. A slightly better tone existed at the weekly auchors for cassia lignea, and 515 boxes sold at 21s. to 22s. to old import (1874 and 1880). Capsicums are quoted lowed Natal off stalk at 41s., good long red Japan at 26s. Chillies firm with small sales of Zanzibar at 28s. to For Cloves the tendency is decidedly less firm, Zanzis resident at from 6\frac{2}{3}d. for ordinary dark to 7\frac{3}{3}d. per lb. or fine bold. Ginger is from 1s. to 3s. cheaper for Cochin exception of half-cut, which realised very full press. and Jamaica is also better. At the auctions Cochin cut ges and Jamaica is also better. At the auctions Cochin cut ges and cut, 34s. to 37s. 6d.; and dull to good bold cut, 25 6d. to 64s. 6d. per cwt. For fair to good fair bright amaica 57s. 6d. to 65s. per cwt. was paid. The advance with has recently been paid for mace and nutmegs has not be fully maintained. Pepper is quiet as regards black, and sewhat cheaper for white. Privately black Singapore sold a 3d. per lb., and at auction 11\frac{3}{3}d. was paid for white Singapore sold a 11\frac{3}{3}d. for ordinary white Penang. steady at 2d. to 2\frac{3}{16}d. for ordinary grey to fair.

SULPE t.—English make is held at 8s. for flour, and 6s. 6d. f roll; but for foreign 7s. 6d. and 5s. 6d. respectively is bed.

TEA. - ices for China tea remain steady for all grades of Congous, onings of all sorts over 9d. growing scarcer and scarcer, a very handsome market profits being realised by those de rs and speculators who have held on to their early pu ases, and resisted the temptation to sell when they wo only have got 1d. per lb. or so profit. For example, ngchous, well bought last August at 11d. per lb., would no realise 1s. 4d. to 1s. 6d. per lb., though it almost requires ree than human nature to refuse a profit of 11d. or 2d. peb., and in consequence these teas, bought last summer, ve been turned over at smaller profits again and again, paing from hand to hand many times as the market has adva ad. Fine Chingwos are becoming very scarce, and hut le is left in importers' hands. Sales of China teas are later for the week, Tuesday's consisting of 16,801 packages, id there is no alteration to report, low Kaisous fetching &, as last week. On Tuesday, first crop Paklum brought 1 fine first crop Soomoo, 1s. $0\frac{1}{4}d$. to 1s. $0\frac{1}{2}d$.; and S. Capers d. to 111d. for good olive sort; counterpart sold at 1s. 1d. Assams are in small supply for the week, and keenly copeted for, prices being as firm as ever. There is a feeling at there will not be any fall in prices in the immediat uture, but dealers seem to think it nevertheless advisable buy from hand to mouth, as Assams in generalexcept, peaps, grades from 11d. to 1s. 4d.—are undoubtedly considera above the average range of prices. Ceylons are in light oply, teas under 1s. remaining firm, and finest grades felling long prices, a very fine broken Pekoe fetching 28, 5d. pe b. on Wednesday.

CHEICALS IN THE NORTH OF ENGLAND.

OUR masts generally have been less active this week, and bugh shipments at the moment are heavy, they refer most to orders executed some time back, and whilst these shipents steady the market and somewhat harden prices, thoutlook is not so bright, when the pressure for prompt devery is at an end.

The An ican market also is in a very unsatisfactory condition, for he proposed new tariff makes such changes in the duties an affects so many chemicals in a most important manner, that present buyers on the other side are waiting

and lookir on

Actors: somewhat irregular. Tartaric in better demand at 1s. 6d. clb. Citric is steady but not so active at 1s. 7d. Oxalic is iet at $3\frac{1}{4}d$. Boracic is dearer and the price has advanced 28s, but this advance has really taken place in Italy, and is not been responded to in our market.

BORAX sees without change, but holders are firm at 30*l*. per ton w1 a fair inquiry. 305 sacks and 100 barrels of California have arrived per *Dawpool*, and 32*l*. is now asked for this deription.

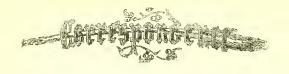
POTASE ALTS.—Prussiate has been very dull, and the advices fr Germany report an easier tone, with sellers at $6\frac{3}{4}d$. per this price is are coming in more freely, and the price is a dy at $5\frac{3}{4}d$. per lb.

SODA S.TS.—The demand for Ash has been very steady, and price re firm at 1d. to $1\frac{1}{16}d$. It is a somewhat remarkable fact at the shipments of ash to the United States are 6,000 tons excess of the period last year. Caustic Soda is again deather having been an active demand for prompt shipment Canada and Russia, and stocks at the works have been mally reduced. Closing quotations are:—For cream, 60 er cent, at 5l. 15s.; white, 60 per cent, at 6l.; ditto, 70 1 cent, at 7l. Biehromate is in more request, and firmly hely at $4\frac{1}{2}d$, per lb.

NOTES ON COCA LEAVES.

WE an inced a few weeks ago that Dr. H. H. Rusby, of Ne York, had been lecturing at the Philadelphia College of harmacy on South American drugs and remedies, as restigated by himself during a recent journey

through parts of Brazil and some of the adjoining repuones. When describing coca the doctor showed specimens of the two principal commercial varieties, viz., Bolivian and Peruvian coca, and explained the difference in their appearance. The specimen of Peruvian coca Dr. Rusby gathered at the confluence of two rivers, one coming from Cuzco, in Peru, and the other from La Paz, in Bolivia; but unfortunately the names of these rivers are not given, nor are there, so far as we are aware, any rivers originating near Cuzco and La Paz which meet at all on Peruvian or Bolivian territory. Judging, however, from the doctor's subsequent remarks, the River Purus, which divides the two countries, is meant. All the way down this river, coming from Bolivia, continued the lecturer, we find the wild coca. It is of the Bolivian form, but as soon as we strike the other river we find the larger leaves, the Peruvian form. There is also a form of diseased coca, called Taja. It is probably a fungus which produces this peculiar condition. We know the disease can be produced in the leaf by simply picking them carelessly so that the twigs are wounded. Then when the new leaves are produced they present this appearance. This is a sufficient comment upon the idea which has lately been advanced by a writer, to the effect that some of the coca leaves which reach the market are beaten off from the plants with poles, an opinion which is evidently erroneous. If an attempt were made to beat the leaves from the plant with poles, the owner would never gct another crop. Two other forms of coca, or rather erythroxylon, grow throughout the eastern part of Bolivia and even through Brazil. The two main varieties of ccca, the Bolivian and Peruvian, are so different that one Bolivian writer has described the Bolivian form under the name of Erythroxylon Bolivianum. The name, however, is not correct; both are Erythroxylon coca. Two varieties are distinguished not only by the leaves but by the fruits, which are larger in the Bolivian species, while the leaves are larger in the Peruvian species. The Bolivian variety is much esteemed by the Peruvians, they saving enough from their scanty earnings to purchase one-third of the Bolivian product, although you can obtain the native article at a much lower price. Dr. Rusby then entered into the question of the chemical composition of the leaves, and spoke about the two methods of estimating the cocaine which the coca leaves contain. The first is to extract it in the pure form and weigh it. This method, the lecturer said, was impossible for me; I was therefore obliged to resort to the test by titration, and this test is as follows: We obtain the cocaine in an aqueous acid solution, about two drachms of the solution representing two and one-half grammes of leaves. This can now be tested with Mayer's reagent. As the precipitate is formed this precipitate is filtered, and the reagent again added. When no more precipitation occurs we assume that the right amount of reagent has been used, and for every cubic centimetre so used we have eight milligrammes of cocaine in the leaves. Now, estimating by this test in this country the leaves will yield from about one-half to threequarters of one per cent. of cocaine. As I estimated them in their own country, the leaves being fresh or recently dried, taking an equal weight of fresh leave; drying them, and then assaying them, I obtained from two to rour per cent. of cocaine. I took specimens of the same leaves which I had thus assayed and sent them to the United States, where they were assayed, and they yielded the same amount which they are said to yield in this country, namely, from one-half to three-fourths of one per cent. It was evident that I had made a mistake in my process, or that the com-position of the leaves was very different in their own home. On my return to La Plaz for the second time I made a very elaborate series of experiments, looking towards the assaying of the different parts of the plants. I took the best methods I could, collecting and drying at the proper time of the year, taking into account the age of the leaves, and I found my former results confirmed. But I also found on this occasion that on rendering my solution slightly alkaline and washing it with ether, the ether carried away only the cocaine, which was found to be about three-fourths of one per cent., as in this country. This is, then, one of the means of accounting for the difference—an entirely different substance from the eocaine, but producing the same reaction with Mayer's reagent, being left behind in the alkaline aqueous solution, seeming to prove that the composition of the leaves is different in their own home from what it is after they are exported.



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.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries, &c., not noticed in this issue will, if possible, be attended to next week.

The Pharmaey Bill.

SIR,—Will you kindly consent to be the medium for relieving the anxiety of numerous unqualified managers, particulars of whose claims for exemption at the request of "Alpha" I submitted to many influential members of Parliament.

I am pleased to announce the receipt of an official statement "that Sir Henry Roscoe and Dr. Farquharson will amend the clause *re* branch shops in committee in such way as to exempt existing managers of a certain status."

This very satisfactory arrangement is really a matter for all-round congratulation, as it removes all reasonable ground for opposition to a Bill from which the pharmacy of the future will date its first real claim to professional status, I am, sir, yours faithfully,

LEO ATKINSON.

SIR,—Your remarks in the last issue of your journal are to the point. It is clear that our legislators have very hazy notions of the Pharmacy Act, therefore, though it has been already pointed out, I would again urge upon chemists in every constituency the necessity of, by some joint action, enlightening their member upon the subject. The action of the Incorporated Society of Chemists and Druggists will have, if any, a beneficial effect; but one collective petition is not likely to have great results of itself. If chemists as a body do not make some show of energy and determination they will miss the best opportunity of obtaining useful legislation they have had, or are likely to have, for some time. As to the opposition to the Bill, if Parliament agree that the position of dealers in poisons and dispensers of medicines in the course of a generation or so will be such as to demand an authorised course of study, I do not see why chemists at the present time should disturb themselves about it. I for one do not think the enforced curriculum necessary, nor do I think it will pass; but as its influence upon the business would be beneficial rather than otherwise, I am willing that it should take its chance.

Will the opponents of the "Milltown" clause kindly tell us upon what grounds they base their objection? Do they object to the first principle upon which pharmacy legislation rests—that every chemists' shop should be under the immediate control of a qualified person? Then their opposition does not go far enough; they ought to propose the repeal of the Pharmacy Act. Is their opposition based upon sympathy with possible sufferers? In that case they should proceed by another amendment to assist those men on to the register, with or without a modified examination. Parliament has decided that retailers of poisons should be legally qualified persons—then none but qualified persons should be allowed to sell poisons in any form; but before we as aqualified persons can establish our claim to a monopoly in supplying poisons in any form, we must show that all our shops are managed, as well as owned, by qualified men.

Aigbenth Road, Liverpool, April 24. Yours,
J. SMITH.

SIR,—The letter of "East Anglia" in your last sue is ar admirable one, and sets out in a clear and able unner the absurd, anomalous, and unbearable position which chemists are finding themselves. This position partly caused, no doubt, by the excessive and desperate enpetition of the present day, but mainly, I contend, throughe gross and I had almost said criminal, blunders of the Pharma ceutical Society, in drawing their Pharmacy Ac n such lcose manner, that it has already been the ruin many a chemist through the facilities it has given to the stores and other companies of depriving them of their egitimate trade. I say legitimate trade, because I mai in, with "East Anglia," that when a man is compelled by w to pas certain examinations to qualify him to dispensenedicine and deal in poisonous drugs, he should find, we he had passed, that he has those medicines to dispensend those drugs to sell, and that no unqualified man should allower to compete with him. The chemist, so far as I low, is the only individual who passes an examination and ptains n monopoly thereby. The question is—What is to be done Will some one suggest something practicable? annot w compel the Pharmaceutical Society to move? Jey do no seem inclined to budge an inch to remedy the fall error in the Pharmacy Act—nay, they seem even to have pandone their pet offspring, the "curriculum," now it has amendment attached to it. Is it not possible for the greamajority of chemists outside the Pharmaceutica ociety to band themselves together, and to insist either that the Society shall set to work at once to remedy some its pas errors, or that, at least, the great body of chlists and druggists throughout the kingdom shall be dul and pro portionately represented on the Council? Yours truly,

Marchester, April 23. CHEMIST AND DRUGGIST. 43/18.)

SIR,—I am glad to find you are giving the close of the new Pharmacy Bill relating to branch shops yr cordia support. As far as 1 can judge, the opposition to is claus is confined almost exclusively to the unqualified nanager themselves, who, like the foolish virgins, are be uning to cry out when they find the day of grace is over.

These gentlemen talk a great deal about the q given by experience, as compared with the mere proving of an examination. Legally, the "experience" qualified a is no recognised. Surely, after all these years of experience, they ought, should the Bill be carried in its present able to qualify themselves by passing the examin more easily and with much less study and expected would be required by those who have only recent from their apprenticeship. That this principle, each the new clause, will eventually become law I have and hope it may do so speedily, in justice to those who have passed their examinations. "A chemology and varied experience" sneers at many who at the trouble and expense of obtaining a high less at the trouble and expense of obtaining a high less that the trouble and expense of obtaining a high less that the says they are above mixing a pound of pain and performing such duties as would often be required it business. I would like to know how many appreciation of their term of apprenticeship to take as dispenser? In the eye of the law, a chemist is qualified to compound medicines, not one of keep a general drysaltery and oil shop. And I firry that if our business is to be rescued from its recurrence and a grocer's shop, and not by those who de chemist to the level of hucksters.

I enclose my name and address, and subscribe melf, Weston-super-Mare, April 24.

SIR,—I have followed up what has appeared subject, and heartily confirm the opinions of many who are opposed to it. Chemists are already ha with pharmacy laws, whilst grocers and others drugs and chemicals are practically exempt. What benefits do these Acts confer upon u³, or the public? Ar:

intende for the protection of the public? Admitting that they are and that the public must be supplied with medicines of andard quality, and by persons having a competent nowledge of the purity of what they sell (for this is the intention of spirit of the Act), why, I ask, should any persons sell dar rous drugs, unless they have a competent knowledge of the same, while other persons may sell the me without any knowledge of them?

What en is the use of examinations? Are they to be evidenc of a competent knowledge of poisons? Yes. Then why ex d the examination to anything else, unless it is extende to all who deal in what we deal in? The question resolves self into this—To be a chemist, which really means to have a privilege (!) of selling poisons—it is necessary to pass versevere examinations; and how much a year does the che at make for his trouble? Probably the average chemist bes not make 10% a year from his poisons, and it is unnecesty to pass any examination to sell everything but

poisons.

The gas is not worth the eandle. I am of opinion that this int ded new law has been hatched at Bloomsbury, and not the public. The latter are wide awake, and we need not e uneasy until we hear their voice. The proposed curricul is not needed. We can offer high testimony against and I am convinced, as many others are, that the

examinabns are sufficiently stringent.

The Inch-shop clause is no doubt well intended by its framers at what is to become of a number of good men, well quited by experience? Are they to be cast aside? Many a married, and have families dependent upon them; and I ctainly think those who can show about a dozen years' exience are entitled to consideration. The Act is, for the blic, as faulty as the one of 1868, or even more so, as it do not include doctors' shops and surgeries, where the dispensi of medicines is conducted principally by doctors' wives, dighters, or servants. Nor is the word "person" defined, a applied to ownership. If the l'harmaceutical Society Il aim at obtaining some Act which is worth anything to lemists, they will get very strong support from us; and I he the good suggestions given by several writers to pretition upon.

Yours faithfully,

Sower Bridge, Yor bire.

M. F. WALTON.
Pharmaceutical Chemist.

An C Subscriler (Bradford) says:—"It is quite eharming to relige to religion. So in the same of the curriculum bill, so ifferent from your past professions. It is not difficult account for the ehanges of front you have taken up. No our idea in this part of the eountry is that the ficiently handicapped by legislation, and it would be more eneficial to it and the public if some legislative energy verification and the stores and such like popular establishers. My own opinion is the Bill is a sham, a delusion and a snare."

[We a not conscious of any change of front in regard to the criculum. We have always said it was not worth going to arliament for that alone, but that if it should be obtained ach effect as it would have would be advantageous rather to otherwise to chemists. What we do advocate, howevers the new branch shop clause, and it is this, we presume which is the trouble with our amiable corresponden. The clause, in our opinion, tends to make the Pharmac Act a reality, and would be simple justice to qualified nen, and would provide the protection for the public vich the legislature intended. That is what our "pale-fad" advocacy amounts to. But our "Old Subscriber" ill be good enough to bear in mind that we have given the interested in opposing the Bill every chance to state the case.]

Qualit Subscriber in Business (41/74) also writes to declare a nself "dead against the Bill," and he adds:—"I have see nothing in print to alter my convictions. I consider it most unjust shame to propose to transfer to the ranks of he unemployed competent branch managers, who are giving their qualified employers and the public every satisfact.

1. It seems absurd for anyone to say these men

are occupying unfair positions in acting as managing assistants to qualified employers; and my experience of twenty years is that they eommand considerably higher wages than qualified men with little practical experience; therefore the charge against them and their employers on this score is alike unfounded. The tendency of the age is to do more business at less profit than of old."

The American Aloe.

SIR,—On page 512 of your paper of to-day appears a notice of a flowering aloe at Glasgow, and the writer refers to "the popular belief that the plant flowers but once in a century." I often see similar statements; but surely your readers know it is but a play on words? The aloe should more truly be said to flower but once, for the flower and plant fade together. In this sense the aloe may be said to flower but once in a century, though, unless elimatic or other influences are adverse, the flowering takes place long before the plant reaches its centennial year. Is there one well-authenticated ease of an aloe arriving at such a great age? Some magnificent specimens of aloe are to be seen at Tresco Island (in the Seilly group). Your readers would find no pleasanter holiday place than this. St. Mary's is the island to make one's headquarters at: and the head-gardener of Tresco is a particularly well-informed and courteous botanist, having under his care numerous rare and foreign shrubs and trees, which he is only too pleased to show to visitors.

If the growing bud be cut off, several gallons of liquid collect in the cup formed by the leaves of the aloe, and from this liquor the Mexicans make an intoxicating drink of great strength.

Bristol, April 21.

W. A. LEONARD.

MISCELLANEOUS INQUIRIES.

A large number of correspondents ask us for formulæ which have already been published in this journal. It is not fair to more eareful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 41. each.

Stareh Gloss.—A number of formulæ will be found on page 233 of our issue of August 20, 1887. (40/49. $\it{T.~H.}$)

Essence of Coffee.—November 5, 1887, page 594. (43/44. Company.)

Florida Water.—See our issue of August 28, 1886, page 289.

34/46. J. T. S.—An authority on the subject states that the best way to deodorise Mineral Oils is to blow dry steam through them in a closed vessel. If done in quantities of 1,000 gallons and upwards, the steam should be passed for at least twenty-four hours. If the oil be darkened by steaming, it will be restored to brightness by washing first with sulphuric acid and afterwards with caustic potash. Information regarding processes for treating oils is considered so valuable as to justify a patent, consequently other published information may not be altogether practicable.

Tineture of Myrrh and Borax.—J. E. Ryder writes:—"Having oceasion to make this preparation, I referred to the formula given by Mr. Ince in your issue of February 4, 1888, to see if that was any improvement on the various ones I have, but was somewhat surprised to find the small proportions ordered of tincture of rhatany and eau de eologne, viz., one ounce of the former and a pint of the latter to over two gallons, and should imagine there must be some error." [The formula is quite correct. Many pharmaeists do not add rhatany to the tincture at all, and eau de eologne seldom exceeds an ounce to the pint.]

35/37. D. T. E.—You will find the formula for Himrod's Asthma Cure in our issue of September 3, 1887, page 304. (2) Opinions differ as to the best method of Destroying Green Fly in conservatories. A weak solution of nicotine is undoubtedly the most effective application, and next to that we may put au insecticide composed of carbolic acid, eucalyptus oil, methylated spirit, soft soap, and water. Either of these preparations is to be applied with a syringe.

24.31. May.—German Yeast is a mixture of yeast cells and farina. The yeast is grown in an amylaceous mixture, made of potatoes or cereals, collected as it rises to the surface, mixed with farina, and superfluous moisture carefully pressed out. There is no reason why yeast should not be made as cheaply in this country as in Germany and Holland; in fact, we know that this is done under Squire's patents, the workers of which turn out hundredweights of pure yeast weekly.

41 18. Subscriber (Old Kent Road).—The simplest test for milk is the lactometer, a graduated vessel which indicates roughly the percentage of cream which rises to the surface.

Correction.—Mr. C. Shapley writes:—"On page 535 (last issue), line 3, for "nitrous acid" read "nitric acid," and on line 5 for "strong nitric acid." read "strong nitrous acid."

24 32. Alpha.—The Colour of Euonymin.—It is very difficult to say what is the correct colour of euonymin until we have found out what euonymin exactly is. The prepara-tion which Professor Rutherford is said to have used was green in colour, and according to Mr. John Moss the green euonymin is made from young wahoo bark, and the brown from the old bark, which contains little or no chlorophyll. The Curator of the Pharmaceutical Society stated at the last evening meeting that it is erroneous to suppose that stem bark yields green and root bark brown euonymin. We know that well-known makers in this country have utterly failed to make green euonymin from either young or old wahoo bark. It should be noted that there are two plants which go by the name of wahoo, viz., Euonymus atropurpureus and E. Americanus. It was from the bark of the latter that a pharmacentical institute of New York prepared the original "euonymine," which was reputed to be the active principle. and to be alterative, tonic, laxative, and expectorant. We have been unable to ascertain the colour of this preparation, an eclectic remedy; perhaps some of our United States subscribers can throw light upon the matter. Martindale states that euonymin is "the powdered extractive, of a dark olivebrown colour generally, obtained from the bark of the root of the wahoo or spindle-tree—Euonymus atropurpureus." The United States Pharmacopcia does not specify the rootbark, but the eclectic school used that bark. Neither, however, as they come into the market, contains an appreciable amount of chlorophyll, and it is difficult to conceive how the nondescript extractive "euonymin" can have anything else than an olive-brown colour, unless some green colouring matter has been added to it.

36/25. Monte Video.—Skins for rugs are preserved by the process of tawing, that is, treating them with alum and common salt.

43.27. X. J. Z.—Liquor Strychninæ Hydrochloratis of the present Pharmacopæia deposits crystals of strychnine hydrochlorate because of the amount of alcohol in the solution, the alkaloidal salt being less soluble in alcohol than in water. It is advisable to use from 15 to 20 minims less rectified spirit per cunce than the Pharmacopæia directs.

Books.

43/45. Fig.—If you refer to our issue of April 14, you will find on the third advertisement page notice of a book on

aërated waters, cordials, &c., by Stevenson and Howe which we can recommend to beginners. Barnett & Foster's wel as other makers of soda-water machinery, also issue instruction.

42,46. Arbeitsam.—A book which will suit you E. T. Kensington's "Chemical Composition of Foods, Wate, Soils Minerals, Manures, &c." (Churchill, 5s.).

38.26. Indagator.—"Handbook of the Telegraph: Guide to Candidates for Employment in the Telegraph Ser e," by R. Bond (Crosby Lockwood, 3s.).

36/31. J. A. F.—We do not know any book on paring articulated skeletons.

193 32. Smilax.—Ghatti gum arabic makes a ucilage which is possessed of full adhesive power, and much cheaper than the so-called Turkey gum. The addition of 4 drops of nitric acid to the ounce of dextrin mucilages said to render it more adhesive. Sugar possesses the property.

40.73. Enquirer.—Paraffin Stains are difficult themove from tile floors. Sprinkle the spots with fuller's e h, and place over it a shovelful of live coals, the heat of wich induces the evaporation of the paraffin, and the fuller earth helps to retain the vaporised oil.

Jacob Bell Scholarships.—We have questions in this subject from Sigma (41/51) and Apprentice (41.4—(the latter erroneously says St. Jacob). These scholars is are of the annual value of 30l., exclusive of free eduction in the School of Pharmacy, Bloomsbury Square. By are open only to apprentices of the Pharmaceutical Society, two are granted annually, and they are tenable for one you are granted annually, and they are tenable for one you so that in the Eneid; Latin prescriptions; translous of Latin into English and English into Latin; the latins from any Latin pharmacopoxia, and parsing. Find or German. English—Composition and parsing. Arit letic—The first four simple and compound rules, fractis, and decimals; the British and metrical systems of weits and measures. Elementary chemistry, pharmacy, and otany. The questions set are published in the calendar of the Pharmaceutical Society. The passages in French and are generally of an easy character, and such as a tobe found in ordinary school books. The Pharmacopox is the best text-book for pharmacy, Miller's or Wilson! "Chemistry" suits well for the chemistry, and Balfou "Elementary Botany" for that subject.

40 52. Leo.—Acetum Staphisagriæ is made by 1 oz. of the bruised seeds in 5 oz. of acetic acid days and filtering, making up to 5 oz. with acetic acid is a suitable vinegar for making lotions. (2) An yrin is extremely soluble in cold water (less than its own whereas antifebrin is feebly soluble (about 1 in 190)

38 4. J. M.—We thank you for your suggestion.

Mr. G. Milligan (Oxford) writes:—"Goose Gase is usually sold at 2d. an oz. here. It is bought in the parket, and melted and strained to purify it.

"Is there any truth in the saying that a loaf of bre which has been hollowed out and had some quicksilver it in it will stop when it comes to a dead body if it is allowed own a stream?"

42,53. Chinaman.—Your query has no connec n with pharmacy.

40 29. J. E. G.—Let us know what formula is lare used for infants' perservative, and what you would like to have.

- 38. Linetus sends a sample of the Worm Syrup for what a formula was given a few weeks ago. It contains a desit of sugar, which may be prevented by using as syrup a liture of syrup, 3 parts; water, 1 part.
- 46. Enquirer (Birmingham).—Surfeit water is Liquor
- (45. S. & S.—Finishing Microscopic Objects.—The row discs are coated with the circular lines of various coled varnishes by means of a camels'-hair pencil, the slic being placed on a turn-table and revolved while the brows gently applied. The white varnish used is a mixture of ind-drying varnish with flake white.
- 3). T. E. H. (Kilburn).—Cherry Brandy.—Brandy and rushed Morello cherries, of each 1 gallon. Macerate for tree days, press, and add 1 quart of raspberry juice, 1 of orange-flower water, and 2 lbs. of loaf sugar. Sha occasionally to dissolve the sugar, and after standing for week, decant.
- 30. C. W.—Your only chance of getting an engagement dispenser on board a ship is to get the appointment thruly the surgeon of such a vessel, to whose discretion it is lily to be left.
- 3 6. One Who Wishes to Know "the true source of Exectum Aloës Glaciale" is informed that the name "Coyn" is generally placed after it, thereby indicating the sour.
- 34. Attraction.—Cold cream with a tenth of its weight of tic acid is more likely than bicarbonate of soda to relie the irritation caused by the hair-dye.
- 4(0. Johannes.— The Pharmacopæia does not direct decicated liquorice to be used for the official preparations, but common consent the powder of the decorticated root is ul in making compound liquorice powder. Strictly speang this is incorrect.
 - 362. Iulip.—Tinctura Rhei Vinosa, Ph. G.:-

 Rhubarb
 8 parts

 Orange peel, dried
 2 ,,

 Cardamoms
 1 ,,

 Sherry
 100 ,,

Majate for seven days, filter, and in the filtrate dissolve seven parts of sugar

- "'ip" wishes a formula for the sweet gripe syrup or waterhich is much used in Nottingham and district. Can anyo furnish the formula?
- Santal. Flav.—The dose of the liq. santal. flav. co. is a spoonful. Physicians now consider that the administrati of this and similar remedies in recent cases is objectione. In long-standing cases the liquor is specially value. The addition of either opium or henbane must depet upon the symptoms.
- 3 0. Salix Nigra.—We are not aware of any published form for Extractum Salicis Nigræ Fluidum. It may be madrith a menstruum of glycerine, 1 part; rectified spirit, 3 pa; and water, 6 parts. For a pint of the extract take 20 of the drug in coarse powder, and moisten with a mixt; of the glycerine, 2 oz.; spirit, 6 oz.; and water, 8 oz. Allow to stand for a few hours, then pack in a percolat pour on the rest of the menstruum, and after a day percete, continuing the percolation with water until 16 oz. of polate are obtained. Set this aside, and pass other 12 of f water through the percolator. Collect the percolate, evapute to 4 oz., dissolve in the reserved portion, and filter.

38/55. Subscriber.—The Violin Varnish which you send appears to be a mixture of ordinary oak varnish with a small percentage of fixed oil. The latter is probably Chinese wood oil (obtained from the seed of Aleurites cerdata) which has been said to be an ingredient of the varnish used for the celebrated Cremona violins. Your varnish evidently contains oil of lavender (exotic). Try the following formula:—

						OZ.
Resin			 		٠.	4
Barbadoes	aloes		 			1
Oil of lave	nder		 			1
Turpentin	e		 			14
Wood oil (or linse	eed oil	 	• •		1

Macerate until dissolved, and strain.

39/28. Miller.—You will find the formula for Marking Ink in our issue of May 7, 1887, page 572.

38/49. Sheffield.—The subject is one upon which we cannot advise you.

36/19. J. J. Frowde.—Dammar is undoubtedly soluble in ordinary benzol, and if your resin is not it is probably not dammar at all. Dr. Klein has given the following formula for the varnish:—

(1)	Dammar Oil of turpenting				
Dissolve	e and filter.	 	•	 • • •	-
(2)	Mastic				1.

Add No. 2 to No. 1.

Another formula given by a pharmaceutical microscopist is:—Dammar and mastic, of each, $\frac{1}{2}$ oz.; benzole, 2 oz., or q s. Dissolve.

- 35/38. Rheum.—(1) We do not have a working formula for Syrupus Quininæ Hydriodatis, nor do we think that one has been published. There are two hydriodates, one acid and the other normal. The simplest way of preparing the former is to dissolve quinine hydrate in hydriodic acid, and make the resulting solution into a syrup with sugar. The strength is said to be 1 grain in a drachm, but the difficulty is to get that quantity in. (2) To fix American cloth to your window enclosure, use a solution of 1 oz. of shellac in 1 oz. of spirit, applied warm.
- 39/31. Missions.—Ointments to be sent to warm climates should not become liquid below 110° F. The following proportions should be suitable for your ointment:—Resin, 12 oz.; yellow wax, 14 oz.; white wax, 6 oz.; spermaceti, 12 oz.; olive oil, 3 lbs.
- 39/50. Veritas.—We do not know the composition of Brahee sugar.
- 39/58. Eos.—Essence of Anchovies.—Anchovies, 1 lb.; flour and salt, of each $2\frac{1}{3}$ oz.; water, a pint. Bone the anchovies, reduce to a pulp, and pass through a sieve. Boil the bones and other unsifted material with the water for fifteen minutes, strain, add the salt, flour, and sifted pulp, and again boil for a few minutes. Then add half a pint of pickled vinegar and bottle.
- 40/46. Chemicus.—A chemist and druggist holding the Minor certificate of Great Britain may therewith get on the register in any of the Australasian colonies. Without that he must acquire a similar qualification by examination before one of the colonial boards.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Dispensers who have compounded any of the following prescriptions, or similar ones, are requested to communicate their results to the Editor.

41/70. Sal Tartaros.—Please send the proportions of the ingredients of the mixture.

Pill Ideas.

SIR,—For fifteen years there has been quoted in Maw's list, under the head of "pill-finishers," a brass burnisher, reversible, and suitable for rounding pills; 7 inches diameter; 6s. each; worked with a strap; which must be the thing several have written about lately. Yours, &c,

FIDES. (207/9)

Copaiba Emulsion.

SIR,—How may the following be dispensed, so that the mixture will not separate? Ought mucilage to be added?—

Potass. nitrat	 		5ij.	
Liquor. potassæ	 		3ij.	
Bals, copaibæ	 		3j.	
Tinet. hyoseyam	 	• •	3iv.	
Spirit, chloroform.	 		3ij.	
Aquæ ad	 	• •	3vj.	
		Yo	ars truly,	
			M. N. (42/4	1.)

[It is not necessary to add mucilage, nor would the procedure be justifiable. Mix the potash solution with 1 oz. of water and shake the copaiba well up with the mixture. Mix the remainder of the ingredients, and add gradually and with constant shaking to the emulsion.]

Unmanageable Suppositories.

SIR,—What is the best way of making the following sup-

Iodoform	 	 	 gr. iij.
Ac. tannie	 	 	 " iij.
Ol. eucalypti	 	 	 mij.
Ergotine	 	 	 gr. iij.
Ol. theobrom.	 	 	 q.s.

Ft. suppositorium.

M.

Yours, &c,
Liverpool, April 22.

Yours, &c,
J. BibDSALL.

Camphor Pills.

SIR,—Will you kindly inform me, through your valuable journa!, THE CHEMIST AND DRUGGIST, what excipient should be used with the following?—

	Camphor		• •	• •			gr.j.
	Ext. belladon.	٠.			• •	• •	,, ¹
	" hyoscyam.						, 1 , 3
iat	nil · mitte vviv						

I used S.V.R. and ol. ricini, but not to my favour, nor that of the pills.

Yours truly,

H. J. (43/34.)

[Powder the camphor by aid of a little water and curd soap, rub down the extracts carefully with it, and mass with glycerine of tragacanth.]

An Explosive Mixture.

SIF,—The following prescription has been dispensed several times, and it has burst the bottle. Can you explain the decomposition which takes place?—

Potass. iodid	 			3j.
Liq. hydrarg, perchlor.	 	• •		3j.
Sp. ammon. arom	 		• •	3ij.
Aq. menth. pip. ad	 			3vii

Yours, &c, SACCHARINE. (43/15.)

LEGAL QUERIES.

- 41/18. Alpha.—If your unqualified friend "ac as an apothecary," or calls himself by any protected titler dispenses or sells poisons, he can be proceeded again under the Apothecaries, Medical, or Pharmacy Acts. By what you tell us about his proceedings is far too vague tenable us to form an opinion.
- 206/28. E. B. C.—The Pharmaceutical Council ce considered that the Pharmacy Act, 1852, gave to pharm entical chemists the exclusive right to use the title "the phmacy," as applied to a shop. They have never pressed the claim, nor have they, as far as we know, ever formally alphaned it. We do not think they could establish it.
- 42/18. Rhei.—Yes. "B & Co. (Limited)" may content themselves "chemists and druggists," even though neith B nor any other shareholder is qualified or registered. Buff B or any other unregistered person should sell a steduled poison, he is personally liable to a penalty under section.
- 42/59. Ajax.—The Pharmaceutical Council do refere with the bonâ-fide use of the title "analytical But they have the power to do so, and they certain would not allow an unqualified person to open an ordiny drug shop and describe himself as "analytical chemist."
- 43/19. An Old Subscriber.—We should consider at the addition of the trade-mark to your label would ready render your preparation liable to medicine-stamp cy. As the label now stands it is about an even chance what the Board would declare it liable or not, but we shoul expect the latter.
- 43/73. Minor.—We do not know whether anyor claims the exclusive right to the title "Soap Bark Dentifri can ascertain at the Trade-Marks Office on payme of 1s. We should suppose it would not be a registrable titl It was decided on appeal at the Cambridge Quarter Se ons on January 9, 1880, that the use of alum in baking-poler was not an adulteration.
- 43/38. C. C.—We do not know why the Board dInland Revenue regard your "Infants' Preservative" as liab. We should not have thought that the label you send r ders it liable. Your "Children's Cough Mixture" is liable ecause you say "prepared only by C. C.," which indicates a aim of proprietary right.
- 44/24. Magnes. Sulph. also sends us a label, head "Infants' Preservative," which has been declared by merset House to render the preparation liable. On the pel appeared certain testimonials which would probably the self as sufficient:—"In reply to your letter, dated 10th inst. superchards of Infants' Preservative,' I am directed by the Inland Revenue to acquaint you that the preparation is liable to stamp duty in consequence of planame given to it, which indicates that it is a specific, to yich description of medicine the duty expressly attaches, as ou will observe on perusal of the annexed extract of the last on the subject."

Information Wanted.

[Replies to the following requests are solicited by c respondents of The Chemist and Druggist.]

28/67. How may capers be best kept in bulk about 2-cwt. quantities?

42/62. Enitar would be glad to know the competion of Drees'ches Eisen.

36/37. What is the best preparation for markir sheep, other than the old-fashioned melted pitch?

Magnificent Show-Card,

BUBBLES"

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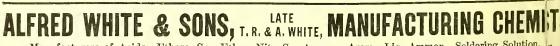
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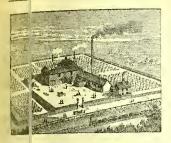
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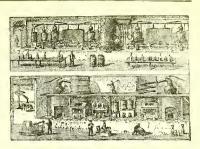
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2/6	u s Pills32/5	2/6 Espic's Cigarettes 13/6	1/9 " de Berthé15/4	2/9Vallet's Pills22/6
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4/6, Cans	Bromide G	2/9 " Soda15/4	7/Pierlot's Valerian59/5	4/6 Viu de Coca Mariani39/8
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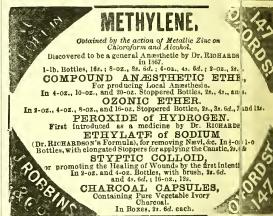
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Dr. J. COLLIS **BROWNE'S**

ORIGINAL AND ONLY THE GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VI. CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. llis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as delibers y nutrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

Th/ICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court wild have given Dr. Browne protection.'

LO) 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 p'ac), the Court would have found means to restrain the Defendant from misrepresenti the decision of the Vice-Chancellor.'

LO) JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepre-

sentatio of the decision of Vice-Chancellor Wood.'

It i proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 14th, 865, sking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used another, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publish he said testimonial as referring to his medicine.

The ditor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published

by the I endant as testimony to his medicine.

Nu rous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the

Inventor Chlorodyne, and that when prescribing they mean no other.

The efendant himself publishes that his compound is in effect and composition quite different to any other preparation; neverthe's he assumes the name, testimonials, &c., of Chlorodyne.

Tec icalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbe on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Governnt Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analy, have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.



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Curling & Co.	99
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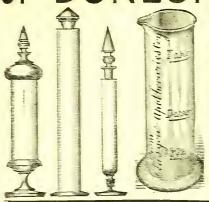
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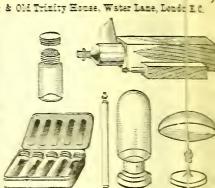
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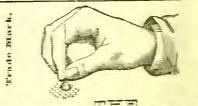
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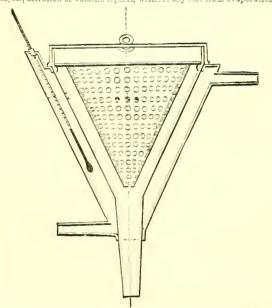
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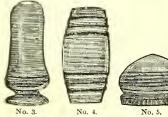
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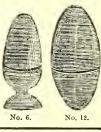
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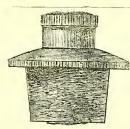
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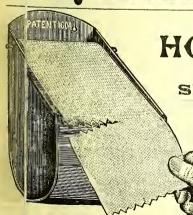
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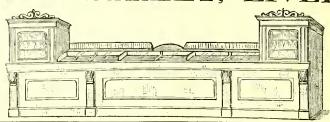
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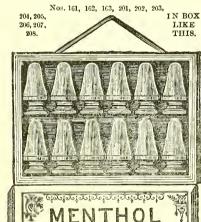
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PATENT

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Less 5 per cent. Cash.

8 Lights in each Box, burn 9 hours each.

The "Pyramid" Night Lamps render the hurning a Night Light perfectly safe, entirely prevent FLICKERING (so objectionable in all Night Lights not burned in a Lamp), are clean, portable, and render a Night Light useful for many purposes where they otherwise would not be.

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The "Pyramid" Night Lights are made much larger than any other Night Light, and give double the light; they are, therefore, very suitable for nursery lamps, lighting passages, lobhies, &c., and adaptable to many purposes for which the common Night Lights are useless.

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Io. 2 ,	, Three-q , One Pir		s Pint Food	i "	,,	5s. 0		"	••		36s.	,,	• •	••	30/-	"	5 per cent.
,	lot Water I			"	21	6s. 0		**	• •	• •	42s. 20s.	,,	••	4 •	33/- 18/-	,,	for
	Pyramid"			• •		2s. 0		"	••	••	20s. 8s.	**			6/-	"	Cash.
"	,,	_	Lights				•	"		7s	. 6d.	"	••		U.	"	Casn.

UTION.—The Patentee, in reply to numerous consumers, hegs to state that he will warrant his PATENT "PYRAMID" FOOD WARMERS to a rethe purpose for which they are recommended only when the "Pyramid" Night Lights are hurned in them; the common night lights will estimicient heat. Persons who find a difficulty in obtaining the "Pyramid" Night Lights in good condition are requested to write to the Patent "Pyramid" Night Lights Patent "Pyramid" Night Lights are best when newly made; the "Pyramid" Food Warmers are sold hy all respectible dealers throughout the kin m, at 3s. 6d., 5s., and 6s. each.

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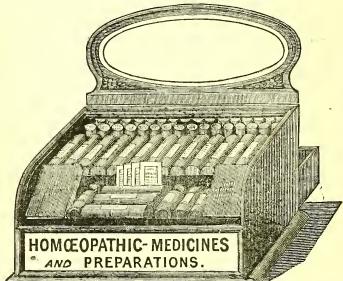
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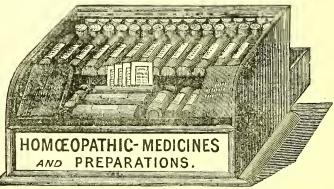
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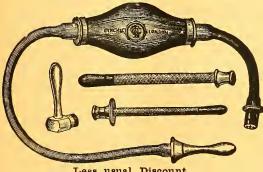


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The simplicity of the Apparatus, the entire absence of complication, and the tremely moderate price warrant the Inventors in hoping for its universal adoption.

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HOWROOM.

We have now completed the restoration of our premises, and shall be pleased to see by of our country friends visiting London. Our Showroom contains samples of all sple goods and the most recent novelties, and we are fain to hope will prove of interest t intending purchasers.

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"THE BEST NATURAL APERIENT."

Persistent attempts are made by interested parties to deceive the public by offering Natural Mineral Aperient Wats with marks, names, and designations very similar to those which are used by the

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FOR THE

NATURAL MINERAL APERIENT WATERS

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you get it when asked for, as imitations are often pushed for the sake of extra profit.

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SPECIAL PRICES ON APPLICATION.

A opy of this Supplement is inserted in every number issued of "THE CHEMIST AND DRUGGIST."

THE CHEMIST & DRUGGIST

SUPPLEMENT.

lusinesses Wanted. lusinesses for Disposal. remises to Let. uction Sales.

SATURDAY, APRIL 28, 1888.

Partnerships. Situations Vacant. Situations Wanted. Miscellaneous.

Ts Supplement will be given free to any Chemist and Druggist or Assistant who will call for it 81.2 Cannon Street on Friday afternoon, or will be posted on Fridays to any one who sends an addressed postal wrapper.

VERTISEMENT3 for this Supplement can be received on FRIDAY MCING, first post, though it is requested that these may be sent in as ear in the week as possible.

I TECHANGE COLUMN ADVERTISEMENTS will appear on page 8 b m jolio), and must be received not later than THURSDAY AT NOON, to ear in the issue of the Saturday following.

All Advertisements for this Supplement and Exchange Column must be prepaid. Remittances payable to EDWARD HALSE, and crossed MARTIN & CO.

OFFICES: 42 CANNON STREET, LONDON, E.C.

CHEMISTS' TRANSFERS.

IESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C. CHEMISTS' TRANSFER AGENTS.

May be consulted at their Offices on matters of SALE, PURCHASE, and VAI, UATION.

he business conducted the their Offices of Interest of Salis, Forchasis, and validation.

The business conducted by Messrs. O indices & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading find in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases can do avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confiductial particulars to the slone who are most likely to possess business qualifications and adequate must for investment. PURCHASERs who desire early information reging eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1 E500.—LONDON, N. - Main road; good business neighbour-loo Retailand Dispensing, with Prescribing; returns about £500 yearly, care of being much increased; well-fitted shop and good stock; about £33 quired.

2 £450.—LONDON, S.E.—Prescribing and Retail Business; eer of table; returns u and £450; well-fitted shop; good house, with good arden attached; rent low; price £300.

3 £500.—LONDON SUBURS.—Retail and Dispensing; estab-lis about seven years; returns (grad tally incressing) £500; no imme-dia possition; well-fitted shop and good stock; good-size I house, held on le, small garden attached; vendor being anx ons for an early sale wil cept reasonable offer.

481.000.-LONDON, GOOD CENTRE, -First-class Retail and spensing Business; returns about £1,000; can be much improved; sho and somely fitted and good stock; large and convenient house; about £3 equired.

5 £450—LONDON, N.W.—Good rising suburb: Retail and Di Ising Business, with Prescribing; returns average £450 yearly: cape of being largely increased; handsome shop and good stock; good hor and garden; price £350; open to an offer.

6 6450. - MIDDLESEX. - Good locality; Dispensing, Prescript, and General Retail; returns average £450; can easily be doubled energetic man; well-fitted shop and good stock; large house; about

7 £1.210.—WITHIN EASY DISTANCE OF LONDIC.—First-class Business; held by the present owner many years; rets about £1.200 yearly; net profits over £400; premises large and condent; full particulars on receipt of references; about £1,200 receipt.

8.—£1,450 —MIDDLESEX.—First-class Retill and Dispensing, with good sale of Proprietary Medicines; returns between £1,400 and £1,500, with net prof/s of over £40); shop well fitted and attractive; convenient house in good condition; about £1,400 required.

9.—£2,000.—PAR PNER 3HIP WITH SUCCESSION.—A Pather required for a very old-established Retail and Dispensing Business, with M neral Water trade attached, situate in South of England; returns nearly £2001 yearly; convenient premises; arrangements can be mad; for purch ser to suc seed to the whole in a year or two; about £300 require; references must be enclosed.

require: references must be enclosed.

10.—£550.—IMMEDIATE.—LIVERPOOL — Disperwing and Retail; well estub ished; held by vendor over 11 years; returns nearly £550, good profits; corner shop, well fitted; rent low; vendor taking larger business will accept £250 from an immediate purchaser.

11.—£600.—WEST OF ENGLAND.—Good market town; attractive locality; old-established Retail and Dispensing, with good country trade; returns about £300 yearly, can be much increased; fairly fitted shop and good stock; convenient house, and good warehouse room; small premium and valuation only required.

12.—£1,350.—SUSSE X.—Good town; first-class Retail and Dispensing Business, very old-established; attractive shop and good stock; returns nearly £1350 yearly, with good profile; valuation terms cau be arranged.

13-£350.-WALES.-Good town; Light Retail and Family trade; returns about £350. capable of being muca increased; good house, &c.; about £300 required.

14.—£600.-GLOUCES FERSHIRE.—Small Mixed Country Business; returns at present about £600 yearly, increasing; large and convenient premises, with good house; price about £450.

N.B.-NO CHARGE TO PURCHASERS.

her Businesses, Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and adv, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

18. OBRIDGE & Co. invite communications from COLONIAL and FOREIGN firms, where business of a confidential nature requires the especial atte on of a London agent.

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

SALE BY AUCTION.

SALVAGE DRUGS, HERBS, AND SEEDS.

SSRS. TOPLIS & HARDING will SELL by SSRS. TOPLIS & HARDING WIII SELLI by AUCTION at the London Commercial Sale Rooms, Ming Lane, on Thursday, May 3, at 1 o'clock punctually, on sount of the Fire Insurance Company, the SALVAGE received from the late fire at Mr. G. Gaines', Parker Street, Dr. Lane, now lying at Messrs. Milbourne's Warehouse, 39 mmercial Road, East, and consisting of areca nuts, turnic, galingall root, roses, buckthorn juice, grains of turric, galingall root, roses, buckthorn juice, grains of par ise, coriander seed, cuttle fish, liquorice root, camomile for s, quassia chips, belladonna root, acacia, charcoal, sage leat, and a large quantity of barks and drugs various

ay be viewed the two days preceding the sale, and catalogs had of Messrs Jenkin & Phillips, 51 Lime Street; and of Auctioneers, 16 St. Paul's Churchyard.

PARTNERSHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ANUFACTURING Chemists, well-established firm, with works in East-End of London, can receive Partner with £1,500, to take place of one retiring through illness. Williamson, Smithe & Co., Financial Brokers, 53-56 Wool Exchange, Coleman Street, E.C.

GOOD opportunity for an investment of from £200 to £500 in a good sound and profitable chemist's business; must be a qualified chemist, and would be required to take the management of one of the branches at a salary to be agreed upon; books show for the last few years that a good dividend may be relie | upon. "Statim," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARSON C. BAKER,

TRANSFER AGENT, 8 Stockbridge Terrace, S.W. (CLOSE TO VICTORIA STATION).

FOR DISPOSAL.—Excellent Mixed Country Retail; price £400. DURHAM.—Improving Business, well situated; returns £1,000; price £500. LONDON, N.—Neglected trade; doing £12 a week a few months since; ill-health; price £200. MIDLAND COUNTIES.—Returns £400; price £200

WANTED TO PURCHASE.—Southern County, good Homeopathic Pharmacy. On the East or South Coast, well-established Business, returning over £1,000. In London or Country, good Family Trade, from £1,200 to £1,500.

PARTNERSHIPS-continued.

Pharmacien of the first class, having achieved success for 10 years in the production of an article under the name of Tartrifuge, or Antitartre Nivet, wishes to find a Partner who can advance £4,000 in order to set up a manufactory in London for the same. Also for another production, the composition of which can only be divulged to a person interested; this latter product is extensively used in France, hut little known in Eogland; success certain. For further particulars address, Mons. Nivet, 24 Rue de la Rochefoucauld, Paris.

TO BE LET OR SOLD.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TUNBRIDGE WELLS.—To Let, capital Shop with dwelling-house, in excellent central position; rent low, £35 per annum; admirahly adapted for a chemist's business. Apply at once, Mr. Howard, Ironmonger, Tunbridge Wells.

&C., to he Let, in Bunbill Row, E.C., at low rents. For plans and full particulars apply to Mr. Charles Bell, Architect, 3 Salters' Hall Court, Cannon Street, E.C.

THEMISTS would hear of a most favourable opportunity of opening a shop (new) in a large thriving and growing northern suburb of London by applying to A. B, care of T. Russel Kent, Solicitor, 8 Serjeart's Inn, Fleet Street, E.C.

ANUFACTURING Premises for Wholesale Druggists and Manufacturing Chemists.—Three good floors, enclosed in separate yard, with chimney, £150; also an adjoining third floor, ahout 120 feet by 30, good light, £70. Letchford's Buildings, close to Bethnal Green Junction.

To be Let, several first-class Houses with Shops, huilt on an entirely new principle, and situated in one of the principal thorough fares and in the centre of a fashionable, well-known visiting town; the shops are large and double-fronted, fitted up with the electric light, and are suitable for Chemists and Druggists. For full particulars address, H. Adams, Monson Road, Tunbridge Wells. None but first-class business men need apply.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WANTED, a Retail and Dispensing Business that will bear investigation; Eastern counties preferred; price about £1,000. Address, "Spero," Barron, Harveys & Co., Wholesale Druggists, Giltspur Street, London, E.C.

WANTED, Retail and Dispensing Business in ondon or an improving suhurban district; returnin from £8 to £10 a week; must bear investigation; no ents. Address, "Chemist," 83 Stamford Street, S.E.

ANTED, a reliable middle-class Business, cable of increase, in a healthy locality within easy dance of London; good house and moderate sized garden ndispensable. Principals only address, giving fullest partillars, in strict confidence, to "Bonâ-fide," care of Mr. Rieards, Chemist, 404 Essex Road, Islington, London, N.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyon

MMEDIATE Disposal, genuine small Eas End Business, now under manager; no reasonable offer refused. Apply first instance, 196 Belsize Road, N.W.

MMEDIATELY, through death of proprieto the Business of Chemist and Druggist successfully car d on for 23 years hy Mr. E. C. Bell, Berkeley; stock incoming very low. Apply, E. C. Bell, or C. Scot Esq., Berkeley, Glos.

SMALL old-established ready-money Busin's for sale in Staffordshire, the proprietor having ather business; a first-rate opportunity for an energetic oung man; rent low; price £100. Apply, M., care of Essis. Wyleys & Co., Wholesale Druggists, Coventry.

Norfolk; price about 300 guineas to immediate yer; capable of great extension by an active man; good ouse and premises. Apply to Mr. Floyd, Drug Valuer, Br. Edmunds.

IGHT Retail; commanding corner position near tailway station; no opposition; large neighbou ood; a stepping-stone to fortune to energetic man; price 275; place well fitted and stocked; rent £40. Write, Messrs. Wright, Layman & Umney, 50 Southwark Stre S.E.

SOUTH HORNSEY. — Established 27 ars; working at present under greatly disadvant eous circumstances; principals only; suitable for a Bach; could let private part of house for rent. Apply on process, T. Lamhert, Chemist, 30 Matthias Road, South Hornse

Nold-established Prescribing and Light
Business for disposal in a large Midland town;
very lucrative proprietaries attached; incoming about 600.
For address, &c., apply, T. J, care of Messrs. Southall 198. &
Barclay, Birmingham.

£275. — London, S.E. — First-class Retai and Dispensing Business, in main thoroug are; increasing; shop handsomely fitted and well stocked good house on lease at moderate rent, in perfect repair, nvenient for letting off. Address, "Subcarb.," Wright, Liman & Umney, Southwark Street, London, S.E.

OLD-ESTABLISHED Chemist's Business; good position, East End, centre of market; long lease; awly fitted; rent £70, £30 let off to good tenant; takin last year, £380; price £220; no agents; good reasons for leing, Address, in first instance, "Beta," Sanger & Sons, ford Street, W.

ONDON, N.—Good ready-money Dispensin and Prescribing Business; returns under a manager 3650 a year, and capable of further development; shop well sted, with good stock, and dwelling-house attached; v be disposed of to a bonâ-fide purchaser for £550; alor leaving England; full investigation invited. Apply, 2/30, Office of The Chemist and Druggist, 42 Cannon St. C.

R Sale (Lancs.), a Branch in main thoroughfare of a town of 13,000 inhabitants; opened 15 months; doing of £8 per week, under manager; a first-class opening for a fig man; about £300. For further particulars apply, G. B., care of Barron, Harvey & Co., Giltspur Street, L lon, E.C.

500 RETURNS.—General Country Retail, in pleasant market town, Yorkshire, centre of agricultural district; also good connection in Mineral Wars; vendor is retiring, and will give good introduction; viation of stock and fixtures only required, estimated at £), part of which can remain on approved security. F Brett, Valuer, 60 St. Stephen's Road, Leicester.

POPULATION; profitable Retail and Prescribing Business, doing nearly £200 under magement; nearest opposition mile away; rapidly increasin neighbourhood; pushing young man could more than dole the amount; rent, rates, taxes under £20 a year; mern plate-glass front, good shop, six rooms, two cellars. M George, 59 Cowley Street, Derby.

VALUABLE Proprietary Business for sale.—Gillingwater's world-renowned Hair-dye and Toilet parations (10 proprietaries), from which a fortune was me by the late Mr. Gillingwater; with judicious advertisit can soon again be made very remunerative; price for wle, with stock, £300 net, or offer; must be sold. Apply teMr. Bloodworth, care of Gordon, Murray & Co., 50 T. bald's Road, W.C.

(AFFORDSHIRE Potteries.—A small readymoney Prescribing, Dispensing, and General Retail Biness; situated in main street of busy market town; et llent position; low rental; capable of great increase; gol proprietary articles in regular demand; will sell at vation; rare chance for anyone wishing to commence ste or cutting business. Address, S. P., Office of The Commission
PRKSHIRE Coast.—Good-class Retail and Dispensing Business; handsomely fitted, well stocked; endent 10-roomed residence; rent only £45; long lease; reming £850; very profitable; price £700. Also in CBHIRE, Retail, Dispensing, and Agricultural Business; raning £1,600; net profit £350; price, £150 goodwill and ration. Apply to Messrs. Berdoe, 30 Jewry Street, A; ate, City.

(*ECIAL.—South Africa.—A good-class Business for immediate disposal; returns nearly £2,700; net pits over £1,700 yearly; no cutting prices or stores; about £00 required; the business will bear strict investigation; Ldon wholesale house given as reference; full particulars it sonfidence on receipt of business card or reference; at tal opportunity for two young men as partners. Apply a Messrs. Orridge & Co.'s Offices, 32 Lndgate Hill, Ldon, E.C.

SITUATIONS OPEN.

18.6d. for fifty words; 6d. for every 10 words beyond.

ANTED, an Assistant, must be a good Salesman and Counterman; liberal salary (increasing). Apply, B tall, Chemist, 52 Marchmont Street, Russell Square, W.C.

HOLESALE Drug Trade.—A strong man required for the Dry Counter, as second hand. Apply, bletter, stating experience, to Z., Office of The Chemist A) Druggist, 42 Cannon Street, E.C.

AVELLER.—Wanted one with a connection among retail chemists to take orders for stationery, p.ting, &c. Apply, letter only, N. M. G., care of Messrs. Exmore & Co., Cullum Street, Fenchurch Street, E.C.

WANTED at once, Assistant as Junior; outdoors; qualified; about 22; quick and accurate dispenser; good counterman. Apply, F. J. H., 10 Church Street, Malvern.

ASSISTANT (indoors), for Stock, &c.; must be experienced and well recommended. Apply, with full particulars, to Lewis' Drug Stores, 20 and 22 Great Portland Street, W.

WANTED, at once, qualified Assistant for Dispensing Department, Haymarket Stores; hours 9 to 7; outdoors. Apply by letter only, stating salary and other particulars, The Chemist, 23 Haymarket, S.W.

WANTED, temporarily, a Junior Assistant in a chemists' shop in London; short hours; time for study for exam. Address, "Chemist," care of Clarke, Son & Platt, 85 Gracechurch Street, London, E.C.

UNIOR, for good-class mixed retail, prescribing, and dispensing business; knowledge of French desirable but not essential. State age, height, salary, references, &c., to G. T. Botterill, Pharmaceutical Chemist, Grimsby.

WHOLESALE Drug Trade.— A London house requires a smart hand used to calling over and getting out orders; none but those having had similar experience need apply. Address by letter only, Z, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

WANTED immediately, a qualified Assistant; must be a good dispenser; for a country business; aged 20 to 25; single preferred. Apply personally to W. W. Flood & Co., 102 and 103 Blackman Street, Boro', S.E. Satisfactory references indispensable.

UNIOR Invoice Clerk wanted, who has a know-ledge of the Drug Trade; mnst be a good writer and quick at figures. Apply, by letter only, stating age, experience, &c., Box No. 31/51, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

QUALIFIED Assistant wanted at once for China, having a knowledge of French and of the mannfacture of Ærated Waters; first-class experience and highest references indispensable; 25 to 30. Apply to Messrs. Dakin Bros., 2 and 3 Creechurch Lane, London, E.C.

WILLIAM HESELTINE & SON, Wilson Street, Finsbnry, E.C., are open to engage a first-class man to introduce and appoint Chemists as Agents for their Teas; liberal terms to one having necessary qualifications (see full page advertisement appearing in this issue). Apply by letter, as above, in first instance.

THE British Cigarette Manufacturing Syndicate (Limited), Manchester, whose goods are made from the finest tobacco, and sold at lower prices than the very commonest, are prepared to appoint Travellers and Agents to represent them in all parts; sample 100 sent carriage paid for 2s. 3d, Turkey or Virginia.

BOURNEMOUTH, easy distance from.—A young gentleman is required to give his services in return for thoroughly comfortable home; duties very light; half usual hours; no Sunday dnty; to a young man desirous of studying this is a splendid opportnnity. "Chemist," The Beeches, Winton, Bonraemouth.

WANTED, qualified gentleman, accustomed to firstclass family business, of good address and unexceptionable references, to take charge, and in the absence of the principal to entirely manage the business with a view to partnership and succession. Address, "Omega," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AN Assistant; indoors; must be a quick and reliable dispenser, accustomed to a first-class retail, and capable of taking entire charge; highest references indispensable. Apply, stating height, salary, &c., required, enclosing photo (to be returned), R. Sunner, Pharmacentical Chemist, 31 Patrick Street, Cork.

SITUATIONS WANTED.

1s. for twelve words; 6d. for every six words beyond.

ANAGER; permanency; qualified; 41; single. A. B., 22 Duke Street, Portland Place, W.

VENING Engagement, after 6; qualified. "Major," 46 Swan Street, Borough, S.E.

S Assistant; Mixed business; aged 23; total abstainer. Eirianfa, Abergele, North Wales.

UNIOR; 3³/₄ years' experience; references; Wales or London. Brynamlwg, Llanon, Aberystwith.

SSISTANT for summer months, aged 21; qualified. Bellamy, Maiden Row. Louth, Lincolnshire.

RANCH Manager or Assistant, in or outdoors. M., Preston-on-Wye, Hereford.

A SSISTANT or Branch Manager, aged 22. M.,
Office of THE CHEMIST AND DEVOCATE 22. Street, E.C.

UNIOR; Minor qualification; accustomed to good Retail and Dispensing business; excellent references. T. H., 3 Grev Friars. Leicester.

SSISTANT (24) in good-class Dispensing business; 11 years' experience; Hall qualification. "Assistant," The Beeches, Winton, Bournemouth.

UNIOR or Improver; aged 20; 5½ years' experience; indoors; good references; disengaged. B. P., 24 Wilberforce Street, Hull.

Wholesale or Retail; advertiser married; aged 32; disengaged; satisfactory references. B., 18 Well Street, Great Yarmouth.

AS Improver; 2 years' experience; good home more desirable than salary. Address, "Alpha," 45 Church Street, Shildon, Co. Durham.

ANAGER or Dispenser; temporary or permanent; chemist or surgeon's. Dunkerly, M.P.S., 88 Morton chemist or surgeon's. Dunkerly, M.P.S., 88 Morton Road, Islington, N.

RANCH Manager or otherwise; good references; aged 38; disengaged. experienced; J. C. Skinner, 97 Lower Addiscombe Road, Croydon.

Chemists.—Locum-tenens, stock taken, books audited, &c., by experienced gentleman; good address; terms moderate; town or country. "Locum," 43 Brook Green, W. Please cut this out.

ANTED, situation by practical working foreman; understands Essences Sympo Gardin and State of the state of th understands Essences, Syrups, Cordials, Machinery and Beer Bottling, &c.; aged 30; with 12 years' experience; highest references; moderate salary for permanency. R. F. L., 37 High Park Road, Southport, Lancashire.

F. M., 24 Faunce treet, UTDOOR Assistant. Kennington Park, S.E.

EGISTERED Chemist, Dentist; married Prescriber, Dispenser, Tooth-extractor; mechanil and retail knowledge almost nil; long acted as medical a stant. "Chemicus," 43 Elizabeth Street, Bradford.

AS Junior, where two or more are kept; ccustomed to good-class Family and Dispensing rade; aged 20. Address, F. D., Beasby House, Grimsby, acoln-

EDICAL.—Wanted, situation as Dispenser unqualified Assistant; take consultations and attellimit qualified Assistant; take consultations and attel midwifery; university curriculum. Address, No. 9084 Scotsman Office, Glasgow.

TOWN Traveller, Manager, or other respisible position; good experience and address; unquesonable references; disengaged; aged 29; married; strict temperate. "Traveller." 20 Princes Street, Landport, H.ts.

DVERTISER (21) seeks situation as Warrouse man in Wholesale Druggist's or Sundries; go references. "Cortex," Office of THE CHEMIST AND DEGGIST, 42 Cannon Street, E.C.

HOLESALE Drug Trade.—A situation ruired as Head or Under Warehouseman; many years xperience with both town and provincial firms. Address 08/26, Office of The Chemist and Druggist, 42 Cannon , E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this ading which can be obtained on application.

PRELIMINARY AND MINOR.

LL Students who are preparing shoul send for particulars of a method of study which wil mable them to pass with ease. Enclose stamped envelop to Mr. Tully (Hills Prizeman), Chemist, Hastings. Est lished 72. References to past and present Pupils. 3 Pupils passed the last Examinations.

STUDENTS' AIDS TO EXAMINATIO
RELIMINARY.—Arithmetic and Metric stem,
1s. How to Write an Food 21 1s. How to Write an Essay, 3d. Cæsar Simpled, 1s. Knotty Points in Latin Grammar, 1s. 6d. Minor.—E ations Simplified, 1s. Illegible Autographic Prescriptions, 1 Notes on Dispensing, 1s. Prescriptions given at the Mir, 6d. "Chemist," care of Mr. J. Edwards, Wye, Kent.

ENTISTRY.—A Surgeon Dentist, of grt experience, will shortly be on tour, in June, insecting Chemists in Elementary Surgical and Mechanical Desistry terms and vacant dates given on application; me anical work of every description executed very modera from 1s. 6d per tooth; beautiful full set, celluloid, in cas or exhibition, 40s. "Dentorium," 42 Stamford Hill.

THE PHARMACEUTICAL COUNCIL ELECTION, 1881.

ELECTION OF COUNCIL FOR 1888.

To the Members of the Pharmaceutical Society.

Gentlemen,

I have been urged by my friends in Scotland to offer mysolf for election to the above Council with a view of regaining for that part of the country that proportion of representatives which it is even unmerically entitled to, and which it has possessed up to last Election. It was also impressed upon me that I would be able to represent the interests and wishes of Provincial Chemists generally, whose circumstances are often so different from those whose businesses are carried on in large towns.

While of opinion that the imposition of a suitable Curriculum ou our Students is likely to be beneficial to the future of our calling, I am strougly persuaded that such a course should be accompanied or followed up by a measure which would remove the anomalies in the present Acts, and put our legal rights once for all on a clear and satisfactory basis.

I believe also that the time has come for consolidating and popularising the Society by removing some of the distinctions between the various classes of its members, and thus increasing the inducements to join the Society at an early age.

Society at an early age.

If elected, I shall endeavour to promote the interests of Pharmacists to the best of my ability, and discharge the duties of the office with

I am, yours faithfully JAMES WATT.

To the Members and Associates of the PHARMACEUTICAL SOCIE'Y.

In seeking re-election to the Pharmaceutical Council, I have express my regret for having been mable (owing to my visit to India) attend some of the meetings.

During the last year I have had a fair jusight into the work of the Council, and, in my opinion, a great many questions are taken I Committee which could, with greater advantage, be discussed openly if freely in Council meetings. The opinions held by the members and a votes recorded would then be reported. This, I believe, would create greater interest in the afters of the Society.

I was opposed to the establishment of a research laboratory, as I did, that the money which will be left, after completing our bensive new premises, could be used with better results in extending our rangements for teaching Practical Pharmacy. The Pharmacy Acts Ar dment bild is a step in the right direction, but falls short, inasmuch a e have neglected this opportunity of asking the State to extend our pri types as a class when fresh conditions are imposed. Should this Bill be letted, I hope the Council, having the unaximous support of the trade il have the courage to introduce a much larger and more comprehensive ensure to protect our trade interests.

If re-elected, I sall an leavour to serve your best interests. the courage to introduce we much mage to protect our trade interests.

If re-elected, I shall en leavour to serve your best interests.

I remain gentlemen,

Your obedient servant,

GWILYM JANS.