



Branch Offices:
MELBOURNE
and
SYDNEY.

Registered as a Newspaper

Established in

for Foreign Transmission.

ENGLAND - 1859.

AUSTRALASIA - 1885.

906. Vol. LI.

AUGUST 28, 1897.

Subscription, 10s. per annum, including Diary, Post Free the World over. Single Copies, 4d. each; Winter and Summer Issues 1s. each, Post Free.



Toilet Soaps.

With Chemist's own name.

ALLEN & HANBURY'S Ltd. can supply Chemists with High-class Milled TOILET SOAPS of their own manufacture, at prices to compete with the cutting rates of Stores, &c., for the highly-advertised articles. At the same time a fair profit is obtained, and, by supplying a first-class article, every satisfaction is given to the purchaser.

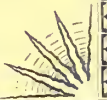
These Soaps are made from pure edible fats, and are guaranteed free from all Adulterants, free Caustic Alkali, or injurious colouring matters. They are delicately perfumed, and, being superfatted, are suited to the most tender skins or for nursery use.

Put up in cardboard boxes and carton cases to hold three tablets, with Customer's name and address; also in wooden boxes holding three dozen unwrapped tablets.

A list of the "Allenburys" Medical Soaps supplied on application; also samples for distribution to local medical men.

Write for Samples and Prices to the Manufacturers:

Allen & Hanburys Ltd., Bethnal Green, London.



MAY & BAKER, LIMITED



Telegraphic Address—"BISMUTH LONDON."
A B C Code Used.

ESTABLISHED
OVER 60 YEARS.

Telephone
No. "3, BATTERSEA"

CAMPHOR.

M. & B. TRANSPARENT TABLETS

(SUBLIMED, NOT COMPRESSED).

MERCURIALS. ETHERS. BISMUTH SALTS.

PURE FRUIT ESSENCES.

PHOTOGRAPHIC CHEMICALS

PERCHLORIDE OF IRON, NITRIC ACID, &c.

Specially Prepared for **PROCESS WORK.**

CYANIDE OF POTASSIUM (JOHNSON'S QUALITY.)

NICKEL SALTS, ACIDS, AND ALL PLATING CHEMICALS.

GARDEN WHARF, CHURCH ROAD,

**STEAMBOAT PIER,
BATTERSEA SQUARE.**

BATTERSEA, S.W.

**NEAREST STATION,
OLD BATTERSEA STATION,
West London Extension Railway.**



THE CHEMIST & DRUGGIST SUPPLEMENT.

SATURDAY, AUGUST 28, 1897.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

For Bargains see last page of this Supplement.

Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

The Man who pays 1/- or 3/6

For an advertisement in this Supplement has to pay cash; so he becomes an exceptionally critical person in respect to the value of the advertisement. That is a fair statement. Now, what do we find? Advertisers tell us their results—ten, twenty, thirty or more replies, summed up in the five words—"Suited; don't repeat the ad." And alongside that there is the fact that this Supplement has grown from a modest thing with a dozen advertisements in it to the present proportions. The growth has been as gradual as phenomenal, which is the best proof that it is based on a sound foundation—extensive circulation and quick returns. When you want to advertise, please remember

"The Chemist and Druggist" Supplement.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

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

SELLERS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

- 1. **3,000.—LONDON, W.**—Retail and Dispensing Business, well situated in busy main thoroughfare; returns exceed £3,000, *net profit good*; the premises are large and attractive, corner position; commodious residence, long lease; price about £2,300.
- 2. **600.—LONDON, W.**—Main road; Branch Business; returns present rate £600; the shop is well fitted and stocked; comfortable residence will be granted; price about £500.
- 3. **1,000.—CRYSTAL PALACE DISTRICT.**—Modern Pharmacy situated in busy main road; returns present rate £1,000 yearly; the shop is nicely-fitted and is well stocked; large house with garden; price £800.
- 4. **1,000.—LONDON (Suburban).**—Retail, Prescribing, and Dispensing Business, situate near busy railway station; returns £1,000; handsome-fitted Pharmacy; small residence, held on lease; price £700; offer wanted.
- 5. **1,100.—LONDON, W.**—First-class Dispensing Business, held by the present owner over 30 years; returns present rate £1,100; the shop is nicely fitted and well stocked; large residence; part can be let off; interesting investors with about £1,000 at command can have particulars.
- 6. **600.—SOMERSET.**—Unopposed Business, very old-established concern; returns, under manager, £900 with excellent profits; commodious residence and attractive garden; price £600.
- 7. **800.—BUCKS (charming locality).**—Old-established Business; Dispensing and Retail; situate in the centre of town; returns £800; nice shop; nicely-fitted shop and good working stock; comfortable house with garden and greenhouse, stables, &c.; full particulars on application.

- 8. **£5,000.—PROVINCIAL TOWN (within easy distance of London).**—Wholesale and Retail Business, including Mineral Water Manufactory; returns exceed £5,000 yearly, *net profit 20 per cent.*; the premises are large and convenient, contain residence, large outbuildings, laboratory, engine-house, and mineral water manufactory; terms, goodwill £750, and valuation of stock and fixtures, probably about £3,000 to £4,000 in all; recommended; applicants must send London reference.
- 9. **£600.—NORTHAMPTONSHIRE.**—Old-established Business, Retail, Dispensing, and Agricultural; held by the vendor 20 years; returns £600; nicely-fitted shop, with excellent working stock; good house; valuation if required; worth attention.
- 10. **£1,000.—SOUTH OF ENGLAND.**—Good-class business; Dispensing and Family trade; returns £1,000 yearly; *profits fully up to the average*; well-fitted shop and good stock; price £900.
- 11. **£850.—BEDFORDSHIRE.**—Well-established Business, situate in the market-place; returns £850; *net profits about £300*; good house and garden; price £700.
- 12. **£1,200.—HOME COUNTY.**—Retail, Prescribing, and Dispensing business; returns £1,200; *net profit £300*; the business is well-situated in busy main street; capital position, good house on lease; price £650.
- 13. **£650.—SURREY.**—Charming locality; Retail Business, offering good facilities for extension by a business man; returns over £650; price £500.
- 14. **£500.—BOURNEMOUTH (near).**—Good-class Business, situate in the main street; corner position; returns present rate £500; valuation of stock and fixtures only required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.

NO CHARGE TO BUYERS.

£900 returns.—**LONDON, N.**—Good-class Light Retail, with large sale of own specialities; large and handsomely-fitted Pharmacy; good house, long lease; net profit £300; price £800.

£900 returns.—**LONDON, N.**—General Light Retail, Dispensing, and Prescribing; net profit £300; long lease; price £750.

£1,700 returns.—**BIRMINGHAM** (Good-class Residential Suburb.)—Cash trade; can be doubled by personal attention; price £700.

£600 returns.—**WALES, N.**—Very profitable unopposed Retail, bearing a net profit of £250; good house; rent £22; price £500.

£450 returns.—**NOTTINGHAM.**—Branch Retail, in improving part; can be much increased by personal attention; low rent, on long lease; price £250.

£1,150 returns.—**LANCASHIRE.**—Handsomely-fitted shop, in good position of large town; cash trade; good specialities; with personal supervision, capable of large increase; valuation about £700.

£550 returns.—**POTTERIES.**—Profitable Light Retail, in rapidly-improving town; no Stores; net profit about £200; price £400.

£700 returns.—**NORFOLK.**—Good-class Retail, in central position of large town; net profit £200; price £600.

£900 returns.—**CARDIFF.**—Good-class suburban Retail, with commodious house, at low rental and long lease; net profit £250; price £600.

£750 returns.—**NOTTS.**—Good Family Retail, with some Agricultural; excellent house and premises; held by vendor 40 years; price £650.

WANTED.

F. J. BRETT has numerous inquiries for Businesses of all sizes and classes, and can speedily sell your Business for you.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

1.—**DEVON.**—Light Retail and Prescribing Business, returning £630 under management; low rent; good house and garden; net profit £160; price £250. Also one **DEVON COAST**, price £450.

2.—**HAMPSHIRE.**—Good-class Light Retail and Dispensing Business; returns £1,100; net profit £550; handsome shop; best position in town; good house; price £950; valuation terms arranged.

3.—**DORSET.**—Old-established Family, Retail, Dispensing, and Prescribing Business; returns £1,200; same hands many years; retiring; good house; low rent; long lease; price £800.

4.—**WILTSHIRE.**—Small town; Light Retail, Dispensing, and Prescribing; returns £600, with scope for increase; good house; large garden; same hands many years; retiring; price £450, or valuation.

5.—**MIDLANDS.**—Market town; Retail and Prescribing trade; returns £650, can do £1,000; good house and garden; large well-fitted shop; small goodwill and valuation of stock and fixtures.

6.—**EAST COAST (Seaside Resort).**—Old-established Retail, Dispensing, and Prescribing Business; returns over £700; net profit £200; good house; no goodwill; valuation of stock and fixtures only required.

7.—**SOUTH COAST.**—Light Retail and Prescribing Business; returns £700, has done £1,400; good house; long lease; price £325, or valuation of stock and fixtures; fortune to good Prescriber.

8.—**LONDON (West-end).**—High-class Dispensing Business; returns, under management, £1,000; net profit £300; principal would double this; excellent position, price £950.

9.—**LONDON, S.W.**—Main road; Retail and Dispensing Business; returns £1,275; net profit £350; good house; low rent; satisfactory reasons for leaving; price £950.

10.—**LONDON, N.**—Suburb, main road, Retail and Prescribing Business; excellent corner position; returns £6 to £7 weekly, can be doubled at once; stock and fixtures worth £200; price £225.

Particulars of either of the above free on application.

We have at the present time a number of really good Businesses on our books. Purchasers are invited to send their requirements, and particulars will be forwarded. VALUATIONS personally conducted.

NO CHARGE TO PURCHASERS
35 JEWRY ST., FENCHURCH ST., CITY.

96

JUDD & MANNEIS

CHEMISTS' VALUERS,

Transfer Agents, Partnership Negotiators,
Arbitrators and Accountants,

76 CANNON STREET, LONDON, E.C.

WEST OF ENGLAND.—Retail and Dispensing; returns £50; rent £40; price £500; a bargain.

SOUTH COAST.—Retail and Dispensing; returns £640; net profit £170; price £450 or offer; good opportunity for a pushing man.

MIDLANDS.—Cash Retail, with good sale of own Properties; returns £930; price £450; satisfactory reasons for selling.

CHELTENHAM.—Good-class trade; returns £481; proprietor of another business some few miles away will accept a valuation of stock and fixtures.

HOME COUNTY (near London).—Light Retail, Dispensing, and Prescribing trade; returns £875; low rent; price £150, goodwill and valuation.

NORTH-WEST OF ENGLAND.—Retail and Prescribing trade now doing £10 a week, and capable of great improvement; rent £ long lease can be had; valuation only. We strongly recommend this.

NORTH LONDON (Main Road).—A capital Retail and Prescribing trade; returns £500 (from the position it stands in it ought to double); rent £—; price, including a good lease, £350.

VALUATIONS made for Probate or Transfer by a fully qualified member of the Firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

FERGUSON & OSBORNE

VALUERS and TRANSFER AGENTS

VALUATIONS A SPECIALITY.

Our Mr. FERGUSON, Ph. Ch. (Exam.), having had a thorough training and long experience in the Wholesale and Retail, and a professional Valuer, gives his personal attention to this department, on application.

1.—**PROMINENT POSITION, S.W.**—High-class Retail and Dispensing; returns £1,000; net profit £350; price £750 or close offer.

2.—**BIRMINGHAM.**—Retail and Prescribing; corner position returns over £600; price £400.

3.—**LONDON.**—Retail and Dispensing; splendid position; good residence; returns £650; price £420.

4.—**EAST COAST.**—Family Retail and Dispensing; returns over £700 price £500.

5.—**LONDON, S.W.**—Retail and Dispensing; returns £500 price £200.

56 CHEAPSIDE, LONDON, E.C.

THOMAS TOMLINSON & SON,

M.P.S.,

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

44 YEARS' EXPERIENCE.

Valuations Conducted with careful attention to detail.

BUSINESS WANTED.—Thomas Tomlinson & Son, having books an extensive list of gentlemen who have entrusted their commissions to look up a good genuine Business, intending sellers upon being at once with all despatch put into communication with fide buyers without publicity and the annoyance of answering "certainly" applications. No charge made unless Sale is effected.

BUSINESSES FOR DISPOSAL of various classes and amounts of returns ranging from £200 to £4,000. Particulars given to applicants stating outline of requirements.

Have constant inquiries for REGISTERED ASSISTANTS Applicants introduced free.

NO CHARGE TO PURCHASERS.
Telegraphic Address—"TOMTOM."

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

BIRMINGHAM SUBURB.—Well-established General, Retail, and Prescribing, with Photographics and Spectacles; corner shop; rent returns over £600; offers wanted. "Stet," 60 Eudicott Road, near Birmingham.

BIRMINGHAM (Near).—Good-class Light Retail and Dispensing Business; capital position; rapidly-increasing locality; returns very profitable; low rent; good house, with bath-room; shop is well stocked; price £375 or offer; worth attention of cash buyers. "De" (223/8), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BSTOL.—For Disposal, an old and well established high-class Dispensing and Family Business at Clifton; highly respectable connection, which might be greatly extended by a smart man of business taking it in hand at once; stock, trade, and other fixtures and fittings and in trade at a valuation; the proprietor is owner of a valuable patent, which could be made the subject of a separate arrangement; rent £45. Apply to Mr. John Coombs, the Mart, Bridgwater.

CLDFORD (Near).—Good-class Light Retail, Dispensing and Prescribing Business; returns average £11 weekly; rent £30 on lease; 9-roomed house, large garden, well-fitted shop; good stock; net profit £20; price £300, stock and fixtures worth the money. "Spes Bona," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GRASSINGTON.—The House and Shop is either to Let or Sell; the shop is a modernised one, door in at corner, plate windows on each side. It is an old-established Drug Business, with a Newsagency and Stationer's added a few years since; Grassington is now a noted health resort and will soon have railway accommodation; it is a splendid opening for a young qualified Chemist; present owner will have no objection to start a small salary while the purchaser gets settled and used to the business. One of Heywood's Guides and all information will be given on application, J. Crowther, Wholesale Druggist, Grassington.

LONDON SUBURBS, N.—Price £250 or near offer; main thoroughfare; a profitable middle-class ready-money trade; nearly £400 a year, regularly increasing; carried on by Assistant; large, modern, well-fitted shop and house; rent £50 and £55, on agreement for lease; garden. Address, "Chemist," c/o Mr. Bird, Leatherseller, 610 Seven Sisters Road, Lorn, N. Also a small Business in main road, E., for value of stock and fittings; same rent; no agents.

LONDON, W.—For immediate Disposal, well stocked and fitted shop, busy part of West-end; returns exceed £450; exceptionally good profit; accept £175 for cash; every investigation. "Chemist," c/o Street & Co, 30 Cornhill.

MANCHESTER (within 30 miles); must be sold through illness; well fitted as new; grand position in suburb of large manufacturing town; Wine Licence, 6 good Proprietaries (sell well); good house; of cellar room for wines; offers wanted. A. (235/18), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MIDLANDS.—To be Sold privately, as a going concern, good-class Business, with first-class Dental practice; plenty of Prescribing; little opposition; good house, with garden; low rent; amount re-about £300; cash buyers only dealt with; Dental practice alone the amount. Apply, 223/11, Office of THE CHEMIST AND DRUGGIST, Cannon Street, E.C.

NORWICH.—A genuine Light Retail and Prescribing Business; large corner shop, well stocked, in densely-populated district; rent on lease; established 12 years; proprietor taking larger business; about £500. 128 Dereham Road, Norwich.

NORTHAMPTONSHIRE.—For immediate disposal, on account of ill-health, a good-class Family Retail and Dispensing Business; good shop, well fitted and stocked; central position; splendid opening for party seeking a Branch; convenient house and premises; prompt purchaser liberally treated with; no agents. Apply, "Zingih," c/o Messrs. Hodgkinson & Co., 101 Whitecross Street, London.

POTTERIES.—First-rate Business for disposal. For particulars, "Pottories" (201/50), Office of THE CHEMIST AND DRUGGIST, Cannon Street, E.C.

SOUTH-WEST OF ENGLAND.—An old-established Country Retail and Dispensing Business, with an excellent county connection; returns about £1,100 to £1,200 a year; very nice premises, standing in best of thriving market town; price £900. Apply, "Wilts," c/o Messrs. Davis & Son, 157 Queen Victoria Street, E.C.

For immediate Disposal, at valuation (£500 to £600), an old-established Dispensing and good-class Retail Business; a good counterman, with knowledge of up-to-date trading could largely increase turnover; shop is the heart of a good-class residential Lancashire town. Boua-fide purchase please only apply (236/20), Office of THE CHEMIST AND DRUGGIST, Cannon Street, E.C.

SLE through ill-health.—Small Business for disposal, in the main thoroughfare of a populous neighbourhood; well fitted shop, with adequate window; excellent opportunity; investigation courted. For full particulars, apply, W. T., c/o Messrs. Jackson & Sons, Old Post Office Place, Liverpool.

To be disposed of, in consequence of the death of proprietor, 4 Retail and Dispensing Businesses, all well fitted and stocked, situate in busy and populous thoroughfares in Liverpool; shops low rented; gross profits £800; to effect an immediate sale £1,200 will be accepted for the lot; to a man of energy and capital this offers a rare opportunity. For particulars, address, J. Guy, Queen's Park, Chester.

UNPROPOSED Village Business for Sale at valuation of stock and fixtures; returns about £400; good house and garden; low rent; an excellent opportunity for a young man with small capital. Apply, "Radix," c/o Mr. E. Whiteman Bell, F.C.S., Spalding.

£50.—Grand opportunity to obtain a good little Business in London; suit beginner, or open Surgery; good Prescribing and rising neighbourhood; rent £33, let off £16 (2 rooms); good house; small Retail and Prescribing; very profitable; stamped address for reply to genuine buyers. "Retail" (237/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

WANTED, a medium Light Retail and Dispensing Business within the Midland Counties; price about £250. Particulars to H. E. Allenby, Verulam Street, St. Albans, Herts.

WANTED to purchase, for ready money, a genuine Retail, Dispensing, and Prescribing Business (London or country), returning £800 to £1,200, or smaller if can be increased; locality not so much studied as the bona-fide nature of the business; what offers? T. D. W. (223/7), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less ; 6d. for every 10 words beyond.

RETAIL.

ALDERSHOT.—Wanted, a smart Junior for a good-class Cash business; capable of taking occasional charge, and accustomed to Dispensing and putting up stock. Apply, giving full particulars, age, height, salary required, references, and enclose carte (which will be returned), to Allen & Lloyd's Cash Chemists' Stores, Aldershot.

BATH.—Wanted, a Junior Assistant in a Dispensing business; one kept. Partington, 2 Beaufort West, Bath.

BATH.—Assistant (outdoors); must be a thoroughly experienced Dispenser, and of good address. State full particulars, enclosing photo, to Pinch & Co., City Drug Stores, Bath.

BETHNAL GREEN BOARD OF GUARDIANS.—Wanted, a qualified Dispenser for six weeks; salary £2 10s. a week. Applicants attend personally at the Guardians' Offices, Bishop's Road, near Cambridge Heath Station (G.E.R.), on Tuesday, 31st August, at 2 o'clock.

BIRMINGHAM AND MIDLAND EYE HOSPITAL.—Wanted, an Assistant Dispenser to attend at the above Hospital every day (Sunday excepted) from 9 till 1 o'clock; applications, addressed to the Chairman of the Medical Board, stating age and qualification, to be sent on or before Thursday, the 9th of September next; salary £40 per annum; any further particulars may be obtained by applying to the Secretary. By order, Cranmer Gell, Secretary, Secretary's Office, Church Street, Birmingham, August, 23rd, 1897.

BLANDFORD.—Junior; smart, obliging, and quick; of good appearance and address; first-class references and good experience necessary; four kept; easy hours; full particulars, with photo. Also vacancy for Apprentice. R. H. Groves, Pharmaceutical Chemist, Blandford.

BOSTON.—Wanted, at once, a smart Junior Assistant; one accustomed to quick Store trade preferred; outdoors; half-holiday weekly; no Sunday duty. Coote & Co., Chemists, Boston.

BRADFORD.—Junior Assistant (indoors), for Dispensing and Stock; about 22. Apply, stating age, height, experience, references, and salary required, to Taylor, Ph.C., 120 Manningham Lane, Bradford.

BRIGHTON.—Wanted, a qualified Senior Assistant. Apply, with full particulars (enclosing photo), to Galsayer & Kemp, Brighton.

BRYNAMMAN.—Wanted, an Assistant, for Mixed business; able to speak Welsh preferred; ample time given for studying; state age, salary required, &c. W. Rees, Chemist, Brynamman, Carmarthen.

CAMBRIDGE.—Junior Assistant required (indoors) for Light Retail and Dispensing. Apply, with full particulars, to C. S. Addison, Chemist, Cambridge.

CANTERBURY.—Wanted, good Junior Assistant (indoors), about 21, for country Retail; easy hours. Apply, with particulars of experience, giving references, state when at liberty, salary required, with photo if possible, to J. C. Wilson, Chemist, Post-office, Bridge, near Canterbury.

SITUATIONS OPEN—cont.

RETAIL—continued.

CARDIFF.—Junior Assistant; outdoors; must have some knowledge of the Photographic trade. Full particulars as to age, height, salary, experience, &c., to Jesse Williams & Co., Pharmaceutical Chemists, Park Hall Buildings, Cardiff.

CARDIFF.—Hicks & Co. (Limited), Cardiff, require the services of a qualified Assistant to undertake the management of a new Branch; preference given to a gentleman experienced in Store trade. Apply, stating salary (with or without house), age, height, references, and enclose carte.

CHESTER.—Wanted, for Chester Friendly Societies' Medical Association, a practical Dispenser. He will be required to give his whole time to the Association. Applications, accompanied by copies of recent testimonials, stating qualifications (if any), age, salary expected, to be sent to Secretary, 27 Castle Street, Chester. They will be considered on September 4. The selected applicant will be required to commence duty about September 27. A comfortable and permanent situation for a good reliable man.

CHELTENHAM.—Wanted, a qualified, energetic Manager (married) for Light Retail and Dispensing business, with own Proprietaries. State age, height, experience, references, salary required (with house and gas), enclose photo, to Arthur Hill, 98 High Street, Cheltenham.

CHESTERFIELD.—Wanted, at once, an Assistant capable of managing a Country Branch, Mixed Light Retail; must be a good salesman; one able to do Extracting and Prescribing preferred. Apply, with references, age, and salary required, to Anderson, Chemist, Chesterfield.

DEAL.—Wanted, an Assistant, about 23 (indoors), in a Light Retail and Dispensing business on the South-East Coast. Apply, stating age, height, reference, and salary, with photo (to be returned), to John Green, Pharmaceutical Chemist, 28 High Street, Deal.

DOVER.—Wanted, at once, a Junior Assistant (outdoors) in a Light Retail business; must be active and industrious, capable of taking charge. Apply, stating age, height, references, salary required and photo (to be returned), to Stevens, Chemist, Dover.

DUBLIN.—Wanted, for a Dublin Medical Hall indoors, an Assistant; duties light; one evening off each week, and half Sunday; state salary expected, age, copies of testimonials and photo; one seeking permanency preferred. J. Allen, 139 Capel Street, Dublin.

DURBAN, NATAL.—Assistant wanted, qualified by examination: Quick and accurate Dispenser; salary £150, £165, and £180 per annum; room supplied but not board; 3 years' agreement to be signed; second-class passage paid. Apply, stating full particulars, to E. M. D., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

EAST MOLESEY.—Immediately, for a good-class Retail and Dispensing business, an Assistant (indoors), about 24; good Dispenser; qualified or unqualified. Full particulars, enclosing carte, Longtoft, Chemist and Dentist, East Molesey, Surrey.

EDENBRIDGE.—Junior, immediately (indoors); thoroughly trustworthy; aged about 20; abstainer; knowledge of Photography; comfortable home; country trade. State particulars, salary required, height, experience, reference, &c., enclose c.d.v. (to be returned), J. Arnold, Edenbridge, Kent.

GLOUCESTER.—Assistant wanted for small Branch. State salary required, and full particulars to Leech, Chemist, Gloucester.

HEREFORD.—Good Junior wanted, middle of September, in Light Retail and Dispensing; about 21; outdoors; good references indispensable; one only kept. Apply, with full particulars and photo (to be returned), Haines, Chemist, Hereford.

HULL.—Wanted, qualified indoor Assistant, about 24, accustomed to first-class Retail and Dispensing business; two kept; short hours. Apply, stating age, height, salary required, and references, to Metcalfe & Son, Pharmacists, Whitefriargate, Hull.

JERSEY.—Junior, of good address; must have been used to good-class Retail. Send age, height, photo and references to F. G. de Faye, Chemist, Jersey.

JOHANNESBURG.—Qualified Assistant wanted, 25 to 28 years of age; salary £16 10s., £17 10s., £18 10s. per month, for first, second and third year; second class passage paid; 3 years' agreement to be signed. Apply, stating full particulars, to R. H. M., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

KENT.—Wanted, a qualified Assistant; indoors; easy hours. Apply, giving fullest particulars as to salary, &c., to "Pharmacy," Hawkhurst, Kent.

KIDDERMINSTER.—Branch Manager for good Mixed business at Kidderminster; must be good prescriber and have undeniable references; easy hours; no duty on Sundays or Bank Holidays. State fully if good prescriber, tooth extractor, age, height, salary required (outdoors), when disengaged, if married what family, references, experience, qualification, and enclose carte to Griffin, 9 Queen Street, Rhyl.

LEDGERY.—Wanted, smart Junior in a Mixed country business; must be able to Dispense and a good Counterman. Enclose photo (to be returned) and all particulars, V. W. Meacham, Ledgery.

LICHFIELD.—Smart Junior for a Mixed business; outdoor Sunday duty; must be well recommended. State age, height, references, and full particulars, enclose photo (which will be returned), to J. J. Perkins, Family Chemist, Lichfield.

LIVERPOOL.—Wanted, Assistant (qualified), about 25; must be able to manage a tractor; weekly half-holiday. Send usual particulars, stating salary required (indoors), to Bryan, Chemist, West Derby, Liverpool.

LIVERPOOL.—Wanted, qualified Assistant; outdoors; permanent knowledge of Photography desirable; aged about 25. Apply, with references, age, height, salary required (increased year on year), enclose photo (which will be returned), G. M. Sleggs, Chemist, 49 South Street, Liverpool.

LIVERPOOL.—Wanted, at once, a competent and reliable Assistant, about 24, to manage Light Retail and Prescribing business (indoor) also Junior. Apply, with references and particulars, to "Phenol," Newsham Drive, Liverpool.

LANDUDNO.—A qualified Assistant; one who has been accustomed to a good-class Counter Trade and Dispensing. Apply, stating full particulars, enclose photo (to be returned), to J. Burton, Chemist, Llandudno.

LONDON.—J. & H. Mathews require at once a qualified Assistant, about 24 years of age, having good Dispensing experience. Apply personally, or by letter, to 68 Queen's Gardens, Hyde Park, London.

LONDON, E.—September 20: Assistant; two kept; must be good Counterman and Stockkeeper; indoors; no heavy trade; knowledge of Photographic trade desirable, but not essential. Apply, with references, stating age, salary, height, &c., and enclose portrait, to Harold Mitchell & Co., 56 Woodgrange Road, Forest Gate.

LONDON, N.W.—Junior Assistant (qualified preferred) for a good-class business. Apply personally after 5 P.M., or send photo, with salary and references, Cosway & Rutter, 109 Kilburn High Road, N.W.

LONDON, S.W.—Wanted, September 6, qualified Assistant, about 24 or 25 (indoors), of good address; must have been accustomed to a good-class Dispensing and Retail business; state height, salary, &c., enclose photo (to be returned). Apply to Foster Blades, 10 Gloucester Road, South Kensington.

LONDON, S.W.—Qualified Dispenser required; hours of business 8 to 7, Saturdays 2; no Sunday or Bank Holiday duty. Personal application preferred to Drug Department, Harrod's Stores (Limited), 57, 105 Brompton Road, S.W.

LONDON, S.W.—For one or two half-days weekly; Extra if possible, but not essential. F. P. Parker, 137 Cornwall Road, Brixton, S.W.

LONDON, W.—At once, first-class Assistant, qualified, capable of taking charge; good salary and commission to suitable man. Apply personally after Monday next, Wilson, Pharmacist, Turnham Green.

LONDON, N.—Qualified; must be pushing and energetic, capable of taking charge of a Branch; duties light; fair middle-class trade; a gentleman from country house not objected to. Apply, stating salary (if any), age, experience, &c. Also a good Junior for the month of September, 4 guineas (indoors). Apply, Barnard, 309 Hackney Road, N.E.

LONDON, N.W.—Wanted, qualified Assistant, about 24; must be able to apply by letter, with full particulars, to "Antipyrin," 101 Elm Road, The Green, Southall, Middlesex.

LONDON.—Wanted an energetic and trustworthy Assistant (Qualified), married, to live on premises. Apply to Z. A., 144 Major Road, Stratford, E.

LONDON, S.E.—For September 3: thoroughly competent qualified Assistant; about 24; indoors. Apply, R. C. Harrison, Pharmaceutical Chemist, Eltham Road, Lee, S.E.

LONDON, S.W.—Required, at once, Assistant, good Counterman, qualified, or advanced Junior, seeking permanency; daily room and two Sundays in three off duty; indoors, without after-business hours. Apply personally, or state salary, &c., to Thornton, Store Clerk, Landor Road, Clapham.

LONDON, S.W.—Wanted, an Assistant used to a good-class Dispensing and Retail business, at once. Apply, W. Bowden, Store Clerk, 62 Hill Road, Wimbledon, S.W.

LONDON.—Wanted, by September 1, a qualified single gentleman, aged about 24 years, for small Retail; outdoors; good Counterman; energetic; character must bear the strictest investigation. Apply by letter, or personally daily at 4 P.M., to C. S. A., 19 Elgin Avenue, W.

LONDON, W.—Assistant wanted, in large West End Stores; must be good Salesman. State age, height, and salary required, to A. D., 15 Regent Street, S.W.

LONDON.—By September 14, a competent Junior Assistant; qualified, preferred. Apply, stating salary and usual particulars, to J. J., 142 Earl's Court Road, South Kensington.

LONDON, N.—Dispenser wanted by a firm of surgeons at the City of London; aged about 20; salary (outdoors) £52 per annum tax free; with; would be required to reside in district. Apply, by letter, to Messrs. Corby, Stacey & Co., 22 Great St. Helens, E.C.

RETAIL—continued.

ONIN, S.E.—Assistant required; indoors; time for study and closed Sundays; abstainer preferred. Full particulars and with photo, if by letter, stating salary and time desired, or call applicant, Phillips, Chemist, 193 Knight's Hill, West Norwood.

HESTER.—Qualified Assistant, age about 25; September 13th. Please state height, experience, salary required (outdoors), enclosure, Jeans, Spring Bank, Arnside, near Carnforth.

HESTER.—Wanted, a good Counterman, purely Photographic business; hours 8 A.M. to 6.30 P.M. Apply to J. T. Chapman, Photographic Chemist, Albert Square, Manchester.

HESTER.—Competent, qualified man, to act as Locomotive Driver for a fortnight, commencing September 3 or 4. Apply personally, with full particulars, to W. Maskew, M.P.S., Owens College, Manchester.

HESTER.—Wanted, at once, a qualified Assistant to manage a Shop; Light Retail, in pleasant Manchester suburb (2 1/2 miles from city) good house, private entrance; Extractor preferred; single room considered, as house can be let off. Apply, stating age, height, salary required, and references, to Lockwood, Chemist, Harpurhey, Manchester.

EDERRANEAN.—Qualified Assistant wanted at once; 3 years' experience; liberal salary; good prospect to first-class man; second-class passage paid out. For particulars apply D., c/o Street & Co., Manchester.

NEAT.—Junior Assistant; outdoors; young man just out of his apprenticeship and accustomed to brisk business on Stores' principles preferred. State age, height, and salary required, Griffith Isaac's Modern Emcey, Castle Square, Swansea.

NEWCASTLE (Staffs).—Assistant for Light Retail and Dispensing business; indoors. Apply, stating salary required, references, and full particulars, to E. H. Croydon, Newcastle, Staffs.

NEWINDON.—There is a vacancy for a qualified Male Assistant Dispenser at the G. W. Medical Fund Dispensary, New Swindon. Applicants should be addressed to the Medical Officer, stating age, experience, salary required, and enclosing reference.

NEWPORT (MON.).—Wanted, two competent Assistants (indoors), with knowledge of Photography. Enclose photo and usual particulars, Phillips & Son, Pharmaceutical Chemists, Newport (Mon.).

NORTHAMPTON.—Wanted, a qualified Assistant about 25 years of age for middle-class Dispensing and Light Retail business. Address, particulars of previous engagements and reference, to W. D. Mayer, Northampton.

NOTTINGHAM.—Wanted, at once, a Junior Assistant (indoors), in a Retail business; a good reference. Apply, stating age, height, salary required, and photo (to be returned), to Dixon & Co., Chemists, Nottingham.

PUTNEY, S.W.—Wanted, a Junior Assistant for a good-class business with Post-office. Apply, stating age, salary required, &c., with photo, to Mrs. Evans, Chemist, Putney, S.W.

SOUTHSEA.—An Assistant about 22 or 23. Apply, stating age, height, experience, and salary, with photo (to be returned), to J. G. Dispensing Chemist, Southsea.

SOUTH COAST.—Wanted, an Assistant about 23; easy hours; two assistants and an apprentice kept. Apply, stating age, height, salary, with photo, to C. B. (235/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

STROUD (GLOS.).—Junior Assistant, accustomed to Light Retail dispensing; indoors; must be quick and accurate dispenser; hours moderate; please state age, height, and salary last references; applications not answered in three days are J. Coley, Chemist, Stroud.

THESS-ON-SEA.—Wanted, immediately, an Assistant, from 22 years of age; of good character and reliable. Apply at once, particulars and salary required, to D. Prosser, Sheerness.

TRINIDAD AND TOBAGO.—Chemist, qualified, good experience of Retail business, wanted for near Bulnhwayo, South Africa; salary £240, free passage, &c. paid; given interest in Business if satisfactory. 100, Keith & Co., Advertising Agents, Edinburgh.

WEXHAM.—Wanted, for a month, an Assistant (outdoors). Apply, giving full particulars, salary required, &c., to Gibbs, Wexham.

WORCESTER.—Outdoor Assistant for the Retail Counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, 45 Stores, Worcester.

MANCHESTER.—Wanted, a smart energetic man of business, qualified (if possible) for a first-class Country business (Midlands); assistants kept; a good Prescriber, and well up in Agricultural trade. Apply, with full particulars of experience, carte, state age, height, and salary required, "Exor," c/o Wright, Layman & Co., 50 Southwark Street, London, S.E.

SAVORY & MOORE, Lancaster Gate, London, W., require a Senior Assistant about 26; also a Dispenser about 23; both accustomed to first-class business and qualified.

TWO Juniors wanted immediately, indoors; first-class Cash Pharmacists, N.W. and S.W. district; good Dispensers, smart Countermen, and a knowledge of Photography preferred; salary and commission. Apply first instance, with photo, stating fullest particulars of experience, salary expected, &c., to H., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C.

NATAL (SOUTH AFRICA).

WANTED, a qualified Chemist as first Assistant; aged about 30; gentlemanly in manner and appearance, with knowledge of Photography; liberal salary to capable man. Apply, stating particulars, to "Optimus" (225/17), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, for Light business in a small seaside watering place, a Turf-over Apprentice or Improver; must be steady and honest; comfortable home with small salary offered; time for study. "Radix," c/o Messrs. Woolley & Co., Victoria Bridge, Manchester.

WANTED, immediately, a qualified Junior Assistant (outdoors); must be thoroughly competent and well recommended; one who has had experience in a good-class Family business will be preferred. Apply, by letter, stating age, experience, and amount of salary required, to Lofthoos & Saltmer, Hull.

WANTED, immediately, smart Junior, indoors; good window-dresser; Light Retail and Prescribing business. Apply, with full particulars, to "Spero" (236/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

W. BOSTOCK & SONS, Pharmaceutical Chemists, Ashton-under-Lyne, require a qualified Chemist who has had experience in the Wholesale manufacture of B.P. Preparations, Tinctures, Extracts, Pills, &c. State age, references, salary desired, and enclose photo, which will be returned.

WHOLESALE.

DUBLIN.—Drug Assistant wanted by a Wholesale house in Dublin; must have a good general knowledge of the trade; state salary required, with copy of last testimonial. Address, 201/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DURBAN, NATAL.—Wholesale Assistant wanted; unqualified man, who has had experience in good house; salary £11, £12, and £13 per month; 3 years' agreement to be signed; second-class passage paid. Apply, stating full particulars, to T. L., c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

LONDON.—Laboratory Manager wanted in London; salary to commence £250; must have Major qualification, experience in the manufacture of salenicals, pills, emulsions, syrups, &c. on a large scale, and in the management of workmen. Apply, with particulars of previous appointments, to B. C. (201/61), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A YOUTH who has had previous experience in the office of a Wholesale Druggist, or one who would like to enter as Junior in the office of a London house. Address, J. U. C., care of George Berridge & Co., Printers, 179 Upper Thames Street, London, E.C.

DRUG Traveller.—Wanted, an experienced Representative of high character, to Travel for a first-class Drug house. Address, in the first instance, stating age, experience, salary required, &c., to "Pharmacy," c/o T. B. Brown's Advertising Offices, 163 Queen Victoria Street, E.C.

DRUGGISTS' Sundries, Representative wanted for the Midlands and Eastern Counties. Address, stating age and experience, to 200/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EXPERIENCED Country Traveller wanted by a London house, Druggists' Sundries and Packed goods, to call upon Chemists, Grocers, Olmen, &c. Apply, stating experience and remuneration expected, A. Z. (233/14), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

REPRESENTATIVE required by a Provincial Drug House of good standing. Apply, with full particulars of ground covered, experience, and salary required, to "Phenol" (201/31), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C. All replies will be treated in strict confidence.

REPRESENTATIVE required for Ireland with a knowledge of the Soap and Perfumery trade; must be well known to all Chemists, Grocers, &c. in the North and South. Apply, giving full particulars, to D. H. (199/63), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLERS (Great Britain generally).—Arrangements are being made to pay few good men liberal commission to push as a side line well-known and phenomenally-successful Speciality; applicants for particulars should state name of firm they represent and district covered; this is a good thing, and worth looking into; middling men need not write. Particulars, write to "Speciality" (Box 134), Sell's, 167 Fleet Street, E.C.

WHOLESALE Drug Trade.—A young man wanted, accustomed to the Patent Medicine Department in a wholesale house; quick and intelligent. Address, with wages required, to 233/23, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

A MEDICAL MAN requires a Junior Chemist or competent Dispenser as Managing Partner in an open Surgery and Pharmacy; the appointment is only open to those who can take a quarter or half share; agreement 3 years at least; salary £52 per annum, rising to £100; participation in profits, and 10 per cent. on net receipts; L.R.C.P. and S. Edin. '78. 177 Blackfriars Road, London, S.E.

PARTNER wanted with £200 to take entire control of business; North; £500; this would be a capital opportunity for Chemist who wishes to purchase a good business; advertiser would be willing to sell out entirely at any time convenient to partner. 235/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

APPRENTICESHIPS.

RETAIL.

BOURNEMOUTH.—Apprentice (indoors) wanted in high class Dispensing business; must have passed Prelim. Exam. or equivalent. Apply, H. Amore, Chemist, 4 Linsidowne Crescent, Bournemouth.

APPRENTICE wanted indoors in a good Dispensing business; one who has passed the Preliminary; premium moderate. Apply, S. Stephenson, Pharmaceutical Chemist, F.C.S., 98 Kensington, Liverpool.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

LOCUM-TENENS; qualified; disengaged. C. M., 347 Green Lanes, N.

LOCUM or Manager; qualified; disengaged. S., 50 Amersham Road, New Cross.

QUALIFIED; good experience; aged 25. "Ireland," 199 Mere Road, Leicester.

LOCUM; aged 27; qualified. Wire, "Adolphus," 286 High Holborn, London, W.C.

OUTDOOR Assistant; 21; height 5 ft. 10½ in. W. Reeson, 47 Spilby Road, Boston.

QUALIFIED; 26; tall; first-class experience. K., 3 Great Western Place, Windsor.

LONDON; part-time; vicinity of Wills's preferred. W. Barrett, Cornwood, Ivybridge.

JUNIOR; 20; 5 years' experience; tall; Dispenser. E. S., c/o Wilshaw, Chemist, Hertford.

ASSISTANT; aged 21; 5 years' first-class experience; indoors. Monson, Hayle, Cornwall.

PART-TIME; Liverpool or district; good references. "Jacks," 30 Arundel Street, Liverpool.

LOCUM or Branch Manager; disengaged. S. Grace, The Plain, Magdalen Bridge, Oxford.

PERMANENT or temporary. Heald, Pharmaceutical Chemist, Exam., Swineshead, Boston.

MANAGER; qualified; 29; good experience. H. O., 1 Elm Park Terrace, Fulham Road, S.W.

ASSISTANT; 24; London; time for study preferred. Roberts, 1 Claremont Road, Surbiton.

JUNIOR; 24; 8 years' experience; disengaged; Yorkshire preferred. Grace, Albert Street, Keighley.

GOOD all-round quick trade (in or out), or as Locum; September 5. D., Pearce's, Chemist, Edmonton.

LOCUM, Manager, or outdoor Senior; qualified; London and country experience. Garin, Heckington.

SENIOR or Manager; qualified; 23; first-class English and Continental experience. Reilly, Bracknell.

MANAGER; qualified; aged 23; tall; good experience; F. Smith, North Street, Bourne, Lincs.

ASSISTANT; outdoors; 14 years' London and Country "Chemists," 37 The Square, Petersfield.

LOCUM; disengaged; Major; 27; thoroughly experienced. c/o Barry, 17 Farringdon Street, London.

DISPENSER; Locum or Branch Manager; qualified; disengaged. W. M., 25 Argyll Street, W.C.

ASSISTANT; 7 years' experience; outdoors; country Hall, 44 High Street, Tarporley, Cheshire.

EVENINGS.—Dispensary or Retail by competent Assistant; aged 5. "Statim," 166 Southgate Road, N.

MANAGER or Temporary Charge; qualified; good Z., 66 St. Julian's Farm Road, West Norwood, S.E.

PART-TIME; disengaged September 10; 24, 5 ft. 8½ in. Pryor, Gibbs & Gurnell, Ryde, I. of W.

BIRMINGHAM preferred; as Assistant; outdoors; Wilson, 177 Greenwich Road, Greenwich, London, S.E.

IMPROVER; 18; 3½ years' experience; country Goodman & Co., Gipsy Road, West Norwood, London, S.E.

AS Manager or otherwise; qualified; aged 29; good doors preferred. Jones, 9 Doek View Road, Barry Dock

MANAGER; disengaged; qualified; good Prescriber at Registered Dentist. Lea, 4 Harbour Street, Folkeston

MANAGER; permanency in good-class business or large years' experience. Banbury, 82 Byron Road, Small Ho.

MANAGER; Branch or otherwise; aged 32; qualified ences; disengaged. "Chemist," 107 Duke Street, Livoo

DISPENSER (Surgeon's); middle-aged; disengaged stor preferred, near London. "Jacobus," 14 Coborn Road, E.

SEPTEMBER 17.—Situation in London, with time for references. Medley, 193 Knight's Hill Road, West Norw

PART-TIME or Evenings; disengaged; good referen Counter or Dispensing. "Antipyrine," 82 Crowndale R

DISPENSER, 22, 5 years' reference from London coron stitution dispensing; outdoors. Arnold, 23 High Street

LOCUM; London and provincial good all-round experien entire charge; aged 27; highest references. Brown, 412

LOCUM-TENENS; qualified; highest references; Permanent address, "Chemist," Redlands, Portsmouth, S

LOCUM for September; 27; qualified; whole or part and provincial experience. "Chemist," 19 Harrowby pool.

ASSISTANT, Locum, or Permanent; aged 23; first-ex experience; disengaged. J. T. R., 83 Fortune Gate Roa N.W.

AS Assistant (indoors), with time to attend lectures; 51 chester, or Liverpool preferred; aged 20. Guest, Wakefield.

QUALIFIED; 24; high-class West-end experience; 1 ences; South Coast for season preferred. Green, 1 Com's Bo Wimbledon.

NORTH OF ENGLAND; outdoors; qualified; 25; V Provincial experience; highest references. "Salix," Street, Torquay.

DISPENSER; Minor; 24; abstainer; London; outdoors September 15. 235/23, Office of THE CHEMIST AS 42 Cannon Street, E.C.

UNQUALIFIED Assistant seeks re-engagement; 26 abstainer; 8 years' experience; excellent references. Road, Stanley, Liverpool.

DISPENSER and Bookkeeper to Surgeon, Locum to C position of trust; varied experience; qualified; abstaine 29 Charles Street, Worcester.

SUCCESSION.—Jackson, Royal Infirmary, Bristol, requ as Manager, with view to Succession on easy terms; ex ences; or as permanent manager.

RETAIL—continued.

OCU or permanency; country preferred; qualified and Extractor. 83 in Street, Stratford.

MANER (temporary); 45; disengaged September 9. Baker, 65 100 in Street, Kentish Town.

MANER, Dispenser, or Locum; first-class all-round experience; disengaged. F., 253 Ramsay Road, Forest Gate, E.

OCU or otherwise; aged 40; disengaged; first-class experience and references. "Extractor," 24 Galveston Road, East Putney.

OCU TENENS; 27; Minor; Hospital and West-end experience; good references; disengaged August 28. B., 156 Green Lanes, N.

OLLY Locum; retired Pharmaceutical Chemist desiring occasional occupation; abstainer; disengaged; references; Extractor. Chemist 15 New Walk, Leicester.

WAND, occupation for part time by a retired Chemist of middle remuneration less an object than congenial employment. W., 51 Cloudsdale Road, Balham, S.W.

QUALIFIED; 22; situation in London; Wholesale, Retail, or Laboratory Assistant; hours about 8 to 6; outdoors; good references. "Phenacetin," 5 Fentiman Road, S.W.

ASSISTANT; aged 33; married; good experience, Retail and Dispensing; unqualified; Extractor, Photography; permanency; disengaged. "Molar," 48 Sherbourne Road, Birmingham.

MANER, qualified; experienced in all branches; thoroughly capable and energetic; outdoor; town or country. Address, 236/36, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHARMACEUTICAL Chemist, aged 25, desires Assistantship in good class business, with view to early succession. "Fidelis" (234/4), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGEMENT, view purchase if satisfactory; particulars confidential; no incumbrance; no agents. Post, "Widower" (235/30), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANER or Senior; 23; qualified; competent and with first-class experience; outdoors preferred but not essential; "Kodak" (236/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CRANE.—Pharmaceutical Chemist (24) desires situation in Paris or the Riviera; 3 years' good-class London experience; some knowledge of French. D. S., Bateman's Pharmacy, Finchley Road, London, N.W.

ADV TISER desires responsible part-time engagement for evenings alternate Sunday duty if required, vicinity of Kennington; thoroughly experienced; aged 26. Wallace, 8 Pyrland Road, Canonry, N.

JUNI; 21; Mr. S. Goss, Pharmaceutical Chemist, Barnstaple, desires to commend his late apprentice (4 years); a capable Dispenser, and be trade generally. Apply to Charles Cowle, Bransgrove, Wembly, N.

ME AL Student, competent Dispenser, good Extractor, seeks situation as Assistant to Chemist or Doctor; time required to areas at recognised Medical School. Address, T. P. Cox, St. Helen's, Ware, Norwich.

MANER, on premises, or Assistant, outdoors; 35; married; no family; Photography; Dentistry; thoroughly experienced; steady; reliable; 5 ft. 7 in.; highest references; permanency. c/o Jary, Chemist, Lowestoft.

TAL German, qualified, 27, speaking English and French fluently, some Italian; 2 years' first-class London experience, 2 Ostead; Rome or Naples preferred; disengaged October. L., The Pharmacy, 223 Finchley Road, London.

ASSISTANT (or Dispenser to Doctor); 26; outdoors; London and country experience; College certificate; steady, energetic, trustworthy references. Apply, "Reliable" (237/21), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

W ED, Postal Tuition in Pharmacy, Pharmaceutical Chemistry, the Materia Medica of the B.P., by candidate for the L.A.H., late terms, 201/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.

EX IENCED Clerk desires engagement in good Wholesale house. "Fiction," 34 Fairfax Road, Harringay.

TRA LLER, working London and Suburbs, is open for a good Commission. May, Ferndale, Canbury Avenue, Kingston-on-Thames.

QUALIFIED (aged 37), to represent a representative house; in North England preferred. "Permanency" (233/16), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, good experience, wishes situation, Wholesale house, London; Wet-room or Laboratory; good references. "Phenacetin" (235/3), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PART-TIME Traveller.—Gentleman, 27; qualified Chemist; excellent experience Drug and allied trades, and on road; open to represent firm or firms, say about eight mouths in year in all; first-class references. S., 21 Hanover Street, Sydenham.

GENTLEMAN, having a large and safe connection with the leading Chemists, Druggists, &c., in Ireland, is open to take an additional Agency for a first-class house; highest references. Reply, J. A. (201/7), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENTLEMAN, with City address and good connection, will be glad to hear from manufacturer requiring London Representative calling on Exporters, Wholesale Chemists, and Stores; good reference. Apply, 237/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

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

TAKEN by mistake from Steamer *Glen Sannox*, on day of Pharmaceutical Conference Excursion, a Lady's Silk Cape. Party who took same will kindly return to Mr. R. McAdam, 34 Virginia Street, Glasgow.

PATENT MEDICINE OR PROPRIETARY.—Wanted, a well-established article capable of increase; anything bearing a net profit of £100 to £1,000 will be entertained, or larger. "Buyer" (191/39), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PHONOGRAPH Cylinders.—Technical Chemist or Expert wanted who is in a position to supply Advertiser with the exact composition of the substance used for American Phonograph Wax Cylinders. Please address T, 9,377, c/o Rudolf Mosse, Munich, Germany.

A TRULY *fin-de-siècle* stall is that marked 'Smart men take Daisy for the headache.' Here we have a row of 'smart men,' gloved and eye-glassed, with daisies in their button-holes, heads that turn about, and real eyes that open and shut. Can mortal genius further go?—*Morning Leader*.

CHEMISTS' Shop-fittings.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool.

CHEMISTS' Shop-fittings.—Bright, cheap lot ready for immediate use; 12-ft. run of mahogany-fronted drawers, glass labels and knobs, shelving, lockers, and cornice complete; 12-ft. mahogany and plate-glass serving-counter; handsome 6-ft. dispensing-screen, with bevelled-edged mirror in centre, and counter under with sponge-case; 6-ft. mahogany and glass wall-case, desk and perfumery-case with mirror-back; bent plate-glass counter-case with display and serving shelves; price £52 10s. the lot. Philip Josephs, 54 Old Street, City Road, London, E.C.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Emulsion. Formulae and labels free with each jar; ½ lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lbs., 25s., post free. Rouse, 61 Charlotte Street, London, W.

N.B.—Cucumbers actually enter into the composition of this article.

TO AGRICULTURAL CHEMISTS.

AGENTS Wanted in Market Towns for the Sale of D. Clarke's Carbolyzed Wheat Protector, tested for upwards of 53 seasons by thousands of the first practical farmers in the Kingdom, and proved to be a certain preventative of Smut, &c., in Wheat, Oats, and Barley. For particulars write to Clarke, Carbolyzed Wheat Protector Manufactory, Woburn, Beds.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Priezeman), Chemist, Hastings.

CONFERENCE AT GLASGOW.

COPIES of PHOTOGRAPH taken at ARROCHAR are now Ready.

Price 4/- per copy.
Packing and Postage 1/- extra.

GEO. BELL & CO., 152 Sauchiehall Street, GLASGOW.



EXCHANGE COLUMN-BARGAIN

TERMS.

DEPOSIT.—The purchaser of anything advertised in the Exchange Column may remit the amount to us, and we will pay the money deposited on advice from the remitter. We charge a commission of 6d. on any transaction of £3 or less, or 1s. if above that amount, which is payable by the purchaser.

Limited to the Advertisements of Surplus Stock, Shop Fittings, Apparatus, Photographic Goods, Books and Periodicals, For sale, Addresses Wanted, and Articles Wanted.

1/2d. per word with name and address. 1d. per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

APPARATUS.

Suppository, bougie and pessary mould, each Maw's pattern, no further use, under cost. Particulars from WARNES, Chemist, 333 Gray's Inu Road, W.C.

A nearly new Barnett & Foster's "Compaetum" soda-water machine plant in itself; includes turnover and syphon-fillers, and package; cost over £50, price only £32. Apply, NORFOLK SPA CO., Diss.

BOOKS AND PERIODICALS.

"Minor": how to pass easily! cheaply! well! enclose stamp. LAWS, Chemist, Streatham.

Thirty-nine volumes *Pharmaceutical Journal*, 1852-1891, bound half-calf, perfect; offers or exchange. MACROSSEN, Forfar.

FORMULÆ.

Book of 130 well-tryed recipes for chemists; general, remedial, veterinary, toilet; post free, 1s. 6d. TULLY, Chemist, Hastings.

Extra-special Money-makers.—Tom Brooks's Extra-special Recipes are simply perfection; are stepping-stones to a fortune if judiciously advertised: "Aniline Marking-ink," writes jet black, perfectly indelible, writes freely, one-quarter the cost of other inks and very much better; "Balsamic Cough Linctus," bright, cherry-red, permanently brilliant, without opium or any narcotic, particularly pleasant taste, rapidly efficacious, costs 8d. lb.; "Circassian Stimulant," gives new life to old hair, nothing better offered, can be made a restorer of colour, costs 1s. lb.; recipes 5s. each, the three for 12s. 6d., with full instructions and all particulars post free; samples of above 6d. each, post free. TOM BROOKS, Chemist, Hornsey, London, N.

Honest Workable Recipes, as sold by me for 15 years; preparations in actual commerce; may be honestly recommended and thoroughly relied on; honest value, pay good profit, elegant appearance; correspondence invited: "Starch Gloss," "Tempting Oils for Rats," "Brush Polish," "Tea Fortifier," "Nursery Pomade," "Lincolnshire Relish," "Popular Tooth-powder," "Perfect Food for Infants," "Liquid Cochineal," "Parisian Lotion" (for Gleet), "Vermin-killer," "Nervine Pills," "Hair Depilatory," "Gripe Syrup"; "Glycerine Cream," speciality for Chapped Hands, &c.; "Bronchelixor," "Hop Tonic," "Foaming," "Juhilee Sauce," "Herb Extract," "Ebony Varnish-stain," "Digestive Syrup," "Skin-pills," "Walnut Pomade"; Mist. Occasional (for Ladies), very sure; "Poppies and Obamomiles," concentrated for fomentations; recipes 1s. 1d. each, 6 for 5s., 13 for 10s., all post free, with instructions and directions. TOM BROOKS, Chemist, Hornsey, London, N.

OPTICAL AND PHOTOGRAPHIC.

42 microscope-slides in cabinet on trays, 10s. 6d.; approval; exchange. LINTIN, 170 Freedom Road, Sheffield.

18 doz. spectacles, new and in good condition, retail value £40, sell at from 9d. to 5s. 6d.; 1 doz. splendid forceps, in wood case; offers wanted. HOCKEN, Drug Stores, Redruth.

Douglas-Wouldridge compound ophthalmic refractometer, optometer, and astigmatism test, with charts and hook of observations on its use; practically new; cost £12 10s., half-price or best offer. BENNETT, Chemist, Stockport.

PROPRIETARY ARTICLES.

12 gross Marshall's fly-reels, 5s. 6d. gross to clear, carriage paid. HIRSH & KENT, Boston.

32 tins Wilson's infants' fool, 15s., carriage forward. J. GIBB, 114 Charlotte Street, North Shields.

Eno's fruit-salt overstocked.—Will forward 3 doz. 2s. 9d. size of tins for £2 14s., only 1s. 6d. a bottle. RUGG, Chemist, Croydon.

For Sale, 1 1/2 doz. 2s. and 1/2 doz. 5s. Field's cattle-oils; quite fresh, never been opened; first offer taken. NELSON & CO., Chemists, B. & C.

Six Coelde's pills, 2s. 9d., 10s. 6d.; 6 Scott's, 2s. 9d., 11s.; 6 Coway's ointment, 1s. 1 1/2d., 4s. 6d.; carriage paid. LANGLEY, Loud Street, Paddington.

SHOP FITTINGS.

Four 2-gall. pear-shape carbons, perfect condition; offers or exchange. MACROSSEN, Forfar.

MISCELLANEOUS.

24 9d. Richardson's Bland's capsules, 6s.; 12 9d. Bland's pills; best tooth-brush case, spectacles, dental-instruments; sale or exchange. ROWLAND, Chemist, Windsor.

Stock and fixtures of a chemist's shop, comprising drugs, chemical patent medicines, and druggists' sundries, mahogany cornice and shelving, large wall-case with cupboards, flat and upright counter-case, sponge case, drawers, bottles, jars, scales, and usual utensils, &c.; sale to suit purchasers; 20 per cent. off drug-list. HALL, Chemist, 1, Castle Street, London, E.

WANTED.

Mixing-machine; glass stands for window. RAINE, 14 Epwose Street, Darwen.

Dental-drills, scalers, excavators, &c.; lowest price. 255/15, 100 of the C. & D.

4-lb. ointment-jars, Maw's fig. 12; also shop-rounds. THORNTON, Landor Road, Stockwell.

The "Chemist and Druggist" for July 3, 1897, clean and complete. S. B., Office of the C. & D.

Good fixtures, except counter, for shop 16 by 12 by 8 1/2 feet. HENBY, Chemist, Helmsley, Yorks.

Mahogany-fronted drawers, counter-case, dispensing-screen counter. GOULD, Northcote Terrace, Northampton.

Sponge-casc, as Maw fig. 5, good condition. Particulars at lowest price to WALTER NOAK, Chemist, Berkeley.

Dental-chair; must be modern-make, with all latest improvements, and in perfect condition. State full particulars, with lowest price, to 233/11, Office of the C. & D.

Dental-engine, gas-apparatus, vulcaniser, with or without gauge, workroom-lathe, flasks, press, and other workroom tools, all cheap and in good condition. 233/28, Office of the C. & D.

Attfield's "Chemistry," Thorpe's "Metals and Non-metals," Reynolds's "Organic Chemistry," Bentley's "Structural Chemistry," Southall's "Materia Medica," "B.P." and addenda, Whiteley's "Practical Calculations," Ince's "Latin Grammar"; latest edition price to PYMAN, Stowupland, Stowmarket.

TO CHEMISTS!

OUR HOMŒOPATHIC MEDICINES

Have by far the Largest Sale, and leave an exceptionally Large Margin of Profit on Retailing, while our name and reputation, the longest honoured in English Homœopathy, attract the desired custom.

PARCELS ENCLOSED DAILY to any of the London Wholesale Houses.

A HANDSOME AND ATTRACTIVE SHOWCASE IS

“GIVEN TO EVERY AGENT”

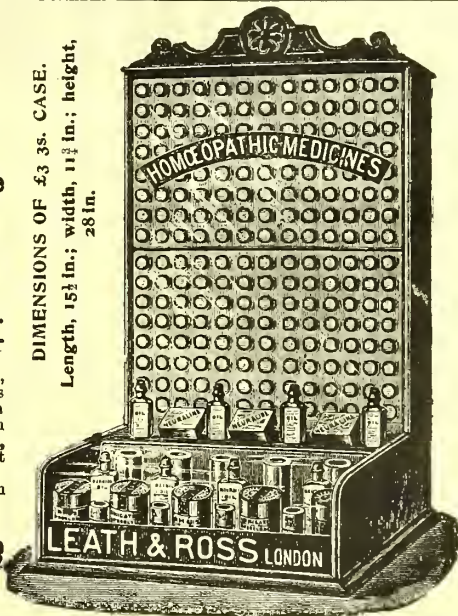
With order amounting to £3 3s. and upwards.

OUR
£5
Handsome and Attractive
CASE
(OPEN BACK OR FRONT).

This handsome Case stands unrivalled for style, convenience, and beauty, increasing the sales considerably, and is fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.
DIMENSIONS—Length, 19½ in.; width (from back to front), 11½ in.; height, 32½ in.

NO CHARGE WHATEVER FOR THE CASE.

DIMENSIONS OF £3 3s. CASE.
Length, 15½ in.; width, 11½ in.; height, 28 in.



Our TINCTURES,
PILULES,
and CAMPHOR

Are in great demand everywhere, and can be had in any strength from the φ (mother), 1z : 1, and upwards.

1/- Size
3/6 per doz.
Cash.

9d. size, 2/9 ,,
6d. size, 2/- ,,

Agents' Cases, upright or flat, at £3 3s., £4 4s., £5, £6 6s., £10 10s., and £21. All the Cases can be had in Mahogany, Walnut, or other Fancy Wood to match Shop Fittings, and fitted with 6d. stock, 6d. and 1s. stock, 9d. and 1s. stock, or all 1s. stock, as preferred.

OPINIONS OF THE TRADE.

A. C. K., Feb. 15th, 1897, says:—"I beg to acknowledge, with many thanks, the receipt of the Show Case received today. I consider it a well-made and high-class fitting, and suitable for a prominent place in any Pharmacy."

W. H. G. writes:—"The case came safely to hand, and has already increased my sales, and makes a handsome addition to the counter."

LEATH & ROSS, Wholesale and Export Homœopathic Chemists,
97 FLEET ST., OXFORD STREET, W. } LONDON.
And **JEWRY HOUSE, OLD JEWRY, E.C.**

To CHEMISTS and
CHEMISTS' ASSISTANTS . . .

£100 will be divided among the RETAIL
CHEMISTS, or their Assistants (with
consent), who send in from month to
month, for one year, a return as to the
demand in their establishment for

£100 Cash
Compensation
Awards.

LACTOPEPTINE and ANTIKAMNIA.

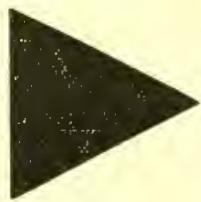
The FORM in which we wish the RETURN made is indicated at foot.

Those willing to supply this information must send their names not later than September 15.

It is HOPED that the RESPONSE will be GENERAL.

At the conclusion of the twelve months, the NAMES of all CHEMISTS who have sent their
RETURNS, *punctually and carefully filled in*, will be DRAWN and AWARDS allotted to the first
213 NAMES DRAWN, to the following values:—

- 1st Award £20
- 2nd Award £10
- 3rd Award £5
- 50 Awards at 10/- £25
- 160 Awards at 5/- £40



The Results
will be pub-
lished in the
*Chemist and
Druggist*. Our
Awards will be
final.

Form of Return.

Purchased during month of

LACTOPEPTINE oz.

ANTIKAMNIA oz.

Address

.....

GENERAL REMARKS.

(Under this head state
approximate proportions
dispensed and sold in
original packages).

Mark all Correspondence: "RECORD."

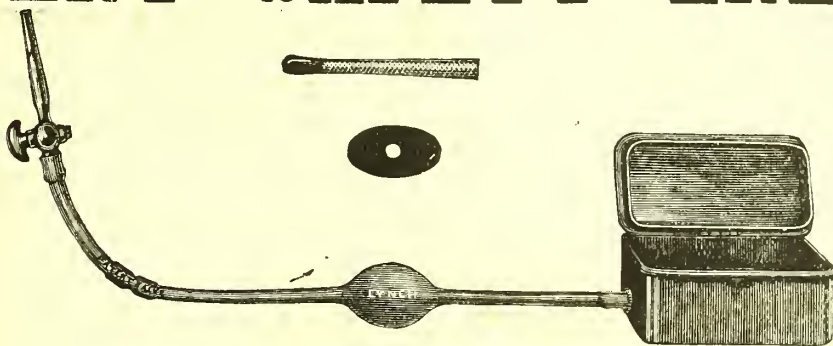


Send a Post Card to:
 JOHN MORGAN RICHARDS,
 46 Holborn Viaduct,
 LONDON, E.C.

advising that
 put on Register of Awards.



LYNCH'S PATENT SAFETY ENEMA.



Dimensions—6 by 3½ by 2½ in. Capacity—ONE PINT. PATENTED.

NO POSSIBILITY OF INJECTING AIR. ALWAYS READY FOR USE. FORMS ITS OWN RESERVOIR.
ALL PARTS ARE ENCLOSED IN BOX.

WILL LAST MANY YEARS.

The above illustration represents an Enema which is arranged so that the box will form the reservoir for the fluid to be injected. By being used in this way any possibility of injecting air is avoided, owing to the fact that the suction end of Enema is screwed into bottom of reservoir. It is light and portable, and most suitable for travelling. The Enema is made of the best quality rubber in one continuous length, and will last for many years with ordinary usage; it is also fitted with our patent non-corrosive glass valves. The reservoir which forms the box is made of iron enamelled inside and out.

FITTED WITH IMPROVED STOPCOCK, AS SUGGESTED BY W. D. JEFFERSON, M.R.C.S.
60s. DOZEN LESS USUAL DISCOUNT.

REDUCED PRICES OF Seltzogenes & Seltzogene Powders.

	2-Pt.	3-Pt.	5-Pt.	8-Pt.	
SELTZOGENES (Lynch's), each (Manufactured in Paris)	—	7/-	10/6	15/-	Net monthly a/c.
SELTZOGENE POWDERS (English Materials)	12/6	13/6	18/6	27/6	„ „
12 Charges in box, per doz. boxes					

LYNCH & CO., LTD.
ALDERSGATE STREET, LONDON, E.C.

WESTMINSTER COLLEGE

OF CHEMISTRY AND PHARMACY.

Principals: G. S. V. WILLS, F.L.S., M.P.S.;
and H. WOOTTON, B.Sc. (Lond.).

Names are now being registered for September 1st.

During the past Session 108 Students of this School were successful in passing their examination.

FEEs:—Complete Course, £8 8s.; 6 Months, £12 12s.; 12 Months (Major and Minor), £15 15s.

In addition to the usual College work, "Extra Special Classes" are given, for which there is "No Extra Charge."

N.B.—All Students of this College who take a Six Months' Course and pass the Minor at their first attempt, or who are successful in obtaining a College Medal, will receive **FREE TUITION FOR THE MAJOR**.

The Evening Classes for the Major, Minor, and Preliminary are now being held; full particulars on application.

The PEREIRA MEDAL has this year been awarded to a Student of this College, Mr. W. A. KNIGHT.

WILLS' POSTAL SYSTEM.

(Established nearly a quarter of a century.)

Apprentices and Assistants will find this course of systematic study the best for obtaining a groundwork in all the subjects. Particulars on application.

For Prospectus and Pass Lists apply to

E. WALDEN, Secretary,

TRINITY SQUARE, BOROUGH, LONDON, S.E.

SHEFFIELD COLLEGE

OF PHARMACY,

118 Princess Buildings, The Moor, SHEFFIELD.

PRINCIPALS—R. B. GREAVES, F.C.S., Gold & Silver Medallist.
J. W. TURNER, M.F.S., Medallist & Prizeman.

JANUARY EXAMINATION.

The Complete Course for the January Examination commences on September 6th.

A Shorter Course, suitable for those gentlemen unable to devote so long a period, will begin on October 4th.

Evening Classes commence on Thursday, September 23rd.

Prospectus, fees, and full particulars of the above Courses will be sent on application.

The City School of Pharmacy and Chemistry.

Mr. G. E. SKERRY, M.A., Principal.

27, CHANCERY LANE, E.C.

SPECIAL NOTICE.—New Courses of Lectures commenced on MONDAY, JULY 5th.

Day, Evening, & Correspondence Classes & Private Tuition.

Lecturers:—Mr. F. A. HOCKING, B.Sc. (Lond.), M.P.S.; Mr. W. ROBERTS, M.P.S.; Mr. T. HUMPHREYS, B.A., Int. B.Sc.; Mr. STEWART, M.A.

Individual attention guaranteed. Full Prospectus on application.

Rapid preparation for all coming Exams. Appliances thoroughly up to date.

LATEST SUCCESSES:

January Apothecaries' Hall, Biology, 1 presented and passed; April Minor, 3 presented, 2 passed; Previous Exam. (Minor), 7 presented, 6 passed; also all sent up for Major, and 8 successes for Apothecaries' Hall.

General Analytical work undertaken on moderate terms. Write or call.

THE LIVERPOOL SCHOOL OF PHARMACY,

6 Sandon Terrace, Upper Duke Street
LIVERPOOL.

Principal—Mr. R. C. COWLEY, Ph.Ch.

Analytical and Consulting Chemist,

Assisted by { Mr. H. B. MORGAN, Ph.Ch.
Mr. WM. NARRAMORE, F.L.S.

This School is officially recommended by the Liverpool Chemists' Association, who have appointed the following gentlemen as a Committee of Education:—

Mr. M. CONROY, F.C.S. Mr. H. WYATT, Jun.
Mr. C. SYMES, Ph.D.

A Tutorial Class for the OCTOBER EXAMINATION begins on August 30th.

The Classes for the JANUARY EXAMINATION begin on September 12th.

Intending Students are advised to apply for Benches early as possible, as there are only a limited number for disposal.

Syllabus, with full particulars, may be had, post free, on application to the Principal.

METROPOLITAN COLLEGE OF PHARMACY.

Principal—W. WATSON WILL.

WINTER SESSION.

The Course of Lectures for this Session commences on September 1st and terminates on December 31st. Students are advised to begin at the commencement of a Course. All Students' work done under direct supervision of the Principal and Demonstrators.

FEEs:—Major Course, 6 Guineas; Minor Course, 10 Guineas. Special Tutorial Course for the October Examinations commences September 1st, and is intended for Students of previous Sessions.

EXAMINATION RESULTS.

SESSION 1896-97.—Majors, 10; Minors, 79; Apothecaries' Hall, 9. Near one-third of the successful Minor Candidates were Students of this College.

JULY—MAJORS, 3; MINORS, 25.

For new Syllabus and full particulars apply to

Mr. W. S. CARVER, 162 Kennington Park Road, LONDON, S.E.

THE ROYAL DISPENSARY AND SCHOOL OF PHARMACY OF EDINBURGH.

Teacher—Mr. WILLIAM DUNCAN, Pharmaceutical Chemist
Assisted by Messrs. W. G. MACKENZIE and C. M. GERMAN
Pharmaceutical Chemists.

The Laboratories and Class Rooms are very complete, having been specially built and fitted for the teaching of Pharmaceutical Students.

In 1896 there have qualified from this School 93. In 1897—

At the JANUARY Examination, 20. At the APRIL Examination, 26

At the JULY Examination, 18.

TERMS BEGIN OCTOBER, JANUARY, and APRIL

Early application for Benches, &c., to be made to

Mr. WILLIAM DUNCAN, F.C.S.,

THE ROYAL DISPENSARY, 21 West Richmond Street, EDINBURGH.

PRIVATE AND POSTAL TUITION.

London Matriculation, Medical, Dental, Pharmaceutical, and all other Examinations. Rapid and thorough Preparation. Success guaranteed. Terms moderate.

Students intending to register for Medical Study are advised to lose no time in passing before the new and stringent regulations are adopted.

For Particulars and Terms address—

A. H. DAWES, 1st B.A.,
55-56 CHANCERY LANE, W.C.

Special Private and Postal Coaching for the Bell and Manchester Scholarships.

Latest Successes (in addition to many previous ones):—

1896.—Both Bell Scholarships, and the next two places on the list.

1897.—Both Bell Scholarships.

FREDERICK DAVIS, B.Sc.

Students are advised to qualify prior to the contemplated alterations in the Syllabus.

Gentlemen who have studied elsewhere and failed in their Exam. should apply to Mr. DAVIS at once.

JULY MINOR.—Nine presented themselves, of whom eight passed, including Messrs. RAINY and ROBERTS, who had not studied elsewhere.

OCTOBER MINOR.—Seven presented themselves, of whom five passed, including Mr. J. A. RAMBAUT, at his first attempt, not having studied elsewhere.

97, JANUARY MINOR.—Six presented themselves, of whom five were successful, including Mr. J. REED, who had not studied elsewhere.

APRIL MINOR.—Seven presented themselves, of whom six were successful, including Messrs. DUTTON and FOSTER.

Fees Moderate and Inclusive.

IMPERIAL BUILDINGS, LUDGATE CIRCUS, E.C.

**THE EDINBURGH CENTRAL SCHOOL
OF PHARMACY,**
26 CLYDE STREET, EDINBURGH.

Principal—WM. B. COWIE, Ph.C. { Chemistry and
(Heriot-Watt Medallist). { Pharmacy.
GEO. SENTER, Ph.C. { Botany and
(Bell Scholar, Pereira Medallist, &c.). { Materia Medica.

At the July Examinations the following Gentlemen were successful from the E. C. S. P.:

Mr. John Collie	Mr. W. G. Longbottom	Mr. W. W. Mathewson
" Wm. D. Drummond	" Alex. Mackie	" A. Shepperson
" A. Duncan	" D. McKas	" Wm. Sims
" F. A. Hulme	" A. C. Martin	" L. N. Thompson
	" G. E. Whinera	

The Revision Classes for October Examination commenced on 19th August.

The Junior Evening Class will commence on 1st September, and the Junior and Senior Day Classes on 7th October.

Names are now being registered; and intending Students are requested to apply early, as benches are allotted in order of application.

**VICTORIA UNIVERSITY.
OWENS COLLEGE, MANCHESTER.
MEDICAL DEPARTMENT.**

WINTER SESSION begins on Friday, October 1st, 1897.

Full opportunities for study are offered to Students preparing for any of the Examinations in Medicine and Surgery in the United Kingdom.

Special facilities are also offered in the following Departments:

DENTAL DEPARTMENT.
PUBLIC HEALTH DEPARTMENT.
PHARMACEUTICAL DEPARTMENT.

Prospectuses of these Departments, together with particulars of Scholarships, &c., and any further information, will be forwarded on application to

S. CHAFFERS, Registrar.

LOCKYER'S CONCENTRATED SOLUTIONS

Give the most Wonderful Results.

LOCKYER'S HYDROQUINONE DEVELOPER. 1/3 and 2/- per bottle.

LOCKYER'S METOL AND HYDROQUINONE DEVELOPER. 1/3 and 2/- per bottle.

LOCKYER'S EIKONOGEN AND HYDROQUINONE DEVELOPER. 1/3 and 2/- per bottle.

LOCKYER'S TONER AND FIXER. 1/3 and 2/- per bottle.

LOCKYER'S REDUCER. 1/3 and 2/- per bottle.

LOCKYER'S INTENSIFIER. 1/- per bottle.

LOCKYER'S TONING SOLUTION. 1/6 per bottle.

Chemists and Photo Dealers should write for Trade Terms and Price List of Chemicals, &c., to

E. LOCKYER, 87 Evelyn Street, DEPTFORD, S.E.

BOTWRIGHT & GREY,

MANUFACTURING OPTICIANS

WHOLESALE AND EXPORT ONLY;
CLERKENWELL, LONDON, E.C.

Spectacles and Eyeglasses in all Metals, Spectacle and Eyeglass Cases, Field, Marine, and Opera Glasses, Telescopes, Barometers, Thermometers, &c., Eyeglass Chains and Cords. We invite the inspection of intending purchasers.



Repairs, Odd Orders and Surgeons' Refraction Prescriptions accurately prepared by return of post. Special attention is given to Chemists commencing, and instruction is given free in Sight Testing by one of the principals, till efficient, if desired.

Sydney Office—

LION & MOSELY, Wynyard Building, Wynyard Sq.

Melbourne Office—

LION & MOSELY, Apollo Chambers, Flinders Lane.

BOWLING & GOVIER, SHOP FITTERS

GUN STREET, BRUSHFIELD STREET, BISHOPSGATE, LONDON.

NOTICE.—See the Shops recently fitted in our Modern Style, and send for Estimates for Best Work at Lowest Prices.

Barrow's Drug Stores, Westbourne Grove.	Messrs. Thomas Bros., Cheltenham.	Messrs. Williams & Co., Carliff.	Mr. G. S. Boutall, Copthall Avenue, E.C.
Bowling's Drug Stores, Edgware Rd.	Mr. Chabot, Tunbridge Wells.	The Sussex Drug Company, Western Rd., Brighton.	Mr. G. S. Boutall, Upper Welsh Harp Road, Hendon.
May's Drug Stores, London Wall.	Mr. Francis, Carmarthen.	Lewis's Drug Stores, Finchley New Rd.	Keut & Sons' Offices, Farringdon Street, Hay & Co., 8 New Broad St., E.C.
Brice's Drug Stores, Ealing.	Mr. G. Bontall, Holborn.	Mr. G. Woolley, London Rd., Leicester	Marshall's, Lim., Showrooms, 1 Lion Square.
Goss & Co.'s Drug Stores, Oxford St.	Mr. Pettinger, Hampstead.	Mr. Marsh, Kilburn.	Mr. J. W. Taplin, Kew & Harleside
Mr. Lewis's Drug Stores, Kilburn.	Mr. Grose, Swansea.	Mr. W. Bowden, Hill Rd., Wimbledon	Mr. J. Davies, Swansea.
Portway & Co., Bernondsey.	South Wales Drug Company, Cardiff.	Mr. S. Wand, Leicester.	Mr. G. S. Boutall, "Homocoea," Strand, W.C.
Messrs. Robson & Son's Drug Stores, Scarborough.	Mr. Southon, Leadenhall St.	Mr. G. S. Boutall Green St., Leicester Square, W.	
Lewis's Drug Stores, 64 Baker St.	Allen & Hanburys, 43 Wigmore St., W.	Mr. W. O. Smith, Fareham.	
Mr. Bateman, Finchley Rd.	Mr. W. Hoare, King's Rd., Hammer-smith.		

Shops fitted in Chippendale Mahogany, high-class style, at popular prices. Alterations and complete Refits.
"A thing of beauty is a joy for ever." So is a well-fitted Shop.

ESTABLISHED HALF A CENTURY.

GEO. TREBLE & SON

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE

59 AND 61 RHODES STREET, HOLLOWAY, LONDON, N.

Sixteenth Edition, much Enlarged. Price 12s. 6d.

SQUIRE'S COMPANION TO THE BRITISH PHARMACOPŒIA.

London: J. & A. CHURCHILL, 7 Great Marlborough St., W

READ AND USE

THE ART OF DISPENSING. Price 3s. 6d.
ALPHE'S HANDY BOOK OF MEDICINE STAMP DUTY. Price 2s.
PROCTOR'S MANUAL OF PHARMACEUTICAL TESTING.
Price 2s. 6d.
VETERINARY COUNTER PRACTICE. Price 3s. 6d.
Published at the Office of THE CHEMIST & DRUGGIST, 42 Cannon St., E.C.

BEST INVESTMENT FOR 1897

O'BRIEN'S

PATENT.
GOLD MEDAL.

THE ONLY SELF-CLOSING
CHECK TILLS.

The Chemist and Druggist says:—"Mr. O'Brien claims, we think justly, that his till is as good a one as has yet been produced for the Chemists' trade. The new coin exhibitor is so simple and costs so little that we would commend this form to new purchasers."

The British and Colonial Druggist says:—"The drawer is self-closing, that is, when the outside edge is brought within 3 or 4 inches of the case the drawer snaps to at once. There can thus be no secret manipulation of the drawer."

The Irish Grocer and Druggist says:—"For accuracy, infallibility, or wear and tear, they stand unrivalled."

Pay for themselves in an incredibly short space of time.

CHECK TILLS



FOURTEEN DAYS' TRIAL
BEFORE PURCHASE.

THOUSANDS SOLD IN OVER 1,000 TOWNS
IN THE UNITED KINGDOM.

Most suitable Till for a quick Cash trade.

MADE IN SOLID MAHOGANY. Size, 18 x 10 x 7 inches.

PRICE, without Coin Exhibitor, £3 0s. nett, or £3 10s. 3 mos.
" with " " £4 10s. " £5 0s. "

A Chemist writes:—"January 1, 1896. Your Till has been of great assistance to me. Had I had it earlier I should have saved some hundreds."

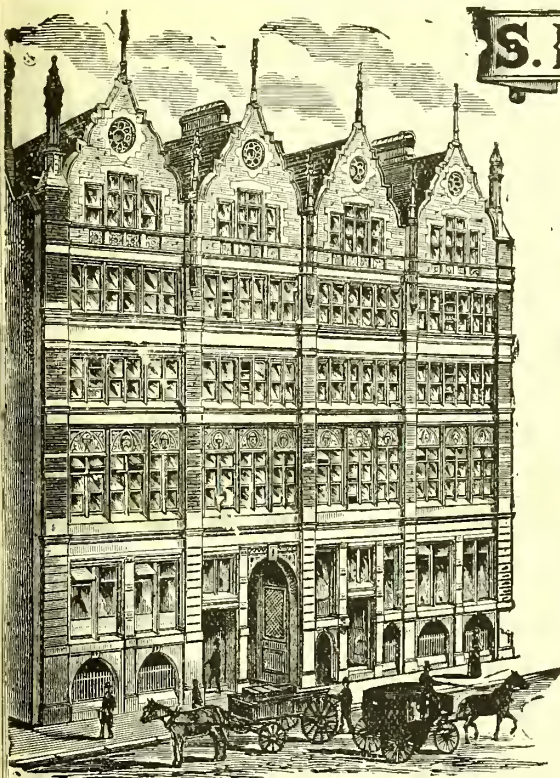
Another writes:—"January 8, 1896. Please forward one of your Patent Self-closing Check Tills to my address. The one I got from you three years ago has given me great satisfaction. I want above for my other establishment."

Another Firm says:—"We like your till much better than others. It is much more substantially made. Send us on another till at once."

Send for one on trial to:—

THOMAS O'BRIEN,
SLATER ST., BOLD ST.,

LIVERPOOL



S. MAW, SON & THOMPSON



QUARTERLY
Price Current



AND
BOOK OF ILLUSTRATIONS
CONTAINING NEARLY

5,000 ENGRAVINGS

OF
SURGEONS' INSTRUMENTS

AND
DRUGGISTS' SUNDRIES

OF ALL KINDS

MAY BE HAD ON APPLICATION ENCLOSED BUSINESS CARD.

Forwarded Post Free to all parts of the World.

S. MAW, SON & THOMPSON

7 to 12 ALDERSGATE STREET, LONDON, E.C.

CORRESPONDENCE INVITED.

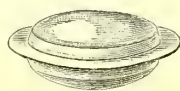
REDUCTION IN PRICE.

WAFER PAPER CACHETS

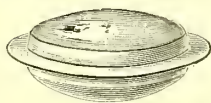
IN BOXES OF 250.



No. 0.



No. 1.



No. 2.



No. 3.

Per 1,000: White, 2s. 6d.; Assorted Colours, 3s.

No. 1 and No. 2, White, printed Antipyrin, Phenacetin, Salicylate of Soda or Sulphonal, or with Name and Address of customer, per 1,000, 3/6.

S. MAW, SON & THOMPSON,

7 to 12 ALDERSGATE STREET, LONDON.

SCHERING'S

COLLODIO CHLORIDE PAPER

SPECIALLY RECOMMENDED FOR HIGH-CLASS WORK.

17s. 6d. per quire; and in 1s. packets.

SCHERING'S

"GELATOID" P.O.P.

UNEQUALLED FOR BRILLIANCE OF TONE AND EASE IN MANIPULATION.

15s. per quire; and in 1s. packets.

These Papers will stand any climate and any climatic changes, and are therefore the very Papers for Export.

SCHERING'S

CHEMICALS FOR PHOTOGRAPHY

May always be relied upon as they are the very purest made.

SCHERING'S PYROGALLIC ACID.

1-oz. bottles, 1s. each; 1-lb. tins, 13s. each.

SCHERING'S ANTHON.THE ONLY PERFECT ELIMINATOR OF HYPO.
100-gramme bottles, 2s. 6d. each.**SCHERING'S SULPHOCYANIDE OF AMMONIA.**1-lb. bottles, 2s. 6d. each; 8-oz. bottles, 1s. 6d. each;
1-oz. bottles, 4d. each.**SCHERING'S SULPHITE OF SODA.**

1-lb. bottles, 10d. each.

SCHERING'S CARBONATE OF SODA.

1-lb. bottles, 7d. each.

SCHERING'S CHLOROPLATINITE OF POTASH.

In 15-grain tubes, 1s. 6d. per tube.

SCHERING'S HYDROKINONE.

1-lb. bottles, 10s. 6d. each; 1-oz. bottles, 10d. each.

SCHERING'S MAGNESIUM RIBBON.1-oz. coils, 1s. 10d. each; $\frac{1}{2}$ -oz. coils, 1s. each.**SCHERING'S FORMALIN.**

SPECIALLY PREPARED FOR PHOTOGRAPHIC PURPOSES.

1-lb. bottles, 3s. each; 8-oz. bottles, 1s. 9d. each;
4-oz. bottles, 1s. each.**SCHERING'S MAGNESIUM POWDER.**

1-lb. bottles, 20s. each; 1-oz. bottles, 1s. 6d. each.

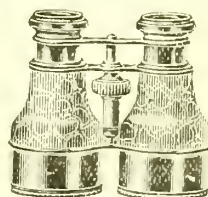
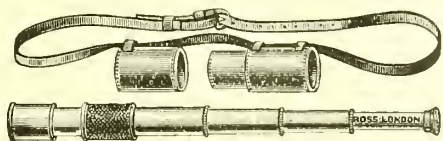
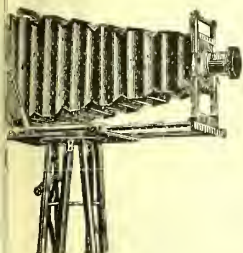
SCHERING'S MAGNESIUM WIRE.1-oz. coils, 1s. 10d. each; $\frac{1}{2}$ -oz. coils, 1s. each.**SCHERING'S CELLOIDINE.**

A TRANSPARENT GELATINOUS PYROXYLIN, FREE FROM ALL PRECIPITATING ORGANIC SUBSTANCES

1-oz. boxes, 3s. 6d. each.

SOLE WHOLESALE AGENTS FOR GREAT BRITAIN AND THE COLONIES—

A. & M. ZIMMERMANN, 9 & 10 St. Mary-at-Hill, LONDON, E.C.



ROSS, LIMITED, Manufacturing Opticians.

Catalogue No. 1

CONTAINS FULL PARTICULARS OF
ROSS' Portrait and View Lenses for Amateur and Professional Photographers.
ROSS-ZEISS' Anastigmats, including the NEW CONVERTIBLE ANASTIGMATS.
ROSS-GOERZ' Double Anastigmats.
ROSS' Field and Studio Cameras and Accessories.
ROSS' Process Cameras and Reversing Prisms and Mirrors, &c.
ROSS' Special Hand Cameras.
ROSS' Science, Projection, and Enlarging Lanterns.

And several important new series of
LENSES, CAMERAS, LANTERNS, &c., &c.

Lists Post Free to CHEMISTS and DEALERS.

Catalogue No. 2

CONTAINS ILLUSTRATIONS AND PRICES OF
ROSS' Microscopes, Objectives, and Micro-Apparatus.
ROSS' Telescopes, for Sportsmen and Naval and Military Officers.
ROSS' New Series Binocular Glasses and Stereo Telescopes.
ROSS' New Series Opera Glasses.
ROSS' Mercurial and Aneroid Barometers, Thermometers, &c.
ROSS' Sextants, Compasses, Pedometers.
ROSS' Surveying and Drawing Instruments.
ROSS' Spectacles and Eyeglasses, &c.

Including several novel and improved designs in
**MICROSCOPES, BINOCULAR GLASSES, BAROMETERS,
EYEGASSES, &c.**

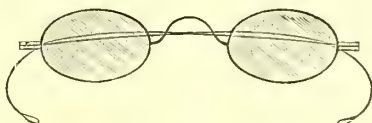
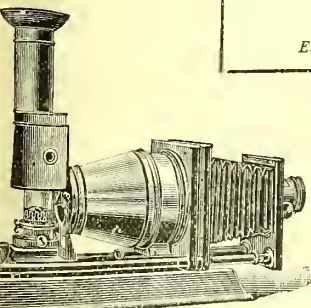
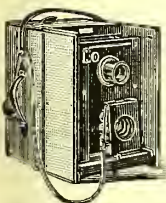
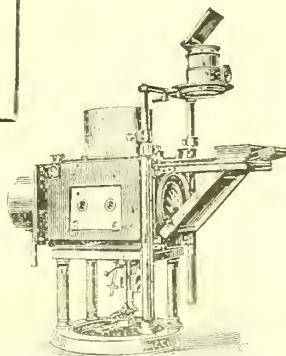
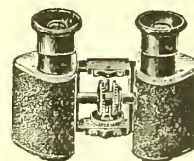
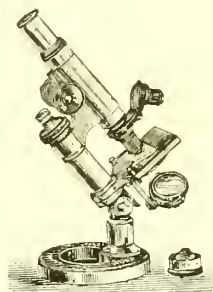
Lists Post Free to CHEMISTS and DEALERS.

Either or both of the above Catalogues will be Forwarded on Application.

ROSS, LTD., Manufacturing Opticians, **LONDON, W.**
111 New Bond Street,

SPECIAL TERMS TO CHEMISTS.

Established 1830. Telegraphic Address—"ROSSANO LONDON."



THE UNITED ALKALI CO., L^D.

LIVERPOOL.

CHLORINE AS A DISINFECTANT.


"CHLOROS," Hypochlorite of Soda, containing 10 per cent. available Chlorine.
The presence of 1 part "Chloros" in 100 parts of Sewage will entirely destroy all germs of Cholera, Typhoid, Diphtheria, Swine Fever, Glanders, and of many other diseases.

The presence of 1 part "Chloros" in 10,000 parts of ordinary Sewage will completely remove all smell.
"CHLOROS" is a liquid; it yields no insoluble residue, and cannot stop up drains.

"CHLORIDE OF LIME," containing 35 per cent. available Chlorine.
The Cheapest of True Disinfectants.


"SANITARY CHLORIDE OF LIME," containing 15 per cent. available Chlorine.
"SANITARY CHLORIDE OF LIME" is especially prepared for Sanitary purposes.
"SANITARY CHLORIDE OF LIME" does not become wet or sloppy on exposure to the air, and can be handled with impunity.

Sole Agents for "Chloros" & "Sanitary Chloride of Lime" to Chemists & Druggists in the United Kingdom,
Messrs. EVANS, SONS & CO., LIVERPOOL.



MANILLA TALLIES

With Extra Strong Brass
Eyelets.



Pattern B.				Printed with Name and Address		Pattern C.				Printed with Name and Address	
No.	1.	Size		Plain	1,000.	No.	1.	Size		Plain	1,000.
"	1.	2½ × 1½		4	6/6	"	1.	2½ × 1½		2/6	4/8
"	2.	3 × 1½		4 6	7	"	2.	3 × 1½		3/	5/3
"	3.	3½ × 1½		5	7/6	"	3.	3½ × 1½		3/6	5/9
"	4.	4 × 2		5/6	8/	"	4.	4 × 2		4/	6/3
"	5.	4½ × 2½		6	8/6	"	5.	4½ × 2½		4/6	6/9
"	6.	5 × 2½		7	9/6	"	6.	5 × 2½		5/	7/3
"	7.	5½ × 2½		8	10/6	"	7.	5½ × 2½		6/	8/3
"	8.	6 × 3		9/6	12	"	8.	6 × 3		7/	9/3

H. SILVERLOCK,
Medical Label & General Printer, Engraver & Lithographer,
92, BLACKFRIARS ROAD, LONDON, S.E.

~ Specimens Post Free. ~

S. M. FRANKENSTEIN & CO.

LONDON & MANCHESTER.

GELATINES (Proprietors of the "Calf" Brand).

GLUES AND GELATINES

(JACQUAND-COIGNET).

AFRICAN GROUND NUT OIL

(9VF BRAND).

SALAD COTTON SEED OIL

(UNION BRAND).

LUCCA AND PROVENCE OLIVE OIL

(WARRANTED GENUINE).

GLUCOSE (R. & W. Crown Brand)

DYEWOOD & TANNING EXTRACTS (E. Dubosc)

FINE COLORS, GUMS AND STARCH

CASTILLE SOAP (Industrial and Druggists').

ESSENTIAL OILS:

SPECIALITIES:—Lavender, Geranium, Neroly, Lemon, Orange, Bergamot.

FLORAL EXTRACTS, &c.

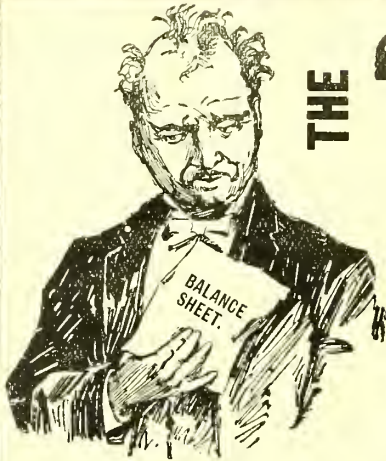
LIQUORICE, BLOCK AND STICK

COCHINEAL CARMINES (Unrivalled Qualities)

Chief Office -

Dashwood House,

10 New Broad Street, London, E.C.



TO PREVENT DISAPPOINTMENT ORDER EARLY.

THE "FLY CEMETERY"

BY ROYAL LETTERS PATENT,

NON-POISONOUS!

The Original and by far the BEST Sticky Fly Paper in the market.

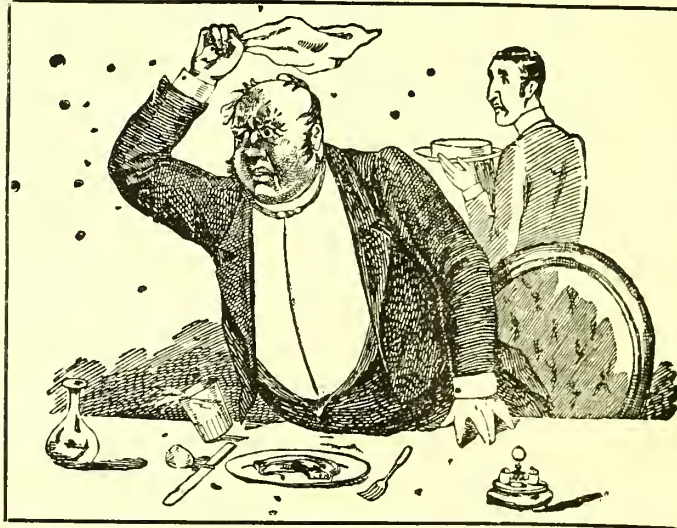
ANNUAL SALE MILLIONS.

END OF SEASON.

This Gentleman would NOT stock the "Fly Cemetery."

RESULT: **DISAPPOINTMENT.**

Catches more Flies in a day than the old-fashioned Papers do in a week.



PRICE ONE PENNY.

Well known in every Household in the Kingdom.

Bears Large Profits.

The immense popularity of the "FLY CEMETERY" with the public has had the usual result attending the introduction and prosperity of all genuine articles in raising up a host of imitations, which for the most part disappoint the purchaser. We therefore warn our friends not to be misled by specious announcements, but when they order Sticky Fly Papers to insist upon having the "FLY CEMETERY."

SOLD BY ALL THE LEADING WHOLESALE HOUSES.
LIBERAL TERMS.

IMPORTANT NOTICE.

In order that our Customers may not suffer any loss through deterioration of Stock kept during the Winter, we are willing to Exchange any thus left over for Fresh Stock at the commencement of a new Season. We only ask our friends to assist us by ordering judiciously, especially towards the latter part of the Season.



END OF SEASON.

This Gentleman DID stock the "Fly Cemetery."
RESULT: **GOOD BUSINESS.**

SAMPLES AND TESTIMONIALS FROM

TUNBRIDGE & WRIGHT, MANUFACTURERS, READING.

North of England Depot: 4 GALLOWGATE, NEWCASTLE-ON-TYNE. Telegrams: "FLIES READING."

THE FLYODOOMO FLY STICKERS

Catch Flies and Hold Them.

They are the Cleanest, Tackiest, and Best Fly Papers in the Market.

Carefully rolled up so that the Composition cannot possibly get outside.

Large Buyers should write for Samples and Quotations.

1/4d. and 1d. SIZES.



Sample Gross, Carriage Paid, on receipt of P.O. for 5/-

Having fixed up new and improved machinery, the proprietor can execute all orders with celerity and dispatch.

AGENTS—

LONDON—Messrs. Sanger & Sons; Messrs. Barclay & Sons; W. Sutton & Co.

MANCHESTER—Messrs. Woolley, Sons & Co.

THIRSK—Mr. W. Foggitt.

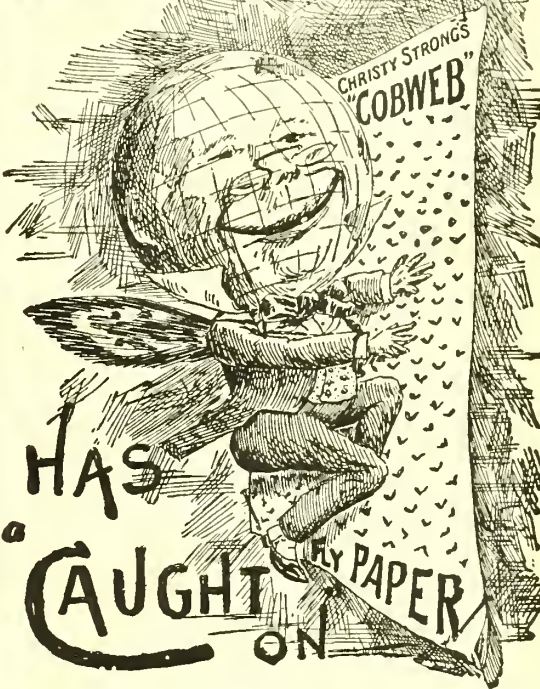
YORK—Raines & Co.

LIVERPOOL—John Thompson.

**JOHN H. SMITH,
NEWARK-ON-TRENT.**

COPYRIGHT.

THE WORLD



HAS CAUGHT ON FLY PAPER

5/- per gross, Carriage Paid. Cash must accompany order.

Samples free, CHRISTY STRONG, READING.

FORD, SHAPLAND & CO.,

CHEMISTS' AND GENERAL PRINTERS,
LITHOGRAPHERS, ENGRAVERS, &c.,

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

STICKY FLY PAPERS

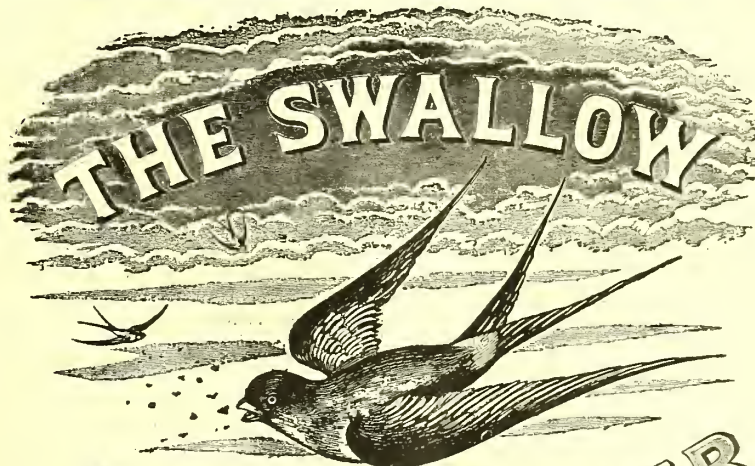
SUPERIOR TO ALL OTHERS.

DEMON"
LY LURE

(Registered).

Advertisement"

FLY
PAPER.



FLY CATCHER

(REGISTERED.)

ALSO

Chemically
Prepared
Fly Papers.

Samples and Prices
on application.

Harvey's Horse Remedies

- HARVEY'S ACONITE POWDERS,**
For Chronic Cough, Broken Wind, Roaring, &c.
- HARVEY'S WORM AND CONDITION POWDERS.**
- HARVEY'S WATTS' EMBROCATION,**
or Curb Bottle.
- HARVEY'S WATTS' RED LOTION,**
For Wounds
- HARVEY'S HAIR RESTORING OINTMENT.**
- HARVEY'S EDOS,** or Tasteless Purging Powder.

These Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of Private Horse Owners in the United Kingdom and abroad.

FULLY DESCRIBED IN
"THE HORSE OWNER'S
HANDY NOTE BOOK"

96 PAGES. POSTED FREE.

Illustrated Pamphlets, and also Booklets with Chemist's name on, supplied on application.

For Trade Prices see the Lists of Wholesale Houses, or write for Price List to the sole Proprietor

HARVEY & CO
8 Bachelor's Walk,
DUBLIN

Telegraphic Address—
REMEDIES, DUBLIN

WALKER, TROKE & CO.
WHOLESALE DRUGGISTS,
2 (late 65) Bath St., City Road,
LONDON, E.C.



SOLE MAKERS OF
GABRIEL & TROKE
GELATINE CAPSULED
HORSE BALLS

Alternative, Condition, Cordial, Cooling, Diuretic, Fever, Physic, Worm, Quinine Tonic Balls (Registered 81,281).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

SHEEP DIPS. For "Information Wanted"

WRITE TO **B. B. HARESCEUGH & CO.,** Wellington St., LEEDS,

Who supply Chemists with any of the following preparations packed in their own name:—

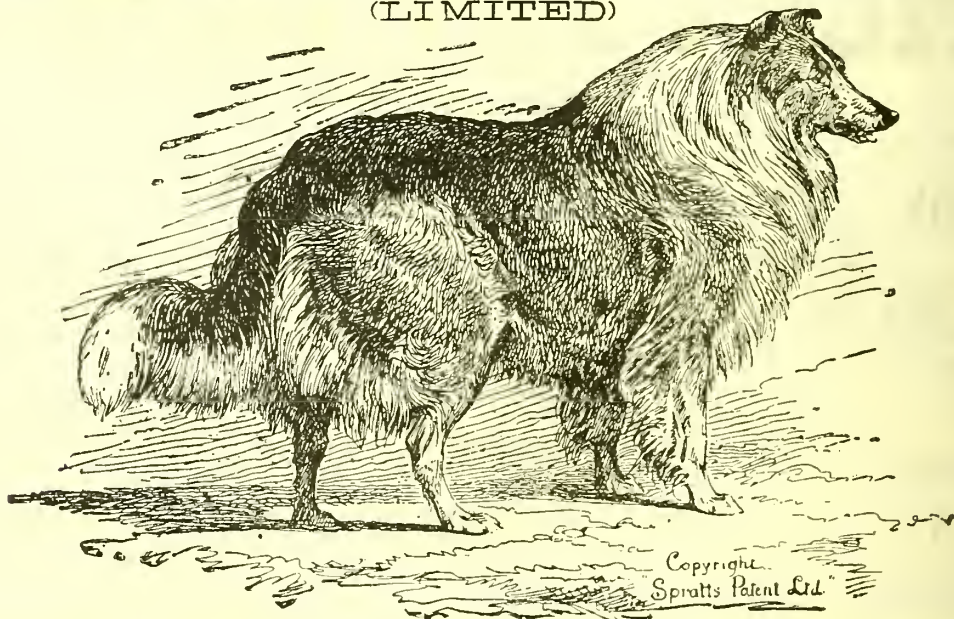
Arsenical Powder Dip; Arsenical Paste Dip; Non-Pois. Paste Dip and Fluid Dip; Horse and Cattle Washes; Paste and Fluid; Maggot Lotion; Mange Liniment; Dog Soap; Carbolic Powder; Carbolic Acid; Carbolic Soft Soap.

DISINFECTANTS, BOTH POWDERS AND FLUIDS, IN BULK. PRICES ON APPLICATION. ESTABLISHED 186

Happy and Free from Fleas after using

SPRATT'S PATENT

(LIMITED)



Copyright
Spratts Patent Ltd.

Specially Prepared **DOG SOAP.**

SUPPLIED TO HER MAJESTY'S GOVERNMENT.

IZAL PREPARATIONS. IZAL

Antiseptic. Non-Poisonous. Non-Irritating.

IZAL is an emulsion of Izal Oil. Mixed with 200 parts of water it gives an antiseptic lotion which is non-irritating, non-poisonous, and very much more powerful and persistent in its action than pure Carbolic Acid on account of the insolubility and low volatilisation point of the Oil.

IZAL has now been in use in several of the large hospitals for 2 or 3 years, and all that is claimed for it has been amply confirmed.

Bacteriological research by eminent specialists, whose reports will be forwarded on application to Messrs. Newton, Chambers & Co., has shown the certainty and speed with which **IZAL** destroys even the most resistant of Bacteria.

As a general disinfectant, for economy and pleasantness, **IZAL** is second to none; and its persistent and non-poisonous properties have already rendered it invaluable in the cleansing of Bakehouses.

IZAL for medical use is indicated as an internal antiseptic, and should be employed in Typhoid Fever and specific diseases, since it has been shown that, although itself non-poisonous, **IZAL** has the power of destroying the effect of the noxious alkaloidal products of Bacteria.

IZAL should be employed in Phthisis not only as a disinfectant, but also medicinally, with a view of combating the micro-organism in the tissues, and arresting the disease.

IZAL OINTMENT is *par excellence* the antiseptic application of the future. It is cooling and antipruritic, as well as antiseptic.

In skin diseases it is invaluable, for there is hardly a case of skin disease, as a well-known specialist recently remarked, in which at some period or another of its course, antiseptic and antiparasitic remedies are not indicated.

On account of its great persistence, it is especially useful in killing the resistant fungi of ringworm, favus, pityriasis versicolor, &c., and the parasites (pediculi, acarus, &c.).

IZAL Lint, Izal Gauze, and Wool are now prepared and put up, as it has been found how well wounds heal under the continued stimulating and antiseptic influence of **IZAL**.

IZAL SOAP, Medical and Toilet, contains a sufficient percentage of **IZAL** to render a remedy so persistent in its action of practical use in keeping the hands and body surgically pure—unlike carbolic soap, the action is not evanescent.

Every surgeon, accoucheur, and nurse should make a habit of always using **IZAL** soap.

IZAL TOOTH POWDER is a delicate, pleasant, and elegant preparation, and forms an admirable antiseptic for the mouth and teeth. Much of the early decay, produced by acid forming bacteria, might be arrested if **IZAL** were regularly employed.

IZAL CREAM is essentially a toilet preparation for the purifying, clearing, and softening of the skin, and is especially indicated in acne and pustular eruptions about the face.

IZAL is prepared for a variety of purposes, as:—

- IZAL Emulsion for Disinfecting purposes**
6d., 1/-, 2/6, and 4/6 per bottle.
- IZAL Emulsion for Surgical and Internal Administration** 1/6 & 2/6 per bottle.
- IZAL Cream, in Tubes** 1/1½ tube.
- IZAL Soap, in 1-lb. or 3-lb. bars** ... 3d. per lb.
- IZAL Medical Soap, 3 tabs. in box**... 2/- per box.
- IZAL Toilet Soap, 3 tabs. in box** ... 1/3 per box.

- IZAL Lint 2/4, Cotton Wool 2/- per lb.**
Gauze 1/- per 6-yard length.
(To be had from the Maker, JOHN MILNE, Antiseptic Dressing Factory Ladywell, London.)
- IZAL Lozenges** 1/1½ per box.
- IZAL Ointment** 1/1½ per jar.
- IZAL Tooth Powder** 6d. and 1/- per box.
- IZAL Embrocation** 1/1½ per bottle.

NEWTON, CHAMBERS & CO., Lim., Thorncliffe, Sheffield.
Liverpool Depot—50A LORD STREET, LIVERPOOL.

To be obtained through the Wholesale Patent Medicine Houses, or of

ALLEN & HANBURY'S Ltd., Bethnal Green, LONDON, E.

DUSSEK BROS. & CO.

MANUFACTURERS OF

SANITARY FLUID

Of all strengths, soluble in water to any extent, forming a milky solution.

CARBOLIC ACIDS

Crude and pale, of all strengths.

CARBOLIC POWDERS

All Colours, containing 5%, 10%, 15% genuine Carbolic Acid. Packed in Casks, Bags, and Tins of all sizes.

PATENT 'SANO' FLUID

A superior Disinfectant for Hospital and indoor use. Soluble in Water.

COAL TAR & ROSIN PRODUCTS,
GREASES, OILS, VARNISHES, DUBBIN, AND
PITCH of all kinds.

DUSSEK'S WHARF, VERNEY ROAD, S.E.

Telegrams "DUSSEK LONDON." Telephone No. 8,239



CAMPHORTAR

8/- per Gross.

CAMPHORTAR



A combination of Camphor, Eucalyptus and Coal Tar. A powerful Disinfectant, Deodoriser, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES
Samples on application.

Manufactured only by

Albany Works,

W. C. HEBDEN, HALIFAX, YORKSHIRE.

TO ADVANTAGE.

INSECT POWDER.

Genuine Dalmatian, ground from the Closed Wild Flowers of "Pyrethrum roseum."

POWDERED HELLEBORE.

In fine Powder, and Gentle.

STAVESACRE SEEDS.

Own Import. We offer the Seeds whole or ground (own grinding).

CARBOLIC ACID, PALE LIQUID, 97%.

Having favourable contracts can offer to advantage in quantity.

Special Quotations on application. For lowest prices quantities should be stated.

W. KEMP & SON, Wholesale Druggists, HORNCASTLE.

Airtight & Odourless

STEELE'S

Avoid Imitation

SAMPLES & PRICES
ON APPLICATION.

In ¼, ½ and 1lb.
PACKETS.

PATENT) CONTAINING (PACKETS

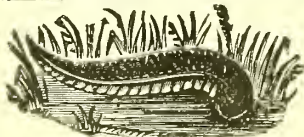
CHLORIDE OF LIME

J. C. STEELE & CO., Victoria Street, GLASGOW.

SPECIALLY SUITED
FOR EXPORT

Will keep for years
in any climate

HAMBRO SPECIFIED



TRADE MARK
REGISTERED.

All Orders by Post receive immediate attention.

LEECHES!

Warranted Healthy.

Wholesale and for Exportation
Direct from Marshes.

FITCH & NOTTINGHAM,

LEECH BREEDERS,

4 CANNONBURY SQUARE, LONDON, E.

For CLEANING PLATE.

BRADLEY & BOURDAS'S

ALBATUM or WHITE ROUGH

(REGISTERED AS A TRADE MARK)

For CLEANING GOLD, SILVER, and PLATED GOODS.

A trial is only needed to prove its superiority over other Plate Powder use. Chemists will find it to their advantage to recommend this Powder, as when it is once tried it is always continued to be used.

Sold in Boxes at 1s. and 2s.; Tins, 6s.

6 PONT ST., BELGRAVE SQ., & 48 BELGRAVE RD., LONDON, W.

WILEY'S CHEMICAL ESSENCE

FOR

lameness in Horses

HANDBILLS, with NAME and ADDRESS,
SUPPLIED GRATIS.

10 YEARS' UNBROKEN SUCCESS.

SOLE MAKER AND PROPRIETOR:

FRANCIS E. ROOKLEDGE,
CHEMIST,
EASINGWOLD, YORK.
TO BE HAD OF USUAL WHOLESALE HOUSES.

AMBROSIA'

(Malt with Devonshire Cream).

Sells in all Fields to the Retailer OVER

35%

PROTECTED PROFIT ON OUTLAY

Circulars and Physicians' Samples
FREE.

SOLE MAKERS—

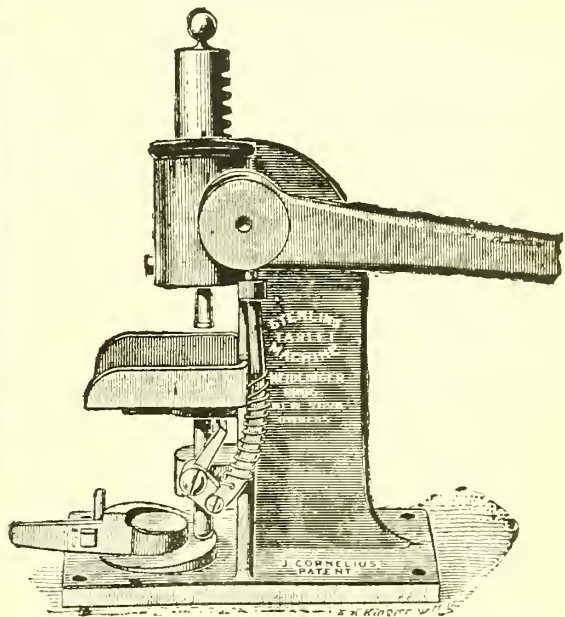
EVANS, GADD & CO.
EXETER, DEVON.

MARSHALL'S LIMITED,

IMPORTERS & EXPORTERS,
MANUFACTURING PERFUMERS

SOLE AGENTS FOR

THE "STERLING"



TABLET MACHINE.

£2 2 0
EACH.

Complete with extra
Dies, Plungers,
&c.

The Cheapest, Best, and simplest Machine ever introduced
for Making Tablets of all sizes.

Particularly adapted for the Dispensing Counter, every
Tablet is a Perfect Shape, with a beautiful polish, un-
equalled by any other machine costing treble the price.

Send for particulars and Illustrations to

MARSHALL'S, LIMITED,
27 Red Lion Square, London, W.C.

Harmless Antiseptic & Disinfectant Gas.

The Problem of a Harmless Antiseptic has been now solved by the introduction of

The "Alformant"

(REGISTERED TRADE MARK)

An elegant and ornamental Lamp capable of distributing from

And for

THOROUGH ROOM DISINFECTION

by definite proportion of Gas to any given Room capacity.

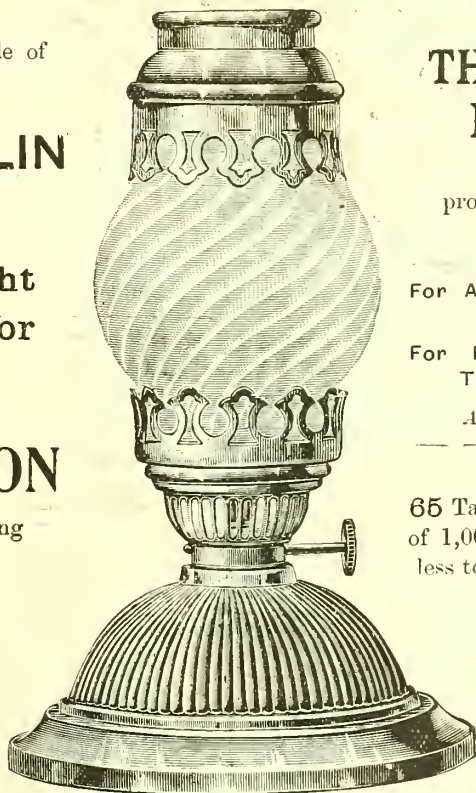
For Air Sterilisation use 1 Tablet for 1,000 cubic feet.

For Effectual Disinfection use 10 Tablets for 1,000 cubic feet.

As proved by eminent authority.

HARMLESSNESS.

65 Tablets gasified in a room capacity of 1,000 cubic feet have proved harmless to the respiratory organs of man.



DRY FORMALIN TABLETS,

2½ times by weight Formalin Gas, for

AIR STERILISATION

in the Sick, Bed, and Living Room,

R.L.P.

12/6 each.

ANTISEPTIC TREATMENT of WOUNDS.

DR. SCHLEICH'S GLUTOL

A fine powdered Formalin Gelatine, is the ideal antiseptic in the treatment of fresh or infected wounds. Self-applying and protective, forming a firm scab in a short space of time, needing no other antiseptic treatment. 2/6 per tin of 1 oz.

GLUTOL SKINS, for painful and swollen skin surfaces. 2/6 per oz.

FOR ALL PARTICULARS APPLY TO

THE FORMALIN HYGIENIC CO., Ltd., 9 & 10 ST. MARY-AT-HILL, LONDON, E.C.

Visitors to the Sanitary and Hygienic Section of the Imperial Victorian Exhibition at the Crystal Palace are invited to inspect at **Stand No. 23.**

MESSRS. D. & W. GIBBS, LD.

CITY SOAP WORKS,
LONDON.

Offices and Showrooms:

16 FINSBURY CIRCUS.



Trade Mark. Registered



THE ORIGINAL SUPERFATTED AND FAMOUS
COLD CREAM SOAP

“Otto,”
“Toilet,”
“Medicated.”

Wrapped and Cartoned in 1 dozen
or ½ dozen Boxes.

This Soap is delicately Perfumed, and made with the utmost care from the finest materials only, and Certificate of Purity is given with each tablet. The above are protected by our Registered Trade Mark given above, and every wrapper bears this, so that customers are warned against worthless imitations.

COLD CREAM SHAVING SOAP

Messrs. GIBBS have at last succeeded in giving their customers a Shaving Soap which is far ahead of anything yet produced.

GUARANTEED TO CONTAIN ARSENIC.



I USE
DR. MACKENZIE'S
ARSENICAL
SOAP.

BEWARE OF THE MANY IMITATIONS

READ

SHADEINE

For Colouring the Hair. Sold in 6 tints, one liquid.

6d. Sample size ..	..	4/- per doz.
3/6 Large " ..	..	28/- "
10/6 Extra " ..	..	84/- "



[COPYRIGHT]

SAMPLES Supplied
the Trad
on pretty hanging Showcards
4/- per doz.

This Popular Article
is Largely Advertised
and kept at all Wholesale
Houses.

Agents Wanted.

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON

SUPPORT HOME INDUSTRIES



A D 1777.

BUY
KENT'S
BRUSHES.

See pp. 209-12, Summer Issue, 1896; also Diary
1897, pp. 160, 161, 162, 163.

SOZIO AND ANDRIOLI,

ESTABLISHED A.D. 1757.
GRASSE (FRANCE).

NOUVELLE RÉCOLTE ESSENCE DE NÉROLY.

POMMADES ROSE ET ORANGE.
EAUX DE ROSES ET DE FLEURS D'ORANGER.

NOUVELLE SPÉCIALITÉ.
EXTRAIT ROYAL AMBRÉ.

FRENCH PERFUMES

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS
STOCK KEPT IN LONDON.
Sole Agent MR FREDK BOEHM 16, JEWRY ST LONDON. E.C.

'HYPATIA'

THE NEW TOILET SOAP.

HUGGINS' SOAP WORKS, Lim., are now appointing Agents amongst respectable Chemists in all the leading towns in the United Kingdom.

Unprecedented favourable terms to the first Three Hundred appointed.

Apply, **HUGGINS' SOAP WORKS, LIM.**
GRAVESEND, KENT.

SPECIAL NOTICE.

I have noticed that there has recently been an increasing demand in England for a smaller-sized bottle of Eau de Cologne than that I have hitherto shipped, and have therefore decided to supply in future a 2-oz. size to meet the requirement. The price will remain unaltered. 24 of the 2-oz. bottles equal 1 dozen.

EAU DE COLOGNE

OF THE MOST ANCIENT DISTILLER,

JOHANN MARIA FARINA,

Opposite the Julichs Place, COLOGNE.

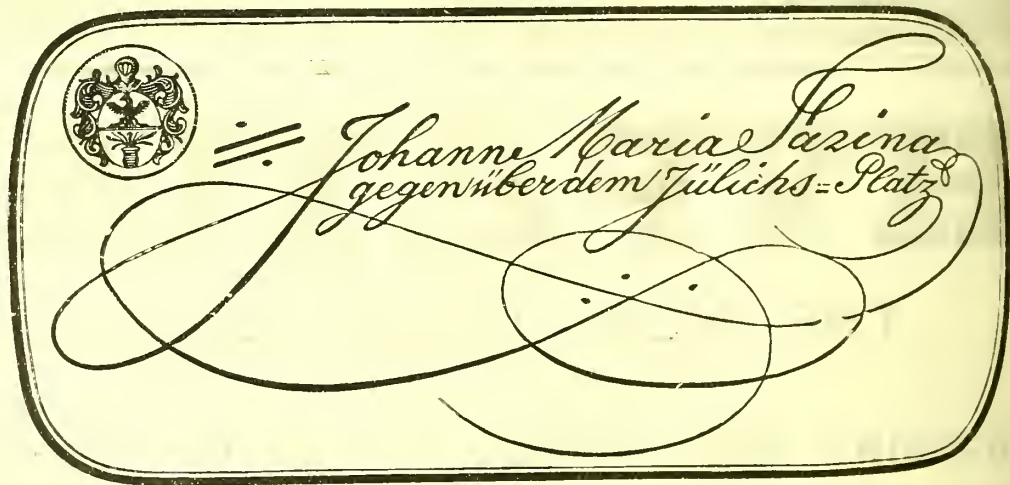
ESTABLISHED A.D. 1709.

PRIZE MEDALS:—London, 1851 and 1862; Oporto, 1865; Paris, 1867; Vienna, 1874

By appointment, Sole Purveyor to Her Most Gracious Majesty Victoria, Queen of Great Britain & Ireland; Their Royal Highnesses the Prince and Princess of Wales; Albert II., King of Saxony;



Their Majesties William II., German Emperor and King of Prussia; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal.



In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I beg to submit Price Current.

Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against my bill drawn three months from the date of invoice, delivered free on board the export ship at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 10 per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

The goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my SOLE AGENTS FOR GREAT BRITAIN AND IRELAND—

MESSRS. J. & R. M^CCRACKEN, No. 38 Queen Street, Cannon Street, LONDON, E.C.

THE FOLLOWING ARE THE SIZES OF MY BOTTLES:—

<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">No. 0</td> <td style="width: 35%;">Short White</td> <td style="width: 10%;">24 bottles</td> <td rowspan="4" style="width: 10%; vertical-align: middle;">} to One Dozen.</td> <td style="width: 30%; vertical-align: top;"> <table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">No. 4</td> <td style="width: 35%;">Wickered Bottles (small)</td> <td style="width: 10%;">8 bottles</td> <td rowspan="3" style="width: 10%; vertical-align: middle;">} to One Dozen</td> </tr> <tr> <td>" 1</td> <td>Long Green Flasks ..</td> <td>12 "</td> </tr> <tr> <td>" 2</td> <td>Short White Bottles</td> <td>12 "</td> </tr> <tr> <td>" 3</td> <td>Double ditto</td> <td>6 "</td> <td></td> </tr> </table> </td> </tr> <tr> <td>" 1</td> <td>Long Green Flasks ..</td> <td>12 "</td> </tr> <tr> <td>" 2</td> <td>Short White Bottles</td> <td>12 "</td> </tr> <tr> <td>" 3</td> <td>Double ditto</td> <td>6 "</td> </tr> </table>	No. 0	Short White	24 bottles	} to One Dozen.	<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">No. 4</td> <td style="width: 35%;">Wickered Bottles (small)</td> <td style="width: 10%;">8 bottles</td> <td rowspan="3" style="width: 10%; vertical-align: middle;">} to One Dozen</td> </tr> <tr> <td>" 1</td> <td>Long Green Flasks ..</td> <td>12 "</td> </tr> <tr> <td>" 2</td> <td>Short White Bottles</td> <td>12 "</td> </tr> <tr> <td>" 3</td> <td>Double ditto</td> <td>6 "</td> <td></td> </tr> </table>	No. 4	Wickered Bottles (small)	8 bottles	} to One Dozen	" 1	Long Green Flasks ..	12 "	" 2	Short White Bottles	12 "	" 3	Double ditto	6 "		" 1	Long Green Flasks ..	12 "	" 2	Short White Bottles	12 "	" 3	Double ditto	6 "	<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">No. 4</td> <td style="width: 35%;">Wickered Bottles (small)</td> <td style="width: 10%;">8 bottles</td> <td rowspan="3" style="width: 10%; vertical-align: middle;">} to One Dozen</td> </tr> <tr> <td>" 5</td> <td>Ditto (medium)</td> <td>4 "</td> </tr> <tr> <td>" 6</td> <td>Ditto (large)</td> <td>2 "</td> </tr> </table>	No. 4	Wickered Bottles (small)	8 bottles	} to One Dozen	" 5	Ditto (medium)	4 "	" 6	Ditto (large)	2 "
No. 0	Short White	24 bottles	} to One Dozen.		<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">No. 4</td> <td style="width: 35%;">Wickered Bottles (small)</td> <td style="width: 10%;">8 bottles</td> <td rowspan="3" style="width: 10%; vertical-align: middle;">} to One Dozen</td> </tr> <tr> <td>" 1</td> <td>Long Green Flasks ..</td> <td>12 "</td> </tr> <tr> <td>" 2</td> <td>Short White Bottles</td> <td>12 "</td> </tr> <tr> <td>" 3</td> <td>Double ditto</td> <td>6 "</td> <td></td> </tr> </table>	No. 4	Wickered Bottles (small)	8 bottles		} to One Dozen	" 1	Long Green Flasks ..	12 "	" 2	Short White Bottles	12 "	" 3	Double ditto	6 "																				
No. 4	Wickered Bottles (small)	8 bottles			} to One Dozen																																		
" 1	Long Green Flasks ..	12 "																																					
" 2	Short White Bottles	12 "																																					
" 3	Double ditto	6 "																																					
" 1	Long Green Flasks ..	12 "																																					
" 2	Short White Bottles	12 "																																					
" 3	Double ditto	6 "																																					
No. 4	Wickered Bottles (small)	8 bottles	} to One Dozen																																				
" 5	Ditto (medium)	4 "																																					
" 6	Ditto (large)	2 "																																					

JOHANN MARIA FARINA,
Opposite the Julichs Place.

Cologne.

JEANGARD, GAZAN & DOUMIN

Distillers and Importers,

13 St. Mary Axe,

LONDON, E.C.

Head Distillery at
CANNES (France).



Trade Mark

Telegrams: "JEANGARD LONDON."

Telephone Number, 1955, Avenue.

WHOLESALE.

ESSENTIAL OILS

OF ALL KINDS.

MUSK, CIVET, AMBERGRIS, ATTAR-OF-ROSE.

Natural Concentrations of Flowers.

POMADES, FLORAL EXTRACTS,

ROSE AND ORANGE WATER.

Ess. Oils of Lemon, Orange & Bergamot.

NEW SEASON

SPIKE, THYME, LAVENDER, AND ROSEMARY.

**FRANCH DISTILLERIES in the Alps for Peppermint
and Lavenders.**

Also in Africa and Bourbon for Geranium.

STOCKS KEPT IN LONDON OF ALL STANDARD QUALITIES.

W. J. BUSH & CO.

(LIMITED),

Distillers of Pharmacopœia and other

Essential Oils

The following are amongst the most important :—

DISTILLED AT HACKNEY.

OIL OF ALMONDS
 " CARDAMOMS
 " CARAWAY
 " CINNAMON
 " CLOVES
 " CUBEBS
 " DILL
 " ORRIS
 " PATCHOULI
 " SANDAL WOOD

DISTILLED AT MITCHAM.

OIL OF CAMOMILES
 " LAVENDER
 " PENNYROYAL
 " PEPPERMINT
 " ROSEMARY

DISTILLED AT GRASSE.

OIL OF EUCALYPTUS
 " GERANIUM
 " NEROLI
 " ROSEMARY
 " THYME

PRESSED AT MESSINA.

OIL OF BERGAMOT
 " LEMON
 " ORANGE

Direct Importers of all other Essential Oils.

SOLE VENDORS FOR THE ENTIRE WORLD

OF ALL

SYNTHETIC & ARTIFICIAL PRODUCTS

MANUFACTURED BY

Société Anglo-Française des Parfums Perfectionnés, Limited

AUBEPINE (Mayblossom)
 Powder, Liquid.

CEILLET (Carnation)

COUMARIN (Tonquin)

GARDENIA

HELIOTROPINE

OIL OF LEMON (Synthetic Terpeneless S.A.F.)
 MUGUET (Lily)

NEROLIN (Orange Flower)

OIL OF ROSES

ROSE MOSS ROSE TEA

TERPINEOL

VANILLIN.

Works at { ASH GROVE, HACKNEY; MITCHAM, SURREY; GRASSE
 FRANCE; MESSINA, SICILY.

*Head Offices and Warehouses—***ARTILLERY LANE, BISHOPSGATE, LONDON.**

WHOLESALE TRADE ONLY.

STAFFORD ALLEN & SONS

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

AND

DISTILLERS OF ESSENTIAL OILS,

7 COWPER STREET, FINSBURY, LONDON, ENGLAND

EXPRESSED OILS

ALMOND (Ol. Amygd. Dulc.)

PEACH KERNEL (Ol. Amygd. Persic. Dulc.)

Frequently imported as Ol. Amygd. Erot.

CROTON

ESSENTIAL OILS

ALMOND

ANISEED

BUCHU

CARAWAY

CARDAMOM

CELERY

CINNAMON

CLOYE

CORIANDER

CUBEB

CUMMIN

DILL

JUNIPER

NUTMEG

ORRIS ROOT

PEACH KERNEL

PEPPER

PIMENTO

SANDAL WOOD

AND OTHERS.

HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."

GEORGE ALLEN & CO.

(ESTABLISHED 1848),

AMPTHILL, BEDFORDSHIRE, ENGLAND,

MANUFACTURING CHEMISTS,

Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.

London Agents—STAFFORD ALLEN & SONS.

CLAUDE RAYNAUD & CO.

GRASSE, FRANCE.

**Raw Materials for PERFUMERY, ESSENTIAL OILS,
CONCENTRATED FLORAL EXTRACTS,
FLAVOURING ESSENCES for CONFECTIONERS ("DELICIOSA" BRAND),
COMPOUND PERFUMES for SOAPMAKERS.**

F. DUBOC, Sole Agent for the United Kingdom. DUNEDIN HOUSE, BASINGHALL AVENUE, LONDON. C

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

(ESTABLISHED HALF A CENTURY),
MANUFACTURING PHARMACEUTICAL CHEMISTS,
Distillers of Essential Oils and Cultivators of Medicinal Plants,
HITCHIN, near LONDON.

SOLID & LIQUID EXTRACTS.
EXPRESSED JUICES.
ESSENTIAL OIL OF LAVENDER.
ESSENTIAL OIL OF PEPPERMINT.

SPECIALITIES:-

SCAMMONY RESIN.
JALAP RESIN.
ELATERIUM.
MERCURIAL PILL & OINTMENT.

ALOIN. | EUONYM
LEPTANDRIN.
DRIED MEDICINAL LEAVES
ENGLISH DANDELION FOT

All Standardised Preparations of the British Pharmacopoeia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition 1867.

"Sells Like Ripe Cherries."

GRANT'S VIOLETTE DE PARME

The Sweetest of Sweet Perfumes.

All the Rage, and undoubtedly the Hit of the Season. Write for Quotations.

SOLE WHOLESALE AGENTS—

F. SCHUTZE & CO., 369 Aldersgate Street, LONDON, E.C.

Wm POPPELREUTER, MANCHESTER
TERPENELESS CONCENTRATED
non-clouding ESSENTIAL OILS.
HEINRICH HAENSEL'S
Unequaled Speciality.

TERPENELESS OIL OF LEMON
TERPENELESS OIL OF ORANGE

30 times concentrated; the most soluble, best keeping
Natural Oils extant! Save Alcohol!

JAMES BURROUGH, **S.V.R.**

CALE ST., CHELSEA, S.W.
and Methylated Spirit
AT LOWEST PRICES.
WRITE FOR QUOTATIONS.

S. Sainsbury's



1/3

5/-

ESTABLISHED OVER

2/6

8/-

HALF A CENTURY

3/9

15/-

Lavender Water

A Long Lasting Perfume of great strength & refinement. Prepared from English Lavender Flowers & most choice & delicate scents. No Foreign Lavender is ever employed in the preparation of S. Sainsbury's Lavender Water.

S. Sainsbury's Rose-Violet.

For particulars see page 85 of THE CHEMIST AND DRUGGIST Summer Number, July 31, 1897.

BRACER, 356 CITY ROAD, LONDON, E.C.,

SOLE AGENT FOR

BERGMANN & CO, DRESDEN,

PERFUMERS AND TOILET SOAP MANUFACTURERS.

SPECIALITIES:

N 406, White and Rose Soap, 3 ounces each piece	..	per gross	13/-
416, White Almond Soap, 3 " " in tin-foil paper	..	"	16/-
417, Ditto ditto 4 1/2 " ditto ditto	..	"	27/-
496-8, Lanolin, Glycerin, Vaseline, superfatted Soap	..	"	15/6
412, &c. " Cold Cream	..	"	16/6
411, Best Flower Toilet Soap, 3 1/2 ounces, oval shape, in different scents	..	"	17/6
458, Ditto ditto ditto flat shape ditto	..	"	17/6
458A, Ditto ditto 3 ounces, ditto ditto	..	"	16/-
B 458, MILK COMPLEXION SOAP, 3 1/2 ounces each piece	..	"	17/6
B 458, MILK COMPLEXION SOAP, IN BALLS..	..	from 19/-	to 25/-
D 458, EXTRACT PERFUME, in bottles of 13 ounces weight, in all scents	..	"	6/-

Perfume in neat bottles from 1/6 per dozen upwards. Also Soaps and Creams at lower and higher prices. Also, as advertised in different papers, Bergmann's Lily-Milk Soap, sale price, 6/7. per piece.

SPURWAY & CO.

Perfume Manufacturers,

CANNES-GRASSE, FRANCE.

ESTABLISHED 1820.

GOLD MEDALS - Philadelphia, 1876; Cannes-Grasse, 1893; Nice, 1884.

FRENCH ESSENTIAL OILS,

PURE OLIVE OILS, POMADES, &c.

SPECIALITY - Finest Quadruple Extracts of inimitable and lasting fragrance.

London Branch - 184 SHAFTESBURY AVENUE, W.C.

CACHOU DE LUXE.

QUICKEST SELLING CACHOU EVER MADE.

SELLS AT TASTE!

1/- PER GROSS OF 3d. PACKETS.

PAY NO MORE.

Made to any Flavour in quantities.

From any Wholesale House; failing this write direct to

T. W. CARMICHAEL,

158 New Bond Street, LONDON, W. [1]

4 in. by 2 1/4 in. Show Card in 6 colours given with each order of one dozen boxes of "Luxuria" Bath Tablets, or 1/2 gross "Cachou de Luxe."

BRECKNELL'S PRIZE MEDAL.

Recommended by Eminent Medical Men. **SKIN** Soap. Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class soaps, and is altogether the best extant for producing a Clear and Healthy Skin.

SOAP.

The longer it is kept the more it improves and increases in value. LIBERAL TERMS TO THE TRADE.

BRECKNELL, TURNER & SONS, LIMITED.

To Her Majesty, &c., &c.

31 HAYMARKET, LONDON.

ESTABLISHED 1862.

Important to the Trade

95/6 High Holborn, W.C.,
17th July, 1897.

From 1st August, 1897, we have decided to allow our best terms upon all **CASH** Orders of **£2** (net) when accompanied with remittance.

This condition will be strictly adhered to, and in no case will orders be executed on these terms without Cash with Order.

We will also send to all new customers, with their first order, one of our handsome framed Show Cards (produced in 20 colours), together with 1,000 Counter Bills with name and address printed at foot.

EDWARDS & CO.

THE GREAT
HAIR PRODUCER
AND
RESTORER.

THE VERY
FINEST
DRESSING.

SPECIALLY
PREPARED
AND
PERFUMED
FOR
TOILET USE.

EDWARDS' "HARLENE"

FOR THE HAIR.

PRICE LIST.

No. 1 size,	Retail,	1/-;	Wholesale,	11/-	per dozen.
" 2 "	" "	2/6;	" "	27/3	" "
" 3 "	" "	4/6;	" "	47/-	" "

Full discount of 20 per cent. off trade prices to all buyers of £5 and upwards.

TERMS—Monthly Accounts Prompt.

Full discount of 20 per cent. off trade prices to all buyers of £2 (net) Cash with Order.

THE WORLD-
RENOWNED
REMEDY FOR
BALDNESS

HAS
THE HIGHEST
HONOURS AND
LARGEST SALE

IN THE WORLD
OF ANY
PREPARATION
FOR THE HAIR

IT IS WITHOUT
A RIVAL.

EDWARDS' "HARLENE" CO., 95 and 96 High Holborn, LONDON, W.C.

JAKSON'S

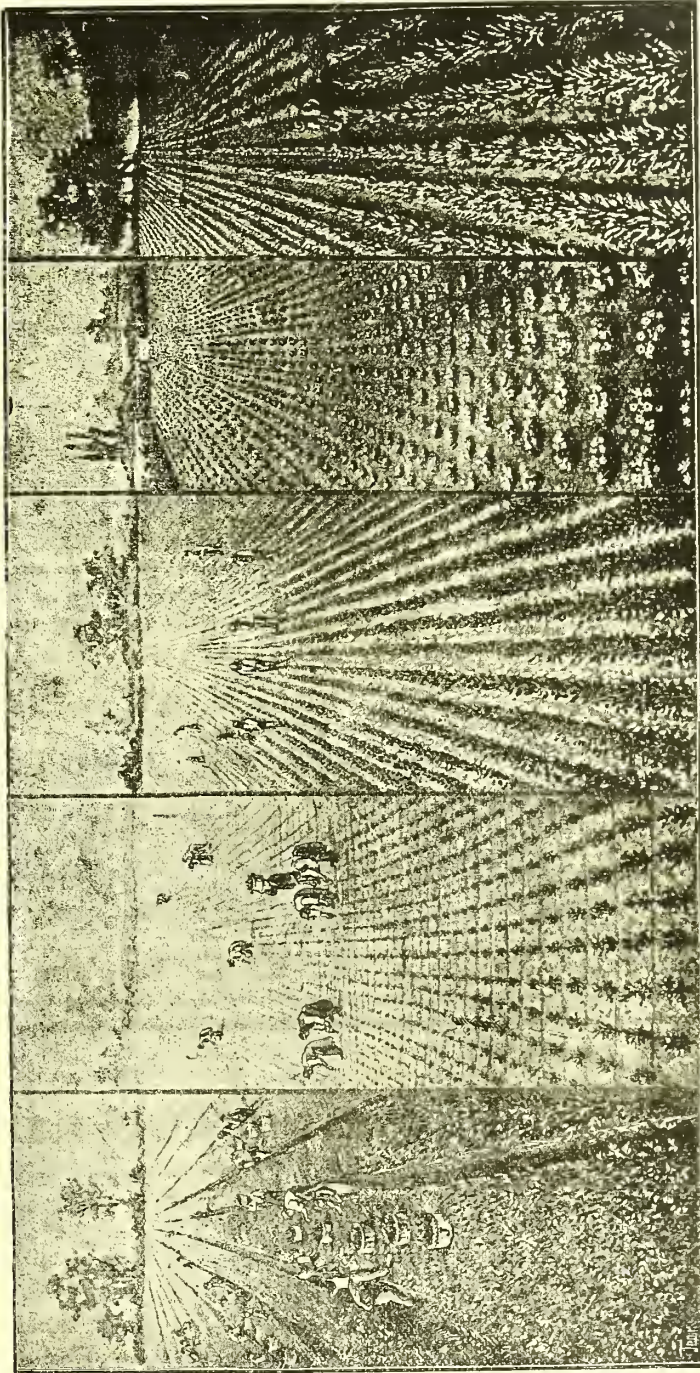
MITCHAM LAVENDER OIL.

THE BEST IN THE MARKET.

HIGHEST AWARDS AT PRINCIPAL EXHIBITIONS. 6 Gold, Silver, and other Medals awarded—Milan, 1880; Paris, 1885; Liverpool, 1886; Paris, 1889; Antwerp, 1885; London, 1890. Lyons Universal Exhibition, 1894—"Hors Concours" Member of Jury.



WEEDING PEPPERMINT. TRANSPLANTING PEPPERMINT. HOING PEPPERMINT. A CAMOMILE FIELD. CUTTING LAVENDER.



VIEWS OF JOHN JAKSON & CO'S MITCHAM HERB FIELDS.
SAMPLES OF ESSENCES OF 1897 CROP SENT ON APPLICATION.

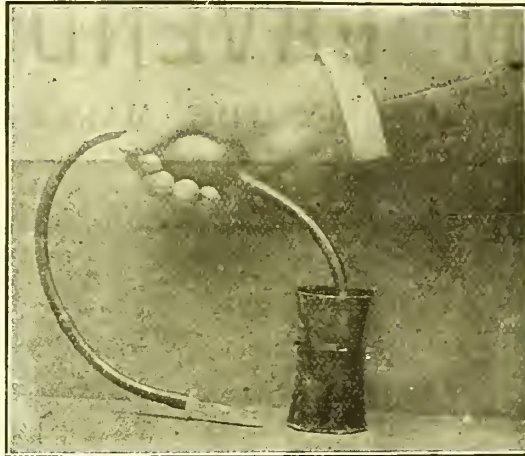
JAKSON & CO., MITCHAM DISTILLERIES, MITCHAM ROAD, CROYDON.

DR. PARKER'S PATENT ANCHOR ENEMA

MADE IN BEST BLACK
RUBBER, MOULDED.

The Patent Anchor holds the Enema firmly in position when in use, leaving both hands free and effectually preventing the possibility of air being drawn inside the Enema instead of the fluid.

ANCHORS with VALVE ATTACHMENT, which can be readily fitted to any Enema, can be had separately.



Sole Manufacturers—

WM. CURRIE & CO

CALEDONIAN RUBBER
WORKS,

EDINBURGH.

London Address—

3 FALCON SQUARE

WOOD STREET, E.C.

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES

To be had of all Surgical
Instrument Makers
and Wholesale Houses.



To be had of all Surgical
Instrument Makers
and Wholesale Houses.

SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOW.

PROTECTIVE LINT

TELEGRAMS

"LINT LIVERPOOL."



WORKS:

MARK ST. MILLS, LIVERPOOL

THE LIVERPOOL LINT CO.

PRICE LISTS ON APPLICATION.

SOLPORT BROS.,

66 SHAFTESBURY STREET,
NEW NORTH ROAD,
LONDON, N.

ESTABLISHED 1857.

Telegrams: "SOLPORT LONDON."

MANUFACTURERS (Wholesale & Export) OF

- Corn, Bunion, & Court Plasters.
- Gold Beater's Skin.
- Bath and Flesh Gloves, Straps and Pads.
- Loofah Bath Gloves, Straps and Pads.
- Chest Protectors.
- Finger Stalls.
- Eye Shades.
- Vaccination Shields.
- Loofah Socks for Boots & Shoes
- Respirators, &c., &c.

SOLPORT'S "FURFELT" CHEST PROTECTORS.

THE SUSPENSORY BANDAGE

TO RECOMMEND IS

The "SYRACUSE,"

With SELF-ADJUSTING LOOP at back of Pouch.

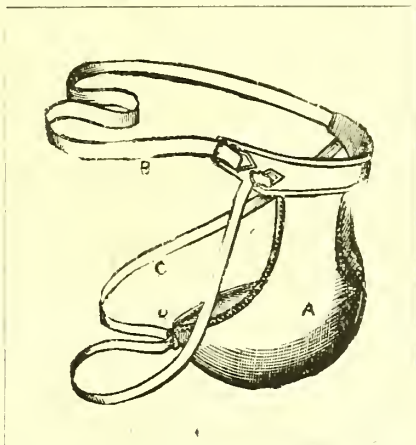
(PATENTED IN ENGLAND.)

HAS THE
LARGEST SALE
OF ANY
SUSPENSORY BANDAGE
IN THE STATES.

3 Sizes, Large, Medium, & Small.

Made in Seven Qualities, to
suit all Markets.

Each Bandage is carded separately
with Printed Guarantee.



Each Bandage bears a
Guarantee to give satisfac-
tion to Wearer, or
money returned at our
expense.

COTTON POUCHES.

Nos. 10	16	21
6/6	12/-	18/- per doz

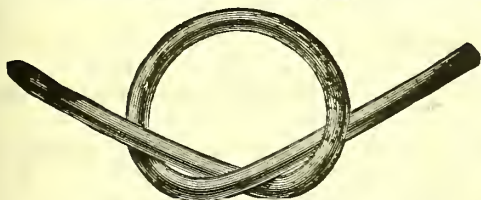
SILK POUCHES.

Nos. 26	31	34	36
24/-	30/-	48/-	72/- per doz.

We call attention to the fact that our Bandages are advertised in all the leading Athletic papers, and are largely used by Athletes of all kinds. We would strongly recommend all Chemists who require a first-rate Bandage, and who wish to give satisfaction to their Customers, to hold stock, which will enable them to supply our Bandages when asked for.

May be obtained from all leading Druggists' Sundries Houses throughout the Country, or from the

WELLS MANUFACTURING CO. (H. C. Quelch), LUDGATE SQUARE, LONDON E.C.



"NON PLUS ULTRA"

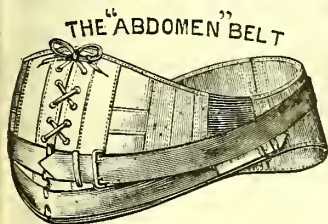
CATHETERS and BOUGIES

WARRANTED WOVEN EYES. SOLID ENDS, VERY
FLEXIBLE AND STRONG WEB.

Cylindrical	.. .. .	7 6 per dozen.
Conical	.. .. .	8 6 "
A Boule or Olive pointed	.. .. .	9 6 "
A Coudée or Mercier	.. .. .	15 - "

Large Discount for Wholesale Buyers.

R. MANSON, 75 Fortess Road, Kentish Town, LONDON, N.W.



THE "ABDOMEN" BELT

VINCENT WOOD,

Manufacturer
on the Premises of
**SURGICAL ELASTIC
HOSIERY**
TRUSSES
of every description,
Abdominal and Riding Belts,
Suspensory Bandages,
Chest Expanding Braces
and Surgical Appliances
generally.

Telephone No. Hop 4542
Telegrams—"Acme London."
ESTABLISHED 60 YEARS.

SPECIAL FEATURE SPECIAL ORDERS BY RETURN.

NEW SAMPLES ON VIEW AT

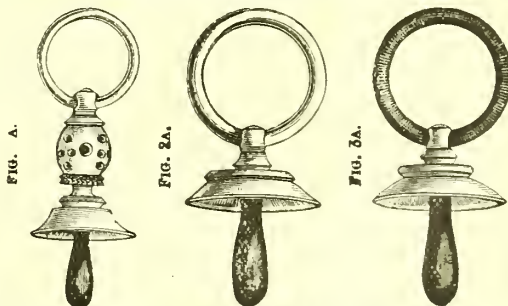
Victoria House, Albion Place, Blackfriars Bridge, London.
Steam Factories—Nottingham and Carlton.

NOTICE.—Our Reduced Prices for Soothers will be maintained.
Retail at 2d., 3d, 4d, 6d., and 1s. each.
Price Lists on application.

'THE LILY.'

LATEST IMPROVEMENTS.

Figs 1A, 2A, and 3A, with Patent Unbreakable Ring and
**CONCAVE SCREW SHIELDS, TEAT and
SHIELD SECURELY FIXED.**



"Concave Shields," Invented and Regis-
tered by T. E. Marriott.
Retail at 6d. & 1/- Other Patterns supplied as usual.

PATENTEES AND MANUFACTURERS—

E. MARRIOTT & CO.
HASTINGS, England.

DISPLAY CASES OF ST. PANCRAS PAINTING BRUSHES.

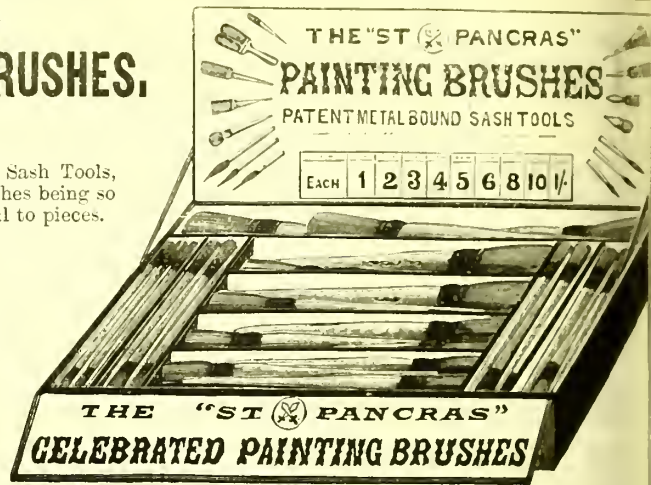
"S" Cabinet

Contains our "S" Quality Patent Metal Bound Sash Tools, which are made on an improved principle, the Brushes being so securely put in that it is impossible for them to fall to pieces.

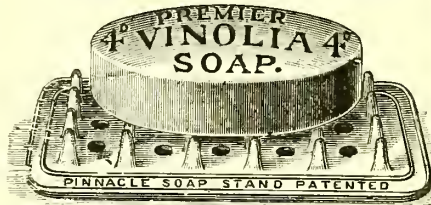
The following assortment is in each case:—

No. on Brush	...	2	4	6	8	10
Retail Price	...	1d.	2d.	3d.	4d.	5d.
Quantity in dozens		2	2	2	1	1
No. on Brush	...	12	14	16	18	
Retail Price	...	6d.	8d.	10d.	1/-	
Quantity in dozens		1	1/2	1/2	1/2	

Case of 10 1/2 doz., Complete ... 27/-



"PINNACLE" SOAP STAND.



Being made of best rubber, it is almost indestructible, and will last for years. It is made in three shapes, to fit any soap-dish, or can be used on lavatory slab or bath without dish.

Each in a box, oblong, round, or oval.
Retail 1/- each Per dozen, 8/-.

BROOKE'S SOAP, MONKEY BRAND.



My friends know well my name is BROOKE, but yet on every hand, In sportive familiarity, they call me "OLD MONKEY BRAND!" And when they see me avertise, in various champs of soaps, They smile as they remember that I WONT WASH CLOTHES!

Cases of 100 Large Bars ..	..	..	..	..	25/-
" " " " " " " " " " " "	..	..	..	..	15/-
Boxes of 48 Half-bars ..	..	..	..	..	6/3

Free London or Bristol.

If any difficulty in obtaining in any part of the world, write—

Sole London Consignees,

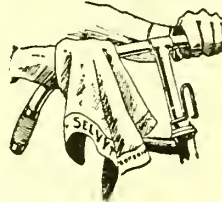
FORDHAMS, LONDON, N.

"SAFE BOILING" STOVE MAT.



Foods cooked on these Mats will not boil over, or burn in any way. Price reduced to 2/- per doz.

"SELVY" CLOTHS.



Nos.	A	B	C
Sizes.	10 1/2 x 10 1/2,	14 x 14,	17 1/2 x 14
Per doz.	2/3	3/9	4/11
Nos.	D	E	F
Sizes.	21 x 17 1/2,	21 x 20,	28 x 28
Per doz.	6/11	8/9	15/9

"MAGIC" PHOTORET.

EASILY CARRIED



IN THE POCKET.

Equal in size and appearance to a gentleman's watch, fitted with fine lens. Takes six pictures without changing films. Complete with box of extra films, sufficient for 36 Pictures. Per doz., 60/-.

GUM ARABIC.



In Window or Stock Boxes containing 28 lbs. Per Box, 17/6. Less quantities at 8d. per lb.

PINK GELATINE Per lb.
AMBER

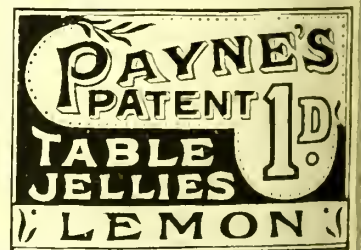
LEWIS' PATENT CHAMBERINE COVERS



Should be in use in every Household and Institut in the Kingdom.

Recommended by the highest Medical Authorities and Journals.

Per dozen



We are the Wholesale Agents for London and South of England for this now popular Brand Jellies, and are in a position to supply any quantity from a large stock.

Made in many different flavours. All pure. Per gross

W. B. FORDHAM & SONS, LD., 36-40 YORK ROAD, LONDON, E.C. 4
Telegrams—"FORDHAMS LONDON." TELEPHONE, 7514. ESTABLISHED 1825.

ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

Table with 4 columns: Advertiser Name, Foot of Page, Advertiser Name, Foot of Page, Advertiser Name, Foot of Page, Advertiser Name, Foot of Page. Includes entries like 'Accington Surgical Appliances', 'Dussek Bros.', 'Knowles & Phillips', 'Sanitas Company (Lim.)', etc.

CLASSIFIED LIST OF ALL ADVERTISERS

Table with 4 columns: Category, Advertiser Name, Category, Advertiser Name, Category, Advertiser Name, Category, Advertiser Name. Includes categories like 'ADDS', 'ADVERTISING SPECIALTIES', 'ART & MINERALS', 'BATH & FLESH GLOVES', 'BATH SALTS', 'BEESWAX', 'BOTTLES', 'BUNSEN BURNERS', 'BUTTER COLOR, &c.', 'CAPSULES', 'CHECK TILLS', 'CHEST PROTECTORS', 'CARBOLIC ACID', 'CHLOR. OF LIME', 'CERESINE WAX', 'CHALK, PRECIP.', 'CHEMICALS', 'COCAINE-HYDRO.', 'COCA WINE', 'COCOA & CHOCOLAT', 'COLLAPSEIBLE TUBES'.

COD-LIVER OIL
Allen & Hanbury's
Burroughs, Wellcome & Co.
Cuthbert, R.
Davies, Gibbins & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Freudenthal & Co.
Harker, Stagg & Morgan
Hill, A. S., & Son
Kemp & Son
Lofthouse & Saltmer
Lorimer & Co.
Moss, J., & Co.
Morrison, R., & Co.
Oppenheimer, Son & Co., Ltd.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Scott's Emulsion
Stevenson, H. E., & Co.
Wright, Layman & Umney

COMP. MEDICINS
Allen & Hanbury's
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

CONCENT. LIQES
Bales Brod. & Co.
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co.

CONFECTIONERY
Gibson & Sons
Guest, T. & Co. | Hillaby, J.

COKES
Brinrose & Cobb

CORN CURES
Beetham & Sons
Gardner, C. Potter & Clarke

COTTON WOOL
Robinson & Sons (Absorbent)

CRSD LINSSED
Evans, Gadd & Co.
Mumford, G. S.

CYDER
Symons, J., & Co., Ltd.

DETERGENTS, &c.
Beecham, T.
Bronnley, H., & Co.
Hovenden & Sons
Jewsbury & Brown
Stevens, F., & Co.
Sutton, O., & Co.
Woods, W. (Arecia Nut)

DENTISTRY
Browning, A. J.
Fentiman, A. G.
Fentiman & Co.

"DIMATOS"
Sothall Bros. & Barclay

DISINFECTANTS
Galsert, F. C., & Co.
Zossek Bros.
Fletcher, Brin, & Co.
Formalin Hygienic Co., Ltd.
Government Sanitary Co.
Granville, A., & Co.
Hobden, W. C., & Co.
"Ivez" Sanitary Compounds Co.
Kay Bros., Ltd.
Kuhn, B. (Chinosol, Kresochine)
Mackey, Mackey & Co.
May & Baker, Ltd.
National Chemical Co.
"Nestor" Sanitary Fluid Co.
Read, Hollday & Co.
Sanitas Co., Ltd.
Steele, J. C., & Co.
Tuson's Disinfectants Co., Ltd.
Tyrer, T., & Co.
United Alkali Co., Ltd.

DOG MEDICINES
Lloyd, T. Howard
Spratt's Patent, Ltd.

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Ltd.
Bentley, E., & Son
Bleasdale & Co., Ltd.
Burge, Warren & Ridgley
Currie, Wm., & Co.
Dallley & Wilkinson
Cartwright, A. S.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Ltd.
Hovenden & Sons
Kay Bros., Ltd.
Marshall's, Ltd.
Maw, S., Son & Thompson
Mose, B. F., Ltd.
Newbery, F., & Sons
Potter & Sacker
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Southall Bros. & Barclay
Tidman & Son | Toogood, W.
Wood, Vincent

DRUGS
Allen, S., & Sons (Grinders)
Bleasdale & Co., Ltd.
Davies, Gibbins & Co.
Dieterich, Eugen
Kuhn, B.
Lofthouse & Saltmer
Oppenheimer, Son & Co.
Phillips & Co. (Grinders)
Poppelreuter, W.
Stevenson, H. E., & Co.
Wyles, Ltd.

DYES
Ayrton & Saunders
Maypole Soap Co., Ltd.

EAU DE COLOGNE
Fattori & Co.
Gretner G.
Mahlens F. | Van Oppen & Co.

ECZEMA
Cullwick's Specialties

ENGRAVERS
Corran, J. R.

EMBROCATIONS
Bow's Liniment
Day & Sons
Elliott, Sons & Co.
Harvey & Co.
Tuson's Disinfectants Co., Ltd.

ENEMAS
Evans, Sons & Co.
Currie, Wm., & Co.
Lynch & Co., Ltd.
Sanger & Son | Wood, Vincent

ESSENCES
Boulton, J., & Co., Ltd.
Bovril, Ltd. (Beef)
Brady & Hinchliffe, Ltd.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Co.
Goodall, Backhouse & Co.
London Essence Co.
May & Baker, Ltd.
Newball & Mason
Stevenson & Howell
Todd, A. M.
Tyrer, P. (Anchovies)
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, S., & Sons
Blackwell, Hayes & Spillsbury
Brom, Fredk.
Bush, W. J., & Co.
Evans, Sons & Co.
Frankenstein, S. M., & Co.
Jackson, J., & Co.
Jencard, Gazan & Doumin
Lofthouse & Saltmer
London Essence Co.
May & Baker, Ltd.
Poppelreuter, W.
Ransom, Wm., & Sons
Rasmund, Claude, & Co.
Sanitas Co., Ltd.
Sozio & Andrioli
Spurway & Co.
Stevenson, H. E., & Co.
Stevenson & Howell
Todd, A. M.
Tombarel Freres
Treat, R. C. | Warrick Bros.
Wright, Layman & Umney

ETHERE
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS OIL
Drysdale, J. W., & Co.
Sanitas Co., Ltd.
Tasmanian Eucalyptus Oil Co.

EXTRACT MEAT
Armour & Co. | Brand & Co.
Liebig Co. | Liquor Carnis Co.

EXTRACTS, FLUID
Allen & Hanbury's
Allen, G., & Co.
Bleasdale & Co., Ltd.
Burgoyne, Burbidges & Co.
Davies, Gibbins & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son

FEED BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hovenden & Sons
Kilner Bros.
Lynch & Co. Ltd.
Marrisset, E., & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Youlden, E.

FILTERS
Berkfield Filter Co., Ltd.
Lawson Filter Co.

FLY CATCHERS
Alabastine Co. (British), Ltd.
Bleasdale, Ltd.
Ford, Shapland & Co.
Marshall's, Ltd.
Maw, S., Son & Thompson
Strong, Christy
Tunbridge & Wright
Tyrer, P.

FOOD (Infants' & Invalids')
Allen & Hanbury's
Beanes & Co.
Benger's Food
Bovril, Ltd. | Brand & Co.
Burgoyne, Burbidges & Co.
Goodall, Backhouse & Co.
Hawkeye, T. (Steriliser)
Horlick & Co.
Irving, Son & Jones
Kydze & Co.
Lazbeny & Son, Ltd.
Liebig Co. | Lorimer & Co.
Marshall's, Ltd.
Marvine, Ltd.
Mellin's Food | Nestlé, H.
Savory & Moore | Tyrer, P.
Van Oost, J. (Tibbles)

GELATINES
Boehm, F.
Frankenstein, S. M., & Co.

GINGER ALE
Brady & Hinchliffe, Ltd.
Chemists' Assn. & Mineral
Water Association, Ltd.
Ellis & Son | Hay, W., Ltd.
Mills, R. M., & Co.

GLUE
Prauer, A.
Frankenstein, S. M., & Co.

GLYCERINE
Boehm, F., Fink & Co.
Price's Candle Co., Ltd.

GRANULAR PREP.
Bishop, A., & Co.
Boulton, J., & Co.
Davies, Gibbins & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard & Co.
Lofthouse & Saltmer
Tyrer, T., & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)

HAIR PREP.
Alexandre's Shadeline
Cheesbrough Co.
Edwards & Co.
Thellay, E. H.

HERB BEER EXTS.
Adams, B.
Newball & Mason
Potter & Clarke

HOMEOPATHIC
Keene & Ashwell
Leath & Ross
Watson & Wates

HYPOPHOSPHES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co.
Krohn & Sesemann
Lynch & Co. Ltd.
Sanitas Co., Ltd.

INSECTICIDES
Barclay & Sons, Ltd.
Bleasdale, Ltd.
Fleming's Oil & Chemical Co., Ltd.
Jackson, T.
Rudkin's Moth Bricks
Sandford & Son
Sanitas Co., Ltd.
Tunbridge & Wright

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

LARD
Ewen, J., & Sons

LAVENDER WATER
Jackson, J., & Co.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Robinson & Sons

LIQUORICE
Evans, Sons & Co. (Savarin)
Frankenstein, S. M., & Co.
Hillsby, J.
Lorimer & Co.
"Solazzi"

LIQUORS
Blackwell, Hayes & Spillsbury
Davies, Gibbins & Co.
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co., Ltd.
Stevenson, H. E., & Co.

LEECHES
Fitch & Nottingham

LOZENGES
Allen & Hanbury's
Davies, Gibbins & Co.
Gibson, H., & Sons (Mantra)
Guest, T., & Co., Ltd.
Kirby, H. & T., & Co., Ltd.
Lorimer & Co.
Raines & Co.
Warrick Bros.

LUNG PRESERVES
Zimmer & Co.

MACHINERY
Bennett, Sons & Shears, Ltd.
Gardner, W., & Sons
Melin, C. | Pindar, J. W.
Werner, Pfeleiderer & Perkins, Ltd.

MAGNESIA
Bleasdale, W., & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcedin)
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRACT, &c
Allen & Hanbury's
Anderson & Co.
Blackwell, Hayes & Spillsbury
Burroughs, Wellcome & Co. (Kepler's)
Davies, Gibbins & Co.
Distillers' Co., Ltd.
Evans, Gadd & Co.
English Diastase Malt Extract Co., Ltd.
Hearon, Squire & Francis
Lorimer & Co. | Moss, J., & Co.
Oppenheimer, Son & Co., Ltd.
Parke, Davis & Co.
Raines & Co.
Raines, Clark & Co.
Robinson & Co.

MARKING INKS
Bosch (Manufact. of the late John (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MENTHOL
Ayrton & Saunders
Evans, Lescher & Webb
Maw, S., Son & Thompson
Tyrer, T., & Co.

MERCURIALS
Howards & Sons
May & Baker, Ltd.
Tyrer, T., & Co.

METH. SPIRITS, &c.
Boord & Son | Burroughs, J.
Jones & Co. | Phillips, G., & Co.
Smith, S., & Co.
Warron, A., & J.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Evesham, W. (Sterilised)
Horlick & Co.
Nestlé, H. (Condensed)

MORPHIA
Beynon & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, &c.
Anglo American Drug Co.
Calvert Bros. & Co.
Frankenstein, S. M., & Co. (Olive, Nut, & Cottonseed)
Hooper, B., & Co. (Santalwood)

OINTMENT
Bases, &c.
Burroughs, Wellcome & Co. (Lanoline)
Cheesbrough Co. (Vaseline)
Davies, Gibbins & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.
Smith, T. F., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Tyrer, T., & Co.
White, Alfred & Sons
Willows, Francis & Butler
Woolley, Sons & Co.
Wyles, Ltd.
Zimmermann, A. & M.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

OXIDE OF ZINC
Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

PALATIN OIDS
Oppenheimer, Son & Co., Ltd.

PASTILLES
Jackson, T.

PAT. MEDCNS, &c.
Anglo-American Drug Co. Ltd.
Barclay & Sons, Ltd.
Becham, T. (Pille)
Bowie, Dr., Liniment
Charles Goods & Co. (Daisy)
"Daisy" Headache Powders
Edwards & Son
Evans, Lescher & Webb
Evans, Sons & Co.
Fennell (Powders)
Goodall, Backhouse & Co.
Gny's Tonic
Holloway (Pills and Gint.)
Hovenden & Sons
Lofthouse & Saltmer (Soc.)
May, Roberts & Co.
Newbery, F., & Sons
Richards, J. M.
Roberts & Co.

PENS
Jewel Pen Co.

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Cerebros Limited (Pepsalia)
Kuhn, B. (Pappin Finkler)
Newbery, F., & Sons (Ingluvin)
Oppenheimer, Son & Co.
Parke, Davis & Co.
Stevenson, H. E., & Co.

PERFUMERY, FANCY SOAPS
Barclay & Sons, Ltd.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Braker, L.
Erickson, T. F., & Co.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. J., & Co.
Carmichael, M. W.
Cheesbrough Co.
Cook, E., & Co.
Corbyn, Stacey & Co.
Evans, Gadd & Co.
Evans, Sons & Co.
Gardner, J., & Sons | Farina, J. M.
Frankenstein, S. M., & Co.
Hovenden & Sons.
Lanoline
London Essence Co.
Lynch & Co., Ltd.
Moise, B. F., Ltd.
Mulhens, F.
Newbery, F., & Sons (Berdoes)
Peas, A., & Co.
Price's Patent Candle Co.
Sainsbury, S.
Sanitas Co., Ltd.
Schutze, F., & Co.
Sharp Bros. Soap & Perfumery Co. Ltd.
Sinclair, Jas., & Son
Tidman & Son | Treat, B. C.
Truebitt, H. F., Ltd.
Van Oost, J. (Tibbles)
Warrick Bros.
West, T. (Glell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEPPERMINT OIL
Bosch, W. J., & Co.
Jacks & Co.
Ransom, W., & Son
Stevenson & Howall
Todd, A. M.

PEROX. OF HYD.
May & Baker, Ltd.
Robbins & Co.
Sanitas Co., Ltd.
Tyrer, T., & Co.

PESSARIES
Rendell, W. J.

POTROLEM JELL
Allen & Hanbury's
Christy, T., & Co.
Lee Oils Co., Ltd.
Snowdon, Sons, & Co. (Gall)

PHARM. PREPS.
Allen & Hanbury's
Armour & Co. | Bales Bro
Baron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Ltd.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Dieterich, Eugen
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Forris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewitt & Son
Howards & Sons
Kuhn, H.
Lee Oils Co. | Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
May & Baker, Ltd.
Moss, J., & Co.
Oppenheimer, Son & Co., Ltd.
Parke, Davis & Co.
Potter & Clarke
Richards, J. M.
Roberts & Co.
Smith, T. F., & Co.
Squire & Sons
Stevenson, H. E., & Co.
Tyrer, T., & Co.
White, Alfred & Sons
Willows, Francis & Butler
Woolley, Sons & Co.
Wyles, Ltd.
Zimmermann, A. & M.

PHOTOGRAPHIC X RAY, &c.
Barclay & Sons, Ltd.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Butcher, W., & Son
Cox, H. W.
Darton, F., & Co.
Evans, Sons & Co.
Howards & Sons (Chemical)
Lockyer, J. E.
Mackey, Mackey & Co.
Maxwell, Jacey & Co.
Raphael, J., & Co.
Reynolds & Branson
Ross, Ltd.
Thornton-Pickard Co.
Tyrer, T., & Co.
Lofthouse, Alfred & Sons
Woolley, J., Sons & Co.
Zimmermann, A. & M.

PILL MACHINES
Bennett, Sons & Shears
Pindar, J. W.
Toogood, W. (Castor)

PILLS, Coated, &c.
Allen & Hanbury's
Beecham, Thomas
Bleasdale & Co., Ltd.
Boz, W. H.
Cox, Arthur H., & Co.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Hill, A. S., & Son | Holloway
Kirby, H. & T., & Co., Ltd.
McCleson & Robbins
Parke, Davis & Co.
Ray's Medicine Co.
Scottish Sugar-coated Pill
Scott's, Dr.
Wand, H. (Pearl Coated)
Warner, W. B., & Co. (Coak)
Wyles, Ltd.

PLASTERS
De St. Dalmas, A.
Evans, Sons & Co.
Seabury & Johnson
Solipros (Coak)

POLISHING
Bradley & Bourdas (Albato)
Diamond Emery Co.
Fordham, W. B., & Sons, Ltd.

PORCELAIN ODS
Toogood (E.C. Pots, redgl.)

POULTRY FOOD
Spratt's Patent, Ltd.

PRINTING
Dowers Bros.
Corran, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waide
Silverlock, H.
Townsend, J.

QUININE SALT
Boehringer, C. F., & Sohne
Howards & Sons
Smith, S., & Co. (Wies)
Zimmermann, A. & M.

ANNET
nean, Flockhart & Co.
Ormer & Co.
Miller & Co.
Tomlinson & Hayward

FEBBER GOODS
owell & Barstow

ALICIN
ofarlan & Co.
mith, T. & H., & Co.

ALICYLIC ACID
urgoyne, Burbidges & Co.
Immermann, A. & M.

AVICES, PICKLES
odall, Backhouse & Co.
aw, S., Son & Thompson
yer, F.

HOOLS, & C.
entral (Edinburgh)
ity School (Skerry's)
avis, F.

aves, A. H.
lago School of Pharmacy
lago University
lverpool School
lancheater Col. of Pharmacy
tropolitan Col. of Pharmacy
ort of England School
ltern College of Pharmacy
wens College (Med. Dept.)
wens College (Pharm. Dept.)
oyal Dispensary (Edinburgh)
t. Mary's Hospital
hfield College of Pharmacy
outh London School of
Pharmacy, Lim.
Westminster College

CIENTIFIC INSTRUMENTS
arton & Co.

EA SALT
ldman & Son, Lim.

BEDS
brook, Parker & Co.
Potter & Clarke
Preston's Patent, Lim. (Bird)

EDLITZ POWDERS
Davies, Gibbins & Co.
Igra & Co. | May, Roberts & Co.

ELTOGENES
Stratby & Hinchliffe, Lim.
Ray, Roberts & Co.

ERUM
Breff, R. W., & Co.

HAVING
Jovenden & Sons (Euxels)
Lloyd, A., & Co. (A. S. Lloyd's
Euxels)

SHEEP DIP
Fletcher Bros & Co.
Harescough & Co.
Jeyes' Sanitary Compounds Co.
Kühn, B. (Kresochline
Sanitas Co., Lim.

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Josephs, C., & Co.
Josephs, Phillip
Trebble, G., & Son
Yates, W. S.

SOAP
Ayrton & Flanders
Blondeau et Cie. (Vinolia)
Bronley, H., & Co.
Cook, E., & Co.
Crosfield, J., & Sons, Lim.
Frankenstein, S. M., & Co.
Gibbs, D. & W. (Medicated)
Huggins Soap Works, Lim
Jameson, W. (Arsenic)
Jeyes' Sanitary Compounds Co.
Mackenzie's, Dr. (Arsenic)
Maypole Soap Co., Lim.
Mnhlen, F.
Pears, A. & F., Lim.
Richards, J. M.
Sanitas Co., Lim.
Sharp Bros. Soap, & Co., Ltd.
Sinclair, J., & Son
Tidman & Son
Wright, Layman & Umney

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES
Cohen, I. & M.
Cresswell Bros. & Schmits
Peterson, M., & Co.

STARCH
Critchley (Gloss)
Hadden, W. C.

STEEL BARRELS
Iron and Steel Plant Co., Lim.

STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Patent Stopper, Box, and
Stamping Co., Lim.
Stipendium Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim

SUGAR
Glebe Sugar Refining Co.
Macfie & Sons

SUGAR OF MILK
Boehm, Fredk.

SURGICAL
Accrington Surgical Appliance
Co.
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burge, Warren & Ridgley
Burgoyne, Burbidges & Co.
Eschmann Bros. & Walsh
Ferri & Co.
Galen Manuf'g Co., Lim.
Haywood, J. H.
Ickringill's Hygienic Cloth
Syndicate, Lim.
Krohne & Seesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Manson, R.
Matto, Lim.
Maw, S., Son & Thompson
Oppenheimer, Son & Co.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitas Co., Lim.
Schulze, F., & Co.
Wood, Vincent
Woodruff, T.

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aerated and Mineral
Waters Association, Lim.
Gerat, E., & Co.
Ibris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS
Beckett, W., Sons & Co.
Fletcher, Fletcher & Co.
(Liquors)
Stevenson & Howell
Volcanic Aeration Co.

TABLETS
Corran, J. R. (Advertising)
Davies, Gibbins & Co.

TEA
Tower Tea, Lim.

TEETHING PADS
Cartwright, A. S.
Marriott, E., & Co.

TINCTURES
Blackwell, Hayes & Spillsbury
Davies, Gibbins & Co.
Evans, Sons & Co.
Hawlett, C. J., & Son
Lloyd T. Howard, & Co.
Moss, John, & Co.
Parke, Davis & Co.
Wyleys, Lim.

THERMOMETERS
Ayrton & Saunders
Bailey, W. H., & Son
Darton, F., & Co.

TOBACCO & CIGRS
Albert Levy & Thomas
Singleton & Cole, Lim.

TOILET
Addis, R., & Son
Ayrton & Saunders
Beetham & Son (Lanoline)
Burroughs, Wellcome & Co.
Crosfield, J., & Sons, Lim.
Dee Oil Co., Lim.
Hovenden & Sons
Lynch & Co., Lim.
Malcolm & Co.
Maw, S., Son & Thompson
Moise, B. F., Lim. (Lim.)
Peacock's Ovaline Soap Co.
Quelch, H. C.
Sanitas Co., Lim. (Co., Lim.)
Sharp Bros. Soap & Perfumery
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
Parks, Davis & Co.
Sutton, O., & Co.
Woods, M. (Araca)

TRUCKS
Rothschild & Baker

VACCINATION
Maw, S., Son & Thompson
Vaccine Association | Lymph

VALUERS AND TENSER AGENTS
Berdoe & Co. | Brett, F. J.
Crocker, G. B., & Co.
Ferguson & Osborne
Orridge & Co.
Tomlinson, Thos., & Son

VANILLA
Pavin, Felix

VASELINE
Chesebrough Co.

VETERINARY
Bird & Storey
Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co., Leng, A., & Co.
Lloyd T. Howard, & Co.
Rookledge, F. E.
Sanitas Co., Ltd | Spratt's (Dogs)
Walker, Troke & Co.

VINEGAR
Grimble & Co.

VINOLIA Superfatt'd
Blondeau et Cie.

WEED KILLER
Acme Chemical Co., Lim.
Fletcher Bros. & Co.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT DRUGGISTS

Allen & Hanburys
Allen, S., & Son | Baisa Bros.
Barron, Harveys & Co.
Bensdale & Co., Lim.
Brook, Parker & Co. (Botanolo)
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hight
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Leecher & Webb
Farris & Co. (Graf, F.)
Goodall Backhouse & Co.
Harker, Stagg & Morgan
Hearson, Squire & Francis
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Sultmer
Macfarlan, J. F., & Co.
Potter & Clark
Raines & Co. J.
Raines, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS, BEER, &c.

Burgoyne, P. B., & Co.
Burroughs, J.
Coleman & Co., Lim.
French Hygienic Socy.
Goodall, Backhouse & Co.
Holloway, E. A.
Millar, A. & Co. (Orange)
Phillips, G., & Co. | Robinson, B.
Smith, S., & Co., Lim. (Orange)
Stevenson, H. E., & Co.
Symons, J., & Co., Lim.
Warren, A. & J.
Whitbread & Co.
Wilcox & Co.
Wright, Layman & Umney.
Wyleys, Ltd.

WM. R. WARNER & CO., PHARMACEUTICAL CHEMISTS.

SIXTEEN INTERNATIONAL PRIZE MEDALS AWARDED.

only "Grand Prix" awarded to any American Exhibit in Group 13 (Chemical Industries), Antwerp, 1894



Bromide of Sodium with Caffeine, in the Granular form. Very carefully and evenly made. Invaluable in Brain Fatigue arising from Overwork, etc. The *Lancet* (August 8, 1887, p. 265) states that "the Sodium compound does, in fact, agree better (than the potassium salt) with some stomachs."



Unequalled in their medicinal properties or in SOLUBILITY. Each pill will produce the effects expected, and an experience of thirty years, coupled with unremitting care and study, has enabled the manufacturers to achieve RESULTS OTHERWISE UNATTAINABLE.

COUNTER VASES OF PILLS, &c.

Elegant Counter Vases, of four different patterns and sizes. Prices from 4/10 upwards including 1,000 Pills. See full details in Warner's Price List.

"No. 120" is an "all round" Antibilious or Liver Pill which has found universal favour.



R. Podophyllin, 1/2 gr.; Ext. Colocynth, 1/2 gr.;	Per 1,000	Per Stoppered	Per Bottle
Pv. Soc. Aloes, 1 gr.; Pv. Scammony, 1/2 gr.;	in Plain	Vase, with	(Bulk)
Pv. Saponis, 1-8 gr.; Ext. Hyoscyami, 1-8 gr.;	Bottle	painted glass	of 5,000
Gingerine, 1-8 gr. Dose, 2 to 4.	4/-	label	6/4 17/6 34/2

The essential principle of the gizzard, and bearing the same relation to poultry that pepsin does to the higher animals. Where pepsin refuses to act, and where, in severe cases, it has even been rejected by the stomach, Ingluvin has rapidly effected relief. Per oz. Bottle (stamped), 4/6. Supplied unstamped, and in 4-oz. bottles (also in lentiforms) for Dispensing.

British Depot—**F. NEWBERRY & SONS** (Established over 150 years).

1 & 3 KING EDWARD STREET, NEWGATE STREET, LONDON, E.C.

Complete Catalogue, with Formulae, free on demand. Newberry's Annual Catalogues also contain full Details of these Preparations.

"THE LANCET" (July 3rd, 1897) on

VAN HOUTEN'S COCOA.

"In a recent analysis which we have made, the results distinctly indicate the advantage of VAN HOUTEN'S PROCESS of manufacture. Thus this Cocoa yields a decoction containing a maximum proportion of the valuable food constituents of the bean, and what is of more importance still, these are presented in a condition more easy of assimilation and digestion than in Cocoa not so prepared."

CAFÉ ZYLAK

PEPTONISED MILK AND COFFEE (Concentrated).

This new preparation of Coffee with Peptonised Milk supplies a largely felt want in the case of Invalids and delicate people. It is a most valuable addition to the condensed peptonised milk foods which have met with such complete approval from the Medical Profession.

PEPTONISED MILK

(Concentrated).

PEPTONISED COCOA AND MILK

(Concentrated).

All the above preparations are sold in tins at **1s. 6d.** and **2s. 6d.**, and are obtainable everywhere.

SAVORY & MOORE, 143 NEW BOND STREET, LONDON

Chemists to the Queen and H.R.H. the Prince of Wales.

SEASONABLE ARTICLES

All these articles are popular summer beverages, and are put up in suitable bottles attractively finished off.

LIME JUICE CORDIAL AND LEMON SQUASH.

Reputed Pints, per doz.—CORDIAL, 4/3.	LEMON SQUASH, 4/3.
Quarts, " " " 6/9	" " " 6/9
Per Gallon " " " 2/-	" " " 2/-

Also in Flat Flasks, Square Stopped Bottles, and Handsome Decanters.

PURE WEST INDIA LIME JUICE (Filtered Bright). Per gall., 2/6.

GRANULAR EFFERVESCENT CITRATE OF MAGNESIA. Per cwt., 66/- and 74/-. Also in small Bottles.

EFFERVESCENT SUMMER SALINE. Per cwt., 85/-. 8-oz. bottles, 6/9; 15-oz. bottles, 12/- per dozen.

PERSIAN SHERBET (Lemon Kali). Per cwt., 33/- and 36/-. Also in 1 and 2 lb. Bottles and Tins.

Prepared under the superintendence of a duly qualified Analytical Chemist.

FULL PRICE LIST (ILLUSTRATED) ON APPLICATION.

CHAS. SOUTHWELL & CO., Dockhead, LONDON, S.E.

38

OVER 200 GOLD MEDALS AND DIPLOMAS.

FRY'S

Pure Concentrated

COCOA

None richer in flesh-forming and invigorating constituents.



DR TIBBLES' VI-Cocoa

THE WHOLESALE PRICE.

RETAIL PRICE.			PER DOZEN.
6d. Packets (Two Dozen in a box)	...	...	5/-
9d. Tins (Two Dozen in a box)	...	...	7/6
1/6 Tins (One Dozen in a box)	...	...	15/-

DISCOUNTS.

5 per cent. Discount on Orders up to £5.
 7½ per cent. Discount on Orders for £5 and upwards.
 Terms—Cash within 7 days.

Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¼ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of DR. TIBBLES' VI-COCOA are far greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of DR. TIBBLES' VI-COCOA has been fixed as under:—

6d. Packets to be sold at not less than	5½d.
9d. Tins ,, ,, not less ,,	8½d.
1/6 Tins ,, ,, not less ,,	1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 lots and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

Furthermore, as we pay carriage on orders value £2 and upwards, it will not be possible to obtain the advantage of this concession, nor that of the exceptional discounts we offer, unless our ruling as to the "cutting" of price is complied with.

Read the foregoing, send your order to



DR TIBBLES' VI-Cocoa Ltd.,

60, 61, and 62 BUNHILL ROW, LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

THE CHEMISTS ASSOCIATED IN GENERAL AT THE ASSOCIATION LIMITED'S

FINE RECORD OF

STEADY & PROGRESSIVE GROWTH

achieved by supplying One Quality of Goods only—the best; by studying and meeting the requirements of the Trade; and by carefully looking after minutiae and details.

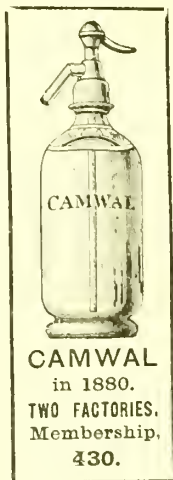
CAMWAL TABLE WATERS

are supplied to Chemists

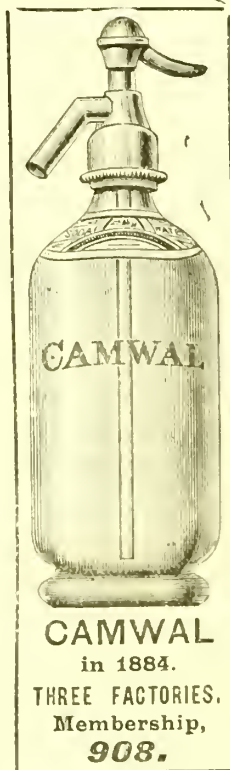
and Hospitals
only.



CAMWAL
In 1878.
ONE FACTORY.
Membership
110.



CAMWAL
in 1880.
TWO FACTORIES.
Membership,
430.



CAMWAL
in 1884.
THREE FACTORIES.
Membership,
908.



A
HISTORY
IN BRIEF OF
CAMWAL
Gold Medal
TABLE
WATERS.

CAMWAL in 1897.

SIX FACTORIES

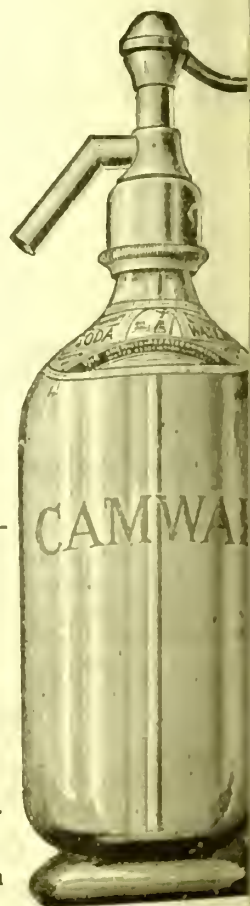
(including one now in course of erection at Birmingham).

Membership over **4,000!**

CAMWAL'S FACTORIES

London, Harrogate,
Bristol, Mitcham,
Manchester, & Birmingham

Head Office: Gifford Street, Caledonian Road, London, N.



IDRIS ROYAL TABLE WATERS

Are made by Chemists for Chemists.



Chemists

should remember that Idris & Co. do *not* supply Grocers, Stores, or Private Customers.

Idris & Co.

make their own Syphons, and guarantee absolute purity of all materials employed. Metallic contamination is an impossibility.

Chemists

will find Idris Royal Table Waters a valuable leading line, which, unlike leading lines in general, bear a substantial profit—and attract customers.

Idris & Co.

give their customers every assistance in increasing their sales, by means of handsome Advertisement Tablets, Circulars, and Samples to Medical Men.

Chemists

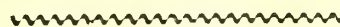
not already selling these well-known Waters should apply for Samples and Price Lists.

Idris & Co.

are the largest Syphon Fillers in the World.

Chemists

are invited to inspect Idris & Co.'s Factories.



IDRIS & CO., LTD.

CAMDEN TOWN, LONDON; & SOUTHAMPTON.

BARNETT & FOSTER

MANUFACTURERS.

The "COMPACT"

CONTINUOUS ACTION

Soda=Water Machine

For use with the Liquefied Carbonic Acid Gas.

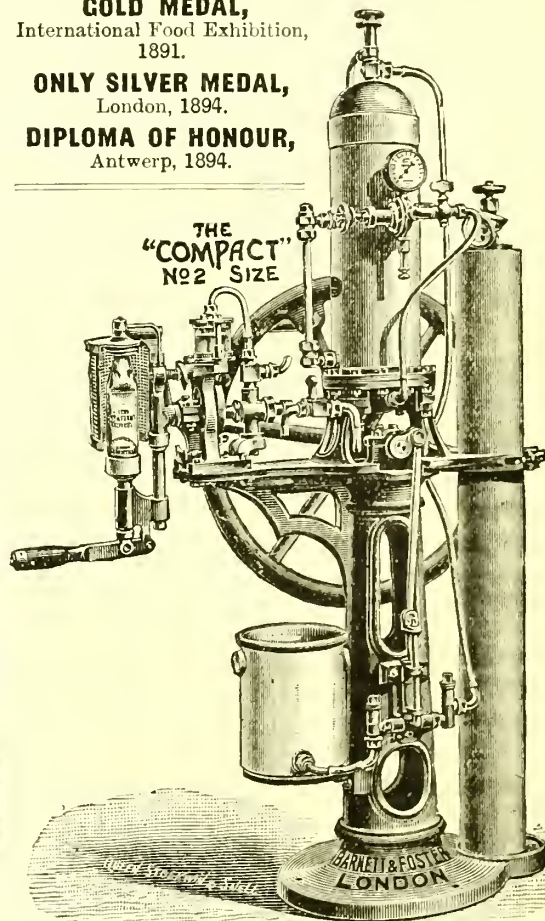
Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in bottles, and also reducing risk of accidents.

.....
NO DANGER.
NO MESS.
PERFECTLY RELIABLE.
.....

*In use by
Leading Chemists in all
parts of
the United Kingdom.*

GOLD MEDAL,
International Food Exhibition,
1891.
ONLY SILVER MEDAL,
London, 1894.
DIPLOMA OF HONOUR,
Antwerp, 1894.



THE
"COMPACT"
No 2 SIZE

No. 1 Size, complete with Turnover and Syphon-ing Machine, and fitted with fast and loose Pulley for driving by Power. Code word *Supremacy.* **60**

Two Fillers Includ.
Producing Capacity by Hand-power 600 dozen per day.
Ditto, by Power, 1000 dozen per day.

No. 2 Size, complete with Turnover and Syphon-ing Machine. Code word *Royalist.* **48**

Two Fillers Includ.
Producing Capacity by Hand-power 350 dozen per day.
Ditto by Power, 700 dozen per day.

No. 3 Size, complete with Turnover or Syphon-ing Machine. Code word *Retailer.* **33**

Producing Capacity by Hand-power 200 dozen per day.

Syrup Pump fitted to either of above (Injection-machine only, the two Machines are charged less than above prices.

Sole Inventors and Manufacturers of the

"Niagara" Bottle and the London-made Syphon

KNOWN ALL OVER THE WORLD.
.....

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

Niagara Works, 26^T EAGLE WHARF ROAD, LONDON, N.

FOR PURE LIQUEFIED

Carbonic Acid Gas

APPLY TO

The CARBONIC ACID GAS CO. or The CARBONIC ACID GAS CO.
SEA BRIDGE ROAD, CLAPTON, POLLARD ST. EAST, ANCOATS,
LONDON, MANCHESTER.

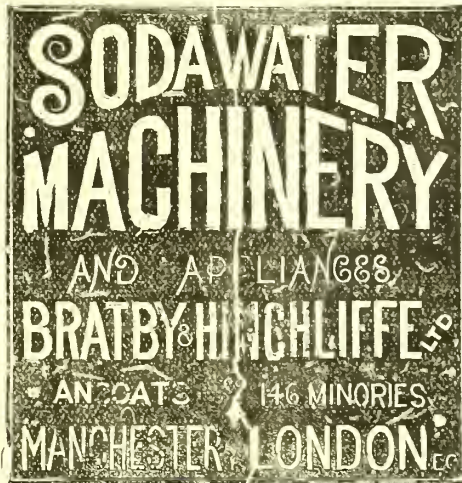
NEWCASTLE-ON-TYNE.

Our New Works at Newcastle-on-Tyne are now in course of erection.

SYPHONS SELTZOGENES



Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus Street, Sydney, N.S.W.
Agents for New South Wales, Queensland, and New Zealand.
Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for
Victoria, South and West Australia, and Tasmania.



81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS ... 1/6, 1/8, and 1/10 each.
SELTZOGENES.

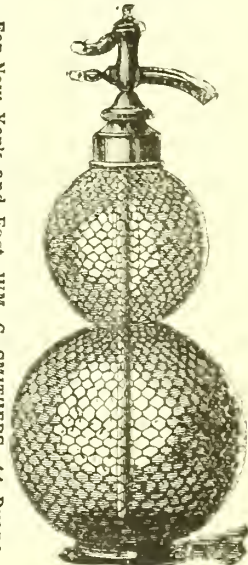
1 2 3 4 5 8 pint.
6/- 6/8 7/6 8/6 10/5 16/- each.

Including two funnels and stopper for charging.
The tins of these Seltzogenes are made of pure black tin, guaranteed.

A copy of our Book of Instructions for the manufacture
of Aerated Beverages will be presented to purchasers.

American Agents.—For New York and East, WM. G. SMITHERS, 11 Duane
Street, New York.
For Chicago and West, VICTOR BAROTHY, 409 Dearborn Street, Chicago.

All our Seltzogenes are
manufactured
on the well-known
"Fevre" System, and
each
one is thoroughly
tested before leaving
the works.



HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.
TRADE MARK, Registered May 21st, 1867.

MILD DRINKS.

Cherry, Raspberry, Strawberry,
Lime Fruit, Black Currant,
Lemon, Orange, Lemon Squash, &c.

THE PIONEER TEMPERANCE BEVERAGES—*Ch. Eng. Temp. Chron.*



BECKETT'S
FRUIT SYRUPS & CORDIALS

"First-class beverages."—*The Grocer*.
"Have an established reputation."—*Noncon-*
formist.

"Delicious beverages."—*Scottish Good Templar*.
"Beckett's Fruit Syrups are not to be excelled."
—*Anti-Adulteration Review*.

"Exceedingly pleasant."—*The Rock*.
"Invigorating and refreshing."—*Manchester*
Courier.

Price Lists and other information sent post free on application to the Manufacturers—W. BECKETT, SONS & CO., Heywood, Manchester.
Wholesale and Export Agents—BARCLAY & SONS (LIM.), 95 Farringdon Street, E.C.; W. EDWARDS & SON, 137 Queen Victoria Street, E.C.;
J. SANGER & SONS, 2 Winsley Street, Oxford Street; J. WOOLLEY, SONS & CO., Manchester; GODDALL, BACKHOUSE & CO., Leeds, &c., &c.

HILLABY'S HIGH-CLASS LIQUORICE

SUPPLIED IN HANDSOME ENAMELLED TINS.

Opinions of FREDERICK DAVIS, Esq.,
B.Sc., Member of the Society of
Chemists, Newington College of
Chemistry, 26 and 28 Newington
Causeway, London, S.E.

"Liquorice Wafers of singular purity, con-
sisting of Liquorice extract and Pectin, pos-
sessed of very delicate flavour; and I am further
of opinion they are especially adapted for chil-
dren and others requiring the demulcent and
smollient principles of the liquorice plant in a
palatable and convenient form."

"Liquorice Pellets having the following per-
centage composition:

Extractive 87, Water 13 = 100,
and containing no foreign colouring matter of
any kind; and I am further of opinion the
extractive is that obtained from the plant
Glycyrrhiza glabra, and that the "Pellets" are
exceptionally rich in the active principle glycyrrhizin, which by its demulcent and soothing prop-
erties to the vocal organs should prove of espe-
cial value to public orators and members of the
dramatic profession; being of small size, they
may be easily carried in the pocket."

"Liquorice and Malt Lozenges which on
chemical examination prove to consist of the
extract of liquorice combined with malt extract,
the latter exceptionally rich in diastase, rendering
these lozenges of great value both as a nutritive
and demulcent agent; and I am also of opinion
a better preparation of Liquorice and Malt could
be obtained, it being a palatable, nutritious and
compact sweetmeat. These lozenges show
of especial value to public speakers, artists,
Members of Parliament, and others requiring a
sustaining and demulcent combination during
lengthy speeches or dramatic recitals."

WRITE FOR SAMPLES AND PRICES TO

JOHN HILLABY, LION WORKS, PONTEFRAC.



PRINCE ALBERT'S CACHOU

HIGHEST AWARD COLUMBIAN EXPOSITION, CHICAGO, 1893

These Cachou are supplied only
in Brass Boxes, of which there
are three sizes. } No. 4's at 3/6 doz. (Export).
No. 5's at 4/- doz. (Home Trade)
No. 6's at 7/- doz.

SUBJECT TO TRADE DISCOUNTS.

All Labels, Titles, and Trade Marks registered in Europe and America.

"BENZINE RECT." JACKSON'S.

SIXPENNY & SHILLING SIZES,
4s. and 8s. per dozen.

A Genuine
Benzol.

JACKSON'S CEMENT
Chinese Diamond.
It has stood the test of time in all quarters of the globe.
In Bottles at 3/6 and 7/- per dozen.

ADHESIVE,
TENACIOUS
AND KEEPS WELL

JACKSON'S LIQUID GLUE.

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.
BRUSHES INCLUDED.

SPECIALITIES FROM THE LABORATORY OF THOMAS JACKSON, Strangeways, MANCHESTER.

Hunyadi János

Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saechner, of Budapest, Hungary, which are as follows:—

Per Case of 25 large bottles,	22/6	.....	Per dozen,	12/-
„ „ 50 small „	35/-	.....	„ „	10/-
„ „ 25 large „	21/-	} Per 10-case lots.		
„ „ 50 small „	32/-			

For net cash.

London Agency—TRAFALGAR BUILDINGS, CHARING CROSS, W.C.

Rosbach

NATURAL
SPARKLING
TABLE
WATER.

SELLS READILY
AND LEAVES
A GOOD PROFIT.

Quas, Pints, and Splits. Liberal Discount to Chemists. ROSBACH SPRINGS, LIM., 19 Regent St., S.W.

Only ONE in each Town.

WE LICENCES.—We pay the licence for our agents; we give 3% discount, sample doctors, bill towns, give sole agency and newspaper advertisement; one agent sold 48 doz. in eleven months; send for circular; secure agency White's Gold Medal Coca Wine. S. B. White, Leicester.

Why not YOU?

SELTZOGENE CHARGES

(“MINERAL” BRAND).

A NEW DEPARTURE.

TARTARIC ACID SUPERSEDED

(See this Journal, 19/12/96, page 820.)

British Materials. Inorganic. No Field for Germ Growth.
BETTER. STRONGER. CHEAPER.

THE SELTZOGENE PATENT CHARGES CO.
ST. HELENS.

THE LONDON ESSENCE CO.

Wholesale Druggists

REQUIRING

ESSENCES, PERFUMES, TINCTURES ESSENTIAL OILS, &c.

should write us for special terms
before buying elsewhere.

Telegrams—
"VANILLIN LONDON."

Chatham St., Camberwell, S.E.

Telephon
810 HO

A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

ROBINSON'S ORIGINAL CONCENTRATED WATERS

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassie Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor. Aurant...	8/8 "	" Pimentæ "	6/- "
" Anisi "	4/- "	" Sambuci Conc...	8/8 "	" Pulegii "	6/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosmarini "	6/- "
" Carui "	4/- "	" Meath. Pip. Conc.	4/- "	" Rœmæ "	8/8 "
" Cinnam. Ver. Conc.	8/- "	" Ang. Conc.	8/- "	" Virginæ "	10/8 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

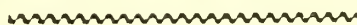
SUPERIOR ORANGE WINE (Vin. Aurantii, B.P.)

Samples of any of the above sent free on application from

R. ROBINSON, Distiller and Brewer of British Wines, Church Street, PENDLETON, MANCHESTER.

HALL'S WINE

SELLS READILY.



PROTECTED PROFIT 25%



Advertising matter free upon application
to the proprietors—

STEPHEN SMITH & CO.

(LIMITED),

BOW, LONDON.

“YORKSHIRE RELISH.”

CAUTION!

TAKE NOTICE that on the 6th day of July, 1897, the House of Lords (The Lord Chancellor, Lord Watson, Lord Herschell, Lord Shand and Lord Davey)

UNANIMOUSLY AFFIRMED

the Judgments of Mr. Justice Stirling and the Court of Appeal in the Case of POWELL (trading as **Goodall, Backhouse & Co.**) v. THE BIRMINGHAM VINEGAR BREWERY CO., Limited, and dismissed the Appeal of the Birmingham Vinegar Brewery Co., Limited, from such Judgments with costs in favour of **Goodall, Backhouse & Co.**

Dated this 8th day of July, 1897.

J. SEYMOUR SALAMAN,
65 and 66 CHANCERY LANE, LONDON,
Solicitor for Messrs. Goodall, Backhouse & Co., Leeds

NESTLÉ'S

Condensed SWISS MILK.

THE RICHEST IN CREAM.

PERCENTAGE OF BUTTER FAT.

Six Samples of NESTLÉ'S MILK bought at random at six different shops, and analysed by Mr. OTTO HEHNER, late President of the Society of Public Analysts, contained AN AVERAGE OF

13.13 per Cent. of BUTTER FAT.

Sample Tins sent free to the Medical Profession on application to HENRI NESTLÉ, 48 Cannon Street, London, E.C.

BRAND & CO.'S MEAT JUICE.

IN BOTTLES,
Price 28/- per dozen,
Less the usual discount.

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

BRAND & CO'S.
SPECIALTIES FOR INWARDS.

ESSENCES OF BEEF & MUTTON & VEAL & CHICKEN

CONCENTRATED BEEF TEA, VEAL, MUTTON & CHICKEN BROTHS;

TURTLE SOUP & JELLY, CALF'S FOOT

JELLY, MEAT LOZENGES

SOLE ADDRESS, 11 LITTLE STANHOPE STREET, MAYFAIR, W.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.
SILVER MEDAL.

		Per gross.	Extra quality.			Per gross.	Extra quality.
Sample Bottles, dozen parcels	.. ..	5/3	6/3	1/4 Bottles, flat or round, reputed half-pints	.. ..	16/-	26/-
" " 1/2-gross boxes	.. ..	5/9	6/9	" " " pints	.. ..	26/-	33/-
1. Giant " dozen parcels	.. ..	6/6	8/6	1 Pint Imperial, round stoppered bottles	.. ..	52/-	62/-
" " 1/2-gross boxes	.. ..	7/-	9/-	12 1/2-Gallon Casks (casks free)	.. .. each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1/2-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.
CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

Sen-Sen

(TRADE MARK.)

6/- { Per Box of—
40 3d. Pkts., and
40 Free Samples.



Gents,— Please send us another box of SEN-SEN with Free Samples. They are the best Cachous we have ever handled.

Yours truly,
PRICE & CO.
(Limited),
West Bromwich.

Put up in neat Gold and Coloured Envelopes, like the engraving, and it SELLS AT SIGHT.

THE FINEST CACHOU IN THE WORLD.

SEN-SEN COMPANY,

9 FARRINGDON AVENUE, LONDON, E.C.

ALBERT LEVY & THOMAS,

CIGAR SHIPPERS,

LEADENHALL STREET, LONDON, E.C.

And at HAVANA.

DUTY PAID PRICE LIST (No. 32, to the TRADE ONLY)

HAVANA CIGARS,

ALSO

Borneo, Java, Teneriffe, Mexican, Manilla, British, India Cigars, Egyptian, Turkish, Russian, American Cigarettes At the VERY LOWEST PREVAILING MARKET PRICES, can be had on application, gratis and post free.

WE EMPLOY NO TRAVELLERS OR AGENTS, therefore SELL at the CHEAPEST RATE.

CHEMISTS AND DRUGGISTS would find the Cigar Business as introduced by us most remunerative and a valuable addition, considering that Grocers, Drapers, and to many other various trades have taken up Chemistry and Drugs. No other business blends so well with Chemists or Druggists as the Cigar business. Some of the leading firms have taken up our lines with the greatest success.

We shall be pleased to give beginners all necessary information.

There is no cutting in our articles, as these are only confined to one or two firms in each town; please, therefore communicate with us at once.

Telegrams—"VECTATIO." Telephone 11,547, Avenue.

Profitable Extras for Chemists.

TOBACCO, CIGARS, CIGARETTES.

AND TOBACCONISTS' FANCY GOODS.

All Packet Tobaccos, Cigarettes, and other Tobacconists' Proprietary goods supplied at Manufacturers' own List Prices. Every Smoker's Requisite and all Novelties—Up to Date—in one order.

MINIMUM OF TROUBLE—MAXIMUM OF PROFIT.

SEND FOR ILLUSTRATED PRICE LIST (200 PAGES), POST FREE.

SINGLETON & COLE, BIRMINGHAM.

SIX GOLD MEDALS and ONE SILVER
MEDAL awarded.
HIGHEST AWARD at CHICAGO.

COLEMAN'S WINCARNIS

OR
LIEBIG'S
EXTRACT OF MEAT & MALT WINE
Is a delicious beverage and tonic made from
Port Wine, Liebig's Extract of Meat, and
Extract of Malt.

WINCARNIS

Is a New Name Registered to prevent fraudulent imitations.

OVER FOUR THOUSAND

Unsolicited Testimonials have been received from
Medical Men.

IMPORTANT UNSOLICITED TESTIMONIAL FROM
T. POYNTZ WRIGHT, Esq., Medical Officer of Health,
New Street, St. Neots.

New Street, St. Neots, January 28th, 1894.

I have much pleasure in giving you my experience as to
the "Meat and Malt Wine" received from you some time
since, and in bearing testimony as to its value as a recupera-
tive and restorative agent.

In the early part of last year my wife was seriously unwell,
suffering from loss of flesh and appetite, together with
mental and bodily exhaustion and sleeplessness. She was
under treatment for a considerable time without relief, and
I at last determined to try "Wincarnis."

The effect was marked, and convalescence commenced from
that date; the appetite returned and the weight hourly
increased, and in about two months the health was restored,
and this result was in a great measure attributable to the
use of "Wincarnis"—of this I feel certain, that in many
cases this preparation is a most valuable adjunct to
medicinal treatment.

T. POYNTZ WRIGHT,
Medical Officer of Health, St. Neots.

WINCARNIS

Issold by all Druggists, Wine Merchants, and Patent-medicine
Vendors. Ask for Coleman's "Wincarnis," or Liebig's
Extract of Meat and Malt Wine, and see that the word
"Wincarnis" is on the shoulder of the bottle.

Sold in Bottles, 2s. 9d. and 4s. 6d., everywhere.

If there is any difficulty in getting the Wine, write direct to
the manufacturers, who will forward

Sample Pint Bottle free by Post on receipt of 33 stamps.
" Doz. " " Rail " 30s.

SOLE MANUFACTURERS:

COLEMAN & CO., LIMITED,

ST. GEORGE'S AND BANK PLAIN, NORWICH;
AND 3 NEW LONDON STREET, LONDON, E.C.
Sole Proprietors of "Osmazon," the New Beef Tea, Coleman's Crown
Imperial Invalid Stout, and also Coleman's Crown Imperial Invalid Cham-
pagne, which is strongly recommended by the Medical Faculty.

Under certain conditions the cost of a Foreign
Wine Licence will be defrayed. For full par-
ticulars apply to COLEMAN & CO., LIMITED,
Wincarnis Works, NORWICH.

BOVRIL.

What it is!

BOVRIL is Beef, the entire lean of the B
Beef procurable. Not the Forty Pounds Weight of B
which would have to be eaten before the nourishment co
tained in One Pound of Bovril could be imparted to t
system, but Forty Pounds of the primest parts obtained fr
the finest selected Cattle reared in Australia and Sou
America, concentrated by a special process, rendering
the most perfect form of strengthening, stimulating, eas
digestible nourishment in the smallest possible bulk.

INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is pu
in porcelain jars and sold by Chemists and Druggists ol
and it differs from ordinary Bovril in being more conce
trated and quite devoid of seasoning, and is relished a
retained by Invalids when ordinary food and stimulants a
rejected.

BOVRIL, LTD., Food Specialists, LONDON

Chairman—RT. HON. LORD PLAYFAIR, K.C.B., LL.D.



AND OTHER

AERATED TABLE WATERS.

W. A. ROSS & SONS, LTD.
BELFAST.

MARIANI WINE

MINIMUM RETAIL PRICE, $\frac{1}{2}$ doz. Bots. for 20/-, or 3/6 per single Bottle.

In original cases of 6 dozen, £10 4s. Od. net cash,
with 3 per cent. discount off 6 case lots.

SANTAL MIDY.

MINIMUM RETAIL PRICE, 3/6 per Bottle.

MINIMUM WHOLESALE PRICE, 33/- per dozen or part of dozen.

In 12 dozen lots, £18 net cash.

WILCOX & CO., 83 Mortimer Street, LONDON, W.

GABRIEL JOZEAU, 49 Haymarket, LONDON, S.W.



TOWER TEA.

The Best and the Cheapest in the World at the Price.

In $\frac{1}{4}$, $\frac{1}{2}$, and 1-lb. Packets only, to Retail at 1/-, 1/2, 1/4, 1/6, 1/7, 1/8, 1 10, 2/-, 2/4, 2/8 per lb. Also in Handsome 1-lb., 3-lb., and 5-lb Decorated Tins, to Retail at 1/10, 2/-, and 2/4 per lb.

Agents appointed by

TOWER TEA, LIMITED, 5 JEWRY STREET, LONDON, E.C.

MILK STERILIZERS.

Nos. 1, 2, and 3.

HAWKSLEY'S PATENT.

Descriptive Pamphlets Free by Post.

DAILY INCREASING SALE.

See Diary, page 574.

May be had through the Wholesale Trade, or direct from

Patentee, 357 OXFORD STREET, LONDON, W.

POTASS. CYANIDE

(From 30 % to 98 %),

YELLOW PRUSSIATE OF POTASH,
Nitrate of Silver, Chloride of Gold,
AND OTHER

CHEMICALS

FOR PHARMACEUTICAL, PHOTOGRAPHIC, AND
TECHNICAL PURPOSES.

FREDK. BOEHM, 16 Jewry Street, LONDON.

AGENT FOR THE

Deutsche Gold- und Silber-Scheide Anstalt, Frankfurt a/M

BURGOYNE'S

TRADE MARK.



Cooked Standardised Malted

INFANTS' AND

INVALIDS' FOOD

IN BULK.

Special Quotations for quantities.

Put up in tastefully decorated tins to retail at
1s., 8s. doz.

Customer's own Name and Address printed on
1 gross free of charge.

Burgoyne, Burbidges & Co.

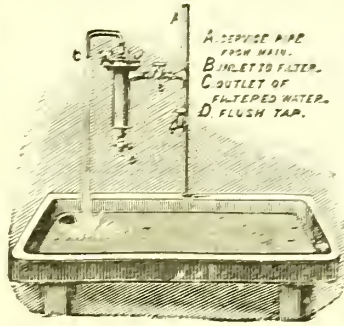
12 & 16 Coleman Street, LONDON, E.C.

THE BERKEFELD FILTER.

"These Filters represent the greatest progress made in the construction of Filters during the last 10 years."—DR. PLAGGE.

In the Berkefeld Filter the filtering medium is in the form of hollow cylindrical candles of various sizes, made of kieselguhr, a substance which, on account of its enormous porosity, consisting it does, of the silicious skeletons of atoms, is an ideal filtering medium. The advantages claimed for the Berkefeld Filters are:—

- 1.—They are simple in construction, and can be easily cleaned and sterilised.
- 2.—The filtrate is absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.
- 3.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter.



FILTER (as sketch) to attach to service-pipe £2 2 0
 Smaller size 1 5 0
 Glass Table Filters from ... 0 8 9

Chemists will find these Filters a profitable line, and one they can confidentially recommend to their customers.

Counter Filters specially adapted for Chemists doing a trade in Saline and Summer Drinks.

NO MINERAL WATER PLANT COMPLETE WITHOUT A **Berkefeld Filter.**

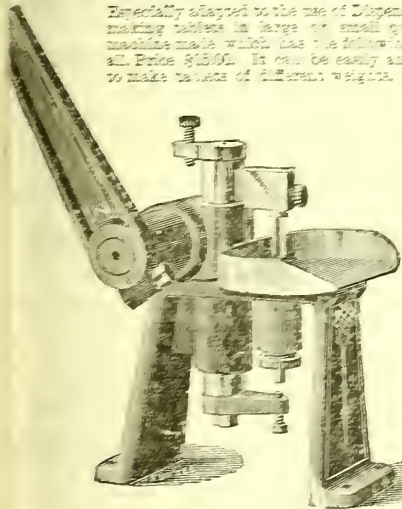
FULL ILLUSTRATED LIST AND TRADE TERMS ON APPLICATION.

CORRESPONDENCE AND VISIT TO SHOWROOMS INVITED.

THE BERKEFELD FILTER CO., LIMITED, 121 OXFORD STREET, LONDON, W.

THE LITTLE DIAMOND TABLET MACHINE

Patent applied for.



Specially adapted for the use of Dispensing Pharmacists for making tablets in large or small quantities. The only machine made which has the following features:—First of all, Price \$15.00. It can be easily and instantly adjusted to make tablets of different weights. It can be easily and instantly adjusted to make tablets of different density or thickness. It makes tablets rapidly of uniform size and weight. The tablet is ejected from the die automatically. There is no mistaking of the die. It is both strong and powerful, and consequently it is impossible for it to get out of order. It is easily understood, and a boy can operate it as well as a man. Each machine furnished with two sets of dies—one for a Five-Grain Tablet and one for a Ten-Grain Tablet.

Other Sizes furnished to order.
 Height 2 1/2 in.; Weight 10 lbs. \$15.00 each net.
 Complete Book of Formulas & full directions with each Machine.

FOX, FULTZ & CO.,
 SOLE MANUFACTURERS
 81 Warren Street, NEW YORK, U.S.A.

NOTE.—Send for free copy of our DRUGGISTS' SUNDRYMAN, which contains full descriptions and Prices of large line of Druggists' Sundries, including many new and valuable labor-saving devices for Retail and Manufacturing Pharmacists.
 LEADING HOUSE IN THIS LINE IN THE UNITED STATES.

MARVINE

A MEAL

REGISTERED



REGISTERED

ON A

FINGERTIP

GELOIDS

THE NEW CONCENTRATED FOOD & DRINK TABLETS

For Travellers, Cyclists, Athletes, Dyspeptics, Invalids, and Convalescents.

MARVINE GELOIDS

ARE LEAPING INTO POPULARITY, and are being Stocked by all WIDE-AWAKE CHEMISTS.

Per 1-Box.

Trade Terms, Show Cards, and Counter Bills on application.

MANUFACTURED BY

MARVINE, LTD., 22 Eldon St., LONDON, E.C.

Marshall's, Limited, 27 Red Lion Square, W.C.

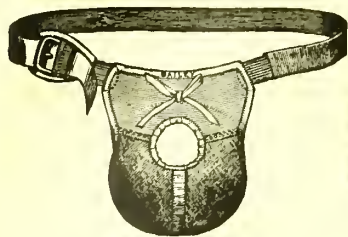


Fig. 2.

BAILEY'S SUSPENSORY BANDAGES

A. B. C. SYSTEM.

What "THE CHEMIST AND DRUGGIST" says:—

Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus:—

To repeat,
quote No. 4^B SILK.

So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT. Containing—

6 No. 1, Cotton, with tape under-straps	...	Fig. 1	...	...	...	per doz.	8/
6 No. 2, ,, ,, drawing-strings	...	Fig. 2	...	...	...	"	10/
6 No. 4, Silk, with ,,	...	Fig. 2	...	...	...	"	18/
8 No. 6, Super. Silk, with ,,	...	Fig. 2	...	...	...	"	24/
8 No. 8, ,, ,, button-bags	...	Fig. 8	...	...	...	"	24/

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

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

SUPERIORITY OF THE "WILLARDBELL" SPECIALITIES

The "Willardbell" Truss.
(PATENTED.)

Acknowledged by the Medical Profession to be the Best. The principle is an entire departure from the old style. Scientific, Simple, and Successful. Never Rusts—always Clean, Cool, and Comfortable. Largely adopted throughout the Kingdom, on the Continent, and the Colonies.

The "Willardbell" Suspensory.
(PATENTED.)

With Flexible Aluminium Front. The Best on the Market.

The "Willardbell" Jock Strap.
Worn by all Athletes. Will prevent Strains, and afford much greater freedom of movement.

The "Willardbell" Ladies' Sanitary Bandage.
The Latest and Best out.



The "Willardbell" Elastic Web Truss.

Specially made for Ladies, and fitted with Water Pad.

Chest and Lung Protectors.

Ladies' and Gentlemen's Shoulder Braces.

For straightening the Shoulders and expanding the Chest.

Abdominal Supports.

Of High-class Quality and Finish.

Elastic Stockings, Knee Caps, and Anklets.

In a variety of Colours.

AND OTHER APPLIANCES.

NOTE.—We have no hesitation in bringing our Goods under your special notice, as they have already established a reputation amongst Doctors Chemists as of superior quality, finish, and efficiency. We shall be pleased to submit on application Prices and Testimonials in reference to our Goods, with any other information required. Chemists who take up Agencies for our manufactures will considerably increase the yearly turn-over of their business. A large number of Agents have already been appointed in the United Kingdom. We are well equipped for despatch of Export Orders, but wherever possible should prefer such to pass through the Shipping Agents in England.

MANUFACTURERS :—ACCRINGTON SURGICAL APPLIANCES CO., LIMITED, DALE STREET WORKS, ACCRINGTON. **Tele. No. 76.**
Sole Agents for South Africa—B. G. LENNON & CO., LTD., 75 Leadenhall Street, LONDON, E.C.
SOLD BY LEADING CHEMISTS THROUGHOUT THE UNITED KINGDOM.

CAPSULED "McK. & R." PILLS

McKesson & Robbins : Originated 1870 : New York.

WHY SHOULD THE "McK. & R." PILLS BE PRESCRIBED ?

1. Because they are prepared from materials of the highest quality only.
2. Because they are made according to the B.P. or other Standard Authorities, and therefore all the combinations are well tried and of recognised value.
3. Because they are taken pleasantly—being tasteless—and readily, being ovoid in form.
4. Because they are not subjected at any stage of preparation to the injurious action of heat.
5. Because the coating of *pure transparent gelatine* preserves the contents from oxidation.
6. Because they are always soluble, and the contents soft and quickly disintegrated.

LIST OF PRINCIPAL CAPSULED PILLS.

Aloes, all the B.P. combinations..... 6 gr.	Croton Oil..... 1-2 gr.	N.B.—In no kind of Pill are the advantages of the "McK. & R." method better exemplified or more in request. No other brand of Phosphorus Pills is equally reliable for the administration of the unoxidised medication.
Aloes, Dilute (Dr. Hall Dinner Pill)..... 4 gr.	Diuretic—	Phosphorus and Iron—
Aloes Barb.	Ext. Buchu, Potass. Nitrat..... 1 gr.	Phosphor. Pur. 1-50 gr.
Saponis Pulv.	Scilla Pulv. 1-2 gr.	Ferr. Redact. 2 gr.
Pulv. Ext. Glycyrrh.	Emmenagogue—	Phosphorus, Iron, and Quinine—
Theriac, aa. 1 gr.	Ferr. Sulph. Exsio. 1 1-2 gr.	Phosphor. Pur. 1-100 gr.
Aloes and Nux Vomica—	Thus, American 1 1-2 gr.	Ferri Carb. 1 gr.
Aloes Soc. 1 1/2 gr.	Aloes Socot. 1-2 gr.	Quinina Sulph. 1 gr.
Ext. Nucis Vom. 1/2 gr.	Ergotin 3 gr.	Phosphorus and Nux Vomica—
Aloin 1/16, 1/8, 1/4, 1/2, 1 gr.	N.B.—Each Pill = 30 gr. ergot or 30 me. fl. extract. This form is more reliable and uniform in effect and more agreeable than the liquid preparations.	Phosphor. Pur. 1-50 gr.
Aloin, various combinations.	Euonymin 2, 3 gr.	Ext. Nveis Vom. 1-4 gr.
Anti-Dyspepsia (Fothergill)—	Iodoform and Iodoform with Iron..... 1 gr.	Phosphorus and Quinine—
Strychnina 1/16 gr.	Ipecac. 1-4, 6 gr.	Phosphor. Pur. 1-50 gr.
Pulv. Piper Nig. 1 1/2 gr.	Ipecac. Co. 6 gr.	Quinina Sulph. 1 gr.
Pulv. Ipecac. 2-3 gr.	Ipecac. and Squill, B.P. 6 gr.	Phosphorus and Valerianate of Zinc—
Ext. Gent. 1 gr.	Iron Pill, B.P. Add. 3, 6 gr.	Phosphor. Pur. 1-50 gr.
Arsenious Acid 1-20, 1-50 gr.	Iron Arseniate. 1-3 gr.	Zinci Valer. 1 gr.
Asafetida, U.S. and B.P. 6 gr.	Iron reduced by Hydrogen (Quevenne).. 1, 4 gr.	Picrotoxin 1-80 gr.
Atropine 1-100, 1-300 gr.	Iron and Quinine Citrate..... 2 gr.	Podophyllin 1-8, 1-4, 1-2 gr.
Blue Pill, B.P. 1, 2, 3, 5 gr.	Laxative, Vegetable—	Quinine, Bisulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Blue Pill, with Colocynth and Hyoscyam... 6 gr.	Res. Podoph. 1-4 gr.	Quinine, Sulphate 1-4, 1-2, 1, 2, 3, 4, 5 gr.
Calcium Sulphide 1-10, 1-4, 1-2, 1 gr.	Ext. Hyoscy. 1-4 gr.	Quinine Co. (Anti-Malarial).
Calomel, Colocyn., and Hyosc. 6 gr.	Ext. Tarax., aa. 1 gr.	Largely prescribed in America with excellent results.
Calomel Co., B.P. 6 gr.	Ext. Coloc. Co. 1 gr.	Rhubarb Comp., B.P. 5 gr.
Camphor and Hyoscyam..... 2 gr.	Jalapae 1-2 gr.	Rhubarb with Bine Pill 5 gr.
Camphore	Res. Leptand. aa. 1-2 gr.	Salicylic Acid 2, 5 gr.
Ext. Hyoscy., aa. 1 gr.	Ol. Menth. Pip.	Soap Comp., B.P. 5 gr.
Cannabis Indica 1-4, 1-2 gr.	Mercury, Biniodide 1-16 gr.	Squill Comp., B.P. 5 gr.
Cascara Sagrada 3 gr.	Mercury, Proto-iodide 1-20, 1-16, 1-8, 1-4 gr.	Strophanthus 1-20, 1-4 gr.
Cathartic Comp., U.S.P.	N.B.—Made from the absolutely pure yellow impalpable powder, free from mercury and from biniodide.	Strychnine 1-50 gr.
Ext. Jalap 1 gr.	So-called "green" proto-iodide contains uncombined mercury.	Tonic Laxative (Fothergill)—
Ext. Coloc. Co. 1 1-3 gr.	Mercury with Chalk 1 gr.	Quinina Sulph. 2-3 gr.
Hyd. Subchlor. 1 gr.	Morphine Muriate 1-8, 1-4 gr.	Strychn. 1-30 gr.
Gambog. 1-4 gr.	Nitro-Glycerine 1-200, 1-100, 1-50 gr.	Ferri Redact.
N.B.—The ready solubility of the "McK. & R." Pills is readily proved by taking a dose of these.	Opium 1 gr.	Ext. Bellad., aa. 1-4 gr.
Colocynth Comp., B.P. 4, 5 gr.	Opium and Camphor..... 1 gr.	Valerianates, Iron, Quinine, and Zinc.
Colocynth, other combinations.	Opil Pulv..... 1 gr.	Warburg's Tincture and the same without Aloes.
Copaiba Compound—	Camphore 2 gr.	Each Pill = 1 fl. drm. of the Tincture.
Cubeba Pulv. 2 gr.	Pepsin, Pure 1 gr.	Zinc Phosphide 1-4, 1-2 gr.
Ferri Sulph. Exsio. 1-2 gr.	Phosphorus 1-100, 1-50, 1-30 gr.	Zinc Valeriana. 1 gr.
Mass. Copaib. 1 gr.		
Tereb. Venet. 1 1-2 gr.		
Corrosive Sublimate..... 1-30, 1-20, 1-10 gr.		

Special Combinations of 3,000 or more Pills made and Capsuled to order for Hospitals, &c., at Special Quotations.

London Agency:—Messrs. S. Maw, Son & Thompson, 7 to 12 Aldersgate St., E.O.

ALSO SUPPLIED BY

MESSRS. BURROUGHS, WELLCOME & CO., Snow Hill Buildings, London, E.O.;

MESSRS. GRIMWADE, RIDLEY & CO., 82 Bishopsgate Street, London, E.O.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syrup with a SLIGHTLY ALKALINE REACTION.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses the important properties of being pleasant to the taste, easily borne by the stomach, and harmless under prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosis, Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with much success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by means of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and it enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence the preparation is of great value in the treatment of mental and nervous affections.* From the fact also that it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in a wide range of diseases.

NOTICE — CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, **FINDS THAT NO TWO OF THEM ARE IDENTICAL**, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, **IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION**, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. **FELLOWS**."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-); the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

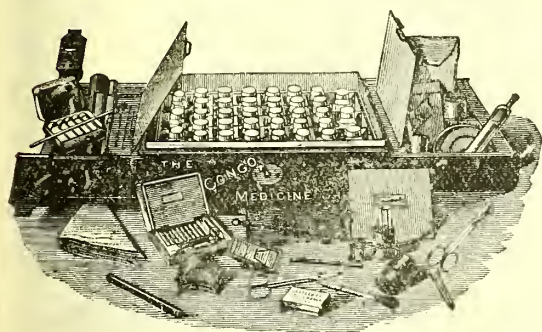
THE FELLOWS MEDICAL MANUFACTURING CO., LIMITED,
94 PAUL STREET, FINSBURY, LONDON, E.C.

TRADE
MARK **'Tabloid'** BRAND

Medicine Cases AND Chests

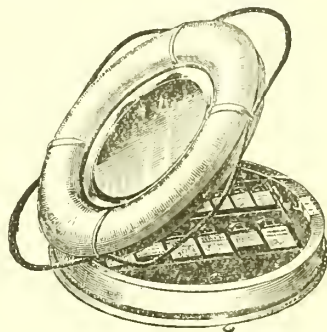
TRAVELLERS, tourists and holiday-makers generally are continually requiring portable cases fitted according to the instructions of their medical advisers. 'TABLOID' Brand MEDICINE CASES have been adopted by the leading explorers and all important expeditions of recent years. They are the most portable cases made, and their contents keep indefinitely in all climates.

To the pharmacist they present many business opportunities. For instance, the *Chemist and Druggist*



comments on the considerable profit derived by chemists who supply 'Congo' or similar 'Tabloid' Medicine Chests to volunteer ambulance corps. The price of the 'Congo' Chest, fitted complete, is from £10.

For yachting cruises the Life-buoy 'Tabloid' Medicine Case not only provides ample supplies of all those medicines usually required, but makes a handsome decoration for the cabin wall. The price, fitted complete, is 84s. ❀ ❀



The Alpine 'Tabloid' Medicine Case is fitted according to the recommendations of the Alpine Club, whilst the needs of the cyclist are provided for by the compact Cyclist's 'Tabloid' Medicine Case. Fitted complete, the prices of these cases are respectively 18s. and 3s. 6d. ❀

Other cases, in infinite variety, are made and fitted to suit every special requirement. Chemists are supplied with full particulars on application. ❀ ❀ ❀ ❀



BURROUGHS, WELLCOME & Co.,
Snow Hill Buildings, LONDON,
and 108, Pitt Street Sydney, N.S.W.

TELEGRAPHIC ADDRESS:—"BURCOME, LONDON."

The Trade is notified that "Vaseline" is an arbitrarily coined fancy word, and is registered as our Trade Mark, and can only be legally applied to goods manufactured by us.

CHESEBROUGH MANUFACTURING CO., HOLBORN VIADUCT, **LONDON, E.C.**

See page 103 of "THE CHEMIST AND DRUGGIST" WINTER ISSUE.

SEND FOR REDUCED PRICE LIST OF THE "VASELINE" PREPARATIONS.



Directions for use in English, French, or Spanish, as required.

SOLD IN TINS BY CHEMISTS EVERYWHERE.

WHOLESALE OF

F. B. BENGER & CO., LIM., MANCHESTER,
AND ALL WHOLESALE HOUSES AND SHIPPERS.

The Times:—"These are fine Wines to keep, as English buyers are beginning to discover."

Burgoyne's Australian Wines

All Chemists holding a Wine Licence are invited to communicate with us for prices, particulars, &c.

P.B. BURGOYNE & CO.

5 Dowgate Hill,

LONDON, E.C.





ESTABLISHED 1859.

Subscription: Fourpence a Week, Ten Shillings a Year. Summer and Winter Numbers, 1s. per Copy.

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

BRANCH OFFICES: 231 ELIZABETH STREET, MELBOURNE, AND 114A PITT STREET, SYDNEY.

Prix de l'abonnement: The Chemist and Druggist une fois par semaine, et l'agenda du Chemist and Druggist une fois par an, 12.50 francs par an, franco.

Abonnementspreis: The Chemist and Druggist einmal wöchentlich, und Notizkalender des Chemist and Druggist einmal im Jahre, 10 Mark jährlich, frei in's Haus geliefert.

Precio de suscripcion: The Chemist and Druggist una vez por semana, y el Agenda del Chemist and Druggist una vez al año 12.50 pesetas anuales franco.

THIS JOURNAL is regularly supplied by subscription to the whole of the Members of TWELVE PHARMACEUTICAL SOCIETIES in the British Empire.

CONTENTS: Vol. LI. No. 9.

	PAGE		PAGE
An Odd Volume	383	Editorials—(continued):	
Bankruptcies and Failures	365	Sugarine: A Record in Medi-	
Business Changes	366	cine-taking; Foreign Show-	
Colonial and Foreign News	360	cards and Posters; Points	
Corner for Students	355	of the New American Tariff	380
Correspondence:—		French News	359
The Arsenic Trade; Organo-		Gazette	366
therapy; Sumatra Benzoin		German Unofficial Formulae ..	369
of Commerce; In the Bae		International Pharmaceutical	
of Victoria	390	Congress at Brussels	371
P.A.T.A.; The 2 <i>l</i> . Book-		Irish News	358
fee; An Appeal to Charity		Kinios. By Joseph Bosisto ..	382
Miscellaneous Inquiries	391	Legal Reports	364
Information Wanted	392	Mauvais Quarts d'Heure	375
Deaths	361	New Books	374
Deed of Arrangement	366	New Companies and Company	
Dispensing in Doctors' Surgeries.		News	374
By an Ex-qualified Dis-		Novelties	367
penser	381	Personalities	366
Drug Verses	392	Photographic Notes	370
English News	357	Proprietary Articles Trade	
Editorial Comments:—		Association:—	
Pharmacy Act of New South		Council Meeting	362
Wales	376	Dinner	362
Prophetic Chemistry	377	Reminiscences of Liebig	385
Japanese Customs Tariff	378	Scotch News	359
Irish Poor-law Drug-con-		Tabs	380
tracts	379	Trade-marks Applied For	382
Not Versatile Enough; Bank-		Trade Notes	368
ruptcy Improvement	379	Trade Reports	386
		Wills of Deceased Chemists	368

EDUCATIONAL NUMBER.

OUR annual number devoted to education and examinations in connection with pharmacy, medicine, dentistry, veterinary surgery, and science will be published next week. Would teachers who have not yet sent in particulars of their classes do so, at once, to the Editor? Those who want to advertise should write to the Publisher. It is a good number to advertise in, as the circulation is exceptionally extensive, and includes the hospitals of the kingdom.

"C. & D." DIARY, 1898.

OUR Publisher wishes us to state that he has commenced to book orders for advertisements for next year's DIARY, which will be as big as this year's one, and as useful in every sense. As it speaks every day of the week for a whole year, and is used in pharmacies, offices, and warehouses in all parts of that realm upon which the sun never sets, advertising in it is the safest and best-paying investment going. As the allotment of shares—we mean pages—is in the order of application, we advise all interested to tell the Publisher what space they wish to be reserved.



THE price of arsenic is the subject of a letter on p. 390. WOLVERHAMPTON PAUPERS enjoy the luxury of hair-oil (p. 357).

WHAT IS "SUGARINE"? A question we have been asked. Answer on p. 380.

MR. JOSEPH BOSISTO recommends the "gum" of *Eucalyptus rostrata* as kino (p. 382).

NEW SOUTH WALES has obtained a Pharmacy Act at last. See the article on p. 376.

MR. T. DUNLOP again calls attention to the need of better benzoin than is now supplied (p. 390).

A VICTORIA UP-COUNTRY CHEMIST'S SHOP and the business done in it are depicted on p. 391.

SOME more of those trying times which chemists have had within fifteen minutes are reported on p. 375.

A HUNDRED MEMBERS of the P.A.T.A. dined together at the "Holborn" last week, with a number of ladies (p. 362).

PARTICULARS of the proposed Japanese Customs-tariff, so far as drugs, chemicals, &c., are affected, will be found on p. 378.

MESSRS. J. R. NEAVE & Co. have succeeded in expunging a trade-mark, "Neavis," from the trade-mark register of Victoria (p. 365).

THE *New York Herald* of Paris prints a sermon and a medical article every Sunday. The medico's production is quaintly amusing (p. 359).

DR. MCWALTER comments further upon organotherapy (p. 390), and in connection with this subject we call attention to M. Denaeyer's paper on p. 372.

THE report of the last analysis given in our Students' Corner is printed on the next page, and the awards in the six months' tournament announced (p. 356).

THE GERMAN APOTHEKER VEREIN, whose annual meeting is reported on p. 361, has published a supplement to the German Pharmacopœia, which we review, quoting some useful formulæ (p. 369).

IF a chemist, or anyone else, is convicted of selling wine without a licence, this bars him for ever from obtaining a wine-licence. So it has been decided on the application of a Hayward's Heath chemist (p. 357).

PROFESSOR RAMSAY places argon (atomic weight 40) between chlorine 35.5 and potassium 39, and thus gives rise to several interesting points in chemical philosophy, which we discuss in lighter vein (p. 377).

A JERSEY CHEMIST, who had been sold up in June last and had been, therefore, compelled to be out of business between that time and the promulgation of the Act, has nevertheless succeeded in securing registration (p. 364).

WE conclude our report of the eighth International Pharmaceutical Congress at Brussels, and give portraits of the two Cabinet Ministers who were present at the concluding banquet and of several others of the participants. We also illustrate the laureate's diploma (p. 371).

AN ex-qualified medical dispenser calls attention to the fact that in hundreds of cases daily scheduled poisons are being "sold" in medical dispensaries by unqualified persons in contravention of the Pharmacy Act, and calls for the action of the Pharmaceutical Society (p. 381).

A FAIR amount of business has been transacted in the drug and chemical markets this week, though no very important changes have taken place. Camphor and asafœtida are higher. Cardamoms steady. Cod-liver oil is firmer, while quinine is unchanged. Nitrate of silver has been reduced owing to the low price of the metal. There has been some excitement in the pepper and spice market (p. 386).



CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.C.

REPORT ON THE JULY ANALYSIS.

TWO parts of sodium chloride, one part of potassium nitrate, and one part of ammonium chloride constituted the mixture sent to our correspondents last month. The calculated composition of this mixture is:—

K	9.65
Na	19.98
NH ₄	8.41
NO ₃	15.35
Cl	46.61
	100.00

A slight trace of iron, and large traces of calcium, magnesium, and sulphuric acid were present.

Portions of the mixture of salts were sent to 36 applicants, and 22 reports of analyses were received in reply. Three students failed to detect the nitrate, 2 were unsuccessful in the detection of potassium, the remaining three constituents, sodium, ammonium, and chlorine, were detected in every case.

As pointed out in our remarks to correspondents, the most likely cause of failure in the application of the ferrous-sulphate test for nitric acid is heat. Unless the strong sulphuric acid employed in the test is conveyed to the bottom of the test-tube, so as to mix as little as possible with the supernatant liquid, the temperature will rise so high as to prevent the formation of the compound of nitric oxide and ferrous sulphate to which the brown ring is due. If the test-tube is held in a slanting position, it is possible to pour the heavy acid down the side of the tube without allowing it to mix too freely with the liquid under examination. It is better, however, to use a pipette containing the requisite quantity of sulphuric acid. It should be introduced into the liquid cautiously, and withdrawn slowly so as to disturb the liquid as little as possible.

The spectroscope affords the most delicate means of detecting potassium, but the platonic-chloride test has the advantage of giving some idea of the quantity present. In practice potassium is usually determined quantitatively in the form of potassio-platinic chloride. The precipitate, like all crystalline precipitates, requires time for its formation. It is a comparatively soluble compound; at a temperature of 10° C. 1 part of potassio-platinic chloride dissolves in 110 parts of water; at higher temperatures it is much more soluble. Alcohol dissolves it only to a slight extent, so that the test may be made much more sensitive by using alcohol as the solvent for the substance under examination; but this is not always convenient, as it is often necessary to apply the test to mixed salts, some of which may not be readily soluble in alcohol. With reasonable care there is no difficulty in detecting small quantities of potassium in aqueous solution by means of the platonic-chloride test.

PRIZES.

The First Prize for the best analysis has been awarded to J. PATINSON, 30 High Street, Wigton.

The Second Prize has been awarded to JOHN W. MOORE, 10 Proctors Row, Wigton.

MARKS AWARDED FOR ANALYSIS.

J. Pattinson (1st prize) ...	98	Huxham	86
John W. Moore (2nd prize) ...	96	Dover	85
A. E. King	93	R. E. Wright	84
Phœtophycin	92	Acetate	80
W. J. Lacey	92	C. J. Packham	80
A. E. Beeston	91	Van-de-burke	78
Ctenophora	90	Lilac	77
E. Ockenden	90	Robert Graham	72
Africanus	88	L. R. D.	70
L. M. B.	87	B. O. B.	68
Zoroaster	86	Semper cadem	65

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as a second prize.

Note.—All communications should include the names and addresses of the writers.

AFRICANUS.—If you try a blank experiment with the reagents you used, you will probably find that they are not altogether free from aluminium.

L. M. B.—The salts used in preparing the mixture were not deliquescent, but a transposition of constituents took place with the production of potassium chloride, which is very deliquescent. In some cases the powder seems to have reached its destination in a fairly dry state.

R. E. WRIGHT.—The aqueous solution of the powder, after acidulation with hydrochloric acid, gave a slight precipitate when a drop of barium-chloride solution was added, thus showing that a trace of sulphuric acid was present. This was incompatible with the presence of barium.

ACETATE.—Nearly half the mixture consisted of chlorine, consequently a great deal of silver nitrate would be necessary to remove it all. Possibly you did not use quite enough silver nitrate to effect a complete removal of the chlorine, preparatory to igniting the salt, in your test for the chloric radicle.

C. J. PACKHAM.—Sodium was the principal metal in the mixture. The persistence of the yellow flame, and the large residue left when every metal capable of being precipitated had been removed in that way, showed that sodium was present in quantity.

VAN-DE-BURKE.—There was not a trace of acetic acid in the mixture. When you use alcohol in testing for acetic acid you must bear in mind the possibility of some oxidising-agent being present and yielding oxidation products. Alcohol may be oxidised to aldehyde, or to acetic, formic, glycolic, or other acids. In the present case there were nitrates and chlorides present. On adding a sufficiency of free sulphuric acid, free nitro-hydrochloric acid—a very powerful oxidising-agent—was liberated. Consult works on organic chemistry about the oxidation of alcohol, and try the experiments yourself.

LILAC.—Very dilute mineral acids liberate sulphur dioxide from sulphites. If you employ a strong acid, especially sulphuric acid, with the aid of heat, there is a risk of some irritating acid vapours being evolved which you may mistake for sulphurous acid.

R. GRAHAM.—In testing for acetic acid you added ammonia to the aqueous solution of the mixture of salts. This was not necessary, because the solution was neutral to test-paper. When you subsequently added ferric chloride the ammonia decomposed it, precipitating red ferric hydroxide, not acetate. An acetate would have given a red colour to the solution; it does not yield a precipitate unless the liquid is boiled.

L. R. D.—You ought to have obtained several indications of the presence of a nitrate in the preliminary examination. Nitrous fumes were evolved on heating the dried powder in a tube. Heated on charcoal, deflagration took place. Heated with sulphuric acid and copper, nitrous fumes were evolved. In applying the ferrous-sulphate test, you may have allowed the liquid to become too warm. The dark-coloured compound which gives rise to the brown ring—a compound of ferrous sulphate and nitric oxide—is readily decomposed by heat.

B. O. B.—When the mixture was ignited to expel salts of ammonium, and the residue dissolved in the smallest possible quantity of water, the solution gave an abundant precipitate with platinic chloride in the course of a few minutes. Your solution must have been too dilute, or perhaps you did not allow sufficient time for the precipitate to crystallise out.

SEMPER EADEM.—See remarks to "L. R. D." The red line of potassium was very easily seen when the flame was examined with the spectroscope. It is the most conspicuous of the potassium lines.

THE HALF-YEAR'S TOURNAMENT.

In our issue of January 23 we announced a special prize to be awarded to the competitor who, in the six forthcoming analyses (now completed), scored the highest number of marks. Prizes were also offered to the students who might take the second and third positions. The following ten competitors have from the beginning given indication of reaching the coveted places:—

	Marks.		Marks.
J. Pattinson (Tyers) ...	572	J. W. Moore (Sepia) ...	545
E. Ockenden ...	571	A. E. Beeston ...	542
A. E. King ...	563	O. V. Blackburn (Van-de-	
W. G. Stratton (Acetate)	559	burke) ...	537
Phocophycin ...	557	C. J. Puckham ...	533
W. J. Lacey ...	554		

The first prize, consisting of a certificate and ten volumes of Cassell's Century Science Series, edited by Sir Henry E. Roscoe, F.R.S., is therefore awarded to

Mr. J. PATTINSON, 30 High Street, Wigton.

A certificate and book will also be awarded to Mr. E. Ockenden, of the Tasmanian Eucalyptus Oil Company, 133 Leadenhall Street, E.C., and to Mr. A. E. King, care of Messrs. Fuller & Co., chemists, Norwich.

The competition has been keen. The first prizeman's figures are 37, 94, 96, 100 (a first prize), 97 (a second prize), and 98 (a first prize). Here apparently was steady improvement. The second prizeman has obtained one first prize during the period, and so has the third prizeman. "Acetate" has been first on two occasions, his figures being 100, 98, 93, 85, 93, and 80—the last figure pulling him down from the first position. Mr. W. J. Lacey has also taken a first prize during the six months; so have "Sepia," A. E. Beeston, and "Van-de-burke." The competition as a whole shows the value of steady pegging away, and perseverance to the end. "Tyers" did not look a likely "first" last month, but his staying power and last effort have placed him in the most honourable position. Wednesday, September 1, is the last day of application for the next samples.

seemed to him the hair oil made a convenient surface for bacteria to fasten upon. Mrs. Hutton said she was told it was medicated oil, for a certain purpose, but she suggested the use of the tub instead. The clerk said it was nonsense to say the oil was medicated, and for the purpose suggested. Eventually the order was sanctioned, in spite of the remarks that had been made against the use of the oil.

Assaulting a Jersey Chemist.

At the Jersey Police Court, last week, a man named Monulu was charged with being drunk and assaulting Mr. F. G. Piquet, chemist, of Halkett Place. The accused said he had met with a mishap, and went to Mr. Piquet's to have the injury dressed, which was refused him; but complainant said the man came into his shop to have his hand bandaged, which he succeeded in accomplishing, though with difficulty, as prisoner was very drunk. He afterwards returned, and wished to have the hand rebandaged. He (Mr. Piquet) refused to repeat his work, and forcibly ejected his troublesome customer. The Judge sentenced accused to a fortnight's imprisonment with hard labour.

A Pill-hawker's Adventure.

Charles Hamilton (45), a hawker of pills and cough-lozenges, was at Birmingham Police Court on August 20 sent to prison for fourteen days for being on the enclosed premises of James Freeman, grocer, of Wheeler Street, for an unlawful purpose. About midnight on August 13 he was found in a warehouse where about 200*l.* worth of goods are stored. To get to this room he must have climbed a wall about 14 feet high. Hamilton's explanation was that he was drunk, and supposed he went into the place to sleep.

Drugs in Kent.

Dr. M. A. Adams, public analyst to the Kent County Council, reports that during the past quarter he has analysed seventy-three samples of drugs, of which two were adulterated, but the circumstances did not justify legal proceedings.

Photographic Exhibition.

A "National" Exhibition is to be held in the Portman Rooms, Baker Street, London, W., in April next. It will be open to the public as well as to dealers. Mr. Arthur C. Brookes, Temple House, Temple Avenue, London, E.C., is the Acting Secretary to the Exhibition.

Criquet.

On August 21 D. H. C.C. played Stevenson & Howell's C.C., and won by 95 to 38.

Davy, Hills & Co.'s C.C. v. Bolland.—Played at Stamford Hill on August 14. Scores: D. H. C.C., 123 for 5 wickets; Bolland, 75 for 7 wickets.

The Aldersgate C.C. (S. Maw, Son & Thompson) played the Faudels C.C. (Faudel Phillips & Co.) on August 21 at Dulwich. The Faudels made 83, and the Aldersgate had reached 116 for six wickets at the call of time. Mr. M. T. Maw was credited with a score of 56.

Wine-licences

Have been granted to the following chemists:—The Timothy White Company, East Street, Chichester; Messrs. Hunt & Co., High Street, Winchester; Mr. Thomas Jeeves, 88 and 89 St. George's Road, Brighton; Mr. Robert Harding Triekey, 35 Terminus Road, Eastbourne (this was a transfer to new premises); Mr. Edward King, Midsomer Norton; Mr. John Auderton Wilson, 10 Fazakerly Street, Chorley, Lancashire; Mr. R. T. Sager, Railway Street, Nelson, Lancashire.

At Haywards Heath annual licensing Sessions on August 23, Mr. Nathan George Beek, chemist and druggist, of Burgess Hill, applied for a wine and spirit licence. Mr. Enfield, barrister, opposed, and alleged that the applicant was convicted on January 25 of selling intoxicating liquor without a licence, and that that conviction disqualified Mr. Beek from holding the licences he applied for. The Clerk said that was so. The applicant could not have the licence for selling wine by retail; he was disqualified for ever. Mr. Enfield said his opposition was under section 22 of the Act of 1860, 23 & 24



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Water Analysis Fee.

At the meeting of the Barnstaple District Council on August 20, an account for two guineas was received from the analyst for analysing a sample of water. The Rev. J. Dene thought the charging excessive. He had only been charged one guinea for a minute analysis of water. Eventually the account was passed.

Hair Oil for Paupers.

At last week's meeting of the Wolverhampton Guardians, the clerk called attention to an order for two quarts of hair oil for the Cottage Homes, which the board were asked to sanction. He asked if the committee had considered the matter. It seemed a large order. The Rev. G. W. Johnson said perhaps it was medicated hair oil. Mr. Plant said he called attention to it in committee, and was told that the working classes used a tremendous quantity of hair oil (laughter). Personally he did not use any, and he did not think the children required it. The chairman said that it

Vict. cap. 27, which said that any person who was convicted of selling spirits without a licence was to be thereafter disqualified from selling wine by retail, and no licence to sell wine by retail was to be granted to any person so convicted. Mr. Beck said it would be in the recollection of the Bench that he was entirely misled by the Inland Revenue authorities and he did not think he ought to be made to suffer for the mistake of the Excise officials, who were still doing the very same thing now as they did in his case, that is they were granting retail permits to tradesmen. The Clerk said if the Inland Revenue Board chose to disregard the law the magistrates could not. There was not the slightest shadow on Mr. Beck's character. Mr. Enfield agreed that there was not the slightest imputation on Mr. Beck, but this technical offence had disqualified him from holding a wine licence. Mr. Beck asked that the spirit licence should be granted. Mr. Enfield said his objection to this was the same as in the case of the wine licence. Mr. Beck had forfeited his right to a licence through legal misconduct. The clerk said he did not hesitate to say that no legal misconduct had been committed, Mr. Beck sold under a permission granted by the Inland Revenue, and the Bench found that the Inland Revenue had no power to grant such permission.—The Bench granted the licence to sell spirits.

Unqualified Dispensing.

The Portsmouth Lunatic Asylum Committee have had before them a report that two of the ward-attendants, who are not qualified, have been in the habit of dispensing medicines for the patients. Recently one of them was found to be under the influence of drink, and was suspended from his duties, but he was reinstated by the committee. It was pointed out on behalf of the medical staff that the medicines prepared by these men were of a harmless character, but the committee, who apparently knew nothing of this arrangement, issued orders that in future no dispensing whatever is to be done except by duly-qualified men.

A Druggists' Dinner.

On Friday of last week Messrs. Evans, Lescher & Webb, of London, gave a dinner at the Café Royal, Regent Street, to the travellers and local representatives of their firm, and those of their Liverpool allies, Messrs. Evans, Sons & Co. It happened that a goodly number of these were in town together, and as several of the partners in the Liverpool house were also in London, they also took part in the festivity. The whole company consisted of Messrs. F. H. Lescher, London; Edward Evans, jun., Liverpool; E. A. Webb, London; A. B. Evans, Montreal; Edward N. Evans, Liverpool; Herbert Evans, Liverpool; John N. Evans, Liverpool; T. Edward Lescher, London; Harold Webb, London; and the following representatives of the Liverpool house:—John Blyton, Manchester; J. E. Parker, East Lancashire; A. Mills, North England, &c.; J. E. Jackson, Scotland; W. C. Brinson, Yorkshire and Midlands; George Brinson, North Wales; W. T. Willdey, Birmingham; H. C. Grimes, Ireland; John Park, Liverpool.

Of the London house:—H. George, Midlands; J. T. Collis, West of England; T. H. Smith, South Coast; D. H. Davies, South Wales; A. Clark, London; E. J. Hill, London; T. Fawssett, London.

Also, Mr. F. A. Chadwick, druggists'-sundries traveller; Mr. Tirebuck, shop-fittings traveller; and Mr. Nall and Mr. Rose, managers of the druggists' sundries and photographic departments in Liverpool and London.

A "Chemist" and his Wife.

At the Southwark Police Court on Tuesday, Alexander Ross, who described himself as a chemist, was charged with cruelty to his wife. The evidence of the wife went to show that she was in constant terror owing to her husband's violent conduct. The accused denied that he had been guilty of cruelty, and said he had had very great provocation. The case was adjourned for further evidence.

Poor-law Dispensers.

At the meeting of the Holborn Board of Guardians on Wednesday, a letter was read from the dispenser at the Highgate Infirmary asking for a fortnight's holiday, and that the Guardians will appoint a *locum tenens*. Some of the

Guardians thought that the medical officer could do the dispensing for two weeks, but the chairman of the Infirmary Committee said the doctors had already more than enough to do, because of the crowded state of the institution. It was decided to appoint a temporary dispenser. Mr. George Eade, chemist, of Goswell Road, was appointed chairman of the Dispensary Committee in the place of Dr. J. W. Hunter, deceased.

The Fraud on a Railway Company.

The man, John Adams, who was before the North London Police Magistrate last week on a charge of defrauding the London and North-Western Railway Company, came before Mr. D'Eyncourt on Monday, and said he was not a member of the firm of Adams, Webster & Co., of Hackney Wick, and the solicitor to the company had no right to say so. Mr. D'Eyncourt: You did not deny it at the time, and if you take my advice now you will allow it to drop, and not stir up the matter again. The applicant added that the solicitor was not warranted in making the assertion. The Magistrate: That is a matter between you or the firm you mention and the solicitor. But my advice is to say no more about it.

Messrs. Adams, Webster & Co. (Limited), write to us under date August 25, as follows:—"We are extremely surprised to see a note in your last week's issue, in reference to certain proceedings taken by the London and North-Western Railway Company against a Mr. John Adams, in which you speak of him as a member of this firm. How you came to give publicity to such an entirely erroneous statement we cannot tell. The defendant in the case referred to is not a member of this firm, and is in no way connected with it. We must ask you to give the same prominence to your correction as you have done to the misstatement, which has caused us considerable annoyance."

The "Chemist's" Family.

At the Lambeth Police Court last week, Robert Mays, described as a chemist, and Emily Mays, his wife, were charged on remand with wilfully exposing their six children. The evidence showed that when the prisoners were arrested they had a sovereign in their possession, while the children were in a dirty and exhausted condition. Both prisoners were sentenced to three months' imprisonment, with hard labour.

Assault on a Chemist.

On Monday, at the Lambeth Police Court, a young man, named James Fisher, was charged with assaulting Mr. A. L. Fowler, a chemist, of Battersea Road. The prosecutor stated that on Saturday evening he was walking along Brixton Road, when he was brutally attacked by the prisoner for no reason. The prisoner's defence was that he was drunk at the time. He was ordered to pay a fine of 40s. and costs, or go to prison for a month.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

A New Medical-hall

is to be opened in Kells by the Kells Medical Hall Company (Limited). The managing director is Patrick Smith, who describes himself as a contractor. He and Mary E. Smith, "married woman" (probably Patrick's wife), hold 193 out of the 200 shares of the company. Another married woman and a spinster, a grocer, a decorator, and a clerk make up the precious company. The establishment is to be "under the superintendence of a fully-qualified pharmaceutical chemist of high standing and extended experience," and is to be "furnished with an ample and up-to-date stock." Verily 2000. goes a long way in Kells.

The Inconvenience of not being a Chemist.

The Local Government Board has written to the Clerk of Guardians in connection with the proposal to pay 2s. a week to a substitute for the resident apothecary in consequence of the absence of the latter, and the inability of both the acting medical officers to compound medicines, either being a chemist. The Local Government Board asks the Guardians to their own arrangements, in which the duty of making up the medicines was entrusted recently to the medical officers, and state they see no reason why the additional expense should be imposed on the ratepayers.

Dividends.

The directors of Messrs. Henry Williams & Co. (Limited), who carry on a drug and general store business in Dublin, have declared a dividend at the rate of 6 per cent. per annum.

The directors of W. & H. M. Goulding & Co. (Limited), chemical-manufacturers, Dublin, have declared dividends at the rate of 7 per cent. on the ordinary shares and 5½ per cent. on the preference shares, besides paying 4½ per cent. on the venture stock. The sum of 1,552*l.* is carried forward.



...al newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Conference Memos.

A silk cape was found to be amissing when the trippers of the *Glen Sannor* returned to Greenock. Any one who has it should communicate with Mr. Robert McAdam, 34 Virginia Street, Glasgow.

The Conference photograph which we reproduced last week well, in spite of prophecies to the contrary—is about double the size of our print, and every face is a portrait. Messrs. George Bell & Co., 152 Sauchiehall Street, Glasgow, will send a copy securely packed, post free, for a 5s. postcard.

Dispute as to the Sale of a Chemist's Business.

Sheriff Davidson has given judgment in an action at the instance of Robert A. Wright, sole partner of the Hamilton Apothecaries' Company, Hamilton, against James Loboar, chemist and druggist, Cadzow Street, Hamilton. The pursuer sought for payment of (1) 300*l.* as the price of the goodwill of the business carried on by him in Cadzow Street; (2) 200*l.* as the price of the stock and tenant's fittings of the said business as fixed by valuation; (3) 50*l.*, the value of the business debts at the date of alleged sale, March 12, 1897; (4) 4*l.* 19s. 6*d.*, the debts which became due from the date of sale to the date of defender taking possession; (5) 6*l.* 5s., being the proportion of rent and taxes from the date of taking possession to Whitsunday, 1897. Pursuer's demand for payment was based on the ground that the sale was unconditional so far as he was concerned, the defender had taken possession of the business and was carrying it on. The defender admitted that he had taken possession, but pleaded that as pursuer had been unable to purify a condition in his offer that he should only be bound by it on his being able to arrange for his becoming tenant of the shop from and after Whitsunday, 1897, he was not bound to pay the sums demanded, and that he should be freed from his obligation. His Lordship finds that in March last the pursuer sold his business to the defender; that the offer and acceptance included goodwill and tenant's fittings, and debts due to the business; that the contract was conditional on the defender being able to arrange that he should become tenant of the shop from and after Whitsunday last; that that condition had not been purified; that the defender had, bowing to the fact, taken possession of the stock and tenant's fittings, and

that these were the property of the pursuer, and accordingly deems against the defender for the sum of 200*l.*, and finds neither party entitled to expenses.

French News.

(From our Paris Correspondent.)

THE DINGLEY TARIFF.—The United States is one of the best customers of France, and although the new tariff appears to be regarded here with equanimity, this may give place to other sentiments later. The exports of pharmaceutical preparations from France to the United States is not large, and the tariff does not materially affect them. Perfumery, however, which is an important item, is raised from 82 per gallon and 25 per cent. ad val. to 60c. per lb. and 25 per cent. ad val., and an appreciative fair sex in the sister Republic is doubtless willing to pay the increase.

DENATURATION OF ACETATES.—A tax of 62*l.* 50c. is levied in Paris upon every 100 kilos. of vinegar, with a corresponding amount upon acetic acid or acetates, which thus becomes a considerable obstacle in many industries. It is now proposed to admit the acetates and acid duty-free, provided they are denatured so as to unfit them for domestic use, or for conversion into vinegar. Altogether six methods of denaturing are suggested—viz., the addition of (a) 1 per cent. of methylene blue, ferric nitrate, copper sulphate, rhodamine or Victoria blue; (b) 2 to 3 per cent. of copper acetate; (c) 3 per cent. of vitriol; (d) 5 grammes of soluble naphthol, black, blue, red, or yellow, per litre of acetic acid; (e) 7 grammes of arsenic per litre, or (f) 2 grammes of lead acetate per litre.

MOVING WITH THE TIMES.—I notice that the old-established perfumery firm of Lubin is moving with the times, and intends opening large retail premises in the rue Royale here, which is vying with the rue de la Paix as the Bond Street of Paris. English visitors to this city who have had occasion to pass down the narrow rue Ste. Anne must have been surprised to find Lubin's fine shop there in modest retirement, but the traditions of the firm have been very conservative, so much so that until a recent date they would never undertake to deliver goods until three months after receipt of the order, all transactions being on a strictly cash basis. They have probably found it necessary to adopt more modern methods, and now a buyer can obtain delivery of the famous Lubin perfumes within a fortnight.

"N.Y. HERALD," M.D.—The well-known attention given by the better-class of Americans to their religious observances, and the special state of the laws which govern the practice of medicine and pharmacy in the United States, both find a weekly reflection in the Paris edition of the *New York Herald*. Every Sunday this newspaper publishes an excellent practical sermon, and also a lengthy medical article, the latter being written by a well-known Paris practitioner, Dr. Albert Robin, and translated by an American M.D. At present the medical subject under consideration is the "Treatment of Dyspepsia," in the form of a review on a recent work by Dr. Robin, entitled a "Treatise of Therapeutics." The readers of the *Herald* are told that "without any exaggeration, it may be said that the therapeutics of dyspepsia are in a state of complete anarchy. Many qualified experts are of opinion that dyspeptics are not so well cared for now as they were fifty years ago, in the days of Trousseau and Chomet. The latter were only guided by the clinical experience of their time, which, though manifestly an insufficient guide, was better than the dogmatic methods which now flourish." The truth (according to the *N.Y. Herald*) is that "chemical, motor, and circulatory troubles are complicated and interwoven, without these complications always being identical. The stomach forms a whole, which cannot be dissociated pathologically any more than physiologically"—which seems to be reasonable, though we are not sure that we understand it.

DR. LUY'S died suddenly last Saturday at Divonne les Bains, Ain, where he was passing the summer. M. Jules Bernard Luys was born seventy years ago in Paris. He took his medical degree in 1862. Early in his career he had

mental diseases a speciality, and was for many years director of the asylum at Ivry, Paris, a position he resigned a few years ago. His numerous works on the physiology and pathology of the human nervous system brought him celebrity. He was the first to point out two portions of the brain never before described, to which the name of *corpus Luysi* has been given. Dr. Luys made the most complete collection of human brains in existence, which he presented about three years ago to the Paris Faculty of Medicine. A little anecdote concerning the deceased specialist occurs to me. We were acquaintances, and I met him one day in a Paris bank. While waiting for our respective business to receive attention we chatted together, and he described to me in enthusiastic terms his collection of brains. While he spoke, a man walked up to the cashier and said, "I have brought a pair of boots" (a somewhat unusual thing at a bank), upon which Dr. Luys turned round and said, "Are those mine?" A moment afterwards a smile spread over his pleasant features, and turning to me he added, "This is the result of being so long in contact with demented people. I recently ordered a pair of boots, but it was very extraordinary of me to think this man could have followed me here with them." And we both laughed.

PHARMACY IN THE LAW COURTS.—A trade-mark case tried in Paris recently was of some pharmaceutical interest. The plaintiff, M. Moulin, a pharmacien, is proprietor of a special hair-pomade. A large number of labels bearing his trade-mark were stolen from his premises, and subsequently he found that they were being used on a pomade not of his manufacture. He traced the offending maker, prosecuted him, and claimed 30,000f. (1,200*l.*) damages for infringement. The case was proved, and the Court allowed M. Moulin 1,000f. (40*l.*) and costs. In the Nancy Law Courts a short time ago an action was brought by a pharmacien who bought a pharmacy from the defendant in 1880 for 30,000f. (1,200*l.*), half being for goodwill, fittings, &c., and half for stock-in-trade, one of the conditions being that the seller could not reopen business in the same department. Fifteen years afterwards, in 1895, the purchaser had to renew his lease, which was in the hands of his predecessor, but as they could not come to terms the former moved to a neighbouring shop. The defendant did not take this kindly, and established a young pharmacien in business in his old premises, but in the end they did not agree, which gave the plaintiff an opportunity of collecting evidence for prosecuting. After going through the case the Court allowed him 3,000f. (120*l.*) damages, the judgment to be advertised in a certain number of newspapers at the defendant's cost. Part of the plaintiff's claim was that the opposing pharmacy should be closed, but the judge would not allow this, stipulating as a condition, however, that the defendant's connection with it should be severed.

Colonial and Foreign News.

A SYPHILIS-MICROBE.—Professor Doehle, of Cologne, claims to have discovered and established the identity of the bacillus which produces syphilis.

RUSSO-JAPANESE TRADE.—Endeavours are being made by Japan to develop trade with Russia, and with this object an exhibition of Japanese products and manufactures is being organised at Odessa. A project is also on foot for the establishment of a line of steamers between the two countries, and the introduction into Russia of Japanese goods, such as camphor, silk, &c.

THE VICTORIAN CUSTOMS.—Messrs. Blogg Brothers, manufacturing chemists, Melbourne, have been fined 142*l.* 1*s.* 6*d.* for inaccurate entry, 100*l.* for making a false declaration, and 38*l.* 5*s.* 4*d.* the amount of duty evaded—in all 280*l.* 6*s.* 10*d.*—because their Sydney agents sent them 2 tons of arrowroot, entering it as sago-flour. The duty on arrowroot is 2*d.* per lb., while sago-flour is free.

THE BORAX INDUSTRY.—A large borax-refinery is about to be established near New York by Mr. F. M. Smith, who is known as the "Borax King." The new tariff, which imposes a duty of \$6 per ton on imported borax, will give the refinery an opportunity to compete in New York with borax imported

from Europe and South America. The borax will be shipped from Southern California in a raw state.

VANILLA IN EAST AFRICA.—The Austrian Consul Zanzibar, reporting upon the trade of East Africa, states that the results obtained so far in vanilla culture are almost negative. The most successful cultivators are the Catholic Mission, who have a plantation at Bagamoyo, and the van which they have cured and sent to Europe has fetched good prices. The Consul has good hopes for the future of the industry.

THE HAGER MEMORIAL.—The monument to the late Hermann Hager is now complete, and will be unveiled at Neuruppin next month. It consists of a large obelisk, upon which a bas-relief portrait of the veteran pharmacist and suitable inscription are placed. In connection with the memorial we observe that a young Neuruppin artist, Max Ackermann, has made a bust of Dr. Hager as he was in the prime of life, and this is being supplied by subscriptions, 10m. to all who send in their names and addresses to him. It appears to be a life-like production.

THEFT IN SOUTH AFRICA.—At Johannesburg on July 2, Harry Charles Tomsett, a young storeman to Messrs. Peters & Co., chemists, was charged with theft. The Public Prosecutor stated that for a long time there was a suspicion that things were stolen and sold to persons in Johannesburg. Tomsett admitted the allegation, and stated that another person had put him up to the theft. He received £200 a month salary, and yet was able to buy two bicycles for £6 in one month, and sat in the stalls of the Standard Theatre while his master occupied a 7*s.* 6*d.* seat behind him. Accused was admitted to bail at 150*l.* pending further evidence.

THE SWISS PHARMACOPEIA.—At the recent meeting of the Pharmaceutical Society of Switzerland held at Solothurn the appointment of a Pharmacopœia Committee came under and after considerable discussion it was agreed that the committee should consist of four pharmacists in business, four medical practitioners, two delegates of the Swiss Pharmaceutical Institute, and the Director of the Board of Health (Dr. Schmid, of Bern). The pharmacists appointed are Dr. Keller and Mr. Weber, of Zurich, Mr. B. Studer, jr. of Bern, and Mr. O. Kaspar, of Geneva. Professor Tschirren, of Bern, and Professor Brunner, of Lausanne, will represent the Institute.

LANOLINE-CREAM IS COLD-CREAM.—So it has been decided in Germany by those who tell pharmacists what to charge for this and that and who may sell them—which is one of the blessings of fully-protected pharmacy. It seems that an order was made in January, 1890, that cold-cream was a toilet article, and, therefore, that it could be sold by druggists—those gentlemen who are to German apothecaries what registered druggists are to pharmaceutical chemists in Ireland. A druggist has recently had to defend a sale of lanoline-cream, which the apothecars claimed to be a medicine, but the Court has decided it to be "cold-cream." The druggists rejoice.

THE ANNUAL REGISTRATION-FEE IN SOUTH AUSTRALIA.—The Pharmaceutical Society of South Australia has failed to establish its claim to an annual registration-fee from pharmacists. As already reported, an Adelaide chemist, after paying his annual registration-fee of 10*s.* 6*d.* for five years, declined to do so this year. A test-case was heard, and information was dismissed at the police-court recently. Justice Bunday, upon appeal, said that the Pharmacy Board had his entire sympathy; but the Act was the most loosely framed that he had seen, and was so constructed that though it was the evident intention of the Legislature that the renewal of the certificate should be made annually, technically he could not enforce it. A new Act will be necessary.

ALCOHOL COMBINE IN THE U.S.—A combination which includes every distiller and distributor of alcohol of any consequence in the United States has been formed to manage and conserve the spirits industry, and to superintend production and prices. The final details have been perfected, and meetings have been held in Chicago, Cincinnati, and New York for that purpose. The system is to be on the basis of a percentage-allotment plan, with special rules, regulations, and forfeitures imposed on distributors. Each distiller produc-

ore than his percentage allotment pays monthly into the ol a certain sum on the surplus. Each distiller producing ss than his allotment draws out a similar sum for each llon short. The prices, it is said, will be so adjusted as to ld a fair profit and not invite criticism from the consum- r trade, or possibly offer a temptation to outsiders to go to the business. An early advance in prices is considered ghly probable.

INTERNATIONAL MEDICAL CONGRESS.—This Congress was ened in the Imperial Theatre, Moscow, on Thursday, by e Grand Duke Serge. Count Delianoff, Minister of Public struction, delivered an address of welcome in Latin. The lowing were chosen as the honorary presidents:—England : William MacCormac, Sir William Stokes, and Dr. Simpson. rmany: Professors Virchow, Leyden, Ziemsen, and Wal- yer. Austria-Hungary: Professors Gussenbauer, Hlava, rtkik, and Rydyger. Switzerland: Professors Kocher and lux. The United States: Drs. Taylor and Billings. The egates to the Congress number 7,300, about half of whom e come from abroad. Tickets of membership have been iced to 2,400 Russian doctors, 800 Germans, 600 Austro- ngarians, 500 Frenchmen, 250 Englishmen and Italians, d about 100 other medical men of various foreign nationali- s. Through the courtesy of the Government all tickets of nbership serve as free first-class passes over all Russian rways.

EDINGTON AND THE RINDERPEST.—Still more news ut the Cape bacteriologist's experiments with the rinder- pt. We mentioned last week that he was very sanguine ut his glycerinated-bile method of inoculation, and since n it has been reported that Dr. Hutcheon, an authority othe subject, who was deputed by the Government to give unbiassed opinion of the new process, has, after hesitating t accept Dr. Edington's conclusions, recommended the adop- ti of his process generally. It will, he says, be much more onomical and certain in its application than Koch's h method, as many biles which have now to be rejected can n be used with safety, by which the percentage of cattle rained to be sacrificed for its production will be reduced fr 7 to 4 per cent. The mortality of cattle affected is eected to be reduced from 10 per cent. (under the Koch tment) to 1 per cent. In the new process, we may add, D. Edington glycerinates any kind of rinderpest-infected b, inoculates the animals with it, and ten days afterwards w a spinal-cord blood virus which confers immunity for e months.

GERMAN PHARMACEUTICAL SOCIETY.—The financial tement of the *Deutscher Apotheker Verein* for 1896 shows th the Society's receipts during the year amounted to 4805m., out of which it paid:—General expenses of the oety, 10,445m.; expenses of the Dresden annual meeting, 6,8m.; business expenses in Berlin (including cost of th *Apotheker Zeitung*), 12,622m.; and the cost of the *Archiv de Pharmacie*, 15,000m. All that is the Society's own ey, obtained from subscriptions. The German Govern- mt sees about the examination-fees, and the *Verein* has no hoice at all of getting hold of them; its publishing venture is ot, therefore, on a par with what happens in Great Brin. The annual meeting of the *Verein* has been held th week at Strasburg. The committee held its first mting on Sunday last at 9 A.M. The reception of mbers followed. On Monday evening the first formal mting was held at the Eden Theatre in the form of a con- ventione. On Tuesday morning the first business meeting to place. At 10 A.M. the ladies were taken round the itin carriages. Lunch for the Association was provided at 2, and a banquet was held at the Rheinlust at 5 P.M. Or Wednesday the day's programme was very similar, ex- cept that the banquet was held at the Orangery, and was folwed by fireworks. On Thursday an excursion to La Vælle and Hoh Koenigsbourg was arranged for. ¶

S.A.R. PHARMACEUTICAL SOCIETY.—The first annual banquet of the Pharmaceutical Society of the South African Republic was held at the Masonic Hotel, Johannesburg, on Ju 21, Mr. H. Trembath, President of the Society, in the chr., and Mr. E. J. Adcock in the vice-chair. The attend- ance was excellent. The principal toast, "The Pharma- ceutical Society, S.A.R.," was entrusted to Mr. T. W. Dukes, wh referred to the disadvantages and disabilities under

which the Society laboured. He said the Act attempted to protect chemists, but was most grossly prostituted, for frequently unqualified persons use the licences of qualified men, and so defeat the law. The only remedy for this, in his opinion, was the incorporation of the Society on the lines of the Pharmaceutical Society of Great Britain, which would do away with the present illicit trade in licences, and he hoped that the publicity given to the matter would help them to get a new Act. Messrs. E. J. Adcock and Victor Brown ably responded, the former advocating and advising incorporation, by which they could alone hope for Government recognition. He believed the new committee would do all in its power to improve the conditions under which the chemists worked, and thus better their position and make fraud difficult. "The Ladies" was given by Mr. J. H. Dinwoodie, and responded to by Mr. J. Heymann, while "Guests" and "Press" were also honoured. During the evening songs and recitals were rendered by Messrs. R. S. Weddell, Fletcher, J. W. Birrell, E. J. Adcock, and others. The proceedings terminated by the singing of "God Save the Queen." We may add, as showing the way things are done in Johannesburg, that thirty-five items appeared on the menu, including such delicacies as one expects to find in a first-class West-end restaurant. "His Honour the President" followed "Limburger."

Deaths.

DAVIS.—On August 23, at La Rocque, Jersey. Mr. Richard Frederick Davis, chemist and druggist. Aged 44.

DICKERSON.—On August 10, Susie, wife of F. P. Dickerson, chemist, late of Plymouth.

HANSON.—On August 18, at Lister Street, Winding Road, Halifax, Mr. Greenwood Hanson, patent-medicine dealer Aged 51.

HAMPSON.—On August 17, at Market Street, Westhoughton, near Bolton, Mr. Peter Hampson, chemist and druggist. Deceased had been in a delicate state of health for some time, and whilst on a visit to Wigan he fell to the ground cutting his head severely. He was conveyed home, but died from the effect of the injuries sustained. At the inquest held on Thursday in last week Dr. Doman stated that the cause of death was inflammation as a result of the injuries, and a verdict in accordance was returned.

PATTERSON.—On August 14, at Church Walk, Ulverstone, Mr. Geo. Patterson, chemist and druggist. Aged 74 years, Mr. Patterson was for many years in business in Stamford, and during that period took an active part in public affairs. He sat on the Town Council for a number of years as councillor, and afterwards as alderman, and in 1867 held the office of mayor. He was also a justice of the peace for the borough of Stamford.

RECKLESS.—On August 7, Mr. Arthur Henry Reckless, chemist and druggist, Ashbourne, Derbyshire. Aged 70.

ROOKER.—An inquest was held on August 19, at Brierley Hill, concerning the sudden death of Mr. Thomas Fletcher Rooker, chemist and druggist, of Brierley Hill, which we reported last week. Mr. Rooker, who was 65 years of age, was found dead in bed; and the jury found he died from accidental suffocation. He had been attended by Dr. Gifford, who had injected morphia, and it was conjectured the deceased turned over on his face in his sleep, and was not able to turn back again on account of his weakened con- dition.

TAYLOR.—On August 19, at Kendall, Mr. John Taylor, retired chemist and druggist. Aged 87. Mr. Taylor was originally a grocer in the town, but many years he added the business of a chemist and druggist, and with qualified managers gradually developed this to the exclusion of his first business. About six years ago he became totally blind, and then retired from the business, which his son undertook. On the Sunday before his death he fell down stairs and broke his thigh. The death was consequent on the shock.

WOOD.—On July 30, Mr. James Arthur Wood, chemist and druggist, late of Leicester. Aged 41.

Proprietary Articles Trade Association.

COUNCIL MEETING.

A MEETING of the Council of the P.A.T.A. was held on August 19, Mr. W. Jones, of Birmingham, President, in the chair. There were also present Messrs. A. Tebbutt and Herbert W. Seely (Halifax), Vice-Presidents, and Messrs. C. Sanger, H. Gadd (Exeter), B. Hirst (Leeds), J. Shorrocks, E. P. Sanger, S. M. Pickard (Bradford), F. Rowsell (Exeter), and A. Cooper. Letters of apology were received from Messrs. J. E. Garratt, J. Cocks (Plymouth), T. P. Garrett (Newport), T. S. Wokes (Liverpool), and John Williams, of Manchester. The latter wrote congratulating the officials on the success which the Association had achieved in, at any rate, lessening the evils of undue cutting in proprietary articles. He trusted that at the next banquet it would be possible to congratulate the grocers of the United Kingdom on having arrived at a like success. To the rank and file of the tradesmen of this country, whether they be chemists or grocers, the P.A.T.A., he said, could be made of more practicable benefit than any other of the projects that had been placed before them during his experience of forty years' trading. Of course, he added, "as with every other proposal made to tradesmen, we find some who, having fought for their own hand successfully many years, are loth to fall in line, but even with many who have achieved success I find a disposition to take up this movement as being the most beneficial of any that has been proposed. I enclose you herewith the name of a manufacturing firm whose goods are in great demand among grocers, who, I believe, will join the grocer's section when formed, and I have the names of several others to give you at the proper time who have assured me of the sympathy they have with your movement."

The Secretary (Mr. Glyn-Jones) read the report of the Executive Committee, which stated that during the five weeks which had elapsed since the last meeting of the Council there had been three additions to the protected list. Messrs. Raimes & Co. of York, had joined the wholesale section, 120 new retail members had joined, and twenty local secretaries had been appointed in as many new centres. The report then gave the results of the negotiations with the Grocers' Federation, and quoted the resolution which had been adopted at the Liverpool Conference urging proprietors to co-operate. Active measures would now be taken for forming the grocery section, and it was hoped that, as a result of the work during the winter months, an important list of grocery articles would be formed. The secretary had received numerous applications to visit various grocers' associations with a view to organising the work of the P.A.T.A. in those districts. During the past few weeks interviews had been held with some of the proprietors of photographic materials, but, owing to the holiday season, negotiations with several important houses had been delayed. This section would receive the attention of the Executive Committee during the coming weeks, and it was confidently hoped that before the next meeting of the Council it would be in working order. Circulars had been sent to various wholesale and manufacturing firms connected with the drug trade in reference to the provision made at the last meeting of the Council with respect to donations and honorary subscriptions. The following had already sent in donations:—Charles Sanger, F. Newbery & Sons, J. C. Eno (Limited).

The report having been adopted, the Secretary said he was anxious to get local associations throughout the country, who were actively supporting the P.A.T.A., to bring the movement before their members as often as possible during the winter. It was suggested that during the Grocers' Exhibition conferences should be arranged between prominent retailers and manufacturers, in order to obtain expressions of opinion as to the best means of starting operations.

On the motion of Mr. Seely, seconded by Mr. Pickard, the Secretary was instructed to point out to proprietors of articles, which were not numbered, that it was impossible to completely control the supplies of such articles.

It was reported that since the last meeting of the Council the official canvasser had visited a number of towns. The

Association continued to be well received by the majority of chemists, but grocers who had been called on expressed a desire to await the formation of a grocery list of protected articles before becoming members. About ten days spent in the Eastern counties resulted in the addition of over forty chemists. In Ipswich there were seventeen chemists, twelve of whom were members; in Norwich twenty-seven, sixteen of whom were members; and in Yarmouth nineteen, including sixteen members.

In view of the resolution of the Conference of the Grocers' Federation at Liverpool, it was decided to take immediate steps to form a grocery section, a preliminary committee of representative retail grocers to be formed to make arrangements for private conferences with the leading proprietor of grocery articles, with a view to the compilation of a "protected list." The secretary was also instructed to avail himself of the offers of a number of local grocers' associations to arrange visits, at which he could organise the work of the Proprietary Articles Trade Association amongst the grocers in their districts.

THE FIRST DINNER.

VERILY, the way of the cutter is hard, and his enemy the Patagonian, who dreameth of face values and dineth in the Holborn Restaurant, hath a good time. It is not often that the new man feasts, but being lean through long warfare with his enemy, and feeling need of a little of the jubilation of success, Thursday evening, August 19, was set aside for this particular and very first annual. Such questions as "Why has Liebig's extract of meat been withdrawn from the P.A.T.A. list?" did not seem to trouble Mr. Wm. Jones, of Birmingham, the President, when he took the chair, for to right and left of him were rows of wholesalers who support the cause, and the spur tables were dotted with smiling ladies, who sat beside zealous husbands and helped them to dispose of a dinner which had no flavour of the stores about it. If any Philistine or weak-kneed Patagonian were there he must have wondered why such a quiet hush prevailed, but perhaps the mixed morning dress was responsible for that. At any rate, we shall suppose that it was in part; but a muster of a hundred, besides the Press, was cutting it a bit low down for an Association of the kind. It seems that all pharmaceutical Great Britain and his wife was expected to flock to London last week owing to the Chemists' Exhibition, but when the time came not a score of provincials sat down at the table (nineteen, to be exact), and every one of these was so pure a Patagonian that he would walk through snow and ice to help the Association dine. Numerically, then, the dinner was not what it might have been, and socially at first it seemed to be off colour, but things began to look lively as soon as Miss Gertrude Snow sang "God Save the Queen." It is difficult to say whether the music or the speeches should be placed first. The music was very good, so were the speeches. Mr. President Jones, who is not in the remotest degree related to Mr. Secretary Glyn-Jones, is a practised speaker and a born chairman.



MR. WM. JONES



COUNCILLOR WILSON

disposed of "The Queen" in a way which charmed the softest Tory and pleased the Radical demagogue, and before we quite knew where we were we had our cigars alight, and Councillor Wilson, J.P., Ph.C., Mayor of Harrogate, was on his legs making us laugh at the way he proposed "The P.A.T.A."

One could not expect here, said he, the forensic skill which one hears at the blooming—he meant Bloomsbury—Square every year, for the eloquence there was old and crusted, and that here was young and crisp. But they were a brotherly help association, which just wanted a little more enthusiasm and a few more than 2,500 out of the 8,000 chemists to be a complete success. Hardheaded grocers had seen the good of it, but

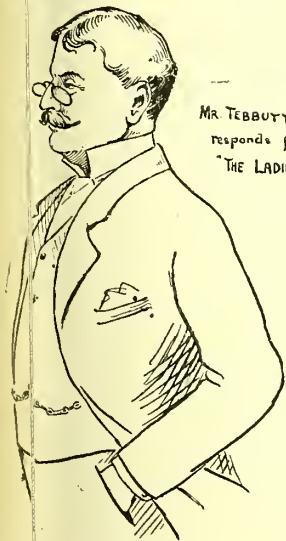
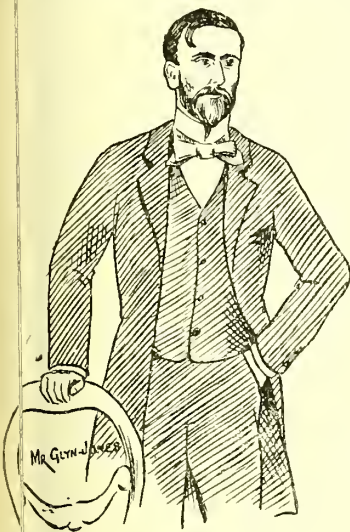
chemists were a wee bit slow to come in owing to the dignity and all that. They were like the old wife who said she didn't like gin. First she bought 3d. worth and drank it, then moralised on the sin of gin, and finished up by calling "Gimme other 3d. worth, and make me drink it." The Mayor then expounded the philosophy of cutting in a way which was all his own, and so laughably that we shall not write it all down for fear our compositors should have fits. Mr. Glyn-Jones replied in one of his best two minutes' speeches. He was in earnest, and the manner of the first five minutes of it reminded us of that superior person Mr. George Curzon's style—the words were precisely uttered, the sentences punctuated,

whereat they laughed at the very idea of the unsophisticated blessedness which permitted the tongue to stumble over their new watchword. Here our report would have ended had not Mr. Alderman Gadd, of Exeter, got up and made a funny speech in proposing "The Ladies." The P.A.T.A., said he, "probably attracts their attention" for it is "pleasing always to all" and much more of that sort of thing which made the *C. & D.* chide squeeze the champagne bottle—it was exceptionally dry stuff—the champagne. To make matters worse (*i.e.*, more laughable), Mr. Frank Tebbutt, of Sutton's, responded for "The Ladies." He took up the subject as one would expect an experienced bachelor to, and as solemnly as a colonel at the head of a mess table takes up "The Queen," but before he was done he had everybody, even the ladies (who did not stand to the response) screaming with laughter. We were getting on by this time, but Mr. Arthur Weston stepped in with "Mary of Argyle," so Mr. Chas. Sanger made short work of "The President and Officers," for whom Mr. W. Jones and Mr. G. R. Barclay replied.

We have got so much into the way of expecting pharmaceutical chairmen to do everything, that Mr. Jones's comparative silence made one wonder if some part of the machinery had gone wrong. His reply disabused the mind of that. He said that the P.A.T.A. had been established for the benefit of the whole of us, and he could not understand why the majority of the trade do not support it. He was glad to hear that the strength of the Association was 2,500 members, or more. Mr. Glyn-Jones had done very hard work indeed for them, and the prosperity of the Association depended almost entirely upon him. A great deal had been said in a certain trade journal [*'twas so he dignified the Ph. J.*] in which they seemed to be attacked for their association with the grocers; but he did not think there was any harm in co-operating with the grocery trade. They had associated themselves for the purpose of trying to improve their position, and surely the position of the trade at the present time was most lamentable; it had got down as low as it possibly could when customers came and dictated to them as to what prices they should sell their articles. He recalled that Birmingham chemists were on the eve of perfecting a scheme when Mr. Glyn-Jones visited them, saw what they were up to, and the P.A.T.A. was the result. He hoped they would not attempt to do too much on their subscription of 5s., for that was the cause of the collapse of the old Trade Association some years ago. Above all things, he trusted they would have a fair field, and that West-enders who lived on pure pharmacy would not throw cold water on their efforts, which was bad taste indeed. "Hear that," said the hundred. Mr. Barclay then spoke a sentence and the quartette sang "Good Evening."

PROFESSOR J. V. SHOEMAKER, of Philadelphia, has tried celandine in cancer, and all his trials have resulted in failure.

"THE SECRET OF MY COMPLEXION IS LARD," said Adelina Patti to a friend, as reported by "Lady Charlotte" in the *Daily Mail*. "I get 1 lb. of fat mutton. Upon a little alcohol-stove in my room I 'try it out.' Slowly the grease simmers in my little white dish until there is a warm cupful of fat. This I run through a little silver hair-sieve, and stir in as much glycerine as there is fat and add a few drops of perfume. I keep stirring gently until it begins to harden. Then I put it in little stone jars. Every night I massage with this cream. If there are any wrinkles my maid rubs them with it. In the morning I rub it off."



Mr. Tebbutt responds for "THE LADIES."



Mr. G. R. Barclay

considered to be their right—viz., that they should be adequately and fairly paid for the work they did, both for the proprietors and the public. The way in which Mr. Glyn-Jones's tongue underlined "The Proprietors" was a warning to those who hang fire. "The Visitors" gave Mr. John Moss a chance which he made the most of; and Mr. G. A. Champion, of Durban, in replying, made the Patonian mouth water with his tales of that land where they do not neither do they feel the need for a "T.A.—P.A."

Legal Reports.

THE PHARMACY ACT IN JERSEY.

AT last Saturday's sitting of the Royal Court of Jersey, Mr. John Anley (formerly in business in Library Place, and more recently in New Street) applied for registration as chemist and druggist, as having been established in business as such in Jersey for the last fourteen or fifteen years and till June last. Mr. Anley had latterly experienced misfortunes, his effects having been distrained and sold, so that his business was closed. He, however, intended reopening in King Street, but when the Pharmacy Act was passed, it was at such short notice that he found himself without a place of business at the moment of its promulgation. Advocate Durell, who appeared for Mr. Anley, having stated these facts, the Bailiff (Chief Magistrate), Sir George C. Bertram, observed that Mr. Anley was not in business at the time of the promulgation of the law, and so apparently could not register under that section. Advocate Durell said this would mean complete ruin to his unfortunate client. Sir George replied that the Court could only act according to the law. If Mr. Anley were registered, a man who had been in business as chemist in Jersey twenty years ago might similarly claim registration. Advocate Durell quoted from Article 4:—"The chemists and druggists already established and practising their profession in this island on the promulgation of this Regulation may obtain, as a special concession, the said permission of the Royal Court without presenting diplomas as specified by Article 2 of the present Regulation." He urged that Mr. Anley was established in business before the promulgation of the Act. The section, he argued, need not be interpreted as definitely specifying that applicants for registration should have a shop at the precise moment of the law coming into force. Mr. Anley had, as a matter of fact, dispensed and supplied medicines since June. The Chief Magistrate reminded counsel that on a previous occasion he had argued that a man established in business only a single day before the law was promulgated could rightly claim registration. The contention now seemed to be precisely the opposite of his previous one. "Well," replied the advocate, "the Court was unwilling to accept my previous argument; it cannot, therefore, refuse to acquiesce in my present contention. Surely I cannot be wrong on both sides." (Laughter, in which the Bench joined.) Sir George, having received explanations as to the cause of Mr. Anley's having given up business, said it was evident that his temporary retirement was due to *force majeure*. Having consulted the two Jurats by his side, the Bailiff said the article quoted did not definitely specify that those applying for registration must be in business at the actual time of the law's promulgation, though he considered that was an obvious *lacuna*, and did not represent the intention of the legislator. Mr. Anley, however, was entitled to the benefit of the omission, and he would, therefore, be duly registered.

Mr. Alfred Robt. Walden (Gorey Village), who had failed to apply for registration at the previous sitting of the Court, but was actually in business at the time of the law's promulgation, was registered without comment; as also was Mr. John Culshaw, assistant to Mr. Francis George de Faye, David Place, Bath Street, he presenting the necessary diplomas entitling him to be registered under the Act.

WILLIAMS'S PINK PILLS.

AN action was brought in the Prahran Court (Victoria), and after several hearings was disposed of on June 7, in which the Pharmacy Board of Victoria prosecuted one C. C. Taffs, who, not being registered for the sale of poisons, had sold some Williams's pink pills. At first the prosecution tendered the analyses of certain pills bought from a neutral firm, but which were not the exact pills sold by Taffs. This evidence was objected to, and the case was adjourned so that the pills actually sold might be analysed. The evidence of the Melbourne Government analyst, Cuthbert Robert Blackett, showed that each pill contained less than $\frac{1}{1000}$ gr. of arsenic. Andrew William Craig, lecturer on chemistry at the Melbourne College of Pharmacy, testified to analysing some of the pills and finding the presence of arsenic. For the

defence, an analyst named Frederick Dunn stated that he found ten pills to contain .03 gr. = .025 of arsenious acid. The box contained 30 pills = .076 gr. arsenious acid. 1 pill = .0025 gr. = $\frac{1}{400}$ gr.; the whole quantity taken daily $\frac{1}{20}$ gr. The pills were coloured pink and coated with sugar and farinaceous matter. The pills for the most part consisted of ferri carb., pot. sulph., and organic matter. Charles Edward Fulford, the Australian representative for G. T. Fulford, of New York, proprietor of Dr. Williams Medicine Company, swore that he did not know the component parts of the pink pills. They were manufactured in New York, and came out in bulk. On examination he said: "Dr. Williams does not exist at present; he never existed. The pills are made up from the prescription of a medical man. The pink pills contain more ingredients than Bland's pills, according to Mr. Dunn's analysis." Charles Stewart, a qualified medical man, said that a whole box of the pills taken for a dose would do no harm, and that children could take larger doses of arsenic than adults. The case was heard by five justices, and the chairman, Dr. Featherston, in giving the decision of the Bench against the Pharmacy Board, said, "The majority are for dismissing the case, but I disagree with them." The defendant was allowed 10*l.* 10*s.* in costs. The Pharmacy Board has appealed against the decision, and the question will shortly be decided in the Supreme Court.

COUNTY COURT CASE.

A DRUG-TRAVELLER'S CLAIM.

IN the City of London Court on August 23, before the Assistant-Registrar Tattershall, Mr. John O. Boulton, traveller in the drug-trade, 33 Godwin Road, Forest Gate, sought to recover from Messrs. H. E. Stevenson & Co., manufacturing chemists, 130 Southwark Street, the sum of 4*l.* 18*s.*, commission alleged to be due to him as traveller under an agreement. It appeared that the defendants agreed to pay the plaintiff the sum of 1*l.* a week for his expenses, and in addition a commission at the rate of 10 per cent. on sales of fine drugs, 5 per cent. on sales of other drugs, and 2 per cent. on sales of heavy drugs, the explanation of the various drugs being that the fine ones were those which were made up of concentrated essences and such like, and sold in small quantities. The heavy drugs were those sold in cases, such as creosote, oils, Epsom salts, &c. The plaintiff entered the employment of the defendants in October, 1895, and terminated his engagement in January, 1896. He produced in court a list of the orders taken by him on which he claimed commissions. A list of forty-five customers was produced in, which necessitated comparison with the books of the defendants. A discussion arose in many instances as to the amount of commission payable on the individual orders. In many cases it was necessary for the Assistant-Registrar to decide from the evidence which chemicals were "fine" or otherwise. In many of the orders parts were for one description at 10 per cent., others at 5 per cent., and others at 2½ per cent. Some of the orders had been executed, but customers had not paid their accounts. It then became a question when the plaintiff was entitled to his commission, whether on receipt of the order, or whether he had to wait until the account had been paid. The plaintiff elected to stand by the list put in, and notified his intention to bring an action for any future amounts that might be received by the defendants upon the orders obtained by him. The defendants claimed that quinine was a "heavy" drug, commission on which was 2½ per cent. Chemical food they allowed at the rate of 5 per cent. Essential oils in small quantities were reckoned as "fine" goods, and rated at 10 per cent. commission. After the plaintiff had worked for the defendants from October, 1895, to the following January, he wrote to him saying that his representation had been unsatisfactory, so that for the future they could only pay commission, and not any salary. The Assistant-Registrar went through each item of the accounts, and in the result found that the plaintiff was entitled to commission of 10 per cent. on 24*l.* 5 per cent. on 41*l.* and 2½ per cent. on 38*l.*, making in all 5*l.* 8*s.* 6*d.* From that had to be deducted 12*s.*, which had been paid him by the defendants, this reducing the amount to 4*l.* 16*s.* 6*d.* Judgment was given for the plaintiff for this amount.

NEAVE'S TRADE-MARK.

The Full Court of Victoria on July 19. J. R. Neave & Co., proprietors and manufacturers of Neave's farinaceous food for infants, applied to have the trade-mark "Neavis" expunged from the register of trade-marks. It had been registered by John Heffernan, of Melbourne, in respect of flour prepared by him in a particular manner. The applicants objected that "Neavis" so nearly resembled their trade-mark "Neaves" as to be calculated to deceive the public. The origin of the word "Neavis" was set out in an affidavit, which stated that Mr. Heffernan was discussing with a friend the question of a suitable name for his flour and happened to see the words "Hovis bread" in an advertisement. It was then suggested that as "Hovis" could not be all the name "Neavis" would do as well. At the same time it was stated that there was no intention to interfere with Neave's trade-mark. The Chief Justice, in delivering the judgment of the Court, said there was so great a similarity between the names as to be likely to deceive even an educated section of the public. Although Neave's food was sold in small tins, and Heffernan's flour by the sack, it would not prevent the public from being deceived. The application would be granted with costs, and an intimation would be given to the registrar of trade-marks to rectify the register by the removal of the mark "Neavis."

SPIRITUOUS HERB-BEER AND HOP-ALE.

Huddersfield on August 20, James Albert Helliwell and Robert Henry Ramsden, mineral-water and cordial manufacturers, were summoned for having sold hop-ale which was found to contain 3½ per cent. of proof spirit. Mr. Turner, who appeared for the defendants, said they were not practical men, but had purchased the business as an investment, the business being carried on by a foreman who was in the employ of the former proprietors. Fined 3*l.* 17*s.*, including costs.

Oldham on August 19, Tom Ramsden was summoned for selling a pint of herb-beer which was found to contain 3¼ per cent. of proof spirit. Defendant said he had purchased the beer of a Mr. Horrocks for the last eighteen years, and had never had a single complaint. He did not know it contained any spirit. He had not been indemnified by the manufacturer. The supervisor stated that the defendant was liable to a penalty of 50*l.* The Chairman said no doubt the defendant had acted in ignorance, and he thought justice could be met by a fine of 5*s.*, and costs. He declined to allow for witnesses' expenses, as he thought the Government should very well afford to pay them.

CATTLE-MEDICINES RESTRAINT.

The action of Jackson v. Chapman came on Wednesday before Mr. Justice Byrne, sitting as the Vacation Judge. Mr. Baker, on behalf of the plaintiff, asked his Lordship to restrain the defendant until the trial of the action from selling Chapman's Royal Drink for Cattle or other cattle-oil animal-medicines similar to those made by the plaintiff, in contravention of a covenant which defendant had made in a deed of partnership with the plaintiff dated 1895, that on the dissolution of the partnership—which event had occurred—he would not within the parliamentary borough of Grimsby carry on a business of a similar kind to that conducted by the partnership. The capital of the business, Mr. Baker said, included the goodwill and the recipes for making cattle-oils, pig-medicines, and the like, which the plaintiff and his father (the inventor) before him had made and sold for many years. Since the dissolution defendant, it was charged, had been making and selling the identical medicines, and he was also, personally and by notices, soliciting former customers of the business, as he had covenanted not to do. Counsel for the defendant at some length submitted that he had not exceeded the rights reserved to him under the deed of partnership in making cattle-oils, all of which, he said, closely resembled each other; but he repudiated having interfered with plaintiff's business in such a way that he should be restrained. His Lordship, however, granted the interim injunction asked for, though not in the precise words of the notice of motion.

Bankruptcies and Failures.

Re C. J. WILLIS, formerly of 18 Clarence Street, and of St. Mark's, Cheltenham, Chemist and Druggist.

The examination of this bankrupt was resumed at the Cheltenham Bankruptcy Court on August 12. It appeared in the course of the examination that the St. Mark's business had been sold to a Mr. Clare for 20*l.* Mr. Clare is not qualified, and had bought the business to benefit the debtor. He was paying him a salary of 78*l.* The debtor attributes his misfortunes largely to his having become security for his father for the sum of 625*l.* He could not remember whether he had informed his other principal creditors of this liability. Questioned by Mr. Stroud, his own solicitor, he said he gave up a good situation at Brighton, with the prospect of a partnership, to go to Cheltenham to help his father.

The Registrar: It does not appear to have been a very wise thing to do. Then you started in business here as a chemist. How could you carry on the business of a chemist without capital?

Debtor: One could start a chemist's business on a small capital.

But you had none at all, and in addition you were surety for 625*l.*?—I signed the bill on the clear understanding that I should have about half of the 625*l.*; but when I applied for it I found it was all swallowed up by Willis & Co.

Mr. Stroud: And it is Willis & Co. that have been like a millstone round your neck?—Yes.

The Registrar: Of course it would be, and it was your client's duty to find out the liabilities of Willis & Co. before he put his name to the bill. That is one of the charges against him.

Mr. Stroud: Yes, but one has to take into consideration the matter of sentiment. It was quite right of him to help his father.

The Registrar: Decidedly not, at the expense of his creditors.

The debtor said he had no creditors then. He came because his father appealed to him.

The Receiver: I don't see that there is any credit to you to get into debt in this way. There is no merit in leaving Brighton in order to get into the debt of people in Cheltenham.

The Registrar, in closing the examination, said he was by no means satisfied with many of the answers given by the debtor. He had heard from the Official Receiver that the furniture claimed by the father—wrongly claimed as he (the Registrar) thought—had now been sold as part of the present bankrupt's estate. He did not think the debtor had told the truth with regard to that transaction; but as the furniture had now been sold for the benefit of his creditors, there was no object in keeping the examination open.

Re ALFRED EDWARD EVANS, Brynmowr, Chemist and Druggist.

THE Official Receiver reports on this case (in which the discharge has been suspended for two years) that the receiving-order was made on August 1, 1896, on the debtor's own petition. According to bankrupt's statement of affairs, the liabilities to rank for dividend were estimated at 1,289*l.* 14*s.* 10*d.*, but the proofs actually admitted were 1,310*l.* 8*s.* 5*d.* The assets were estimated to produce 260*l.* 10*s.* But they have already realised 303*l.* 13*s.* 5*d.* The difference is accounted for mostly by the successful realisation of the stock-in-trade. A first and final dividend of 3*s.* 4*d.* in the pound is expected to be paid. The debtor commenced business as a chemist and druggist about thirty years ago, with a capital of 60*l.* His shop at Brynmowr was superintended by himself, his branch shops at Blairston and Ebbw Vale being left in the charge of managers, in the selection of whom he was unfortunate, his failure being attributed to this cause. The managers had to account to him weekly for the cash taken, but he never took stock, and had no means of checking the cash received by them. The only books of account kept were a ledger and day-book at

each shop, and the debtor was consequently unable to ascertain his financial position.

R. JOHN WILLIAMS, 25 George Street, Pontypool, Monmouth, Chemist, &c.

THE following are the Official Receiver's observations on this case:—The receiving-order was made on the debtor's own petition. The debtor informed me on his preliminary examination that about twenty-two years ago he started business at Usk, as a chemist and veterinary surgeon, where he purchased a business for 320*l.*, which amount he borrowed. He traded there until the year 1884, when he sold the business for 325*l.*, and then removed to Abersychan, where he carried on a similar business until January 4, 1897, when he sold that business under an agreement of that date, together with a branch business, which he had opened at Pontypool, in June, 1895, to his son, Augustus John Williams, for 600*l.* (350*l.* for the Abersychan business, and 250*l.* for the Pontypool business), who paid 130*l.* down, and agreed to pay the balance by instalments of 2*l.* per week as to the Abersychan business, and 1*l.* 10*s.* per week as to the Pontypool business. At the date of the receiving-order, he had received from his son on account of such instalments, 90*l.* 16*s.* 3*d.*, leaving a balance of 379*l.* 3*s.* 9*d.*, which is included in the book debts, treated as "good" in the summary. The property estimated to produce 13*l.* in the summary is a horse, which he acquired since the sale to his son above referred to. The lease of the premises which he occupied at Pontypool, at a rental of 35*l.* per annum, expiring in the year 1900, is deposited with a firm of money-lenders, who are scheduled as unsecured creditors for 43*l.* 16*s.* He attributes his failure to ill-health, domestic trouble, and expenses incurred thereby, and claims that he is not insolvent, and filed his petition in consequence of several creditors suing him. The books of account kept, consist of day-books, sale-ledgers, and a cash-takings book. The debtor estimates that his income during the past three years was about 150*l.* per annum, and that his expenditure for the same period down to December 5 last, was about 4*l.* per week, and since that time to about 2*l.* per week. According to the statement of affairs the unsecured liabilities amount to 246*l.* 15*s.* 3*d.*, and assets estimated at 436*l.* 1*s.* 5*d.*, from which 13*l.* 1*s.* has to be deducted for preferential claims, showing a surplus of 176*l.* 5*s.* 2*d.*

Deed of Arrangement.

Shackleton, George, 25 Edmund Street, Little Horton Lane, Bradford, late of 17 Otley Road, Shipley, chemist and druggist and vendor of wines and spirits. Trustee, William M. Gray, Bradford, chartered accountant. Dated, August 13; filed, August 18. Liabilities unsecured, 238*l.* 12*s.* 11*d.*; estimated net assets, 71*l.* 17*s.* 11*d.* The following are scheduled as creditors:—

	£	s.	d.
Gilbey, W. & A. (Limited), London	16	0	0
McMilly, J., Leeds	100	0	0
Rocke, C., Huddersfield	30	0	0
Shackleton, Mary A., Bradford	70	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Lyon, W., and Williams, O. F., under the style of William Lyon & Co., Liverpool, glass-bottle merchants.

Rodenhurst, W. H., and Kenworthy, J., under the style of Rodenhurst & Co., successors to D. A. Buchanan, Liverpool, mineral-water manufacturers and ale and porter bottlers.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Morton, H., Parade Buildings, Deptford Bridge, S.E., chemist.

ADJUDICATION.

Angell, Arthur, Shirley, Southampton, public analyst.

SCOTCH SEQUESTRATION.

August 17.—**Allan Hugh Bremner,** chemist and ironmonger, The Street, Thurso, in the parish of Thurso and county of Caithness. Creditors to meet in the Court House, Thurso, August 31, at 12 o'clock.—**D. Keith Murray,** solicitor, Thurso, agent.

Personalities.

MR. WICKHAM, of McKesson & Robbins, New York now in England on business.

MR. JOSEPH BEECHAM, of St. Helens, has been elected member of the New York Drug Club.

MR. B. T. FAIRCHILD, of Fairchild, Brothers & Foster, New York, arrived in Liverpool the other day for a short stay at this side.

SAYS Captain Coe, of the *Star*, "On September 6 next Lillian, the youngest daughter of Bob Moody, will be united in the bonds of matrimony with Mr. Hugh Handley, chemist, of Andover. Robert Moody is well known as a protector of the racing public in the various rings."

THE *City Press* of August 25 contains a pleasant written biography, with a portrait, of the veteran druggist Mr. Arthur S. Hill, who was born in 1802, and who narrates to the interviewer his recollections of the Jubilee of George III, the funeral of Nelson, and the Battle of Waterloo.

MR. CHARLES LE SUEUR, of Jersey, who, as stated last week, carries on a cycle academy as well as a pharmacy, states that it is not correct to say that he leaves his pharmacy under the supervision of an assistant. He says he superintends his pharmacy, and as a rule leaves his cycle show to the supervision of an able foreman and assistant.

Business Changes.

Notices of changes in the retail trade, and opening of new businesses, are inserted in this section free of charge, if properly authenticated.

MESSRS. ACHONG, RICHARDS & Co. have succeeded to the business of Reece & Co., Centennial Pharmacy, 31A King Street, Port of Spain, Trinidad, W.I.

MR. E. A. Holloway, of Torquay, has taken a permanent London office at 63 Finsbury Pavement, E.C., for the sale of his coca wine. The sale or return system has been withdrawn.

MR. WALTER ASTEN having sold his business 580 Coventry Road, Small Heath, Birmingham, has opened a new pharmacy in the High Street, Erdington, near Birmingham.

MR. RALPH CUTHBERT, of Huddersfield, has taken premises next door to his pharmacy in Westgate, which are to be used specially for the sale of photographic and other chemical and scientific apparatus and appliances. A dark room will be available for the use of customers.

THE Australian colonies absorbed 90.6 per cent. of the import trade, and 92.2 per cent. of the export trade of Fiji in 1896. The imports into the colony for that year amounted in value to 242,492*l.*, while the exports were 435,342*l.*

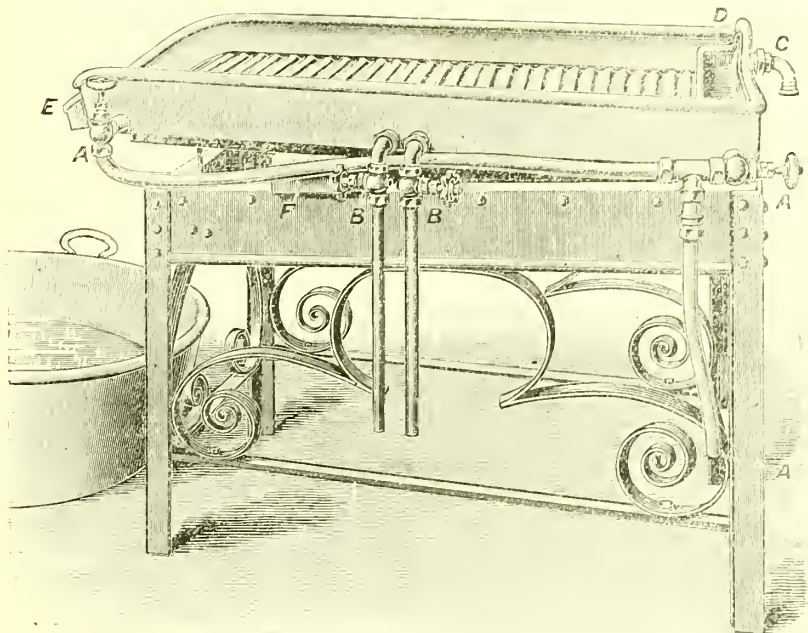
THE TREATMENT OF LEPROSY.—The Secretary of the Colombian Academy of Medicine has addressed a report to the kindred academy at Paris giving details of a serotherapy treatment of leprosy by Dr. Juan de Carrasquilla. It consists in inoculating, with the serum of the blood of a leprosy patient, first a goat and then a horse. At the end of a few days the horse-serum is abstracted and put in tightly-corked bottles away from the light. The doctor has treated leprosy patients with hypodermic injections of the attenuated serum, beginning with $\frac{1}{2}$ c.c., gradually increased to about 20 c.c. daily. A general improvement of the patient's condition resulted.

Novelties.

EVAPORATING-TRAY.

As we have seen in use in several wholesale laboratories during the past two years the excellent evaporating-tray which is figured here, and which has been patented by Messrs. R. Sumner & Co., 50A Lord Street, Liverpool. It consists of a corrugated-copper tray moving on a central screw (not

articles, manufactured by Neidlinger Brothers, of New York for which his firm have acquired the European and colonial agency. The most important of these is the "Sterling" tablet-machine, which costs complete, with two sets of dies and plungers, at 2*l*. Our illustration shows the apparatus, which stands about 18 inches high, and can be screwed to the counter. The machine has the great advantage that compressed tablets of any dosage can be made with it. The powdered drug is weighed and put in the hole just below the puncher. The cam at the bottom of the machine moves round, and can



shown in the figure), which sets the pan at the incline desired. Dry steam enters the pan at the two pipes A A, a, passing through the corrugations, escapes at B B. The liquid to be evaporated is introduced at C, where it falls into a perforated trough D, which distributes it equally upon the whole width of the tray. The rate of evaporation is determined by the angle at which the tray is set. If the angle is acute the liquid flows down quickly through E, and is therefore, slightly concentrated, and as the angle is decreased evaporation is increased until at the level a perfectly dry extract can be obtained. As we have seen it in practice the tray works well, and those who use it are delighted with it. The idea of evaporating liquids by allowing them to flow down a heated incline is, we ought to say, not novel, Bernard Dösne having carried it out for pharmaceutical purposes in 1830, and his apparatus has been improved upon in France; but Messrs. Sumner's tray is different in construction, and they have received a French patent for it.

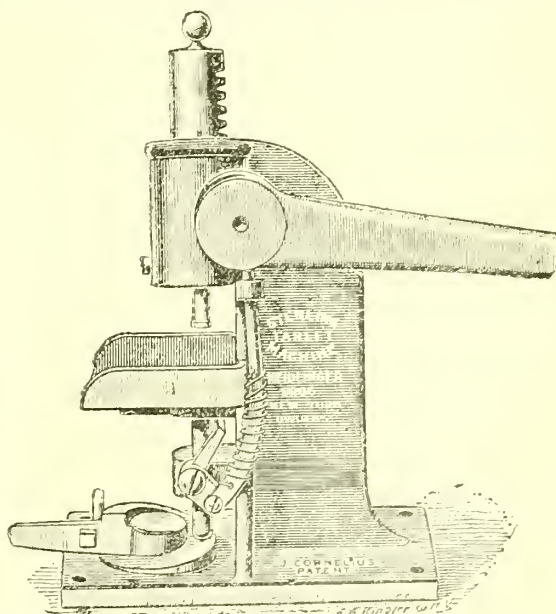
"LUXURIA" BATH-TABLETS.

M. CARMICHAEL, of 153 New Bond Street, W., has added to his toilet-specialities boxes of bath-tablets, which are distinguished by the apt title of "Luxuria." They perfume the bath or the washing-water, and tend to soften it. These bath-tablets are now very popular with ladies of the upper classes, and Mr. Carmichael's products are sold at a reasonable price, and answer their purpose admirably. They diffuse a very delicate odour, and dissolve as soon as they are dropped into the water.

SOME NEW NOTIONS: AMERICAN AND OTHER.

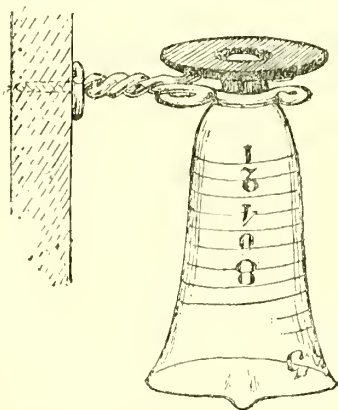
M. MARSHALL, of Marshalls (Limited), 27 Red Lion Square, E.C., has shown us some excellent American

be put at any height required, and kept stationary by means of a pin fitting in the hole in front of it. The higher the cam the higher will be the die upon which lies the material



for compressing, and the smaller, therefore, the tablet. The working parts of the machine are of steel and interchangeable, and each machine has two sets of moulds and plungers, making tablets respectively of $\frac{3}{16}$ inch and $\frac{6}{16}$ inch in

diameter. The tablet is made by pressing the handle of the machine, and delivered, automatically and free from all dirt, below the die. In most machines with which we are familiar the tablet is delivered on the platform, where it is easily brought into contact with loose powder. In this respect, therefore, the "Sterling" machine is a distinct improvement. The next thing to which our attention was called was a graduated measure, in glass, with detachable vulcanite foot. The trouble with all dispensing-glasses now is their liability to have the foot broken, which renders the glass useless. In the case of the glass under notice the foot



is hardly breakable, and, although the glass with foot is about double the price of an ordinary measure, it is claimed that, in the long run, the difference is more than saved by the durability. With this measure is sold an ingenious holder, which can be screwed on anywhere, and keeps the measure dry and safe from breakage.

Mr. Marshall is also agent for the Marvine Syndicate (Limited), manufacturers of the Marvine geloids, or "concentrated food and drink tablets." The tablets, of which sixteen are put up in an elegant tin box, consist of meat extract, combined vegetable extract, and a certain proportion of acid, the last being intended to fulfil the duty of a thirst-quencher. The box retails at 1s.

Trade Notes.

We said last week that Condal is a table-water: it is an aperient.

ST. JAMES'S BUDGET has a smart reporter. He visited Covent Garden Theatre last week, and wrote a column about it. For him there were two exhibits only, Messrs. Parke, Davis & Co.'s and Stallman & Fulton's, with the result that he writes large and learnedly about Taka-Diastase and compressed rhubarb.

MESSRS. LANGTON, EDDEN & Co., 38 Wilson Street, Finsbury, E.C., are offering for sale by tender, through Messrs. Toplis & Harding, 66 Cannon Street, E.C., the whole of their stock-in-trade, comprising turmeric, cascara, senna, aloes, liquorice, scammony, essential oils, essences, and a large assortment of drugs and pharmaceutical preparations. The tenders will be opened on September 4.

MR. ANDREAS SAXLEHNER, of Budapest, and Charing Cross, W.C., the proprietor of Hunyadi Janos, had a stand at the Chemists' Exhibition last week, but the notice of the exhibit was inadvertently omitted from our report. The Hunyadi Janos water, and its excellent aperient properties, have been so often commented upon that it is impossible to say anything new in their praise; but we may observe that the gentleman in charge of the firm's stand reported that business is extremely satisfactory and still increasing.

MR. JOHN MORGAN RICHARDS, of Holborn Viaduct, E.C., announces in this issue a novel competition for chemists and their assistants. He proposes to distribute 100*l.* amongst them in 213 prizes—1st, 20*l.*; 2nd, 10*l.*; 3rd, 5*l.*, and so on—all that he asks being that everyone who competes will every month throughout the year send in a return of the amounts of lactopeptine and antikamnia bought and sold. At the end of the year the names of all who have sent in returns will be put in a bag, and the first 213 pulled out will get the

dollars. Everyone who thinks of trying should send a post-card to Mr. Richards before September 15.

MESSRS. W. KEMP & SON, Horncastle, submit to us a selection of their latest counter-specialities, which we briefly referred to last week. Among the more important is the white petroleum emulsion with hypophosphites, containing 50 per cent. of purified petroleum. This is intended as a substitute for cod-liver oil, and ought to prove a favourite with children, as the preparation is very palatable. Another line is their extract of malt with cod-liver oil, put up in pretty blue-and-gold cartons. They have also a cheap and good line in liquorice-juice, known as the "Duclano" brand—claimed to be an absolutely genuine product. Last, but not least, we call attention to their popular non-alcoholic "Kol-Coca" champagne, put up in Apollinaris pints. It is hardly necessary to say that the name of "Kemp" does not appear on these articles, the buyer's name being printed on the labels free for three dozen and upwards.

Wills of Deceased Chemists.

The will of Mr. William Hunt, a retired Camberwell chemist and druggist, who died at his residence on Denmark Hill on January 27, is proved by Mrs. Hunt, the widow, Mrs. E. D. Clayson and Miss Emily D. Hunt, the daughters. The personalty is sworn at 12,354*l.* 12*s.* 8*d.* gross and 12,111*l.* 12*s.* 5*d.* net.

The will of Mr. E. S. Bradley, chemist and druggist, Abourne, who died on February 14, is proved in London by Mrs. Bradley, the widow; Mr. Charles Bradley, chemist and druggist, Reading; and Mr. J. R. Rigby, solicitor, Abourne. The personalty is sworn at 7,820*l.* 15*s.* 11*d.* gross and 7,236*l.* 0*s.* 3*d.* net.

The will of Mr. Alfred Buck, chemist and druggist, Iscorn, who died on July 24, 1896, has been proved by Mrs. Buck, the widow, Miss Clara Buck, a daughter, and Mr. Harry Buck, chemist and druggist, Bridge Street, Runcorn, the son. The personalty is sworn at 2,013*l.* 10*s.* gross and 1,896*l.* 4*s.* 2*d.* net.

The will of Mr. Chas. Cannon, wholesale chemist and druggist, 8 Islington Green, who died at his residence Wrekin House, Seven Sisters Road, on April 2, 1897, is proved by Mrs. Cannon, the widow, by whom the deceased's gross personalty is sworn at 3,950*l.* 13*s.* 2*d.*

Letters of administration with the will annexed have been granted of the estate of the late Mr. Alexander Richardson, chemist and druggist, Elswick Road, Newcastle-on-Tyne, to Mrs. Amelia Richardson, the widow of the deceased, whose personalty is sworn at 3,034*l.* 4*s.* 1*d.*

The will of Mr. Thomas Hopkinson, J.P., chemist and druggist and mineral-water manufacturer, Grantham, died on April 30 last, is proved in London by Mr. Aubrey Henry Malins, solicitor, Grantham, by whom the personalty is sworn at 2,954*l.* 11*s.* 4*d.* gross and 2,874*l.* 15*s.* 7*d.* net.

The will of Mr. Samuel Rowe, chemist and druggist, The Cottage, Millbrook, Cornwall, who died on June 9 last, is proved in London by Mrs. Rowe and Miss Eunice Rowe, the widow and daughter of the testator. The personalty is sworn at 311*l.* 0*s.* 6*d.* gross and 254*l.* 6*s.* 6*d.* net.

The will of Mr. James Wavell Littlefield, chemist and druggist, of Ventnor, Isle of Wight, who died on April 9 last year, has been proved by Mrs. Littlefield, the widow, Mr. William Henry Littlefield, chemist and druggist, and Mr. James Mason Andrew. The personalty is sworn at 10,278*l.* 2*s.* 9*d.*

Letters of administration to the estate of Mr. Edward Powell, chemist and druggist, retired, who died at Curdridge, Hants, on April 17, intestate, have been granted to his son, Mr. Edward Fitt Powell, chemist and druggist, Helton-le-Ferne, Durham: the personalty is sworn at 915*l.* 19*s.* 2*d.* gross and 884*l.* 8*s.* 2*d.* net.

The will of Mr. William Backhouse, pharmaceutical chemist, 24 Upperhead Row, Leeds, who died on April 15 last, is proved by Mr. Backhouse, Mr. Frederick Backhouse, the son, and Mr. James Carr, the executors, by whom the personalty is sworn at 803*l.* 10*s.* 4*d.*

German Unofficial Formulae.

THE German *Apotheker Verein*, previous to the publication of the last Pharmacopœia of the country, felt the necessity for supplementing the existing Pharmacopœia by compiling a book of standards for unofficial drugs and compounds, and the publication of it met with appreciative acceptance. In preparing a new edition, the *Verein* has extended the work considerably, and it now rivals in scope and size the "Arzneibuch für das Deutsche Reich," as the German Pharmacopœia is officially and patriotically called. The book is much more than a formulary such as the B.P.C. one and the "National Formulary" of the American Pharmaceutical Association. It is substantially an unofficial Pharmacopœia, and chemicals and drugs are described in it with the precision of official Pharmacopœias. Amongst the medicines so described amongst the A's are the following:—

Atomum	Acidum valerianicum
Adum arsenicum	Aconitium
Adum gallicum	Adeps butyri
Adum hydrochloric. crud.	Adeps lane
Adum hydrocyanicum	Adonidium
Adum monochloracetium	Aerugo
Adum oleicum	Aether iodatus
Adum osmicum	Aethylenum chloratum
Adum oxalicum	Aethylidenum chloratum
Adum phosphoricum glaciale	Agar Agar
Adum picrimicum	Alcaminum
Adum sozolicum	Alcohol absolutus
Adum stearnicum	Alcohol amylicus
Adum succinicum	Alummulum
Adum sulfuricum fumans	Ambra
Adum sulfurosum	Ammonium benzoicum

These are about half of the chemicals and crude drugs in the A's. None of them are official ("Arzneimittel welche in dem *Arzneibuch für das Deutsche Reich* . . . nicht enthalten sind" is the title of the book), and the characters and tests even have been carefully determined, so that manufacturers and others who require recognised standards will find the book useful.

The formulæ contained in the book are also valuable, and are not confined to purely medicinal preparations, as the following examples show. In quoting these examples we would remind British chemists and druggists that all the ingredients (liquids as well as solids) must be taken by weight. If it is desired to measure the liquids the volume may be ascertained by dividing the parts prescribed by the specific gravity of the liquid—e.g., "Chloroform 5 parts," $5 \div 1.49 = 3.4$ (nearly), so that if taken in drachms, ʒij . ʒiiv . should be the measure.

Aqua Cosmetica Kummerfeldi.

Kummerfeld's Toilet-water.

Camphor finely-powdered	...	...	1
Gum arabic finely-powdered	...	...	2
Milk of sulphur	...	...	12

Mix and rub with—

Rose-water	40
------------	-----	-----	-----	----

Then add—

Lime-water	45
------------	-----	-----	-----	----

Shake well, also shake before use.

Aqua Dentifrica Antiseptica.

Antiseptic Mouth-wash or Dentifrice.

Thymol	...	...	...	1
Rectified spirit	...	...	...	100
Glycerine	...	...	...	10
Chloroform	...	...	...	5
Oil of peppermint	...	...	...	1
Oil of eucalyptus	...	...	...	1½
Oil of lemon	...	...	...	2

Mix to form a clear and colourless solution.

Pulvis Dentifricus Albus.

White Tooth-powder.

Precipitated chalk	...	...	...	945
Powdered medicinal soap	...	...	...	50
Oil of peppermint	...	...	...	5

Aqua Dentifrica Bototi.

Botot's Dentifrice.

Cloves in coarse powder	...	...	30
Cinnamon in coarse powder	...	...	30
Anise in coarse powder	...	...	30
Cochineal in coarse powder	...	...	20
Rectified spirit	...	...	2000

Macerate for a week, shaking occasionally, filter, and in the filtrate dissolve—

Oil of peppermint	15
-------------------	-----	-----	----

Aqua Dentifrica cum Salolo.

Salol Dentifrice.

Salol	...	...	...	25 grammes
Rectified spirit	...	...	...	97 grammes
Oil of peppermint	...	...	...	50 centigram.
Oil of cloves	...	...	...	4 centigram.
Oil of caraway	...	...	...	4 centigram.
Saccharin	...	...	...	4 millegram.

Mix to form a clear solution.

[4 centigrammes of an oil is about 1 drop.—Ed. *C. & D.*]

Charta Antiasthmatica.

Asthma-paper.

Potassium nitrate	...	...	...	17
Extract of stramonium	...	...	...	10
Sugar	...	...	...	20
Hot water	...	...	...	100

Dissolve the solids in the hot water, and in the solution saturate white filter-paper, which dry.

Collodium Salicylicum.

Salicylic Collodion. Corn-cure.

Extract of Indian hemp	...	...	...	1
Salicylic acid	...	...	...	10
Turpentine	...	...	...	5

Dissolve by shaking in

Collodion	£2
-----------	-----	-----	-----	----

When dissolved add—

Glacial acetic acid	2
---------------------	-----	-----	-----	---

Venice turpentine, and not oil of turpentine, is intended.

Gelatina Glycerinata cum Zinco.

Zinc Paste.

Finest white gelatine	...	...	...	15
Water	...	...	...	35

Macerate until the gelatine is soft, then add—

Glycerine	25
-----------	-----	-----	-----	----

Heat on a water-bath until the gelatine is dissolved, and to the solution add carefully, stirring all the time, a mixture of—

Zinc oxide	...	...	...	10
Glycerine	...	...	...	15

Then add water sufficient to make the whole weigh 100 parts. For the soft paste use 10 parts of gelatine.

Lanolimentum Leniens.

Woolfat-cream.

Spermaceti	...	...	...	20
Yellow vaseline	...	...	...	60

Melt, and when half cold add—

Woolfat	...	...	...	60
Water	...	...	...	100

Mix, and to each 50 grammes (ʒiiss.) add 1 drop of otto of rose.

Pulvis Dentifricus Saponatus Lassar.

Lassar's Tooth-powder.

Precipitated chalk	...	...	...	100
Potassium chlorate	...	...	...	2½
Pumice, in fine powder	...	...	...	2½
Powdered medicinal soap	...	...	...	25
Oil of peppermint	...	...	...	1

Mix.

We have selected the foregoing recipes as exemplifying counter specialities, and we hope to supplement them by a

few formulæ for medicinal preparations, which are sometimes called for in prescriptions. The book is, of course, intended for German pharmacists, and is printed in German, so that it is only useful to those who can read that language. Those of our subscribers who would like copies of it should address, *Der Deutscher Apotheker Verein, Berlin*, enclosing 6s. 6d., which is the price of the book and postage. It extends to 379 pages, and is handsomely bound.

Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

NEW PRICE LIST.

Mr. J. E. LOCKYER, 87 Evelyn Street, Deptford, S.E., is sending out a very complete price list of photographic chemicals and sundries for dealers. I notice that some of the lines are cut very fine, such as pyro at 3d. oz. by 100 oz. quantities. In addition to the long list of developers, &c., which he has always made a special feature, I see one or two new items, such as "retouching medium," and "fannà," a special and reliable starch for making mountant.

SCHERING'S GELATOID PAPER

(A. & M. Zimmermann, 9 and 10, St. Mary-at-Hill, E.C.) is a printing-out paper supplied in mauve tint with glossy or matt surface. The gelatine employed in its manufacture seems to be harder than is usually met with in this class of paper, making it easier to work and suitable for using in hot weather. Any toning-bath may be used "with excellent results," but the bath especially recommended differs slightly from that of other makers in containing alum.

Stock Sol. (A).

Ammonium sulphocyanide...	... 190 gr.
Water ... ..	... 20 oz.

Stock Sol. (B).

Potash alum ... ..	... 2 oz.
Water ... ..	... 20 oz.

Bath for Use.

Solution (A) ... ..	... 10 oz.
Solution (B) ... ..	... 10 oz.
Gold chloride... ..	... 4 gr.

Prints can be mounted whilst still wet by placing damp blotting-paper on the surface during the operation.

"ZYLO" PAPER,

brought out by Messrs. Edwards, the Grove, Hackney, is a collodio-citro-chloride paper, which I have just stocked in answer to an increasing demand for collodion papers. I have tried it for some of my own printing, and am pleased with the results. It is very essential to have all dishes and the hands scrupulously clean, as with collodio-chloride paper many failures are due to carelessness in this respect. Curling of the prints, which is one of the chief complaints against collodio-chloride papers, is avoided by using all baths of the same temperature. Putting the prints from a warm toning-bath to a colder fixing-bath, for instance, causes the most obstinate twisting of the prints. The toning-bath used may be any of those usually employed with either albumen or gelatino-chloride papers.

The brilliant polish obtained by squeegeeing (so much desired by the average amateur) is obtained in the same way as with gelatine papers, over which it has the advantage in that the polish so obtained is not affected by the after-damping necessarily employed in mounting.

PHOTO TABLOIDS.

In consequence of a recent recommendation in the *Photographic News*, I have had a run upon B. W. & Co.'s "Eikonogen and Quinol Tabloids," for developing bromide-paper. The following stock-solution is made:—

Sulphite of sodium ... ..	... 400 gr.
Carbonate of potash ... ..	... 250 gr.
Water to ... ..	... 20 oz.

This solution keeps any length of time, and when it is

wanted three of the tabloids are dissolved in 4 oz. of the solution. It does not work rapidly, but it is sure, and does not stain the fingers.

THERE is no doubt that simple

STARCH-PASTE

is the favourite and best mountant for photographs. I find that the addition of 15 drops of formalin to 8 oz. of starch-paste will keep it perfectly sweet for months. I put it up in the same manner as the ordinary starch-gelatine mountant—viz., in wide-mouth screw-cap bottles, and guarantee it pure starch-paste, free from acid preservatives, and that it will not imperil the permanency of the photograph in the slightest degree.

Three new mounts, sold by Messrs. George Houghton & Son, 89 High Holborn, W.C., are having a good sale among the better class of amateurs. The mounts are called "The Classic," "The Vandyck," and "The Engraving." The first two have very artistic embossing round the space for the photograph, and the third is a new style in plate-sunk mounts.

EIKONOGEN-DEVELOPER

seems to be receiving more attention now. The formula I use and am selling a good deal of is—

(a) Eikonogen ... ..	... 80 gr.
Sodium sulphite... ..	... 80 gr.
Water to ... ..	... 20 oz.
(b) Sodium carbonate... ..	... 800 gr.
Potassium hydrate ... ..	... 100 gr.
Water to ... ..	... 20 oz.

Equal parts of a and b form the developer.

ONE sometimes comes across a customer who on commencing to develop his holiday negatives finds that they have been over-exposed. In such a case I always recommend, with perfect satisfaction, the following:—

GLYCIN-DEVELOPER.

Glycin ... ..	... 1 oz.
Potassium bromide ... ..	... 20 gr.
Potassium carbonate ... ..	... 5 gr.
Sodium sulphite ... ..	... 5 oz.
Water ... ..	... 20 oz.

Mix.

For use add 3 parts of water to 1 part of this concentrated solution.

EXHIBITIONS.

THE *Sandell Exhibition* of work done on Sandell plates is reopened at the Modern Gallery, 175 New Bond Street, W. It is substantially the same as the one held at South Norwood earlier in the season, but its situation in the West-end should enable it to be visited by more people.

The *Royal Photographic Society's* exhibition will be held this year at the Gallery of the Royal Society of Painters in Water-colours in Pall Mall, from September 27 to November 13. Exhibits must be sent to the Society's offices, at 12 Hanover Square, on Thursday, September 9.

The *Photographic Salon* opens on October 4, at the Dudley Gallery. Receiving-day is Saturday, September 18, on which day exhibits must reach Messrs. Dicksee & Co., 7 Ryder Street, St. James's.

DISHES FOR ENLARGEMENTS.

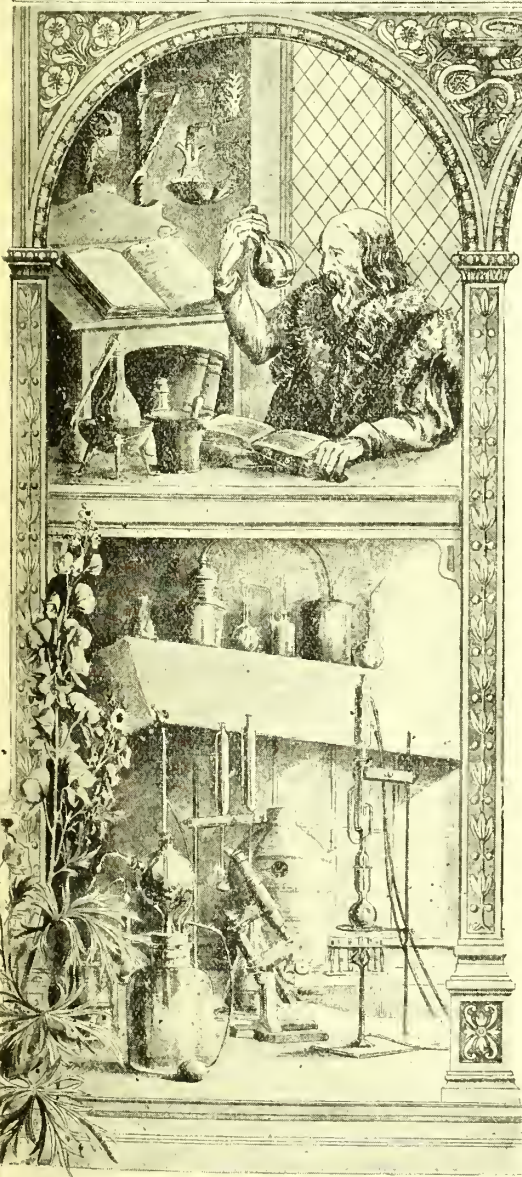
It often happens that when only a few enlargements are required of a size not usually worked by an amateur, the cost of the necessary dishes forms an insuperable difficulty. I have for the last year been letting out sets of dishes on hire, and find that it is a convenience much appreciated by my customers. It will be found to increase the sale of the larger size bromide-papers in a marked degree. My charges for a week's hire of a set of three dishes are: whole plate and 10 × 8, 6d.; 12 × 10, 9d.; 15 × 12, 1s. 3d.; 18 × 16, 2s. 6d. I make it a condition that only one particular dish of the set is to be used for hypo. The customer, of course, is responsible for breakages.



THE greater part of the congressists took advantage of the invitation of the Antwerp section of their generous hosts to visit their ancient and flourishing city on Wednesday, August 18. Sections and plenary assemblies were all stopped for that day, and the Brussels contingent met at the Northern Railway Station at 9.30. Antwerp was reached soon after 11, and the pilgrims were directed to make their way first to the Hôtel de Ville. There, in formal manner, the President of the Pharmaceutical Society of Antwerp introduced the Congress to a gentleman representing the Burgomaster—one of the sheriffs, it was understood—who cordially welcomed the party, placing the resources of his city at their disposal. M. Ranwez, the President of the Congress, thanked him, and was followed by his Vice-President, M. de Beul, of Antwerp. Then the pharmaciens filed down to the river, and crowded the steamer *L'Emeraude*, which made a five-hours' trip up and down the river. Luncheon with various fluids, including the inevitable champagne in lavish profusion, was dealt out during the voyage, and in the later stages of the journey national airs were sung with ever-growing enthusiasm. It was rather a mistake to keep their guests practically all day on the steamer, for many of them would have been glad of an hour or two to explore the city. As it was, they only landed just in time to get to the railway station for the return train. Tickets for "Olympia" were provided for the evening at Brussels for those who cared to accept them.

THE INTERNATIONAL PHARMACOPŒIA.

On Thursday the belated essays had to be put through, the most important discussion in the morning being on the proposed International Pharmacopœia. It would have been ungrateful to have omitted this familiar old stand-by from the programme. It was the subject on which the earlier Congresses lived, and though it has long ago passed into the region of our dead past, there still remain a few of the faithful, and these are recruited by certain new enthusiasts who see a brighter and a better world before us when it is illuminated by an International Pharmacopœia. The programme announced three papers on "The Universal Pharmacopœia"—one by M. Moralés, the Mexican delegate; another by M. Droncke; and the third by Professor Remington. The last named was simply the report of the Chicago Committee (Remington, Carteighe, and Von Waldheim) which we gave last week. It was commissioned to prepare



an International Pharmacopœia of Potent Remedies, has been granted \$1,000 by the American Pharmaceutical Association, and hopes to get to work soon. If M. Droncke's paper was read, it was submitted before the arrival of our representative. M. de Moralès presented the usual arguments in favour of a Universal Pharmacopœia, and then sketched what he thought should be its character. It should give the botanical or zoological classification of the various drugs, indicating the particular species which ought to be used; the proportion of active ingredient; the properties and constitution of chemical compounds named; and pharmaceutical processes and formulas. For a moment it seemed as if the Chicago Committee would be thanked and allowed to proceed with their work; but M. Petit recalled previous decisions of International Congresses, and went on to argue that while they were about it they should make the Pharmacopœia include all useful medicines. As he warmed to the subject he became more earnest about it. Professor Remington vainly urged that the Congress should take the smaller scheme as an instalment, and insisted that the American thousand dollars could only be devoted to the scheme of the Pharmacopœia of Potent Remedies; but M. Petit was inexorable. He insisted on a complete Pharmacopœia, and when at last his proposal was put to the vote, it was carried (in an audience of about thirty members) by the votes of over twenty of these. No provision was made

employed. White treated the organs with glycerine and water, and precipitated the filtrate by the addition of phosphoric acid and afterwards with lime, collecting and drying the precipitate. Sieck precipitates the filtered glycerinated solution by alcohol, washes the precipitate with ether, and mixes it with infusorial earth. Knoll makes an extract of the thyroid glands under the name of "thyradene." Ewald proposes the preparation of the thyroid gland by digestion. It is this method which M. Denayer has adopted, and which he advocates for all these organic preparations. His general formula is—

Tissue ...	...	...	...	2 kilos.
Water ...	...	...	...	3 litres.
Hydrochloric acid ...	...	...	...	9 grammes.
Active pepsine ...	...	...	...	30 grammes.

Digest for six hours at a temperature of 40° C., raise to the boiling-point, neutralise by soda carbonate, filter while warm on a damp filter to retain the grease, and evaporate to dryness *in vacuo*.

M. Denayer calls such substances "albumoses," such as orchitic albumose, thyroïdian albumose, &c. They are powders or flakes variously coloured, according to the organ represented, are soluble in water and in glycerinated water, and have a pleasant taste. Dissolved as above they can be easily sterilised for use. In powder form they can be kept indefinitely. Each powder represents 1-10 of the organ.



MR. ALFRED MEYER, New Orleans,
United States Delegate.



M. DERNEVILLE,
President of the Société Royale de Pharmacie de Bruxelles, and of the
Chambre Syndicale de Pharmacie.



MR. W. A. WRENN, Taunton,
One of the Gold Medallists.

for fulfilling the will of the Congress thus expressed, and it is not quite easy to say now what is the exact position of this question, which has been tossed from Congress to Congress during the past twenty years and more.

THE PREPARATION AND SALE OF ORGANIC EXTRACTS.

This report, by M. A. Denayer, of Brussels, was taken at the last plenary assembly of the Congress. M. Denayer is a manufacturer of peptones, serums, &c., so that his paper was to an extent of an advertising character, but it had the advantage of being written by a man who knew his subject in detail, and as such it was a valuable one. M. Denayer states that the organo-therapeutic substances now actually in use may be divided into twelve classifications, namely:—
1. Orchitic or testicular (Brown-Séguard's). 2. Ovaric. 3. Nervous (the grey matter, introduced by Constantin Paul). 4. Thyroïdian. 5. Carditic. 6. Pancreatic. 7. Hepatic. 8. Capsular. 9. Muscular. 10. Renal. 11. Pneumic. 12. Homopœietic. Originally Brown-Séguard, Constantin Paul, and their school injected the glycerinated organic juice, filtered in an aluminium bougie under carbonic-acid pressure in Darsonval's apparatus. The proportions they used (by weight) were tissue 1, glycerine 3, water 6. The last formula, however (published in the *Archives de Physiologie*, January, 1893), is as follows:—Tissue 1, glycerine 1, salt water (salt 50 per cent.) $\frac{1}{2}$. The bougie is abandoned, and sterilisation adopted instead. The organs themselves in natural or cooked form, in capsules, tablets, and pills, have also been

M. Denayer submits that the form he recommended was that in which pharmaciens could best ensure the activity of these medicines. He maintained that the sale of such preparations should be strictly confined to pharmacists, and in his paper he gave a very useful summary of the uses, characters, and, as far as is known, the chemical composition of these products. The best test for the dry products was to dissolve them when the odour ought to be agreeable and with no suggestion of putrefaction.

On the proposal of M. Petit, the thanks of the Congress were voted to M. Denayer for this report, with a request that he would continue his researches.

MORE MONOPOLY FOR PHARMACISTS.

At the same session the adjourned discussion on the proposals of M. Gosset, in his paper "On the Regulation of Pharmacy," was concluded. It was agreed to allow infirmaries to have a pharmacy provided a qualified pharmacist was there to manage it, but that only the inmates of the infirmary were to be dispensed for there; and that the druggists' examination ought to be suppressed.

CLOSING SESSION.

There was much less formality about the closing session on Thursday afternoon than there was about the opening one on the previous Saturday morning. Very few of the "Bureau" appeared in evening dress, and the business was hurried through. M. Duyk, the Secretary-General, gave a brief

account of the decisions which the Congress had come to in its plenary and sectional assemblies.

Next M. Ranwez, the President, announced the awards which the Executive Committee had made in regard to the papers sent in for competition. These, as stated last week, were the following:—

“A Treatise on the History of the Alkaloids, Ptomaines, and Leucomaines.” By M. Huart, Pharmacien, of Louvain (Belgium).

“On the History and Evolution of Remedies from the Earliest Ages to the Present Day.” By M. Pruys, of Herne (Germany).

“On the Value of Chemical Standards applied to the Analysis of Essential Oils.” By W. A. Wrenn, F.C.S., Taunton (England).

The medals and diplomas were presented on the spot to Messrs. Wrenn and Huart. M. Pruys was not present. The medals were of gold, and of considerable value. The diplomas were lithographed from a design by the brother of the Secretary-General of the Congress, who is a rising young artist in Brussels. The decorative part of this design is shown on page 371.

THE ENGLISH PRIZE PAPER.

SHOULD ESSENTIAL OILS BE VALUED BY CHEMICAL STANDARDS?

Mr. Wrenn's paper was written in English, but was not read to the Congress; but the committee who adjudicated

oils, showing the highest percentage of esters in French lavender from the Alpes Maritimes; also analyses of English oils of lavender. He asked, “Why do we insist upon over 30 per cent. of ester in a French oil and accept 9 per cent. only in an English oil? Yet we all know the monetary value of the English oil.”

Then followed tables of analyses of lemon oil, which showed that some well-known makes of oil of lemon come out rather low with the citral percentage, while others, which had a much higher percentage, were very rank in aroma, though the monetary value ought to have been higher if the citral percentage was to be the guide. If citral is the active principle, then why not go to a cheaper body (lemon-grass) to obtain it?

Peppermint oil, again, has an equal percentage of menthol in English and Japanese oil. Yet, what a difference in the price!

The author concluded that chemical standards are not absolute guides to purity. The real value of anything is just as much as it will bring. And if an essential oil is to be valued, it must be by the ultimate uses to which it is to be applied—medical, culinary, or perfumery. No single standard can be absolutely depended on. The specific gravity, optical rotation, and the specific gravity of the fractionations must all be considered, together with a good measureful of everyday experience.



M. DE BRUYN,
Minister of Agriculture, Hygiene and Public Works.

PROFESSOR RANWEZ,
President of the Eighth International Pharmaceutical Congress.

M. DE FEVEREAU,
Minister of Foreign Affairs.

upon the essays did not hesitate in their award. The following is an abstract of the paper:—

“The question was asked: ‘What is the value of essential oils without terpenes?’ A manufacturer of terpeneless oils would naturally claim that there were many advantages for the manufacturer of soluble essences in using a concentrated essential oil. There would be a great saving of alcohol, undoubtedly. But does the separated active principle of the essential oils, such as the esters of lavender (as linanool acetate), the citral of lemon oil, &c., really represent the natural article in a concentrated form? There can be no doubt,” the author said, “that the degrees of concentration claimed by the makers of concentrated essential oils are fallacious.

“Next,” he asked, “are we correct in accepting the theory that these various aldehydes, &c. are the sole desirable constituents of the essential oil? What is the standard of an absolutely pure essential oil? Physical, optical, empirical or determinable, by quantitative or qualitative analysis?

“Much valuable information has been contributed in recent years—in the chemical direction—mainly by continental observers. Some rely on optical rotation, others on fractionation, and, finally, there is the old-fashioned buyer (who, perhaps, has been ‘taken in’ more than once, under the false security of a chemical analysis), who depends principally on his olfactory nerve.”

The author then submitted tables of analyses of lavender

THE NEXT CONGRESS.

M. Petit next invited the Congress to hold its ninth meeting at Paris in the year 1900, when the Universal Exhibition would be open. His invitation was supported by M. Dethan and M. Crinon, of Paris, and likewise by M. Collard, of Marseilles, on behalf of the provincial pharmacists of France. The invitation was accepted on behalf of the Congress by the President, and some conversation followed as to the nomination of an Executive. M. van Bastelaer, however, suggested that it should be left to the present Executive to name its successors, and this was readily agreed to. Then, in a very few words, M. Ranwez closed the Congress, and expressed the hope that foreign members would do all they could to bring the resolutions of the Congress before their respective Governments. The Belgian Government had, he knew, followed the discussion “with solicitude.”

THE BANQUET.

An hour or two later the members met once more for a parting dinner at the Harmonie Restaurant in the Rue Madeleine. There were about 150 present, including some twenty ladies. M. Ranwez was in the chair with a Cabinet Minister on either hand, M. de Bruyn (Minister of Agriculture, of Hygiene, and of Public Works) being on his right, and M. de Favereau (the Minister of Foreign Affairs) on his left. M. de Favereau left before the speeches commenced

but M. de Bruyn stayed to the end, made a hearty speech complimenting pharmacists, and especially thanking M. Meyer, the delegate of the United States, for his friendly reference to Belgium at the opening of the Congress. Short speeches were also made on behalf of their several countries by M. Wefers Bettinck in Dutch, by M. Moralés (of Mexico) in French, by Dr. Paul (of London) in English, by Mr. Meyer (of New Orleans) in French, by M. Duyk, M. Sèbardt (of Stockholm), M. Beco, the permanent head of the Hygienic Department, and by several of the other members of the Executive. Between whiles a brass band with a very powerful drum thundered out the various national airs. The supper was got through soon after 11.

THE LAST CONGRESS.

The report of the proceedings of the seventh International Pharmaceutical Congress, held at Chicago in 1893, has been prepared and published by the secretary, Professor Oscar Oldberg. This report covers 102 pages, and includes all the addresses read or handed in at the Congress, printed in the languages in which they were written and in English. One thousand copies were printed and will be distributed among the members of the 1893 Congress and the press.

New Companies and Company News.

CLARKSON, DEARDEN & Co. (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Objects: To enter into an agreement with Thomas Clarkson and Samuel Dearden, of Oldham, and to manufacture, sell, and deal in mineral and aerated waters, cordials, cider, and stone ginger-beer. The first directors are Thomas Clarkson, Samuel Dearden, John Bromley, and William Shaw. Qualification, 50 shares.

KELLS MEDICAL HALL COMPANY (LIMITED).—Registered August 12, 1897 (in Ireland). Nominal capital 200*l.*, in 200 shares of 1*l.* each. Names and description of subscribers to Memorandum of Association, with number of shares subscribed for:—Patrick Smith, Kells, contractor, 93 shares; Mary E. Smith, Kells, married woman, 100 shares; John Smith, Kells, grocer, 1 share; Mary Elizabeth Smith, Kells, married woman, 1 share; James Sweeney, Kells, decorator, 1 share; Maggie Sweeney, Kells, spinster, 1 share; Thomas Joseph Tracy, 10 Innisfallen Parade, Dublin, clerk, 1 share. Registered office: Kells, Co. Meath. Registered without articles of association.

LOVEITT & BONES (LIMITED).—Capital 2,000*l.*, in 1*l.* shares. To enter into an agreement with Arthur A. Bones, and to carry on the business of chemists, druggists, dry-salters, oil and colour men, patent-medicine manufacturers and vendors, &c. The first subscribers (each with one share) are:—Siegfried Bettmann, Radford Fields, Coventry, cycle-manufacturer; Wm. Hutton, 39 Bennett's Hill, Birmingham, C.A.; Arthur A. Bones, 23 Broad Gate, Coventry, chemist and druggist; Wm. H. Moore, 36 Priory Street, Coventry, clerk; Harry I. Mander, 25 Stoncy Stanton Road, Coventry, clerk; Chas. Muston, 18 London Road, Coventry, clerk; Richard A. Rotherham, 38 Bailey Lane, Coventry, solicitor. Registered without articles of association.

An effort is being made by a German syndicate at Tokio to organise a trust similar to that of the Standard Oil Company, for the purpose of developing the oil territory of Japan. It is also said that petroleum has been found in large quantities in the island of Formosa.

HICKS & Co. (LIMITED), CARDIFF.—The eighth annual report of this company for the year ended March 31 last shows that the trade profits totalled 401*l.* 3*s.* 7*d.*, out of which the directors propose to pay 6 per cent. on the preference shares and 3 per cent. on the ordinary shares. A balance of 83*l.* 3*s.* will then be left, to be carried forward after payment of directors' and auditors' fees. The directors hold that it is advisable to entirely separate the wholesale from the retail business. This will mean reconstruction of the present company and the formation of two new companies—

one for the wholesale and the other for the retail department. No. 215 Castle Road has been leased, and is being fitted up for the retail business.

A. J. WHITE (LIMITED).—The statutory meeting of this company was held at the Memorial Hall on August 20, Mr. H. R. Packard, Chairman of the company, presiding. The Chairman stated that the first interim dividend on the preference shares at the rate of 6 per cent. had been paid, and would be paid quarterly. An interim dividend at the rate of 10 per cent. had also been declared on the ordinary shares, calculated from the date of payment of the instalments. A Stock Exchange quotation had been granted, and a considerable amount of business had already been done in the shares, some of them being sold at a fair premium. Mr. Andrew Judson White and Mr. Lyman Brown had consented to join the board of directors. A pleasing feature was that among the shareholders of the company were included nearly 1,000 chemists, druggists, and medicine-vendors. The two gentlemen named were subsequently elected directors.

CIVIL SERVICE SUPPLY ASSOCIATION (LIMITED).—The Committee of Management state in their report for the half-year ended June 30, 1897, that the number of shareholders on the register is 5,114, holding 354,480 shares. The number of ticket-holders is 42,665, of whom 14,701 are members of the Civil Service, and 27,964 are friends of shareholders. Goods were bought to the amount of 702,588*l.* 13*s.* 2½*d.*, and sold to the amount of 809,703*l.* 13*s.* 10*d.* The stock-in-hand at the close of the half-year was valued at 324,379*l.* 1*s.* 4*d.* The gross profit on the trading amounted to 118,624*l.* 18*s.* 6½*d.*, and the sum of 3,420*l.* 2*s.* 5*d.* was received from other sources of revenue, making the total gross income 122,045*l.* 0*s.* 11½*d.* The working expenses, after excluding carriage, were 76,592*l.* 1*s.* 11*d.*, being at the rate of 9*l.* 9*s.* 2*d.* per cent. on the amount of the sales. The committee recommends a payment at the rate of 12*s.* in respect of every ten 1*l.* shares; that the sum of 2,000*l.* be transferred to the reserve fund; and that 1,000*l.* be granted to the pension and gratuity fund, and 250*l.* to the employés provident fund. The sum of 5,149*l.* 19*s.* 9*d.* will be carried forward.

New Books.

Deutschen Apotheker-Verein. *Arzneimittel Welche in dem Arzneibuch für das Deutsche Reich dritte Ausgabe.* 2nd edition. (Berlin.) Post 8vo.; viii. + 379 pp.

Hewer, Mrs. Langton. *Our Baby: For Mothers and Nurses.* 5th edition. Small 8vo.; viii. + 140 pp. Boards, 1*s.* 6*d.*; cloth, 2*s.* 6*d.* (Wright, Bristol.)

Hodges, J. A. *Photographic Lenses: How to Choose and How to Use. Elem. and Practical Guide to Selection and Use of Photographic Objectives.* Illus. Cr. 8vo. Pp. 142. 2*s.* net. (Percy Lund & Co.)

Pike, J. *Bromide Enlargements and How to Make Them* (Popular Photographic Series, No 13). 24mo. 64 pp. Paper covers. 6*d.* (Lund.)

Praeger, R. L. *Open-air Studies in Botany: Sketches of British Wild-flowers in their Homes.* Illus. by S. Rosamond Praeger and R. Welch. Cr. 8vo. Pp. 280. 7*s.* 6*d.* (Griffin.)

THE following is a Manchester Board school boy's essay on "William Peun":—"William Penn was a quaker, who sold medicines to the people and wore a suit of leather, and a brass band played around him. He was imprisoned for writing the Pilgrim's Progress. He was the founder of a pencil factory in America. It is called after him, and he afterwards died."

A TREATMENT FOR WHOOPING-COUGH.—Dr. Leuriaux, who has made whooping-cough a special study, has addressed a paper on the subject to the Paris Academy of Medicine. The result of his researches shows that the treatment should be purely local and antiseptic. He recommends naso-pharyngeal insufflations of a powder composed of sulphate of quinine (4 parts), resorcin (1 part), and white powdered sugar (25 parts). Insufflations should be taken five or six times a day, preferably after a fit of coughing. The Academy referred the paper to a committee to study the question.

Maubais Quarts d'Heure.

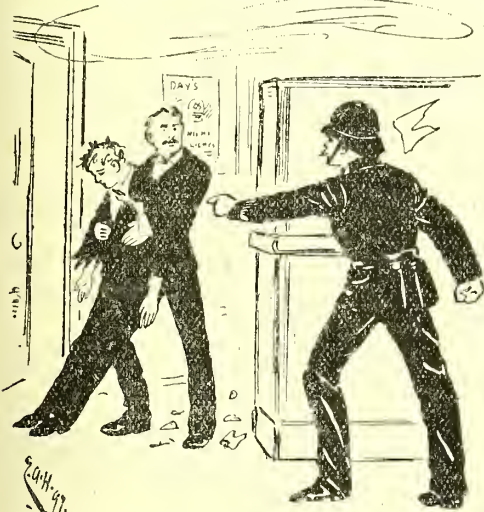
CHEMISTS TELL OF STRANGE INCIDENTS WHICH THEY HAVE EXPERIENCED.

A WARNING TO APPRENTICES.

During the first and second years of my apprenticeship I was warned not to dispense anything unless my master (who lived upstairs) was present. One morning, however, nearing the end of the second year, a lad from a farm came in great haste for powders and mixture for a patient who was very ill. Loth to disturb Mr. M., my master, so early, I made them up myself, and off the lad went. Nearing my dinner-time Mr. M. came to me with powders and mixture in his hand and asked me if I dispensed them, as the patient had died immediately after taking one dose. Fear and guilt seized hold of me, or was I not a murderer? and I would have the penalty to pay by standing in the felon's dock. My brain reeled, and speech forsook me, till after awhile Mr. M. slapped me on the back and told me the patient died before getting a dose at all. That was my first and most lasting lesson in obedience—at least, so Mr. M. said. IMPAIDUS.

AN EXPLOSION.

Delicate Lady Customer: "Please send me my mixture as usual." [Exit.] Major Assistant proceeds to dispense: Sodii hypophosph., ℥ij.; potas. chlorat., ℥ij.; tinct. aurant., ℥ij.; aq. ad ℥viii. Weighs solids into a glass mortar and triturates. With somewhat apprehensive but hazy recollections of recent studies, says to himself, "Now, I wonder if anything is going to happen!" and watches with close interest, when—bang!!!—a terrific explosion occurs, the report as of a cannon resounds



through every adjacent street, the glass mortar disappears in a thousand fragments, and its place is marked by a heap of broken bottles of tinctures from the shelves above, while the blue smoke rolls along the ceiling and curls lazily upwards outside the shop-door.

Policeman No. 1, attracted by noise and smoke, sagaciously imagines it must be a case either of murder or suicide, rushes in, and, with surly frown, asks, "What's all this about?" "Oh! it's all right." "No, it isn't all right; what's this?" seeing M. A. with singed eyebrows, blind and speechless, looking very dilapidated, being borne into "the little back room."

Policemen Nos. 2 and 3 quickly on the spot busy taking voluminous notes, while a surging crowd (hoping for some gory spectacle) blocks the doorway.

Errand boy was out at the time, but heard primary report, and before he returned heard secondary reports, thus: "The young man at the chemist's has shot himself," and again, "There has been an awful explosion at the chemist's; the roof is blown off."

M. A. recovered completely after a few days' rest in a darkened room; his recollections of at least one chemical reaction have ceased to be hazy.

D. L. Customer called again next day (not suspecting for a moment that her prescription was the one causing such disturbance). "Oh! I just want to ask you about that medicine you made up for me yesterday. I don't think I've been quite so well since I've been taking it. Is it what you would call a powerful mixture?"

The chemist would have roared if this grim joke had been perpetrated knowingly, but thought it wiser not to disclose disturbing details.

Another lady customer called a week later, and said sympathetically, "I was so grieved to hear about that unfortunate affair. I didn't mind a bit about the young man, but I was so sorry for you, 'tis so unpleasant to have anybody commit suicide in your house." R. H. PARKER.

YOUTHFUL LABOUR LOST.

In the back shop, at night, we apprentices tried To spread a lead-plaster, on paper applied;



In one quarter-hour we a plaster had spread,
The "bos" he sat on it—no more to be said.


CHARLES BELL.

FIRST AID.

Summer's morning, '96. A father rushes in with his son, latter having chopped two finger-ends off. Father duly seated, also son. Former faints and falls. Latter also faints and is laid on shop-floor. Timid ladies enter, but go out screaming. Assistant out. Large crowd round door. Attention paid to son's injuries whilst father faints. Stimulants administered, and comes round. Brandy given father, who comes to but goes off again. No more brandy given, and he rapidly recovers. This, I think, single-handed, has been my worst quarter of an hour.—T. W. ROBINSON.

PAST AID.

Whilst assistant to Mr. Forth, chemist, Ashford, Kent, I had a rather unique experience. I had just gone across the road to get my hair cut, and had got about half the crop off when Mr. Forth came rushing in, asking me to come over at once, as a lady was very ill in the shop. I went across with him at once, and the lady was laid on the floor in the back room, and, with a doctor's dispenser, who came at once, we tried every remedy, but she expired in about four or five minutes. The doctors arrived immediately afterwards and said our efforts were all that could have been resorted to (they included a hypodermic injection of ether). After riding four miles out of Ashford to break the news to the poor girl's father, I went and had the other half of the superfluous crop of my hair off, having had a unique afternoon's experience.—E. GANE INGE.

GOLD MEDALS 1884-1885-1886-1888.

"SANITAS"
DISINFECTANTS

TRADE MARK.

"SANITAS" EUCALYPTUS PREPARATIONS.


Kingzett's Patent Sulphur Candles,
 Kingzett's Patent Drain Testers,
 Patent Preserved Peroxide of Hydrogen,
 Mercuric Bactericide, Eucalyptus Oils.

L. G. B. Corrosive Sublimate } Soluble Antiseptic
 Permanganate of Potash } Pellets.
 Carbolic Acid }

"Okol" and "Creocide" Fluids and Powders; Chloride of Zino; Carbolio Fluids, Powders, Acid, and Soaps; Soluble Carbolated Creosote; Moth Paper; Weed Destroyer, Sheep Dips, &c.

THE SANITAS CO., LIM.
 BETHNAL GREEN, LONDON, E.

A NEW SIZE.

ELLIMAN'S  ¹/₂ D. EMBROICATION

7/9, 10 per cent. discount upon gross lots, or assorted in general order.

ELLIMAN, SONS & CO., SLOUGH, ENGLAND.

ELLIS'S "Well charged with gas, and in every respect of the very best quality for drinking."—PERCY F. FRANKLAND, B.Sc., F.C.S.
TABLE
WATERS

"Typically Perfect."
 —Medical Press.

SOLE ADDRESS— [1]

R. ELLIS & SON, RUTHIN, NORTH WALES.

London Agents: W. BEST & SONS, Henrietta Street, Cavendish Square.

REDUCTION IN PRICE.

HORA'S Howards' Seidlitz Powder.
 English Tartaric Acid.
 Hand-weighed

P.B. SEIDLITZ

PERFECTLY FOLDED **POWDERS.**
 4/3 per Gross.

47 MINORIES, LONDON.

JOHN MOSS & CO'S
PERFECTED "GALEN"
ELASTIC CAPSULES.

Elegant in appearance and shape. Free from taste or smell. Do not pit. Readily soluble. Quite full. Contents pure and of the highest quality.

IN BULK OR BOXES.

Customer's own Name and Address on Labels if desired.

Apply for Samples and Prices before Buying elsewhere.

THE GALEN MAN'F'G CO., Lim.
 Witson Street, New Cross Road, S.E.

COCA-TONIC CHAMPAGNE

Prepared and bottled by the Growers at Bouzy-Reims, from the finest Natural Champagne, and the leaves of the Erythroxylon Coca, and not from Cocaine. We supply "Coca-Tonic" Champagne with Chemists' own name on the Labels.

For prices and particulars, apply to the Sole Proprietors—
 HERTZ & COLLINGWOOD, 38 Leadenhall Street, LONDON, E.C.

HORLICK'S
MALTED MILK
 FOR
Infants & Invalids.

34 FARRINGDON ROAD, E.C.



"NEGLIGENCE IS THE RUST OF THE SOUL"

There is no negligence so rusty as the negligence to use

Fletcher's Concentrated Liquors.



THE PHARMACY ACT OF NEW SOUTH WALES.

AFTER ten years of hard work, during which the membership of the Board has been entirely changed, the Pharmacy Board of New South Wales has secured the passing of a Pharmacy Act which will take the place of several sections in the Sale and Use of Poisons Act of 1876, and place the profession of pharmacy on a much better footing. In such an Act the important sections are those dealing with penalties and with registrations. It is now made penal for any person not being registered as a pharmacist to pretend to be such, or to take or use any title or term, sign or symbol, which may be construed to mean that he is qualified to perform the duties of a pharmacist, and the penalty is not less than 5*l*. nor more than 50*l*. Pharmacist is defined as meaning "a pharmaceutical chemist, pharmacist, chemist and druggist, chemist, homœopathic chemist, dispensing

chemist." The only other sections which throw light on the word is one where a pharmacist is referred to as keeping open shop, and another of a pharmacist keeping open shop for the purpose of dispensing or compounding medical prescriptions. This evades several of the difficulties that have arisen in connection with some of the other colonial Pharmacy Acts. Every branch shop and every other shop where the business of a pharmacist is carried on must be in charge of a registered pharmacist, who shall personally superintend the carrying on of the business. This prevents the registered pharmacist leaving his main business in the charge of unqualified persons. No one but a registered pharmacist will be granted a certificate that he is qualified to deal in poisons except in places remote from large towns. As to registration, four classes are contemplated: first, those whose qualification arose before the passing of the Sale of Poisons Act in 1876; second, those who have been carrying on business in the colony between that period and the passing of this new Act; third, those who pass a Preliminary examination, are afterwards apprenticed for not less than three years in the colony, attend a course of lectures acknowledged by the Board in chemistry, practical chemistry, botany, and materia medica, and pass examinations therein, and finally pass an examination in the subject of practical pharmacy; and, fourthly, those who hold a certificate or diploma of competency as a pharmaceutical chemist, or chemist and druggist, or pharmacist, from any College or Board of Pharmacy recognised by the Board. This last clause, it will be noticed, is so defined that it will be possible for the Pharmacy Board of New South Wales to refuse to recognise the certificates of the British or Irish Major or Minor. In this respect the Pharmacy Act of Western Australia has been followed. As regards those whose qualification dates from before 1876, it is provided that application must be made for registration before the end of January, 1899. Those who have been carrying on business in the colony as pharmacists without being registered since the passing of the Poisons Act in 1876 are treated very liberally. Anyone who has been in business for not less than two years, and produces to the Board a certificate signed by two legally-qualified medical practitioners that he is a fit and proper person to dispense the prescriptions of legally-qualified medical practitioners, shall be entitled to registration. Assistants or apprentices are also treated with great liberality. If they have been not less than three years in the business of a pharmacist keeping open shop, they are entitled to registration. If they have served for not less than one year before the passing of the Act, and continue to serve so as to make a total period of three years, they will also be entitled to registration, but in each case must produce to the Board a certificate from two medical practitioners that they are fit and proper persons to dispense prescriptions. It was the want of these two sub-divisions which defeated more than one of the previous applications to Parliament for suitable pharmaceutical legislation. It ought to be noted that the Act is made to apply to all companies and corporations, so that in some respects it remains one of the most stringent Acts known. The only persons capable of entering on business are registered pharmacists, or the executors, administrators, or trustees of a pharmacist who was in business as a pharmacist on his own account on the day of his death. The absence of any attempt to define the business of a pharmacist probably strengthens the Act, and the circumstance that one qualification is defined "as having been in business on his own account as a pharmacist, keeping open shop in the colony of New South Wales," without any addition or limitation as to the shop being kept open for the purpose of dispensing or compounding medical prescriptions, will enable

the Board to plead, when necessary, that the mere dispensing of prescriptions is not the whole of the business of a pharmacist. It is possible that the vending of medicines may come to be looked upon as carrying on the business of a pharmacist. It is quite certain that some very interesting law cases will arise out of the interpretation of the penal sections of the Act, but the occasion may not come for many years.

PROPHETIC CHEMISTRY.

ACCORDING to Professor Wm. Ramsay, a sectional address to members of the British Association may be historical, or actual, or prophetic. He made his address, as President of the Chemical Section, a mixture of the three; but as the historical part of it is well known, and the actual not strikingly novel, the prophetic portion becomes the most important. Professor Ramsay says that a new gas—*i.e.*, a gaseous element—has yet to be discovered, and he bases this upon a periodic law argument. It will be remembered that the density of argon is 20, but as it is a monatomic element its atomic weight is 40; similarly the density of helium is 2 and the atomic weight 4. It follows that the place of helium in the periodic table is between hydrogen 1 and lithium 7; but Professor Ramsay can find no other place for argon than between chlorine 35.37 and potassium 39.03, which seems absurd, because argon is 40. However a vacant place in the eighth group is thus filled. The first three series of the periodic table will show this clearly, *a* standing for the undiscovered element, and *b* for argon:—

I	II	III	IV	V	VI	VII	VIII
Li 7	Be 9	B 10.9	C 12	N 14	O 16	F 19	<i>a</i>
Na 23	Mg 24.3	Al 27	Si 28.3	P 31	S 32	Cl 35.5	<i>b</i>
K 39	Ca 39.9	Se 43.9	Ti 48.1	V 51.4	Cr 52.3	Mn 55	Fe Co Ni

It will be seen that the differences between the atomic weights of each vertical pair of elements in the first and second series, or rows, is approximately 16, and between the second and third series 20. Professor Ramsay says:—

There should, therefore, be an undiscovered element between helium and argon, with an atomic weight 16 units higher than that of helium, and 20 units lower than that of argon—namely, 20. And if this unknown element, like helium and argon, should prove to consist of monatomic molecules, then its density should be half its atomic weight, 10. And pushing the analogy still farther, it is to be expected that this element should be as indifferent to union with other elements as the two allied elements.

It follows that the two spaces *a* and *b* in group viii. would be filled, but the placing of Ar 40 before K 39 and Ca 39.9 is unpardonable, and the bulk of Professor Ramsay's address was an *apologium* of this violation of principle. We need scarcely say that the undiscovered gas with an atomic weight of 20 has been well searched for by Professor Ramsay. Let us look at some of the points of his *apologium* for the placing of argon in group viii., series 2.

The first point is that the elementary molecules are not all of the same weight, some being lighter, some heavier, than the mean, a suggestion which has been advanced by Schützenberger, Crookes, and others. This supposition violates the principles of chemical science upon which we assume that the cohesion of matter is due to its molecules being of equal weight, for were it otherwise there could not be that constant motion of the molecules in space which we are told is necessary to explain physical phenomena, because if light and heavy molecules rebound against each other there must follow either a dissipation of energy (the surplus of the heavy molecules) or a rupture of the mass (the lighter molecules thrown out of court). Strange to say, this is

exactly what Professors Ramsay and Norman Collie were supposed to prove in regard to helium. They separated it by diffusion into two portions, one having a density of 2.27 (atomic weight, 4.54), and the other 1.98 (atomic weight, 3.96); and as they could not at first be distinguished chemically, it was thought that here were heavy and light molecules, but farther diffusion of the heavy portion resulted in the isolation of argon from it, and to that its heaviness appears to be due. It was hoped that the undiscovered gas was there, but if so it eluded their senses. Nevertheless Professor Ramsay prophesies that the new gas will complete the triad—

Helium ...	...	...	...	...	4
?	...	...	...	...	20
Argon ...	...	...	...	...	40

Therefore, that it will be monatomic and without valency, because uncombinable. Still this is no excuse for placing argon before potassium, and towards the end of his address Professor Ramsay seemed to think so, for then it was that he brought forward the second point of his *apologium*—viz., that already there is such a discrepancy in the periodic table, tellurium 127.7 being before iodine 127. We cannot say that this is worthy of the Professor; up to this point he used the approximate atomic weights, but instead of taking the accepted figure for tellurium, 125, he takes the latest one, 127.7, and so makes out his case for argon's position before potassium and calcium. The weight of experimental evidence favours 127.7, and it might be supposed that a redetermination of iodine would raise its atomic weight, but we see no hope of that if we apply to this matter the reasoning which has led Professor Ramsay to prophesy the existence of a gas with the atomic weight of 20—viz., the differences between the figures in the first row of the above table and the third, which are approximately 36. If there is a law here, there ought also to be the same in other parallels of the periodic table. Taking, therefore, the fourth and sixth series of the table, and the new figure for tellurium (the rest being as given in Meyer's book), we find as follows:—

Cu 63.18	Zn 65.1	Ga 69.9	Ge 72.3
Ag 107.66	Cd 111.7	In 113.6	Su 118.8
Difference 44.48	46.6	43.7	46.5
As 74.9	Se 78.87	Br. 79.75	
Sb 119.6	Te 127.7	I 126.54	
Difference 44.7	48.83	46.79	

If the accepted atomic weight (125) of tellurium is used, the difference is 45.13—a far more natural figure than 43.83. We hope, therefore, that Professor Ramsay will not take tellurium as a justification of his introducing an abnormality into the periodic table, especially as he made a splendid suggestion in the early part of his discourse. Speaking of the diffusion of the gases and the inexplicability of the results, he said:—

If there are more than one element present, they possess the same, or nearly the same, density and refractivity. There may be a group of elements—say three, like iron, cobalt, and nickel—but there is no proof that this idea is correct, and the simplicity of the spectrum would be an argument against such a supposition.

Nevertheless group viii., as we know it, is entirely made up of triplets. In the third series we have Fe 55.83, Co 58.6, Ni 58.6; in the fifth series Ru 101.4, Rh 102.7, Pd 106.35; and in the eighth series Os 191, Ir 192.3, Pt 194.3. These were all until argon was found, and if it is to be placed in the creative scale parallel with the iron, ruthenium, and osmium groups (each of which, it may be remembered, is supposed to have been created almost simultaneously, and not at great intervening epochs), it is fair to assume that argon is merely the first indication which we have obtained of the existence in nature of three gases which creation gave birth to at one confinement, if we may so paraphrase Sir Wm. Crookes's

explanation of the other triplets. Professor Ramsay states that he and Lord Rayleigh actually looked for the argon triplet, and had the names (Anglium, Scotium and Hibernium) ready for them. They may yet be wanted these names; at any rate, the search for atoms to give them to may be more profitable, as it certainly would be more reasonable, than considering such questions as those which Professor Ramsay made the basis of his peroration—viz.,

Does some circumstance modify these "combining proportions" which we term "atomic weights"? And is there any reason to suppose that we can modify them at our will? Are they true "constants of Nature," unchangeable, and once for all determined? Or are they constant merely so long as other circumstances, a change in which would modify them, remain unchanged?

It is strange that it is only when research fails us that such questions come in; but we do not overlook the fact that by similar enquiries modern chemistry has been to a great extent built up.

JAPANESE CUSTOMS TARIFF.

We mentioned early in the year that the Japanese Government proposed a revision of the Customs tariff of the country, and was awaiting agreement with several European States before drafting a Bill to settle the matter. This Bill has been introduced into the Japanese parliament. Its provisions are substantially as under-noted. Three classes of goods are created—viz., Class I., comprising foreign goods upon which a tax will be levied on importation; Class II., those admitted duty-free; and Class III., a group of articles the importation of which is forbidden. It is specially declared that the taxation value of the goods will be the price in the country of origin, plus the charges for packing, freight, and insurance until they are landed in Japan. The usual provision is made for the importation of munitions of war and the like, old books, antiques, &c., duty-free. Class I. is divided into sixteen groups of wares, of which the following interest our subscribers:—

Group I. (10 per cent. duty except where otherwise stated).—Barometers, binoculars (15); physical, electrical, chemical, surgical, and similar instruments, photographic apparatus (15); microscopes, thermometers.

Group II.—Foods and drinks chiefly, including pepper (whole or powdered), 15 per cent.; and salt, 10 per cent.

Group IV.—Drugs, chemicals, and medicines, 10 per cent.—viz., carbolic acid, salicylic acid, tartaric acid, alcohol, alum, anti-febrin, betel-nut, radix atractylis, bismuth subnitrate, chlorinated lime, borax, Borneo and Ngai camphor, cassia and cinnamon and their oils, Iceland moss, cinchona-bark, cinchonine and its salts, Cinnabar cloves, cocaine hydrochloride, cod-liver oil, photographic collodion, calumba-root, bezoar stone, catechu and gambier, gentian-root, ginseng, glycerine, gum arabic, dragon's-blood, myrrh, frankincense, hops, iodoform, ipecacuanha-root, jalap, sugar of lead, liquorice, mavo (*Epedora vulgaris*), manganese binoxide, morphine hydrochloride and sulphate, musk (15 per cent.), spikenard, amorphous phosphorus, pilocarpine hydrochloride, potassium bromide, potassium chlorate, potassium iodide, quinine hydrochloride and sulphate, colophony, rhubarb, saffron, saltpetre, santonium, sarsaparilla, wormseed, shellac, soda ash, sodium bicarbonate, sodium salicylate, sticklac, vaseline, and all other drugs, chemicals, and medicines.

Group V. is made up of dyestuffs, pigments, and distempers, upon which a duty of 10 per cent. is levied, except in the case of gold, silver, and platinum paints, which will pay 15 per cent.

Group VI.—Glass and glassware pay 20 per cent. with a few exceptions, which do not include bottles.

Group X.—Oils and wax pay 10 per cent., except vestas, which will pay 15 per cent.

Group XVI. contains a large variety of merchandise, the following only being of interest to the drug-trade:—Lign aloes, amber, celluloid, corks, sandalwood, soap, logwood, and red sanderswood, which will pay 10 per cent. Celluloid articles and toilet-soaps will pay 20 per cent.; toilet articles generally 25 per cent.; but toilet specialities, hair preparations, dentifrices, and perfumes will pay 30 per cent.

The free list, or Class II., is comparatively short, and the only article in it of importance to us is opium for medicinal

proposes, which must, however, be imported with the Imperial Government's sanction. In Class III., comprising prohibited articles, we observe all adulterated drugs, chemicals, and medicines, smoking opium, and opium not sanctioned by the Imperial Government.

We understand that there is no likelihood of the Bill, when it passes, coming into force immediately, as the treaties with Austria and France have still to be ratified. This can probably not be done before April, 1898.

IRISH POOR-LAW DRUG-CONTRACTS.

We have noticed with much satisfaction the marked effect which has resulted from an article on "Irish Poor-law Union Drug-contracts," which we published on February 27 of this year. All over Ireland Boards of Guardians have been influenced, directly or indirectly, by that publication. The Local Government Board has watched these contracts much more closely than before, and contractors have in many cases considerably modified their methods. No one of the many scolding statements made in that article, which was written by an authority with full knowledge of the subject he handled, has ever been even challenged. It was shown that the art of tendering had been cultivated to such a pitch that it was possible to quote sulphate of quinine 4*d.* per oz., cod-liver oil 6*d.* per gallon, and pill-masses 4*d.* per lb., and yet to make a substantial profit on the whole transaction. The editor of the *Medical Press and Circular*, who is a Dublin physician, and who is thoroughly acquainted with the corruption prevalent in the Irish drug-contract system, endorsed our statements with the most thoroughgoing approval. Confirmatory facts were added by many correspondents, and they came out in discussions at meetings of Guardians. One of the South Dublin Guardians explicitly stated that his eyes had been opened by what he had read in *THE CHEMIST AND DRUGGIST*. One writer familiar with the subject gave us a glimpse of how the account is squared by quoting the following samples of prices for drugs not contracted for:—Blaud's pills, 4*s.* per gross; salol, 1 oz., 6*d.*; conf. sennæ, 5*s.* 6*d.* per lb.; liq. morphine, 10*s.* per pint; and syr. zingib., 1*s.* 6*d.* per lb. One notable effect of the recent discussion on the subject of drug-contracts has been apparently to dispose some guardians to accept, not the best, but the highest, tenders, especially if these are sent in by local men. There is a certain amount of reason in preferring a local contractor, but the disposition to pay the highest price may easily be carried too far. Within reasonable limits, however, it appears to be a healthy sign.

We reported a fortnight since the discussion at the meeting of the Enniscorthy Guardians, when, after having heard a statement from the clerk, who had analysed the tenders, and from the medical officers, who showed how unsatisfactory it was to accept a tender in which some articles are quoted at half or a quarter the cost, it was resolved to accept the highest tender, which was that of a local chemist, Mr. Weston Roberts. Mr. Roberts himself, the chemist who made the contract, has since written to the local press on the subject. He points out that even the laborious investigations made by the clerk cannot assure a reliable conclusion. The method he adopted was to get from the doctors and from the invoices of last year a list of the articles used to the extent of from about 3*s.* or 5*s.* and upwards, and then to add up the prices quoted for these in the various tenders. This system, of course, opens the way to the abuses already complained of. Mr. Roberts points out that the only way of satisfactorily solving the question of the cheapest tender is to note the exact quantities of each of the 420 items used during the preceding three years, and price out the tenders

accordingly. Three years are named, because one year might have some epidemic that would cause a much larger quantity of some medicines to be used, and so falsify the calculation. This course would involve an amount of work which could only be undertaken apparently by a central body, and some such solution of the problem as this seems to be the only really effective one.

While, therefore, there is a tendency towards improvement, the risk, or we might say the certainty, of corruption remains, unless some definite means of control are adopted. I. R. A. H. Jacob, of Dublin, than whom no one is more qualified to form a sound opinion on this subject, wrote us a letter which was published in our issue of May 8 last, in which he recommended as a remedy for the prevalent evil the appointment of a central drug expert, whose duty it should be (we understand) to advise on tenders, and to examine samples brought to him by his inspectors; the appointment of, say, four peripatetic inspectors to call unexpectedly at workhouses and take samples of medicines; and the authorisation of the prosecution by the Local Government Board of contractors who should supply inferior drugs. Dr. Jacob estimated that such a staff need not cost more than 1,500*l.* a year, and that sum might be reduced, we should think, by reducing the travelling inspectorships to one or two. It is much to be hoped that the present agitation will not die away without producing some permanent good result.

NOT VERSATILE ENOUGH.

A singular coincidence in medicine-taking is noted by *Truth*. According to the advertisement of a philanthropist (*Truth* says, of a quack) in the *Daily Telegraph* last week, "108,206 vials" of his concoction had been sold in London in six days. In another advertisement in the *Liverpool Mercury* the same man advertised that "108,205 vials" had been sold in and around that city during three weeks. This was strange, but still more remarkable was the fact that the London advertisement reported an interview with "a leading London chemist," and the Liverpool advertisement an interview with "a leading Liverpool chemist," who both expressed themselves in precisely the same words in praise of the remedies, each mentioning "an eminent lady—a countess, in fact"—as one of his customers who had been cured. The "leading chemist" is probably on his travels, and will be heard of in other centres shortly.

BANKRUPTCY IMPROVEMENT.

Many journals are fond of publishing statements showing how the assets of bankrupt estates are swallowed up in official costs. The moral of these instances is generally an ill-informed suggestion that we should go back to the chaos of the go-as-you-please system which prevailed previous to 1833. This criticism shows a failure to apprehend the purpose of bankruptcy law. It is not the first principle of that legislation to protect the reckless creditor, nor even to collect his debts for him. The only reason why we have a bankruptcy law at all is that it would be contrary to social advantage to allow trading to develop into a system of fraud. There are excellent signs in the annual reports of the Inspector in Bankruptcy that in this respect the Acts of 1833 and 1889 are effective. The report for 1896, which has lately appeared, shows a considerable improvement over any previous year for which statistics are available. The total number of bankruptcies and deeds of arrangement reached 7,424, which was lower than for several years, though not quite the lowest on record. The satisfactory feature of the figures, however, is in regard to the estimated loss to creditors. In the failures of 1896 the assets are higher and the liabilities lower, on the average, than they have ever been before. This is where the evidence of improvement

comes in. This improvement may, as the inspector points out, be neutralised to some extent by the modern fashion of failing by means of limited companies. Malpractices accompanying so-called joint-stock trading are less liable to public exposure than are those associated with private trading. This is a condition which it may be hoped will be remedied in the new Companies Act, if we ever get one.

"SUGARINE."

We have had several inquiries regarding a saccharin substitute called "sugarine," which appear to have arisen from a paragraph which has been going round the newspapers. This paragraph is as follows:

The newly discovered chemical substance, sugarine, or benzol sulfonid, is likely to have an important influence upon commerce in several directions. Unlike saccharine, which never became very popular, sugarine contains none of the obnoxious para acid. It is a chemically pure substance, 600 times as sweet as sugar, and yet obtainable at one-twelfth the cost.

The absurdity of this paragraph lies in the fact that "the newly-discovered chemical substance" is saccharin—i.e., benzoyl sulphonic imide. It has been long known that the saccharin originally introduced was a mixture of this imide with something else, therefore it was but 300 times stronger than sugar; but for several years the original patentees and others have been producing a pure imide which is 600 times stronger than sugar, and this is now being put forward by various individuals and firms under different names. Probably "sugarine" is one of the class, but Mr. E. R. Savigny, the "discoverer" of it, may be able to tell, if one knew where to find him.

A RECORD IN MEDICINE-TAKING.

Dr. W. Sykes (Gosport) sends to the *British Medical Journal* the following case extracted from Vol. I. of *Blackwood's Edinburgh Magazine*, page 216, May, 1817:—

"At the Lincoln Assizes, in an action, Wright v. Jessop, the plaintiff, an apothecary of Botesford, sought to recover from the defendant, a bachelor of opulence, residing near Lincoln, 787*l.* 18*s.* for medicine and attendance during twenty-five years. By the statement of the plaintiff's counsel it appeared that the defendant was of a hypochondriacal turn, and had taken pills for a great number of years. He used to have from 600 to 1000 pills sent to him at a time, and in one year he took 51,000, being at the rate of 150 a day. There were also thousands of bottles of mixture. From the ravenous propensity of the patient for physic it was deemed necessary to call in two physicians, who, inquiring of the defendant what was the course of medicine and nourishment he pursued through the day, answered as follows: 'At half-past 2 o'clock I take two spoonfuls and a half of jalap, and then a quantity of electuary; then I sleep till 7, and repeat the dose of jalap and electuary; at 9 o'clock I take fourteen pills of No. 9 and eleven pills of No. 10 to whet my appetite for breakfast: at breakfast I eat a basin of milk; at 11 I have an acid-and-alkali mixture; afterwards I have a bolus; and at 9 at night I have an anodyne mixture, and go to sleep.' After some progress had been made in the evidence a compromise took place, the plaintiff accepting a verdict for 450*l.*"

FOREIGN SHOWCARDS AND POSTERS.

It is said that the forthcoming Trades Union Congress will be asked by delegates from the printing-trades to petition Parliament to alter the Merchandise Marks Act, so that it may be accurately known how much printing is done abroad. Last year, it is said, 250,000*l.* worth of lithographic posters were printed for English firms in America, Holland, Italy, and Paris. The value of Christmas, Easter, and temperance cards and religious notions printed abroad is alleged to be 500,000*l.* a year. Particulars are given of several tricks for evading the Merchandise Marks Act. Thus it is stated that 100,000 litho portraits of the Queen were printed in Germany for sale in England during the Jubilee celebrations. They were put into frames so

that the "Made in Germany" imprint was hid from view. On Christmas and religious cards the "Made in Germany" legend is often printed in a colour which fades when exposed to the light. The assertion is also made that there are in Germany 1,000 litho printers, 200 litho artists, and 100 litho stone-grinders; in Holland 50 printers, 50 artists, and 15 stone-grinders; and in France, 500 printers, 100 artists, and 50 stone-grinders, all employed on work for British firms. Yet excellent work can be done at home. Witness the cover of THE CHEMIST AND DRUGGIST of this number, and the *Illustrated London News* Jubilee issue.

POINTS OF THE NEW AMERICAN TARIFF.

Chlorate of potash and bleaching-powder have been made dutiable for the first time in the history of American commerce. The new rate on bleaching-powder is 4*s.* per cwt., which, at the present price of the article (about 7*l.* per ton) equals 13 per cent. On chlorate of potash the duty is 3*s.* per lb., equal to about 30 per cent. *ad val.* The avowed object of these duties is the desire to foster American "infant industries," and it will be interesting to watch how far the object will be realised. The position of acids has been altogether changed. Under all previous Acts certain special acids have been dutiable, and all "unenumerated" acids free. The reverse is the case under the Dingley Act. The duty on borax has been raised from 2*s.* to 5*s.* per lb., equal to 23 per cent., and that on borates has been correspondingly advanced. As the present price of refined borax is about 15*s.* per cwt., the new duty represents a protection over 155 per cent. This was done at the instance of a Senator from Nevada, the soil of whose constituency consists in great part of borax. Vanilla and Tonca beans remain on the free list. A syndicate, headed by a large drug-gist, specially interested in these articles, tried hard to get them made dutiable, but failed. They obtained, however, in addition to the Tariff Act of a clause which empowers the President to put a duty of 50*s.* per lb. on Tonca beans, 50*s.* per lb. on vanilla, and 81 per lb. on cut vanilla coming from any State that may put "unreasonable" duties on American goods. As nearly the whole of the vanilla used in the States comes from Mexico, and all the Tonca beans from Venezuela, those countries had better be careful. The Secretary of Trade have received through the Foreign Office copy of the new Tariff Act, which may be consulted at the office of the Board, 27 Whitehall Gardens, S.W., on any day between 11 A.M. and 5 P.M.

Tabs.

Would it be correct to call a physician's income "I've gotten gains"?

A DRUG-STORE in the Klondike region ought to prove a gold mine next spring.

OVER 2,000 patents have been issued in the United States for the manufacture of inks.

"GIVE the little sucker a chance," is the way a Boston druggist announces his stock of feeders.

"INFLUENZINE" is the name for a mixture of phenacetin, caffeine, chloride of sodium, and salicylate of quinine.

LOGWOOD to the extent of 4,929,000 lbs. was exported from port of Spain during the year ending September 30, 1896.

NOT UNUSUAL. Patient: "Doctor, my breath is troubling me a great deal." Doctor: "Oh, well, we'll soon stop that."

TO CEMENT celluloid to wood or metal a solution consisting of 2 of shellac, 3 of spirit of camphor, and 4 of strong spirit may be used.

"WELL, did the boss give you a rise?" "No." "Not even when you told him you had grown grey in his service?" "No; but he gave me the name of a good hair-dye."

Dispensing in Doctors' Surgeries by Unqualified Men.

BY AN EX-UNQUALIFIED DISPENSER.

THREE-FOURTHS of the medicines prescribed in this country are dispensed by unqualified men. Any error this statement is on the side of moderation. I was apprenticed in a town of over 30,000 inhabitants, of whom 25 were qualified chemists in business. Ten doctors and one solitary herbalist looked after the health of the town between them. The prescriptions of every one of these doctors were dispensed in their own surgeries, rarely by themselves, generally by unqualified assistants, without the slightest supervision. This applied to the medicines of both private and club patients. Occasionally someone visited a specialist in London or other large centre—the fact was generally considered of sufficient importance to justify a paragraph in the local press—and it was only in such cases that one of the chemists in the town was called upon to exercise his abilities as a dispenser. That town, in so far as dispensing goes, is typical of all large working-class centres. It is only the better classes whose medicines are dispensed by pharmacists. Our leading wholesale drug-houses could tell us by whom the bulk of the dispensing of poisons is being done. Most of them admit that in many towns one doctor will buy as many drugs as all the chemists in the town put together. That an overwhelming majority of the people of this country receive their medicines from the surgeries and dispensaries of medical men, and not from the shops of legally qualified chemists, is undoubtedly a fact.

Do doctors dispense these medicines themselves, or is it done by their assistants? If the latter, are those assistants legally qualified to dispense poisons? The doctors who themselves dispense are men with very small practices. No doctor possessing an average practice can afford the time to dispense. With very few exceptions, if the size of the practice is such that the doctor can see all his patients personally, and therefore only wants assistance in the dispensary, he employs an unqualified man. Some of them will tell you they do so because they do not place a high estimate on the dispensing abilities of the newly-fledged apothecary; others admit it is to save 20*l.* to 50*l.* a year in salaries. If there are two medical men in partnership, almost invariably they have enough dispensing to occupy an assistant's whole time. That assistant is usually unqualified. A perusal of the advertisement columns of the *Lancet* or *British Medical Journal* will bear out my statement. Last week's issue of the *Lancet* contains ten advertisements referring to unqualified assistants.

As to the amount of supervision which medical men exercise over their unqualified dispensers, I can speak with some authority from personal experience and from what I know to be the experience of other dispensers. Before qualifying as a chemist I served as dispenser in three medical practices. In the first instance I dispensed for a firm of surgeons. There were two partners. I dispensed for them both, bought the drugs, made the stock mixtures and solutions without any supervision, unless it was in the matter of buying. It may be well to particularise. There were three rooms used in the practice—the consulting-room, the dispensary, and waiting-room. Patients came in, and were shown by "Buttons" into the waiting-room to sit down with a score or more of other afflicted ones. One by one they passed into the consulting-room, saw the doctor, came out with their prescription, which they handed to me through an aperture

in the partition between the waiting-room and dispensary. Whether the mixture was a tonic for a convalescent "clubby" consisting of inf. quass. et sacch. ust., or a sleeping-draught containing morphia or chloral, I, an unqualified person, dispensed it, handed it out through a pigeon-hole to the patient, sometimes taking payment, if the doctor had not already been paid. Whilst I was alone in the dispensing-room making up the doctor's prescription, he was in his little sanctum, out of sight and hearing, seeing the next patient. This will hardly fit in with Mr. Justice Hawkins's definition of what the Pharmacy Act means by personal supervision. In giving judgment in the case of the Pharmaceutical Society v. Wheeldon, in 1890, he said:—"By such personal supervision we mean not merely presence in the shop or room where the sale takes place, but actual personal supervision, so that every individual sale shall be so guarded by the precautions prescribed by the Act that the safety of every individual member of the public may be provided for so far as the law can accomplish that object." I dispensed anything between fifty and a hundred prescriptions a day. They contained the average proportion of scheduled poisons. In the case of the other two births I held under medical men there was only the principal and myself. He saw the patients in the consulting-room, while I dispensed their medicines in the dispensary without supervision, direct or otherwise. Thousands of mixtures containing poisons were so dispensed by me, and thousands are similarly being dispensed to-day by unqualified men.

Is the practice legal?

The *Lancet* groups its advertisements in reference to unqualified men, and prints over them the following:—

NOTICE.

With regard to advertisements affecting unqualified assistants, the proprietors of the *Lancet* think it right to point out that they obviously cannot guarantee that each individual advertiser offers his services under such conditions as would be approved by the General Medical Council. The proprietors consider that inconvenience to practitioners and hardship to unqualified assistants may be caused by the entire exclusion of these advertisements from the columns of the *Lancet*. The General Medical Council do not, it is understood, object to unqualified assistants being employed by practitioners when resident in or near their employers' houses, but the Council will not allow unqualified persons to conduct branch practices, or dispensaries which are situated at a distance from the principal's house, and are not under his immediate supervision.

I would like to know whether the *Lancet* ought not to substitute for the words "General Medical Council" in this notice the words "Pharmaceutical Society." If the Council of the Pharmaceutical Society do not know of this state of things, it is about time they were informed; if they do know it is more than time they took action. Have the Council of the Society already satisfied themselves as to the legality, or otherwise, of the practice I have referred to? If not they will fail in their duty to the public, and to chemists and druggists if they do not immediately ascertain this. I lay no claim to special legal knowledge, and am not, therefore, justified in offering an authoritative opinion; but I think no unbiassed person with an intelligent grasp of the English language can read the Pharmacy Act without deciding that the following is a case in which the law was broken:—I was an unqualified assistant; was alone in the surgery. Mr. A. came in and said he wanted some sleeping-draughts as before. I knew he was taking them with the doctor's knowledge. I turned up the prescription, found it consisted of "chloral, hydrat., gr. ʒʒ; aq. ʒʒ; Sixth part at bedtime when necessary." I dispensed it, handed it to him, and took a shilling cash in payment, or booked it, as the case might be. I believe I effected the sale of a scheduled poison within the meaning of the Pharmacy Act by so doing, and, as an unqualified man, broke the law. Such a thing happened not once, but hundreds of times, and is to-day happening in hundreds of cases up and down the whole country. Section 15 of the Pharmacy Act, 1868, provides that it is unlawful for any unregistered person to

sell poisons. The Amendment Act of 1869 says that nothing contained in the first fifteen sections of the 1868 Act shall affect duly-qualified medical practitioners. No one disputes the right of a qualified medical man to dispense poisons, but what about his unqualified assistant? Neither the 1868 Act or its 1869 Amendment make any provision for his exemption, and he would be a bold man who would suggest that the Law intended to stultify itself by permitting medical men employing, if they so choose, their coachmen to dispense strychnine, prussic acid, or corrosive sublimate. I do not make the statement that half the doctors get their dispensing done by their coachmen, because I do not believe such is the case, though I do know personally of a case where the doctor's cook often makes up a bottle of medicine.

In 1890 the Pharmaceutical Society successfully prosecuted a doctor's unqualified assistant for dispensing poisons, and although the prescriptions dispensed in this case were not written by the man's own employer, it is evident that in so dispensing poisons he was regarded as having conducted the sale of a poison within the meaning of the Act. If the Council of the Pharmaceutical Society is of opinion that the dispensing of poison in surgeries and dispensaries by unqualified men, apart from any supervision, is legal, the Pharmacy Act is a farce, and it is the bounden duty of the Society to take immediate steps to amend it. The practice constitutes a grave public danger. In the cases where fatal accidents do occur, the facilities offered for giving a certificate of death by the doctor and saving his practice by thus avoiding an inquest, affords a greater temptation than any man should be subjected to. The terrible risk of accidents which is being run by the hundreds and thousands of patients daily is one which the responsible government of a civilised community should protect them from. If the present Pharmacy Act does not contain provision for dealing with the evil, the Pharmaceutical Society can rely upon the support of public opinion, the public press, and surely that of the General Medical Council itself in asking that the Act should be amended so that they may be empowered to insist that no poison is dispensed except by, or under the immediate and complete supervision of, a legally-qualified medical man or pharmacist. Do the local chemists' associations want a subject for discussion and united action for the forthcoming winter session? This is one surely of sufficient importance to themselves, as well as to the public, to warrant all the time and attention they can give it. I have dealt with the question entirely from the point of view of the public safety; but the chemists and druggists of the country have a most direct and real grievance here. The Government, through the Pharmaceutical Society, has created a body of men specially trained to carry out a definite work—the dispensing of poisons. They have reason to expect that the right conferred upon qualified medical practitioners should not be relegated by them to those who the Act says are not fit and proper persons to be entrusted with such work. Let the Society be urged to take action, and when they move let them receive the united support of the local organisations of the trade.

Kinos.*

The official variety is now almost unobtainable. Can its place be effectively supplied by others met with in commerce?—*B.P.C. Blue-list Question, No. 49.*

By JOSEPH BOSISTO, C.M.G., Honorary Member of Pharmaceutical Society of Great Britain, &c.

THE question submitted under the above heading is answered from Victoria, Australia, to the following extent:—

That although the *Pterocarpus marsupium* and other species of the national order *Leguminosæ* yielding kino is not known to exist in Australia, the natural order of *Myrtaceæ* exists throughout Australia, and many of its species exude kinos, and some catechu. These at present (except one) have not been found of commercial value in consequence of their sparse solubility in water, or in any known cheap solvent.

* A paper communicated to the British Pharmaceutical Conference, but received too late for reading at the Glasgow meeting.

This arises from the gum kino not being collected within few days after its appearance on the outer bark. The extreme bright sunlight of Australia, together with the warm thermal lines existing both night and day, cause it to rapidly undergo change into a degraded insoluble bassorin.

Quantities of such-like kinos exist throughout Australia, obtainable chiefly from *Eucalyptus marginata*, *Eucalyptus amygdalina*, *Eucalyptus sideroxylon*, *Eucalyptus fissilis*, and many others.

The one I have already indicated is *Eucalyptus rostrata*, from which is exported annually about two tons of its gum. This is almost entirely soluble in water, and is a true kino. It is mentioned in Squire's "Companion to the B.P.," 1882, as *Gummi rubrum* from the *Eucalyptus rostrata*, and in Martdale's "Extra Pharmacopœia." The *Eucalyptus rostrata* species is one of the leading trees in many of the forests of Victoria, and is productive of this kinic substance that, being unable to force its way through the hard, tough, outer bark, lodges itself in treacle form in large orifices, or carbuncles, between the wood and the bark in such quantities, that I have known one and two bucketfuls of the liquid to be obtained by boring a small orifice into the swollen part.

This liquid kino, when evaporated in a vacuum-pan, obtained as beautiful ruby-red gum kino, thoroughly soluble in water or spirit. The supply from Australia would be very great if only a remunerative market were opened for it.

Trade-Marks Applied for.

(From the "Trade Marks Journal," August 11, 1897.)

"ANULE"; for all goods included in Class 3. By H.S. Wellcome, trading as Burroughs, Wellcome & Co., Snow Hill Building, Holborn, London, E.C., manufacturing chemist. 205,631.

"PSYCHEIA," and figure of girl in Greek costume, standing doorway; for a liquid toilet-preparation for the face, and being in the nature of a soap. By Elizabeth Parquett, 44 Osnaburgh Street, Regent's Park, London, N.W., journal 201,976.

(From the "Trade Marks Journal," August 18, 1897.)

Sketch of two clasped hands in double circle and wording, "J. G. Gamble & Son, chlorate of potash," &c.; for all goods included in Class 1. By the United Alkali Company (Limited), G11 Exchange Buildings, Liverpool. 200,813. Essential particular: the device.

"DRAGON," and other wording, together with sketch of insect selling fly-papers and surrounded with flies; for fly-paper. By P. Tyrer, 70 Long Lane, Southwark, Surrey, chemist. 205,578. Essential particulars are the device and the word "Dragon."

Fancy label, with name and address of applicant company; a chemical substance prepared for use in medicine at a pharmacy. By the Ammonol Chemical Company, 36 Edgware Road, 14th Street, Union Square, S.W., New York, U.S.A. 204,578.

Combination of devices on round label, with wording; for a colic salve. By W. S. Smith, 18 Bradgate Road, Catford, London, chemist and druggist. 204,503. Essential particular: the combination of devices.

Facsimile signature of applicant; for chemical substances prepared for use in medicine and pharmacy. By Benno C. Cecil Crödel, 21 Victoria Strasse, Dresden, Saxony, doctor. 206,072.

"COBO"; for a compressed tabloid, not medicated, for allay of thirst. By Nathaniel Stephen Goosey, trading as Gregory & Co., 20 Primrose Hill, Northampton, colliery agent. 205,978.

"SIBOLF"; for a preparation in Class 48 for the teeth and gums. By P. Beiersdorf & Co., 42 Eidelstedter Weg, Hamburg-Eimsbüttel, German Empire, manufacturers of pharmaceutical preparations. 206,120.

(From the "Trade Marks Journal," August 25, 1897.)

"TENALINE"; for a chemical preparation for veterinary use. By Willows, Francis & Butler, Whitehorse Buildings, 101 Holborn, London, W.C., wholesale druggists. 206,002.

The name "Jeyes" in circular device representing sun on the horizon; for all goods included in Class 2. By Jeyes' Sanitary Compounds Company (Limited), 64 Cannon Street, London, E.C., manufacturing chemists. 206,486.

Representation of woman in the act of singing with musical score; for medicated lozenges. By R. Gibson & Sons, Carlisle Works, Erskine Street, Hulme, Manchester, manufacturer. 202,737.

In Odd Volume.

By ONE OF THE 25.

"THIS is a curious example of early English printing, undated, but done, I believe, between 1550 and 1560. I brought it to-night as an example of a phase in the English press. The type is a German face black-letter, and is wonderfully quaint."

The speaker was a well-known book-lover, and he was giving a small gathering in the Northern Heights about the art and pleasure of book-collecting. A copy of the first edition of Browning's "Pauline" given by the poet to a dear friend had just passed through my hands, and I put it down to take up the fat little book which our entertainer was talking of. Opening it I found this strange title-page:—



THE TREE

ASVRI OF HELTH CONTAY

nyngz many profytable medicines, gathered out of Hipocratz, Galē & Auicē by one Petrus Hispanus & translated into English by Willelme Lloyd who hath added thereunto the causes & signes of euery dyscase, w^{ch} the Aphorismes of Hipocrates, and Iacobus de Serapibus reduced to a certayne order according to y^e members of mans bodye, and a compendious table conteyning the purging and confortatiue medicines, w^{ch} the exposition of certayne names & weyghtes in thys bolke contayned wth an Epistle of Dioscorido vnto King Artus sonus.

Ecclesiast. xxxvii.

The Lorde hath created Physyke of the earth, and he that is wyse will not abhorre it.



I pocketed the book for a more leisurely inspection, with the result that I have read it up to cockcrow several times. Following the title-page are mentioned the "Places of Scripture which seem to make for the prayse of Physyke." As I read these verses I thought they differed from the translations authorised by "The most high and mighty Prince James." The first verse quoted is "Exod. 15" (really Ex. xv. 22-25); Also yf you rede ouer the xiii. xiiii. xv. chapters of iudith (where the prestes be taught to dyscerne the prosy frome all other dysceases) you shall fynde many saynges that make for the prayse of Physyke." These give indications of divergence. Then come passages from Reg. 4 cap 10," to wit:—

"Hezekiah was sycke to the death, and after he had prayed to the Lord he sent Isayahe vnto hym, who put a lump of fygges vpon the sore and he recouered."

Compare II. Kings xx. 1 and 7, also II. Chron. xxxii. 25. These passages are not, of course, from our present Bible, and not being learned in Scripture translations I cannot say what version the good Humfery Lloyd quoted from.

I confess to some curiosity about the author, and I believe the book is a rare one. There is no copy of it in the Pharmaceutical Society's library, nor is it mentioned in the B.P.C.'s "Century of Old Books," nor have I seen Humfery Lloyd's name mentioned as an early apothecary. I have enjoyed his book nevertheless. When was it printed? My speculations on that may be of interest.

He says "To the gentel harted Reader" among other things, "sekyngz a meanes wherby I myghte profytte thys my natyve Country, [I] thought it best to translate thys litle treatyse whych was gathered out of the workes of the most noble and Auncient phisicians Hipocrates, Galēne, Dioscorides, and Auicē by one Petrus Hispanus whych (although he chaunced in a barbarous and rude tyme) was a man of

Of the fallynge of the Heare.

The Causes.



The fallynge of the Heare is of two kinde, of y^e which the one is called alopecia, which is caused through the malignite of viciouss, and noughty Humozes, which rotte and corrupte the rootes of the Heares, wherby they fall awaye.

The other is called Deficiendum capillozum, & cometh of the scarcitie of the skynne and lacke of the Humoze, by the which the heare be comfitted and nourished for the relaxatyō and losnesse of the Skynne, is the cause why they be not stedfast and wante of theyr humour doth extenuat the same, wherby they doo fall awaye.

The Sygnes.

B. i.

The

great knowledge and longe practyse." As I read through the preface I come to another passage which brings the date of the volume within narrow limits. He says:—"I dyd confer Fuchsins,* Ruellius † and Dortemius ‡ together, and followed y^e iudgement wherin they dyd al or the most part of them agree § and in the Englyshing therof I & all other whych intend any such worke are muche beholden to Mayster Wyllyam Turner, who wyth no small dyligence hath in both hys heralles most truly and synerely set forth the names and natures of dyverse herbes."

William Turner was the founder of Kew Gardens, and

* Leonard Fuchs of Tübingen (1501-1566), "De historia Stirpium" [1542].

† Ruel of Soissons (1474-1537), "De natura Stirpium" [1536].

‡ ? Dodonæus.

§ That is, as to the nature of herbs, which the author brings together in a table at the end of the book.

published his "New Herball" in three parts (1551, 1552, and 1563). If Humphrey Loyde had his personal assistance in translating, the "Treasury of Health" must have been printed (or written) before 1568, when Turner died, but it is probable that assistance from his book is meant, because authorities are named on the margins, and amongst them "Gerard" occurs not infrequently. This seemed to me conclusive because Gerard's "Herball" was published in 1597, but the owner of the volume fixes me with a paragraph on the last page—viz., "Imprinted at London in fletestrete at the signe of the Rosegarlad by Wyllyam Coplande." This printer is well known to bibliophiles. He retired from business in 1561, and died in 1568; so the Gerard referred to must be Gerardus Cremonensis, who rendered the works of Avicenna into Latin in 1555.

As an example of printing there is much that is curious in the book. The practice of over-scoring vowels before "m" and "n" and omitting these consonants is followed throughout. From the foregoing it is evident that the "Treasury of Health" is an older English book of physie than Gerard's "Herball," but its chief interest lies in the fact that no pharmaceutical writer within my knowledge has mentioned it. The first page of the text, reproduced in facsimile on page 383, shows the style of the writing. The causes, signs, and remedies of and for diseases are the subdivisions of the chapters, which all begin like the one illustrated, except in respect to the initial letter, which has no marrow in the book. It would not be profitable to summarise the quaint conceits which pass here for medical wisdom; indeed, the merit of the book is that it does not profess to give the author's opinions, but his digest of the works of the great writers. Consequently there are here brought together, cyclopædia-like, the sayings of masters of medicine, between the first and last of whom a decade of centuries had rolled, and yet the practice of the early men was continued unchanged by the later—the same nasty remedies given in the same abhorrent fashion. Yet there is much in their materia medica which we still retain, apparently for no better reason than that we have the things, and that they have not gone out of use.

Three-fourths of the book, which is not paged, is taken up with the treatise, then follow the aphorisms of Hippocrates, and an unusually valuable part to the pharmaceutical historian, entitled:—

A Boke conteynnyng the names of the
cōpound medicynes
I do comonly through all thys boke
use the Latyn names the
Apothecaries whych have such
medicines to sell do comonly use
the Latyne or rather Arabike, and
barbarouse termes, and not the
Englysch names therof, upon
which considerations
I thought it best to
use the same
through all thys
present
boke.

The names of the medicines occupy dozens of pages, and the author tells what they are good for. We notice the following which survive in the British Pharmacopœia after three centuries of modernising:—

- | | |
|-----------------------|-----------------------------------|
| Oximel squillitike, | Electuarie of Aromatikes, |
| Acetum squillitican | Syrup of the pillinge of Oranges, |
| Eplostra of mustar l. | Unguētū ceruse, |
| Electuar: of roses, | Oleū de junipero, |
| Oil of bitter almon | Pillule fetide, |
| Syrupe of poppy, | Pillule colloquintide, |
| Oil of swete almonds, | |

Besides these are many simples which are still official, and

hosts of simples and compounds which are household remedies to this day.

Next in order is "a Table conteynnyng the weightes whych the physycyens do comonly use . . . and they be the notid."

A corne.*	gra.	A quarter.	q.
A scruple	).	A half.	s.
A drachme	ʒ.	A handfull.	m.
An ounce.	ʒ.	Ana.	of ecury one.
A pounce	li.		

The lack of the central stroke in the scruple sign is notable, so also are the sign for a quarter, which we have lost, and that for handfull, which we now appropriate for the minim. Following the above table come definitions which are sufficiently interesting to quote:—

Electuarium & confectio differ in thys alone, that electuarium is moyst and made with suger and hony, & confectio drye made alonly wyth suger.

Mixtura is whē diuerse electuaries or cōfections be mingled together, & is receyued, ii. houres before meate.

Tragea is whē dyuerse pouders be mingled together wyth suger, and they be receiued a. ʒ. at onst w soppes of strong wyne.

Conserua & conditū be whē diuers spyces be mixt with some sirup and be comonly receiued early and late after the bygnesse of a walnut.

Loch is a medicyne which may be lyked wyth the tonge & may be receiued at al tymes in the quantitie of a hasel nutt.

Juleb is a cleare potyon made of dyuerse waters and suger.

Rob is a joyce made hard & thyeke wyth the heat of the sone or of y fire and is comonly mingled wyth electuaries, and conserues.

Decoetum is a medicine made of rotes leaves, seed and floures wherunto is added suger or hony.

Infusio is when diuerse medicynes be beaten to powder and layde to stepe a certayne space in sum liquor.

Trochiseus is a rounde confectiō and plaine, made after the maner of a whele, the which before it be receiued must be beaten to powder, and dronke wyth wyne, or other lycour the weyght of one. ʒ. comonly.

Pilles be knowē to al men & ought to be receyued two or three houres after supper the quantitie of .ʒ. i.

Sief is a confection made after the fashiō of a snger loaf & must be dyssoluyd in lieour before it be receiuid.

Sufur is a fyne powder made of diuerse spices.

Secaniabin is a sharpe syrupe wherin is put suger and hony.

Masticatoriū is a confection whyehe is held in the mouth & chewed to purge the head of flegme.

Suffimētum or suffumigatio is when diuerse pouders be cast upon the cooles, and the pacyent doth receyue the smoke therof.

Gargarisme is a confection of diuerse maters and sum decoctyon wherin sume rob is dissolued, which is gargarise in the mouth and not swalowed downe.

The foregoing are medicines receiued within the body those for outward application are:—

Unguētū an ointnēt, is made of oyles, spices & waxe.

Linimentū is in all poyntes lyke to unguētū sauing that ther goethe no waxe to the composycion therof.

Emplastrum is made of herbes and spyces, not being beaten to a powder but a lytell brnyed mixt with summe liquore or decoctyon, & beinge hole is put vpon a linē cloth and so layd to the sore.

Plus dyffereth not from an emplaster sauing that mele is braue good to the composycyon therof.

Cataplasma is made of grene herbes or drye sod in water tyll they be soft, and then applied to the sore.

Cerotū is made of wax or rosyn, w oyles & spices, and is layd upon a cloth cut after the forme of the mēbre it shuld be applied vnto.

Dropar is an oymnt only vsyd to take away heare.

Sinapismus is an emplaster made of mustard to vicerat the skynne & make the some red.

* "The least & fyrst of al weightes is a barley corne, and xx comes make a scruple."

ithema is made of dyuerse ponders mixt w̄ some joyce
stelled water, and comonly laid vpon skarlet is applyed
e seke membre.

ubrochia is when the membre is washed gentilly wyth a
dypt in the decoctiō of dyuerse herbes, rotes and
fles.

mentū is a bath made of the decoctyon of dyuerse
heres to washe the sore place wythall.

aporatio is when the dyseased membre is holden in ȳ
vapour of some decoctyon.

oculy be bagges made of lynch cloth wherin be cōteyned
heres rotes and leanes whych, beynge hotc muste be fyrste
dye in wyne or vineger, and then layd to the membre that
is cūyd.

acathisma or insessio is a decoctyon of certayne thynges
wh̄ in ȳ pacyent most sit for certayne space.

comment upon the quaintness of diction, spelling, and
definition would be to spoil the pleasure which many may
obtain by comparing these sixteenth-century galenicals with
those which are popular in the eve of the twentieth. But
Hafery Lloyd does not put all the galenicals in his
tasks, for I find both suppositories and pessaries mentioned
in the book, which may seem strange to pharmacists who
think that these useful articles have been introduced in their
lifetime. As a matter of fact, Galen prescribed suppositories
quite freely. The first mention of the articles in the "Trea-
sury" is this, amongst a score of remedies for "the
fryse":—

Take a suppository of opium and oyle of Vyolettes.

Agayn:—

Opium vsyd in suppositories doth restrayne the fluxe.

Take of Opium, Frankencence Myrhe of eche like muche,
mingle them together, and butter them w̄ the white of an
Egg and make suppositorye, and tye it wyth a threde that
maye the more easylye come forthe, it myghtylye
reyneth the fluxe of the belye and bringethe sleape on
the partye immediatlye.

Take a suppository of Acacia, Ipoquistides joyce of black
Peppyr myxt wyth pytche of grece, it bindeth myghtly.

Acacia giuen to drinke or put into the foundamēt. &
especially vsyd in a supposytorye with opium byndeth
verymently.

The first of these suppositories for diarrhœa is Avicenna's,
the rest are from Dioscorides. The following is one of
Galen's:—

For the hemorrhoydes flowe over muche, make a supposytorye
of eruse alone, or of Ipoquistidos, or els myxt burnt leide,
Caise, Ipoquistidos, & Acacia wyth pytch called Collofonia,
and order them as a suppository.

Still another of Dioscorides' prescriptions deserves quota-
tion as showing how Mr. Humphery Lloyd put them down
when he was careful. This one is "Agaynst desyre to the
ste without any sege":—

Take of whyte Frankencence. ʒi. of Ameos. ʒi. of Opii. ʒ.
and a halfe. of Saffron. ʒi. myngle them wyth hony and make
a suppository. for this is very good.

These examples serve to show that some suppositories
were of the nature of those which we have now, others were
non-fatty, and it was expected that a third class should be
kept in the bowel for a time only, then withdrawn. Pes-
saries were not "soluble" in the modern sense. I quote the
last example, and for decency's sake omit "the vses
thereof":—

Take ȳ braynes of a hare or calfe, or grene ysope, &
brier of gotes mylke, or cowes milke, almonds, storax,
clyfyed hony, of euery of them, ʒi. of oyle of spikes. ʒiij.
Stampe those which be to be stampid and melt the
rest afterward mingle them together, and w̄ wol make a
suparye therof.

Such else in the "Treasury of Health" I should have liked
to refer to, but the Editor's patience is probably exhausted by
mine, and the "gentle harted Reader" has had enough of it
from an evening's comparison with his own odd volumes of
of medicine and pharmacy.

S.—I happened to mention the book, since this article
was written, to a friend who knows little about pharmacy
and a great deal about the Popes, and it seemed as familiar

to him as Dickens. There are several copies of it in the
British Museum. Petrus Hispanus was physician to one of
the mediæval Popes. There are three columns about Hum-
phrey Llwyd, M.A., Oxon., in the "Dictionary of National
Biography," and there the sixth of his seven works is
entered thus:—

"The Treasury of Health," London, 1585, 8vo., being a
translation of "Thesaurus Pauperum Petri Hispani," to
which Llwyd has added "The Causes and Signs of every
Disease, with Aphorisms of Hippocrates."

This is not the most exact entry that was possible. Com-
pare the title-page. Llwyd died at Denbigh on August 31,
1568, and was buried in the Clough vault of the parish
church there. "He collected many books for Lord Lumley
[his brother-in-law], which were subsequently sold to
James I., and now form a valuable part of the British Museum."

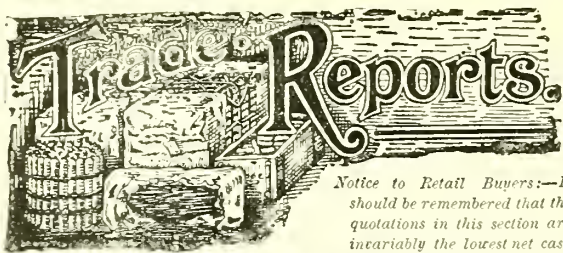
Reminiscences of Liebig.

THE *Pharmaceutische Wochenschrift* contains some inter-
esting personal reminiscences of Justus von Liebig by
Karl Vogt, who studied under the great chemist. When
Liebig was engaged in research or in writing he was abso-
lutely restless, and his eagerness to get out his results was
quite painful. It used to be said that he finished his papers
before the crucible with the last stage of the experiment had
left the furnace. When engaged in such work he never con-
sidered his own convenience or that of his assistants. One
day he entered the laboratory with a stoppered bottle, and
called upon Vogt to bare his arm. The assistant did so.
Liebig at once rubbed the stopper on the skin. Vogt felt an
acute burning pain, and ran to dip his arm in water. "Burns,
doesn't it?" queried Liebig, kindly. "Quite so. This is
dehydrated formic acid, which I have just succeeded in pre-
paring. A drop touched my cheek. See! It drew a
blister at once." Then, to another assistant: "You,
Demarçay, just bare your arm also! and all you gentlemen
pray do the same." Some did; one, Ertling, firmly refused.
"Well, Ertling," said Liebig, "I don't blame you. All you
gentlemen will have thickly swollen arms to-morrow. My
dehydrated formic acid is a strong caustic. All dehydrated
acids are, because they absorb water from the tissues."
Vogt, who had got the biggest dose, had to keep his arm in
a sling for some days, and he bears a scar to this day as a
souvenir of the discovery of dehydrated formic acid.

Liebig always gave his assistants full credit for all the
work they did, and encouraged them in signing everything
with their own names. "It stimulates them to fresh effort,"
he would say. "Nothing is more absurd than the French
system of publishing all laboratory work in the name of the
Professor at the head of the School. It discourages the
assistants, and often involves a man like Dumas into
polemics in defence of blunders really made by his assistants,
but published over his own signature."

His manner with people who wanted him to train their
sons as specialists was brusque. A cotton-prince from
Mulhouse, Vogt relates, called upon Liebig with the request
that his son might be taught the chemistry of dyeing in
Liebig's laboratory. One son was a practical spinner, the
other an engineer. This one was to be the dyer of the
concern. "I am not a dyer," said Liebig; "your son is no
use to me—take him to a dyeing-mill." The manufacturer
persisted, and at last besought Liebig, almost with tears in
his eyes, to take the youth. "Very well, then," said the
chemist, "I'll take your boy for two years. If there is any-
thing in him I'll make a chemist of him. But, look you
here, while he is with me he won't hear a single word about
dyeing. There will be never a lecture on colouring materials.
All he will be taught is chemistry. But when he comes back
to you he will know more about dyeing in a fortnight than
all your foremen taken together. Do you understand?" The
father never regretted that he agreed.]

The Maine druggist makes hay his profitable extra; a
New Hampshire one has added hens to his stock. The
Scutella caclates that there's not much difference between
a farmist and a pharmacist, as they both deal in eggextracts.



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 allowances 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. Further points which should be borne in mind are that the distributor generally has to bear the bulk of the freight-charges on the goods on their way from the producer to the retailer, and that for many articles the range of quality is very wide.

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

BUSINESS this week has shown an improving tendency, many of the wholesale druggists and dealers reporting a larger volume of trade. In drugs, a fair amount of business has been done in asafoetida at steady prices. Socotrine aloes are also in demand, and buchu leaves are in small supply on the spot. Japanese camphor is quoted dearer for arrival. A small business is passing in cocaine. New chamomile flowers are cheap and in plentiful supply, while on the other hand calumba-root of good quality is scarce and in demand. Cardamoms are in fair demand. Cod-liver oil is reported to be firmer, and the same may be said of castor oil. Dragon's-blood of fine quality is scarce. Persian galls are somewhat easier. The stock of kino is said to be very small in London. Persian liquorice is rather firmer, owing to scarcity. Ipecacuanha is firmly held at the recent quotations. Menthol firm. Nux vomica is arriving freely. Orris-root in plentiful supply. Quinine is unchanged at 9½. Virgin scammony is firm, though there is little demand. The senna crop is likely to be below the average; late arrivals will be offered at next week's auctions. Spermaceti unaltered. In essential oils there are few changes, the chief movement being in star anise oil, which is dearer. Cassia oil is firm at improved values. American and Japanese peppermint oil are unchanged. Citronelle and lemon-grass quiet. French Lavender has been advanced, English oil is in small supply. Essence of lemon and orange are reported to be very firm. Bergamot and rosemary steady. The prices for the new otto of rose have not yet been fixed. Turning to drysalteries, spices, &c., we have to report a firmer market for shellac at auction. Arrivals of the new-crop canary-seed are expected shortly. Turmeric shows no alteration. Japan wax has been in good demand, and most of the unsold lots at auction have been disposed of privately. Cassia lignea is more inquired for, while Zanzibar cloves are quiet. Mace fairly steady. Pimento shows a firm market. In white and black pepper there has been some excitement this week, and both are in good demand, especially the former. In fine chemicals, heliotropin, pilocarpine, and nitrate of silver have been reduced, the latter owing to the low price of the metal. Quicksilver unchanged. In the department of heavy chemicals, arsenic is steady, potash salts are practically unchanged, citric and tartaric are firmly held. Cream of tartar also shows a rising market. Nitrate of soda is quiet. Saltpetre remains inactive. Sulphur is very firm. Glycerine is in fair demand for export. Tupentine is quiet, American, on the spot, being quoted at 20s. 7½d. Russian and American petroleum dull

A report, dated August 3, emanating from a Kalamazoo newspaper, states that:—"As the distilling of peppermint progresses it is becoming evident that the Michigan crop this year is likely to be less than last season, notwithstanding the increase acreage devoted to the herb. But few fields of old mint are producing over one-half the yield of last year, and if the new mint set out in the spring fails to come up to the average a considerable shortage will result." This confirms the reports we have published recently from other sources.

A 30-lb. case of the concrete juice of the papaya (*Carica Papaya*), shipped from Ceylon, was included in the drug-sales recently. It consisted of small irregular masses of a light brown colour, having an odour somewhat resembling that of Par rubber. Papaw-juice is obtained by scarification from the unripe fruits, and is generally employed medicinally in countries where the tree is found. The active principle in papain is readily precipitated by the action of alcohol. Many virtues are attributed to papaw-juice; it is said to have the property of rendering tough meat tender, is used in the treatment of dyspepsia, diphtheria, and as an antiseptic, and is also recommended for eczema. The lot in question was sold at 5s. per lb. "subject to approval."

The Custom House authorities have recently issued a general order stating that no Spanish translation is now required in Spain of certificates of origin drawn up in French. Exporters will therefore be able to make their declarations on forms in that language. Supplies of the requisite forms can be obtained at the Secretary's office. Attention is drawn to the necessity for the exercise of the greatest care in seeing that the particulars required by the Spanish Customs authorities are correctly given in the French language.

Zanzibar has become enriched by a commercial journal, *The Shamba* (Plantation), which promises, judging from the first number, to be a very lively little paper indeed. *The Shamba*, which appeals to the Arab as well as the European planters, is published in English and Arabic. The African plantation owners seem to be in a bad way. Clove prices are low, and the gardens are generally in a neglected state. *The Shamba* proposes to educate the planters, and to keep a look-out on the London and American brokers. "The broker," it says, "is a creature to be watched, and in watching him we shall fight him with his own weapons, because he watches us, and very closely too. We have our part to play in this game, or we become the victims of the broker, who toys with us as a cat toys with a mouse. We have to watch the prices, not of cloves only, but of every product that we raise." Poor broker, they do not like him even in Zanzibar!

Attention has frequently been called to the occurrence of starch in opium, as, for instance, in "Pharmacographia," where Persian opium is especially referred to. Mjoen has pointed out cases in which Persian opium was heavily adulterated with starch, and Jelliffe mentions, in the *American Druggist*, that the opium of American commerce contains from 5 to 10 per cent. of starch-flour. Kebler and Lawall (*American Journal of Pharmacy*) could not find so large a percentage, but they confirmed the existence of opium in varying quantities, from traces up to 8 per cent. in all the samples examined by them. They attribute the small quantities to accident, and the heavier percentages to the attempt made by dealers at Trebizond or Constantinople to give Persian opium the appearance of the Turkish drug. The last-named investigators also ascertained the presence of strontium in the ash of opium.

Our Hamburg correspondent telegraphs on Thursday afternoon that *Pepper* is excited, a good business having been done in black and white. *Refined camphor* is unchanged, the price for bells being 2 55m. per kilo. *Liquorice-root* is advancing.

Our Amsterdam [correspondent telegraphs that the bark-auctions held to-day, in that city showed a slightly firmer feeling, manufacturing bark being sold at 4-32 per half-kilo., as against 4-30 at the July auctions, while druggists' barks realised from 7 $\frac{3}{4}$ c. to 61c. per half-kilo.

The
Amsterdam
Cinchona
Sales.

Our Smyrna correspondent wires on Thursday evening that the opium-market is advancing, owing to heavy purchases for speculative and Dutch purposes. The sales together amount to 60 cases current talequale at 7s. 2d. per lb., and Dutch grades at 7s. 10d. per lb.

Smyrna
Opium
Telegram.

Our New York correspondent telegraphs on Thursday evening that prices of drugs generally are tending upwards.

New York
Cablegram. *Senega-root and American oil of peppermint* are being held in the interior for higher prices. *Mandrake-root* is arriving freely. Light arrivals of *Aloes* are reported, the current quotation being from 2 $\frac{3}{4}$ c. to 5c. per lb., according to quality; aloes in gourds are scarce, and fancy prices are asked. *Honey* is firm at 5 $\frac{1}{4}$ c. to 5 $\frac{3}{4}$ c. per lb.

ACID (CARBOLIC).—Quiet and nominally unchanged; if anything prices are slightly lower. *Crystals*: 39° C. to 40° C. offer at 7 $\frac{1}{2}$ d., 34° C. to 35° C. at 6 $\frac{3}{4}$ d. *Crude*: 60 per cent., 1s. 11d.; 75 per cent., 2s. 3d. per gallon. *Cresylic*, 95 per cent., remains unchanged at 1s. to 1s. 1d. per gallon.

ACID (CITRIC).—Firmly held at 1s. 2d. per lb. for B.P. quality on the spot. Makers are said to be behind with deliveries, supplies being very scarce. *Concentrated juice* offers at 12l. per pipe, f.o.b.

ACID (TARTARIC) firmer, at 1s. 2d. per lb. on the spot for *English B.P.*, and 1s. 1 $\frac{1}{2}$ d. for foreign brands.

ALOES.—There has been some demand for *Socotrine* in kegs for export, and business has been done at 77s. 6d. per cwt. for good quality.

ARSENIC.—Steady. Best white *English powder* may be had at 23l. per ton; lump, 32l. per ton.

ASAFETIDA.—Since last week's auctions a fair business has been done both for the Continent and for the United States. Altogether, some 50 cases have been sold at, it is said, from 60s. to 75s. per cwt. Holders are very firm. A further arrival of 33 cases has taken place this week.

BUCHU LEAVES.—Are scarce on the London market. Seven bales have arrived per the *Norham Castle*.

CALUMBA is scarce on the spot, but prices show no alteration. Small sales have been made at previous values, ordinary being available at 30s. per cwt.

CAMPHOR (CRUDE).—Little doing. *Japan* for arrival comes dearer at 107s. 6d. for September-October steamer. *China* is still quoted at 92s. 6d. per cwt. c.i.f. terms. We understand that the syndicate is for the moment out of the market, their ideas being above these figures.

CANARY SEED.—A Constantinople correspondent writes, on August 20, that untimely rains, added to the unusual lightness of the seed, have necessitated a reduction in the estimate to 220,000 sacks. Prices of first small arrivals of new crop opened at 23s. 6d. to 24s. per quarter c.i.f., but have since gradually crept up to 25s. 6d. to 26s. Though the weather has been set fair for the past two weeks, and promises to continue so, very little stuff is coming down, for the simple reason that peasants fearing further rains are spending all their energies on threshing and storing their crops. Other years they were in the habit of bringing down, at once, the result of each day's threshing. As soon as they have gathered everything (say in another week or ten days) shipments to sea coast towns will begin on a large scale.

CARDAMOMS.—Eighty-nine packages have arrived per the *Pyrrhus* from Colombo. A steady business is reported since the auctions.

CASCARA SAGRADA.—This article would seem to have no bottom to it, and is now offered at 12s. per cwt. on the spot and 10s. per cwt., c.i.f., by sailer.

CHAMOMILES.—Are cheap. Best new *Belgian* flowers are offering at 34s. per cwt. London terms.

COAL-TAR PRODUCTS.—*Benzol*, 90-per-cent. 1s. 11d., and 50-per-cent. 2s. to 2s. 1d. per gallon. Solvent *Naphtha*, 90-per-cent. offers at 1s. 6d., 95-per-cent. 1s. 8d. per gallon; crude, 30-per-cent., at 11 $\frac{1}{2}$ d. to 1s. 0 $\frac{1}{2}$ d. *Toluol* is quoted at 2s. 4d. to 2s. 5d. *Aniline oil* is quoted at 7 $\frac{1}{2}$ d., and salts at 8d.

COCAINE.—A small business is doing from second hands at 9s. 3d. to 9s. 6d. per oz. for the *Hydrochlorate*.

COCOA BUTTER.—The Amsterdam cocoa butter auctions to be held on September 7 will consist of 85 tons *Van Houten* brand, 30 tons *Hamer*, 15 tons *Hollandsche cacao-fabr.*, 7 tons *Mignon*, and 4 tons *Suchard's* make. At the London auctions 30 tons *Cadbury's* will be offered.

CREAM OF TARTAR shows a rising market, first white *French* crystals being quoted at 77s. 6d. per cwt. on the spot, and *Powder* 2s. per cwt. more. The f.o.b. Bordeaux quotation is 73s. per cwt. *Spanish* 99 per cent. is quoted at 80s. cost and freight.

CROTON SEED.—Seven bags have arrived per the *Benledi* from Colombo. There is no demand for this article at the prices asked.

DRAGONS BLOOD continues to arrive freely, although really fine is still scarce. By the steamer *Britannia* due here on August 28, 20 cases are expected, but quality is not known.

ERBEG OF RYE.—Good *Russian* sifted is offering at 5 $\frac{1}{2}$ d. to 6d. per lb. on the spot.

GALLS.—*Persian* blue galls are somewhat easier, the demand being limited. Green keep firm, and some parcels of white have changed hands at full rates. Blue are quoted at 50s. to 51s. 6d.; green at 44s. to 48s.; white 42s. to 43s., and sorts at 47s. to 48s. per cwt.

GLYCERIN.—There has been a fair demand this week for 1,260 s.g. chemically pure for shipment to South Africa, which is required, it is stated in connection with the rinderpest. The article, however, does not improve in value, business having been done at 51s. per cwt. in tins and cases for *English* brands. *German* brands are quoted £2s. 6d. upwards.

GUAZA.—Sales have been made privately this week at 3 $\frac{3}{4}$ d. per lb. for good green for export.

GUM (ARABIC).—The large supplies catalogued at auction to-day were nearly all bought in. Of 2,384 packages Bombay barely 100 sold: *Cannepore*, dusty small realised 30s.; *Ghatti*, fine pale, 31s. 6d.; selected, 38s. Of 32 packages *Madras* 22 packages sold: bold dull, 27s. 6d. per cwt. Of 217 packages *Aden* 6 sold: chips, 27s.; pale siftings, 30s. Of 97 packages *Turkey* 11 sold: picked pale small, 5l. to 5l. 10s.; dusty hard pale sorts, 65s. Of 228 packages *Australian* 20 sold: hard glassy strong red, 28s. Of 51 packages *Zanzibar* 21 sold: small amby and blocky, 17s. 6d. to 18s.

GUM KINO.—The stock of genuine is said to be very small, and 15s. per lb. has been paid.

HELIOTROPINE has been still further reduced to 16s. per lb. for quantity and 17s. 6d. for single pounds.

HONEY.—The best quality of *English* honey is being disposed of at 8d. per lb. In certain parts of Devonshire the crop is more plentiful this season than for many years past.

IPECACUANHA.—Both Rio and Cartagena are steady at our quotations of last week.

JALAP.—The parcel of 40 bales fair unworked *Vera Cruz* offered at the last drug-auctions have been sold, it is said, at 5 $\frac{1}{2}$ d. per lb., which marks a firmer feeling.

LIQUORICE-ROOT.—A small lot of ordinary rough *Persian* has just come to this market, which is offering at 8s. per cwt., at which small sales have been made.

MATICO LEAVES.—This article, which has been scarce here for some time, is offering from Hamburg at 9 $\frac{1}{2}$ d. per lb., f.o.b., for good green leaves.

MENTHOL still maintains its firm position at our last quotation of 6s. 3d. per lb., while for August-September shipment 6s. 1d. to 6s. 2d. c.i.f. is asked.

NUX VOMICA.—The arrivals this week include 250 bags from Calcutta, per *Clan Matheson*, and 13 bags by the *Pyrrhus* from Yokohama.

OIL (CASTOR).—Firmly held. On the spot best *Italian* medicinal oil is offering at 4d. to 4½d. per lb. *French* oil of first pressing is dearer, 37s. per cwt. being the asking price for forward delivery. Reports from Calcutta remain extremely strong. It is said that the arrivals of seed are quite insufficient for the requirements of the oil-crushers, and the stocks are small and held for more money. There is a good demand for oil for Europe, but suitable quality is very difficult to obtain. The stocks cannot be renewed at present owing to the continuation of the rainy weather.

OIL (COD-LIVER).—One agent reports a much stronger position for *Norwegian* quality, with sales of 200 barrels at full prices. Quotations range from 64s. to 70s. per barrel, c.i.f. London, for this season's non-freezing quality, and 60s. per barrel for 1896 oil. Our Bergen correspondent writes, on August 21, that the cod-liver oil market still keeps firm. The current quotation for best non-congealing *Lofoten* can for the moment hardly be put at less than 64s. per barrel, f.o.b. The exports from Bergen up to date were 5,667 barrels, against 3,083 barrels at the corresponding period of last year.

OIL (OLIVE).—There is a fair demand for best *Lucca* oil which is offering at 4s. 3d. to 5s. 6d. per gallon according to quality, ex wharf London terms. These figures show an advance of about 10 per cent., as the crop in Italy is reported to be short this year.

OILS (ESSENTIAL).—A few changes have taken place this week. *Star anise* is more freely inquired for, and business has been done at up to 8s. per lb. on the spot and 7s. 7d., c.i.f. July-August steamer. *Peppermint*: *HGH* is quoted at 6s. 4d. to 6s. 4½d. per lb. on the spot, whilst for November shipment 50 cases are offered at 6s. per lb., c.i.f.; *Wayne County* at 4s., c.i.f. terms; *Japanese* steady at 3s. per lb. for demethylised, and 4s. per lb. for 40-per-cent. oil, both c.i.f. terms. *Cassia* is firm at late improved values; for arrival 70 to 75 per cent. is quoted 5s. 9d., c.i.f., and 5s. 10d. to 6s. per lb. on the spot. *Citronella* quiet at 2½d. per oz. *Lemon-grass* quiet at 2½d. per oz. *Lavender*: French oils have been advanced 6d. per lb. this week, *Mont Blanc* being now quoted 6s. 5d. per lb.; *Spike*, 2s. 9d. per lb.; *English* oil of this year's crop is quoted 65s. per lb., but there seems to be comparatively little available. *Messina essences*: Both *Lemon* and *Orange* are reported very firm, owing, it is said, to active demand and reduced stocks. The former is quoted 3s. 2d. per lb., and the latter 5s. 4d. per lb. for *Sweet* and 6s. 11d. per lb. for *Bitter*, all c.i.f. English ports. *Bergamot* is reported steady at 8s. per lb., c.i.f., but it is thought that rather lower prices will shortly rule. *Rosemary*: It is stated that the French crop will be a short one. *Otto of rose*: The new prices have not yet been fixed, but it is said they are likely to show an advance on those of last season.

OPIUM.—A quiet market, there being no business to report. Offers for a small lot of good medium have been refused, holders being firm at the present quotations. Finest, 10s. to 10s. 6d.; medium, 9s. 3d. to 9s. 6d.; common, 8s. to 9s. per lb.

ORRIS ROOT.—New crop *Florentine* is offering at 44s. per cwt. c.i.f. terms for extra picked; picked 41s.; sorts 39s.; small white 38s.; "mercantile" 35s. per cwt. all c.i.f. terms. *Verona* picked 34s.; first quality 31s. to 32s.; sorts 29s. per cwt. c.i.f. terms. Part of the 15 bags *Verona* bought in at the last drug auctions have been sold at 36s. per cwt. The crop this year is said to be unusually large.

PILOCARPINE.—Is lower, one German maker offering at 1s. per gramme.

POTASH SALTS.—*Chlorate* is quiet, at 3¾d. to 4d. *Cyanide*, 98 per cent., offers at 10¾d. per lb. for export. Yellow *Prussiate*: Beckton, 5½d. per lb. net; other brands, 5¾d., usual terms. *Bichromate*, 4¾d. to 4¾d. per lb. *Saltpetre*: The market for *Bengal* remains dull, but prices are steady. One hundred and fifteen tons were landed last week, and 73

delivered. The stock is estimated at 2,778 tons, against 2,652 tons at this time last year.

QUICKSILVER remains unchanged at 6l. 17s. 6d. per bottle in first hands, while second-hand holders would take 1s. less.

QUININE.—The anticipated rise to 10d. per oz., on the part of makers has so far not come off, but the market is so far stronger in that the offers to druggists at 9d. per oz. have now been withdrawn, and 9½d. per oz. is now the general quotation from second-hands. One lot of Auerbach is still offering at 9¼d. from second-hand.

RESORCIN.—The makers have reduced their price for the *puriss. cryst.* to 6s. per lb. for small lots; 5s. 9d. per lb. for 56 lbs. in one delivery; and 5s. 6d. per lb. for 1 cwt. lots in one delivery.

SCAMMONY.—The absence of demand for Virgin still continues, but holders do not show any signs of giving way in prices, which are still quoted 27s. to 30s. per lb. for firsts. *Resin* firm at 7s. per lb.

SENEGA-ROOT is exceedingly quiet, nominal quotations being 1s. 1d. per lb. on the spot, and 1s. per lb. for arrival, c.i.f. terms; probably, however, the article could be got at less in quantity.

SENNA.—*Tinnevelly*: It is stated that about 200 bales of late arrivals will be offered in next week's drug auctions, of which only a small proportion will be of good medium quality, the bulk being small, spotty leaves. The *Britannia* from Bombay due here about August 28 will bring a further 140 bales. *Alexandrian* is exceedingly dull of sale owing to heavy stock, and the demand has entirely fallen off. *Picked leaves* are quoted 8d. to 9d. per lb., *broken leaf* 6d. to 7½d. per lb., and *siftings* 3d. per lb. Further reports from *Taticorin* seem to confirm the previous news that the crop will be below the average both in quantity and quality.

SHELLAC.—The market continues steady, although little business has been done. On the spot small sales have been made, and for arrival there is little desire to operate, with the result that prices have slightly eased. *TN Orange*, August delivery, has been sold at 63s., while for October-December delivery there are buyers at 61s., and sellers at 62s. per cwt., c.i.f. terms. At the auctions 458 cases second *Orange* were offered, about 200 finding buyers at dearer rates for *TN* quality; finer descriptions 2s. dearer; low, blocky liver, 46s.; ordinary red livery, 55s. to 58s.; good to pale, 65s. to 77s. per cwt. 130 cases *Garnet AC* offered, and all sold. *AC* in diamond, 69s. to 70s.; blocky snake at 51s. to 52s. (without reserve). *Button*: Of 121 cases offered 10 sold at steady prices; fine firsts, 81s.; blocky firsts, 67s. to 68s.; ditto resinous and blocky, 59s. to 60s.; second blocky, 58s.; thirds, 55s. per cwt.

SILVER NITRATE.—The metal having gone below 2s. per oz., this salt is quoted at 1s. 3½d. to 1s. 4d. per oz. for *Crystals*, and ¼d. to ½d. per oz. more for *Sticks*.

SODA SALTS.—*Nitrate* is quiet, at 7l. 7s. 6d. on the spot for ordinary, and 7l. 12s. 6d. per ton for refined. *Caustic soda* steady, at 7l. 10s. for 70 per cent. on the spot; 76 per cent., 8l. 15s.; Liverpool or Tyne; 74 per cent., 8l. 5s.; 70 per cent., 7l. 5s.; 60 per cent., 6l. 5s., Liverpool. *Crystals* are quoted at 50s. for bags and 52s. 6d. for barrels ex ship in London. On the Tyne 52s. 6d., f.o.b., and in Liverpool, 57s. 6d., f.o.b., is the price. *Ammonia alkali* (58 per cent.) offers at 3l. 17s. 6d. per ton in bags on rails, or 4l. f.o.b. Liverpool.

SPERMACELE.—*American* refined is unaltered at 1s. 3¾d. per lb. on the spot.

SPICES.—*Cassia lignea* has been more inquired for, 500 cases old having been sold at 43s. to 43s. 6d. per cwt. *Zanzibar cloves* are dearer, with sales of 2,500 bales on the spot at 2¾d., October-December delivery at 2½d., December-February 2¾d., and January-March 2½d. *Mace*: Fifty cases *Penang* sold privately; fair at 1s. 6d.; pickings, 1s. 3d. to 1s. 3½d. per lb. *Black Singapore pepper*: For arrival about 150 tons have changed hands; July-September steamer at 3½d.; August-October, 3½d.; September-November, 3½d.; and October-December at 3½d. *White pepper* is in good demand at a further advance. Sales include 60 tons *Penang*, August-October steamer, at 4¾d., September-November at

$\frac{1}{16}d.$, and October-December at $4\frac{3}{16}d.$ *Pimento* shows a firm market; 1,000 bags have been sold at $2\frac{1}{16}d.$ to $2\frac{3}{16}d.$ for common to good. *Cochin ginger* is dull of sale, and the small supply at auction—500 bags—all bought in; fair washed rough, 23s.; good brown rough, 33s.; of 63 cases, 21 good bright rough sold at 33s. 6d. to 34s. 6d., being firm; the remainder were bought in. Three hundred bags lined *Japan* were bought in at 13s. 6d. *Jamaica* is also dull of sale, without quotable change.

SULPHUR is very firm, at rather higher rates. *Foreign* lowers, 6l. 15s. to 7l. per ton. *Roll*, 6l. 10s. per ton.

TEA.—The Indian market is now being liberally supplied, and teas under 9d. are a shade cheaper. Fair Pekocs can be bought at $6\frac{1}{2}d.$, and similar Pekoe Souchongs at $5\frac{3}{4}d.$, while rubbish sells down to $4\frac{1}{2}d.$ Better grades are fairly steady, but in some cases a trifle cheaper. Ceylons on Tuesday sold firmly, and for anything with any quality and character at extreme rates.

TRAGACANTH.—A fair business has been done in almost all varieties at full prices. Firsts at 13l. to 13l. 10s.; seconds, 11l. 5s. to 12l. 10s.; thirds, 10l. to 11l.; fourths, 8l. to 10l.; yellow and pinky, 6l. to 8l.

WAX (BEES).—*Jamaica*: Since the auctions most of the unsold lots have been cleared at about sale rates.

WAX (JAPAN).—A good business has been done for the Continent, including 500 cases October-November shipment, at 37s. 6d., c.i.f., Hamburg. On the spot 41s. to 43s. per cwt. is asked, according to quality.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on August 25, reports that in *Castor oil* there has been considerable movement during the week, and although the price of good seconds is nominally reported as $3\frac{3}{4}d.$, there is very little procurable at that price, and most holders are entirely off the market, or they ask $\frac{1}{2}d.$ per lb., and there are indications of even greater scarcity in the article; the *Dictator* has arrived with over 1,000 cases from Calcutta, but the market is practically unaffected. First pressure *French* is very firm at $3\frac{7}{16}d.$ to $3\frac{1}{2}d.$ per lb., and second pressure is in limited supply at $3\frac{3}{4}d.$ per lb. *Madras* is held for $3\frac{3}{4}d.$ per lb. *Sulphate of copper* is firmly held at 16l. to 16l. 5s. per ton, and forward more money is asked. *African ginger* has exhibited considerable strength during the week, and sales in quantity have been made at 15s. to 17s. 6d., finishing off with buyers at the latter price. *Canary seed* advanced rapidly to 30s. per quarter for good Turkish; but on the appearance of forward sellers the price dropped to 28s. 6d., at which sales have been made, and now a further upward movement is in progress. In gums the tendency of importers of *Soudan* sorts to hold their stocks for full prices does not exhibit any relaxed disposition, and quotations here are firmly maintained, but there is very little actual business passing, buyers showing only a small interest in the article. Medium grades are less firmly held, but share the inactivity of the demand for the better kinds. *Beeswax* is steady, sales of *Gambia* being made at 6l. 10s., from the quay, and the only business reported in *Chilian* is a considerable parcel of good grey and yellow at 6l. 15s. per cwt. *Honeys* are quiet, sales of pile III. *Chilian* being made at 21s. per cwt. out of recent arrivals, and 100 barrels of low *Peruvian* were disposed of at 19s. 6d. per cwt. *Californian* is well held, especially the new of good quality. *Kola-nuts* meet with a steady demand, recent imports changing hands at $2\frac{1}{2}d.$ to $3\frac{1}{4}d.$ per lb.

The Hamburg Market.

Our Hamburg correspondent writes, on August 24:—Our drug-market is practically unchanged since last week. *Agar-agar* keeps very firm at 275m. to 280m. per 100 kilos. *Russian anise* is firmly held, at 33m. per 100 kilos. *Balsam Peru* is unchanged, at $15\frac{1}{2}m.$ per kilo.; *Tolu* is a little easier, at $5\frac{1}{2}m.$ to $5\frac{3}{4}m.$ per kilo. *Refined camphor* is steady, at 260m. per 100 kilos. *Cassia lignea* shows a strong market at 74m. to 76m. per 100 kilos.; old cassia demands much higher prices. New *Maltese cummin-seed* is quiet, at 37m. per 100 kilos. *Cinnamon* is steady, some business having been done in September-October shipment at equal to $9\frac{1}{2}d.$ and $9\frac{3}{4}d.$ per lb., c.f.&i. Hamburg. *Coca-leaves* are quiet; *Bolivian* at 125m. per 100 kilos. *Ergot of rye* is steady, at 95m. to 100m. per 100

kilos. *Honey* shows a fair demand for good sound *Chilian*, pile II. and III., at 42m. to 43m. per 100 kilos., c.f.&i. Hamburg. *Menthol* is unchanged, at $13\frac{3}{4}m.$ per kilo. *Lycopodium* remains firm, at 265m. per 100 kilos. *Quillaia bark* is very firm; whole bark demands 42m., cut bark 46m. per 100 kilos. *Quinine* is steady, at $23\frac{3}{4}m.$ per kilo. Essential oils: *Star-anise* is firm, at 17m. per kilo. *Russian anise oil* is also very firm at $14\frac{1}{2}m.$ per kilo. *Peppermint oil*, HIGH, is firm, at $6\frac{1}{2}m.$ per lb.; Japan oil, $5\frac{3}{4}m.$ per kilo. *Cod-liver oil* is still unchanged, at 68m. to 70m. per barrel. *Castor oil* is steady, spot being scarce at 63m. to 64m. per 100 kilos. *Vera Cruz jalap* is firm, at $102\frac{3}{4}m.$ per 100 kilos.; *Senegal* at 240m. per 100 kilos. *Turpentine* is quiet, at $43\frac{1}{2}m.$ per 100 kilos., delivered weight. *Star-anise seed* firm, at $182\frac{3}{4}m.$ to 185m. per 100 kilos. *Japan wax* for spot delivery is very firm at 78m. per 100 kilos., and 74m. to 75m. for shipment.

The New York Drug-market.

Our New York correspondent writes, under date of August 17:—"The usual midsummer dullness prevails. Nothing of importance has occurred with regard to change of prices as a result of the new tariff law, but developments will doubtless be forthcoming in that respect as the season advances. *Newfoundland cod-liver oil*: there is practically nothing doing. New is now arriving, but manufacturers have not fixed prices. Last season's output is quoted at 60c. *Wintergreen oil* is advancing, \$1.10 per lb. being quoted for the natural article, the upward movement of salicylic acid, now held at 44c. to 45c., having indirectly proved a helpful factor in this respect. Synthetic has advanced from 42 $\frac{3}{4}$ c. to 45c. in 1,000-lb. lots. *Anise* remains firm. While some holders quote as high as \$1.90 to \$2, others report sales at \$1.80 to \$1.85, while others yet report having made sales at \$1.75. At the close there appeared to be more buyers than sellers at the lowest named. Natural *Sassafras* shows in some quarters a further advance to 40c., while some second hands still quote 38c. to 39c. Standard artificial is said to be unobtainable. *Gum chicle* is firm at 26c., jobbing at 28c. to 30c. The demand is easy, while stocks are small and importations are light. *Curaçao aloes*: 300 packages arrived and were promptly sold. For boxes the quotation is 4 $\frac{3}{4}$ c., and gourds 2 $\frac{1}{4}$ c. *California honey*: water white is hard to procure; 6 $\frac{1}{2}$ c. is asked; ordinary white, 5 $\frac{3}{4}$ c.; and light amber, which is also a scarce article, 5 $\frac{1}{4}$ c. *Balsams*: 10 cases Peru have arrived, and are now selling at \$1.90. *Tolu* is quoted at 50c. to 52c."

The Constantinople and Smyrna Opium-markets.

Our Constantinople correspondent, writing on August 20, states that the opium-market is quietly steady at about 7s. for druggists', and 8s. 7d. to 8s. 9d. for new soft grades containing 65 to 70 per cent. firsts. The only buyers are speculators, who expect to secure good prices in London owing to depletion of stock there. The crop will not yield more than 7,000 to 7,500 cases, including *Soft shipping* and *Salonica*, which is below the average. Unless speculators backed up by London see fit to maintain or raise prices, it is difficult to foresee anything but a dull and drooping market. America apparently will do nothing for some six months or so, and the Dutch Government purchases will, we think, have no effect whatsoever on druggist qualities. Our Smyrna correspondent writes, under date of August 13, that, as usual, some of the "spoiled" buyers on the market have done their best to prevent the execution of several small orders by paying one piastre over the prices ruling last week. Their purchases amount to 12 cases new current *Tale quale* at 6s. 9d. per lb. for speculation. Two exporters have also been obliged to buy 3 cases new current *Tale quale* at 6s. 9d. and 2 cases *Yerli* at 7s. per lb. for exportation. Up to the present the arrivals of new opium are 1,160 cases, against 801 cases at the corresponding period of last year. It is still said that the larger part of the new opium now arriving on the Smyrna market is not up to the usual standard of quality, and that the morphia yield is therefore likely to be small. There is no doubt that this is due in some measure to the incision of the poppies, and the gathering having taken place in wet weather, when the juice having been diffused over the capsules has peeled off a part of the skin or pellicle. The Smyrna market closed with an uncertain feeling.

Correspondence

In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

Notice to Correspondents.

The Arsenic Trade.

SIR,—As agents for the Cornwall Arsenic Company will you allow us to call your attention to the remarks in your last market report concerning arsenic.

The price you give there (17*l.* to 18*l.*) is, we understand, the contract-price at the mines for the crude article, which is refined by our principals and others.

The price of the refined arsenic in casks is such at the moment as to leave scarcely any profit either to the refiner or the middleman. We ask you to insert this, as your remarks may be misunderstood, and mislead our customers.

Yours truly,

11 Blanket Row, Hull,
August 24.

E. & H. ALLISON.

Organotherapy.

SIR,—In returning thanks for your well-informed criticism of my paper, will you allow me to say—

There is no necessary divergence between Dr. Murray's statements and mine. That gentleman's experiments went to prove that a carefully-dried preparation of the gland was equal to it in the fresh state. Such may be the case; but fresh is a word of indefinite meaning, and may stand for anything short of decomposition. My contention is that the preparation made by macerating the gland—still warm from the animal—in a sterilised-glycerine solution, will be found superior to any dried or tablet-form preparation.

The experiments of Claude Bernard have clearly shown that *post mortem* changes set in in organs within a few hours after death, and before the slightest evidence of decomposition is perceptible. Hence, in my judgment, the necessity for the immediate immersion of the gland in glycerine

It is very true that good effects have followed the administration even of thyroid-tablets, but I have never sought to argue that the manufacturers of these had succeeded in dissipating every trace of active principle. But I do believe the glycerine solution of the warm gland, be it thyroid or any other organ, is a more scientific method, because it secures the solution and preservation of the active principle, whether it be a ferment, an albuminoid body, or an elaboration of iodine, or any other element.

Yours truly,

Dublin, August 8.

J. C. MCWALTER.

Sumatra Benzoin of Commerce.

SIR,—Kindly allow me to make one or two remarks, not critical, but supplementary, to your apposite editorial in the *C. & D.* of August 14 on my paper read at the recent Conference and the subject of it. The point at issue is not whether "the fact that Sumatra benzoin is a manufactured article is known to the retail trade," but the pharmaceutical value of the drug as gauged by the Pharmacopœia standard. If competent buyers recognise a standard, then I think there should be no difficulty in putting on the market for pharmaceutical use resins in which the maximum of impurity does not exceed 10 per cent. In nine of the purchases I made at "highest" or "opt." prices one only fell below this limit, and it proved to be a low-quality Siam. The retail chemist is powerless to command a better quality. His position is pay your money and take your chance. Seeing the demand warrants a better supply, I hold that it rests with those who control the London market to insist on getting resins of the standard, and such could be listed—as is the case with some drugs which are not absolute—as, say, 90 per cent. (or over), according to quality, and then the retail buyer would know what he is doing. Of course, this would still leave the question of the

composition of the soluble matter untouched; but it would be a step in the right direction, and at the same time it would leave the market otherwise as it is and manufacturers free to use any variety that will yield benzoic acid.

Glasgow, August 20.

THOMAS DUNLOP.

In the Back of Victoria.

SIR,—In your issue of May 29 I notice you offer a prize in connection with a photographic competition. Not being a photographer I do not covet your prize, but simply send a photo of our pharmacy, so that your English readers may have an idea of an Australian pharmacy which is nearly 300 miles from Melbourne. The photo was taken by a local amateur just after the "Bullockies" had unloaded some goods, &c., for our firm.

The distance from the nearest railway station is fifty miles. The road is rough and mountainous. At this time of the year, and especially after the severe drought we have experienced, a bullock-driver's life (like the policeman's in "The Pirates of Penzance") is not a happy one. We cannot, therefore, say for certain when we will receive our goods. Corryong is the most north-eastern township in Victoria, and is only six miles from the Murray, which divides us from N.S.W. Twenty-five miles due east in N.S.W. Mount



Kosiusco, the highest mountain in Australia, stands majestically for seven or eight months in the year covered with snow. It is a most beautiful sight to look up what is called the valley of the Murray, clad in rich verdure, to the mountains, rising higher and higher until culminated by the snow-covered Australian Alps and Mount Kosiusco standing aloft.

Our climate is variable. Last summer the thermometer stood at 105° in our doorway, and a few mornings ago was down to 30°. Notwithstanding these great climatic changes Corryong is a healthy place—perhaps too much so for a chemist.

Of the various pursuits carried on in the district grazing, farming, and mining are the chief. At Cudgewa, a village eight miles from here, there is a large butter-factory. Doubtless some of the Cudgewa Butter Company's product is not unknown to the readers of your journal, and, therefore, some of the hard-earned money derived from pill-punching in the Old Country finds its way by a roundabout process into the coffers of the pill-puncher in this remote part of the globe. The Upper Murray is noted for its cattle, and the bulk of the Melbourne meat-supply is derived from this district. Mining is carried on at the mountain seen in the photo. Some very rich returns have been obtained, but as yet the industry is only in its infancy.

In conclusion, Sir, I must not forget to say how eagerly I scan the *C. & D.* every week, and to thank you for the kind references you made, some few months ago, regarding my father, Mr. George Denby, Thames, N.Z.

I am, Sir, yours truly.

The Pharmacy, Corryong, Vic.

WM. DENBY.

[We are pleased to be the medium of communication between our friend at Corryong and the rest of the world.—*Ed. C. & D.*]

An Appeal to Charity.

SIR,—I venture to encroach upon your space for the discussion of a subject which requires it most grievously. There is absolutely no encouragement for assistants who wish to qualify themselves; there are not even the proper means to do. The average junior works till 9.30 or 10 P.M. at a most miserable salary. How then is he to obtain time for systematic study or the wherewithal to pay for it? We are warned, by those who promulgate our pharmaceutical ethics, to practise our profession on scientific lines; to beware of the numerous pitfalls which beset us on all sides of the path of "up-to-date" pharmacy. Warned, indeed, with oft-repeated platitudes, and starved the while!

What can we do, we who are not blessed with a parent in the trade who will give us time for classes; who are not overburdened with the means to pay the large fees of the schools; but who form the vast majority of assistants? Is it such a wonderful thing that men do not go in for the Minor, when they have even less than a superficial knowledge of their curriculum? Is it surprising that a large percentage of actual candidates fail? The time has come for something to be done to alter this state of things. Let the Society give free or cheaper education to those who show themselves eager for and deserving of it. Let those who have grown wealthy through the trade give donations to those schools whose principals would halve their present fees; above all, let assistants combine to obtain reasonable hours. I cry not for "short," but "shorter," hours.

Then we may see a change steal upon our profession; we may see those neglect "store trade" and "nostrum-advertising" who now have little else to choose from but this or slaving all their lives at a most miserable pittance.

I am, yours &c.,

London, W., WOULD-BE-REFORMER. (199/67.)

[We print this young gentleman's letter with the object of giving him and others who may think with him a word of advice. He has no claim whatever on the charity either of the trade or of the nation. If he wants to be a chemist and druggist the way is open to him as it is to others; but he confers no favour on the trade or on the nation by qualifying. He seems to think himself justified in demanding his technical training at half its cost-price at the most. Men do not make their way in the world by leaning against other people. Our friend needs above all things to learn to stand firmly on his own feet. The drug-trade is not a nursery; and the men who have got on in it owe their position to their own exertions, and not much to the Pharmaceutical or any other Society.—ED. C. & D.]

P.A.T.A.

SIR,—Mr. Glyn-Jones evidently believes in the old adage, "Discretion is the better part of valour"; but if he will endeavour to disprove my facts, instead of showing the white feather, he will do much to further the interests of the P.A.T.A.

I am quite prepared to prove my assertions to the hilt, showing that, to a certain extent, the P.A.T.A. is a failure; therefore, it is useless Mr. Jones attempting to shield himself behind that stale excuse of most amateur letter-writers—"not replying to anonymous correspondents." As a challenge to Mr. Jones, and to test the much-vaunted power of the P.A.T.A., I am quite prepared to give Mr. Jones my full name and address, and if, at the end of six months, he succeeds in cutting off my supplies, I will forfeit 5*l.* to the Association.

Yours truly,

RED DRAGON. (200/36.)

The 2*l.* Booking-fee.

SIR,—There is considerable dissatisfaction among chemists who have contracts with Sutton and Foster because these companies charge a fee of 2*l.* on each parcel. I readily understand why the wholesale houses will not take up the matter, for if the booking-fee were abolished it would mean a great increase in the number of small parcels. One can also understand the P.A.T.A. giving way to these arguments, coming, as they do, from a quarter which gives the Association great pecuniary support. Although there are disadvantages attending the contract system, the advantages are far greater, not only to the retailer, but to the wholesaler as well as the public, and it is with this conviction that I make the

following suggestion:—That all chemists having a contract with either of these companies order a small parcel of goods from a London house, with instructions not to pay the booking-fee. Should the companies refuse to take in and deliver these parcels, the chemist should sue them for breach of contract. It would be well for a number of your readers to express their views and to arrange a date when the test could be made simultaneously.

Yours &c.,

Newark, August 25.

LAWRENCE PRIESTLEY.

MISCELLANEOUS INQUIRIES.

We reply to our subscribers and their employes only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.

196/3. W. A. P.—**Removing Aniline Marking-ink Stains.**—See *C. & D.*, August 22, 1896, page 329.

196/14. X. Y. Z.—**Shampoo-powder.**—Refer to *C. & D.*, November 28, 1896, page 807.

194/70. C. T. J.—**Shaving-paste:**—

Sapo. moll. alb.	5vj.
Cetacei	5vj.
Ol. amygd.	5j.
Aque	5iss.
Ol. rosmarini... ..	5iss.

Melt together the soap, spermaceti, and oil; then incorporate gradually the water, adding the perfume last of all.

196/10. Salter.—**Black Hat Lacquer:**—

Seed lac	5ij.
Methylated spirit	Oj.
Nigrosin (spirit soluble)	5ss.

Dissolve the seed lac in the spirit; strain, add the nigrosin, and shake.

196/19. *Jasmin.*—**Cucumber-pomade** is made by digesting thinly-sliced cucumbers in lard until sufficiently saturated. It is not usual to add any scent, but, if you wish, you may add to each pound—

Ol. origani	ij.
Ol. geranii.	ij.
Ol. gaultheriæ	ij.

194/47. *Reklaw.*—(1) The sample of **Egg-colour** used by confectioners and bakers appears to be a solution of "Fast Yellow R" in a mixture of spirit. vini rect. 1, aqua 3, of a strength about 2 dr. to the pint. (2) Usually half-strength.

195/2. J. H. A.—(1) Inquiring. (2) **Orange Wine.**—We do not remember your query, but you will find a formula in *C. & D.*, January 16, 1897, page 106. (3) **Opaque Hypophosphite Syrup.**—*C. & D. DIARY*, 1897, page 484.

195/10.—A. B. J.—The only thing we can suggest for getting rid of moths from polished furniture without damaging the furniture is a good dosing with formalin-vapour, produced by an "Alformant" lamp. See Summer number and advertisements.

192/15. *Rev.*—**Marrow - pomade** resembling your sample:—

Cere flav.	5iss.
Adipis	5ij.
Ol. olivæ	5ij.
Ol. limonis	5ij.
Ol. citronell.	ij.

Melt the wax, lard, and oil together in a water-bath; remove from source of heat, and when cooling stir in the perfumes.

199/38. *Country Chemist* asks what substance is used by working-jewellers to coat silver, gold, &c., to protect from fire whilst soldering. As he cannot send us a sample, perhaps some of our readers may help.

199/35. *Inquirer*.—Linen Glaze.—Your sample is a mixture of 4 parts of French chalk with 1 part of powdered soap.

199/15. *G. F. R.*—It is only free acid that retards cement setting. With one or more of the ochres you should be able to match the colour of Prudham stone.

199/1. *Exon*.—We are inquiring.

20/8/97. *Birdlime*.—(1) Sticky Fly-papers not made with birdlime. See *C. & D. DIARY*, 1896, page 229. We may, however, remind you that commercial "birdlime" is practically boiled linseed oil. (2) The Injection for Gonorrhœa is as follows:—

Plumb. acet. ...	...	...	gr. xx.
Tinct. bellad. ...	...	...	ʒj.
Aq. camph. ad ...	...	...	ʒvj.

M.

198/57. *A. H.*—Boric Acid as a Preservative.—Sensational articles of the "Bitty" class should not be taken too seriously. Some few years ago the medical experts appointed by the L.G.B. failed to find evidence that boric acid added to food was injurious. See also *C. & D.*, January 9, 1897, page 52, for opinions collected by the *Lancet*, and the recent experiments of Cripps, which proved that boric acid does not retard artificial digestion.

197/37. *Fustus*.—(1) The New B.P. will not be used at the December examination, and we may say for your benefit and that of all others who are preparing for the January or April examinations, that you should not worry yourselves about the new B.P. Go on studying the old one, and when the new one comes out, if you keep your eyes on the *C. & D.* pages, you will learn enough about the changes that have been effected in the B.P. (2) The ten-guinea Minor fee will not come into force until September, 1900, if the Privy Council sanctions it.

197/64. *I. D. H.*—Observe, in the first place, that the word "tabloid" is used commercially by Messrs. Burroughs, Wellcome & Co. only, who have registered it as a trademark. We see no reason why a combination of drugs in the compressed form should not be patented, but as various effervescent compounds similar to what you suggest are already made in that way it would not be difficult to invalidate the patent by legal process, unless the combination was distinctly novel. A patent exists for the manufacture of the acid portion of seltzogene charges in fused tablets, and charges so made are regularly advertised in the *C. & D.* If you will read the article on "Patents" in our *DIARY*, page 212, you will see exactly where you are. You may at least obtain provisional protection.

200/26. *Flores*.—Classification of Plants.—For beginners one of the best plans is to use Wishart's "Schedules for Plant Description," published by Livingstone, Edinburgh, at 6Z. There is no royal road to classification, except beginning at the foot of the hill.

197/47. *T. H. D.*—Syr. Tamarind. :—

Tamarind. pulp ...	...	...	10 oz.
Hot water ...	...	...	1 pint

Digest for an hour on a water-bath, strain, and add—

Sugar	12½ oz.
-----------	-----	-----	---------

Dissolve, again strain, and evaporate to a weight of 20 oz.

198/41. *Donovan*.—What you want is an emulsifier, and that you can get from Messrs. Bennett, Son & Shears (Limited) or any similar firm.

200/13. *W. J. H.*—The Hair-wash has been made from a formula similar to this:—

Crème d'amandes ...	...	...	ʒj.
Ol. amygd. dule ...	...	...	ʒss.
Glycerini ...	...	...	ʒss.
Aq. ad ...	...	...	Oj.

Rub the crème d'amandes in a large mortar till pliable, add the almond oil, a few drops at a time, with constant trituration, then the glycerine, and lastly the water and some perfume.

If carefully made a perfect emulsion results.

199/65. *C. S. R.*—The bulk of your Powder for Improving Plumage of Canaries is powdered capsicum annuum, for some particulars of which see *C. & D.*, September 12, 1896, page 441; October 31, 1896, page 667; and November 7, 1896, page 699.

196/50. *J. M. C.*—Some sachet-powders contain salt as a diluent, which in your case may have become damp, owing to absorption of moisture by the magnesium chloride which is present in some salt.

24/8/97. *Dil.*—(1) Spt. Rosæ is a solution of otto of roses in spirit (ʒj. of otto to a pint of spirit is a usual strength). (2) Both tinct. and lin. iodi are used by dentists for applying to inflamed gums, frequently mixed with an equal part of tinct. aconite. (3) Rectified spirit or absolute alcohol may be used for diluting ol. limonis, &c. If S.V.R. is used filtration is necessary. (4) In *C. & D. DIARY*, 1896, we gave an article on the photographic trade; notes on photography also appear at intervals in the *C. & D.*

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

200/3. Makers of oval cloth-covered enema-boxes.

199/1. What is the composition of "Flavine" used as a yellow dye?

199/86. Where can ext. malt in fine powder be obtained?

196/70. The cement called "Petrefine": where obtainable?

Drug Verses.

APPENDED are some of the best verses received in our last postcard competition, which called for a four-line rhymed description of some drug or chemical product:—

The Egg.

The yolk of the egg's known as *Ovi vitellus*,
Which mixed with French brandy the chemists oft sell us;
The white of the egg we call *Ovi albumen*,
A good pepsin test when used with acumen.

J. VERNON MITCHELL, 33 Cavendish Buildings, W.

Hamamelis.

They say that the days of witches are past.
Great mistake; one exists whose good name will last—
Parke Davis her haunt, Witch Hazel her name—
She's kind to the wounded, the sick, and the lame.

F. W. VASEY, Reading.

Inf. Koussou.

If you're making infusion of koussou,
You will find it quite easy to do so;
But you must not it strain, though the patients complain,
And wish the prescriber in Tussau(d's).

C. BELL, Nunhead.

KClO₃.

You can use it for a gargle, you can use it for the gums,
It's a remedy for vesical catarrh;
Heat your acid and your oxide until all the chlorine comes
Through your lime and potass. carb.—and there you are!
WM. CHALMERS, 50 Hawthorne Road, Bootle, Liverpool.

Lactuca.

When at supper-time they set us just a leaf or two of lettuce,
It delights us to re-state the point of pharmaceutical lore—
That this green herb so delicious has got qualities propitious
To as sweet a sleep as mortals know on earth's care-cankered
shore.

C. Dundee.

Lanoline.

Taken from the wool of sheep
By a "pharmaceutic" process.
Lanoline, all chemists keep.
Skin emollient, ointment basis.

AMYAS LEIGH, Toines.

The TRADE PRICES BELOW are SUBJECT to USUAL DISCOUNTS.

1d.



**Premier
Vinolia
Soap.**

Keeps the Complexion
Beautiful and Clear.

9/2 per dozen Boxes of 3 Tablets.

6d.



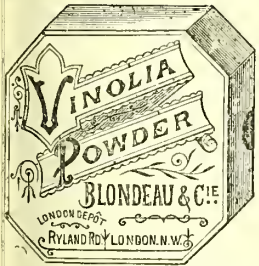
**Vinolia
Shaving
Stick.**

Causes no Blotches.

PREMIER.

3/6 per dozen.

1/-



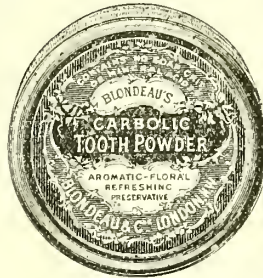
**Vinolia
Powder.**

For Redness, Rough-
ness, Toilet, &c.

In White, Pink, and Cream Tints.

9/2 per dozen.

6d.

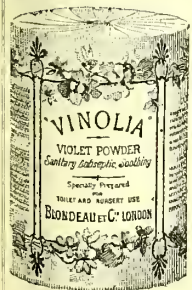


**Blondeau
Carbolic
Tooth
Powder.**

Soothing to Tender
Gums and Sensitive
Teeth.

In Artistic Round Metal Box, 3/3 per dozen.

6d.



**Vinolia
Violet
Powder.**

Specially prepared for
Toilet and Nursery Use.

3/4 per dozen 1/4-lb. Tins.

1/-

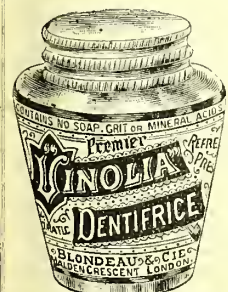


**Vinolia
Liquid
Dentifrice.**

Keeps the Gums Healthy,
Strong,
and of a Good Colour.

8/- per dozen.

6d.



**Premier
Vinolia
Dentifrice.**

Keeps the Teeth Ivory
White.

In Glass Bottles and Round Metal Boxes.

3/3 per dozen.

6d.



**Blondeau
Perfumes.**

Concentrated—Delicate—
Pure.

- | | | |
|---------------|--------------|--------------|
| Wallflower. | Lily of the | Stephanotis. |
| Milledear. | Valley. | Frangipanni. |
| Musk Rose. | Amaryllis. | Patchouli. |
| Honeysuckle. | Hyacinth. | Opoanax. |
| Jasmin. | White Lilac. | Ylang Ylang. |
| Wood Violet. | White Helio- | Violette de |
| Ess. Bouquet. | trope. | Parma. |
| Marchal N'el. | Musk. | Chypre. |
| Jockey Club. | Rondeletia. | Mignonette. |
| White Rose. | Ambergis. | Violet. |
| New Mown Hay. | Narcissus. | Clematis. |

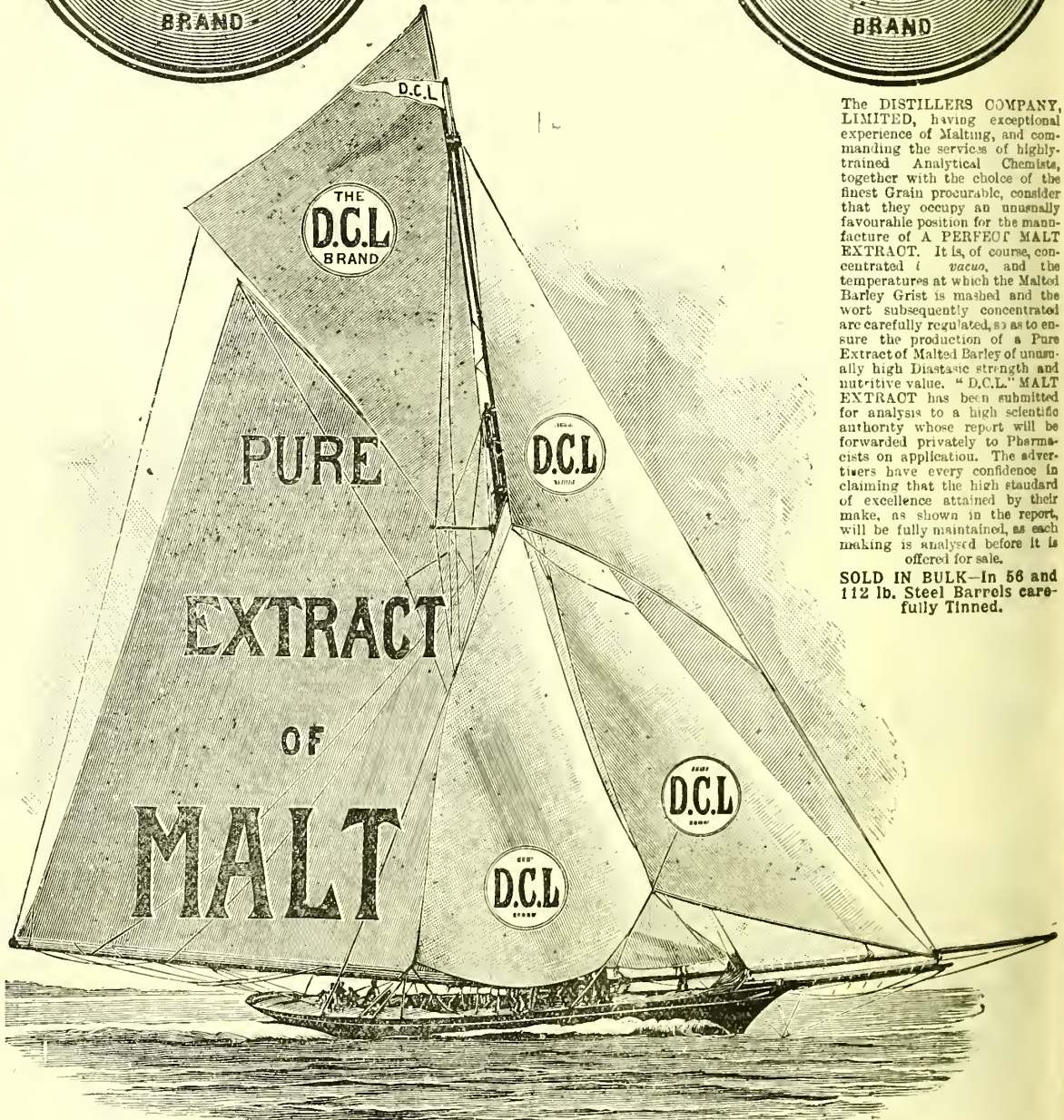
3/6 per dozen.

The above Trade Prices are Subject to usual Discounts.

BLONDEAU ET CIE., Malden Crescent, LONDON, N.W.



A PERFECT
MALT
EXTRACT



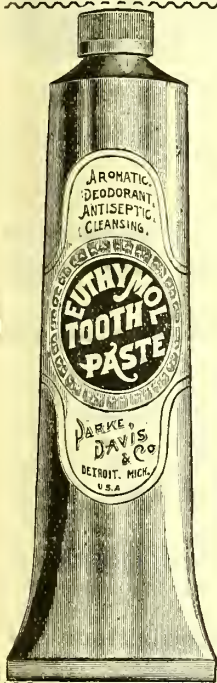
The DISTILLERS COMPANY, LIMITED, having exceptional experience of Making, and commanding the services of highly-trained Analytical Chemists, together with the choice of the finest Grain procurable, consider that they occupy an unusually favourable position for the manufacture of A PERFECT MALT EXTRACT. It is, of course, concentrated *in vacuo*, and the temperatures at which the Malted Barley Grist is mashed and the wort subsequently concentrated are carefully regulated, so as to ensure the production of a Pure Extract of Malted Barley of unusually high Diastase strength and nutritive value. "D.C.L." MALT EXTRACT has been submitted for analysis to a high scientific authority whose report will be forwarded privately to Pharmacists on application. The advertisers have every confidence in claiming that the high standard of excellence attained by their make, as shown in the report, will be fully maintained, as each making is analysed before it is offered for sale.

SOLD IN BULK—In 56 and 112 lb. Steel Barrels carefully Tinned.

SAILING AHEAD OF ALL COMPETITORS.

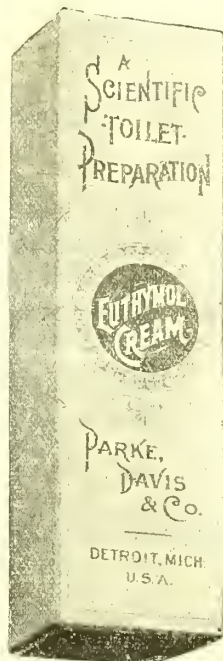
Sole Manufacturers—THE DISTILLERS CO., LTD., EDINBURGH.

Euthymol Toilet Requisites.



EUTHYMOL TOOTH PASTE, An Ideal Dentifrice.

The constituents entering into this preparation have been selected with the utmost care, incorporating the formula of EUTHYMOL—the new antiseptic so highly commended by prominent Physicians and the Medical Press—and the result is the production of a perfect dentifrice. It cleanses and whitens the teeth, hardens the gums, preserves a healthy colour, perfumes the breath, and leaves in the mouth a delightful sensation of freshness and cleanliness. It contains no objectionable substance which can possibly destroy or injure the enamel, and does not discolour the teeth, nor cause the gums to shrink.



EUTHYMOL CREAM, A Dainty, Creamy Emollient.

Combining the valuable antiseptic constituents of EUTHYMOL with an ointment base which is perfectly absorbed by the skin, EUTHYMOL CREAM is an ideal preparation for toilet use. It is a perfect emollient, spreading smoothly, and is wholly absorbed, thus relaxing the tissues and rendering the skin delightfully soft and smooth. The antiseptics contained are absolutely non-poisonous and harmless, exerting a cooling and soothing influence on inflamed and irritated surfaces. In the treatment of Tan and Sunburn it forms an ideal soothing, stimulating, and antiseptic dressing.

In large Collapsible Tubes, 9/6 per dozen.

Samples on application.

PARKE, DAVIS & CO., Manufacturing Chemists, 21 North Audley St., Grosvenor Square, LONDON, W.

DAVY, HILL & SON, YATES & HICKS

(ESTABLISHED A.D. 1755),

Wholesale and Export Druggists and Manufacturing Chemists,

101 & 103 SOUTHWARK STREET, LONDON.

SELECTED DRUGS, PURE CHEMICALS, & PHARMACEUTICAL PREPARATIONS.

PRICE LIST ON APPLICATION.

Telegraphic Addresses . . . "ASHILL LONDON" and "ICKDAVY LONDON."

BEESWAX

GUARANTEED PURE, YELLOW AND WHITE.

In Blocks, Cakes, Tablets, or any other form, at lowest possible prices.

FREE TO ANY PLACE IN THE UNITED KINGDOM.

AND BEST PURE BLEACHED CARNAUBA WAX.

LÜNEBURGER WACHSBLEICHE (Wax Bleaching Works),

LÜNEBURG, near HAMBURG, GERMANY.

BEECHAM'S PILLS

IN £5 LOTS.

Complying with the voice of the [majority of the Trade, the Proprietor of BEECHAM'S PILLS has reduced the minimum limit of orders to Five Pound Lots, and hopes this may be generally acceptable

The new arrangement came into force on January 1st and the prices are now as follows:—

BEECHAM'S PILLS.— 9½d. size (36 pills)	7/- per dozen, net.
13½d. ,, (56 pills)	9/6 ,, "
2/9 ,, (168 pills)	25/- ,, "

No orders executed below £5 value. These prices are the lowest, no matter what quantity is ordered.

BEECHAM'S TOOTH PASTE (in collapsible tubes).—1/- size ... per dozen, net, 7/6
Packages free. Carriage paid.

Cash must in all cases accompany orders, which, with requisitions for advertising matter, must be addressed—

THOMAS BEECHAM, ST. HELENS, LANCASHIRE.

A GOOD PROFIT!

ALL RETAILERS SHOULD STOCK

GOLDEN NUGGET OINTMENT

For PILES.

1/1½ sizes, Wholesale Price 9/6 per doz.

WILTON & CO., LTD.
17 Withy Grove, MANCHESTER.

SEE

Important Announcements on page 87 (bottom folio) of this Issue.

THE PUBLISHER,

42 Cannon Street, E.C.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH

(ESTABLISHED 1877),

12 PALL MALL EAST,
LONDON, S.W.

CALF AND HUMAN.



Telegraphic Address—

"DARQUE LONDON."

Office Hours—

10 till 4. Saturday, 10 till 2.

PURE & RELIABLE.

SINGLE VACCINATION (S.V.) TUBES.

Each Tube, containing sufficient CALF VACCINE for one case only, RECOMMENDED, as a necessary antiseptic precaution, by the ROYAL COMMISSION ON VACCINATION. (See Final Report, 1897, page 116.)

Half-tube, or two S.V. Tubes, 1/-. Postage extra.

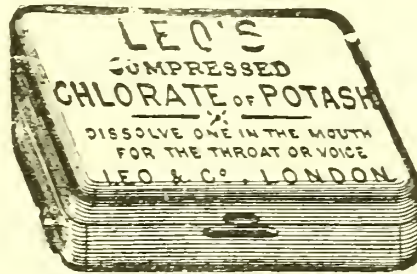
P.O.O. (including postage, and crossed London and Westminster Bank), with orders payable to EDWARD DARKE, Sec.

LEO'S COMPRESSED DRUGS

Ammon. Brom.
 Ammon. Chlor.
 Antifebrin.
 Antipyrin
 Camph. Subnit.
 Chloralamid
 Cocac. Powd.
 Cocac. & Opium
 Capsine, B.P.
 Phenacetin
 Potass. Bicarb.
 Potass. Brom.

Maintain their high reputation against all comers for general excellence of quality and finish.

When
 ordering
 specify
 LEO'S



They are
 supplied by
 all the
 Wholesale
 Houses.

Potass. Iodide
 Quinine
 Salol
 Salicin
 Soda Bicarb.
 Soda Mint
 Soda Salicylate
 Sulphonal
 Sulphur Compound
 Urethane
 Voice (Potass. Chlor.,
 Borax and Cocaine)

COMPRESSED CHLORATE of POTASH.
CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

LEO & CO., 16 CREECHURCH LANE, LONDON, E.C.

BARTLETT HOOPER & CO.

Wish to call the especial attention of the trade to the following lines.

CAPSULES SPECIALLY PREPARED FOR EXPORT TRADE.

HOOPER'S SANDAL WOOD OIL CAPSULES.

These Capsules are guaranteed to contain absolutely the finest English-drawn Sandal Wood Oil possible to procure, and a guarantee to this effect accompanies every invoice. They are well made, and put up in attractive circular metal boxes, 24 Capsules in each box. Price 13/- doz. boxes.

THE UNIVERSAL CAPSULE.

A very saleable form. Put up in oval card boxes, 36 Capsules in each box, and with a most attractive label (our registered design). Price 9/- doz. boxes.

HOOPER'S COPAIBA CAPSULES.

These Capsules are filled with the finest Maranham Copaiba, and are put up in oval card boxes, splendidly labelled, 36 Capsules in each box. Price 6/- doz.

Terms—One month or journey 5 per cent.

Carriage paid on orders of 10/- and upwards.

Also supply our Capsules in bulk at per 1,000, or in boxes, bearing our customers' name and address.

Our Capsules are undoubtedly the Best on the Market.

A TRIAL ORDER RESPECTFULLY SOLICITED.

BARTLETT HOOPER & CO.

Manufacturers of Capsules, Cachous, Compressed Pellets, Fumigating Pastilles, Glycerine Suppositories, &c.

PRICE LIST FREE ON APPLICATION.

34 UPPER THAMES STREET, LONDON, E.C.

NEW ZEALAND.

KEMPTHORNE, PROSSER & CO.,
NEW ZEALAND DRUG COMPANY, LIMITED
WHOLESALE DRUGGISTS

MANUFACTURING CHEMISTS, AND COMMISSION MERCHANTS
Head Office and Factory, DUNEDIN.

BRANCH HOUSES:

High Street, CHRISTCHURCH.

Corner of Victoria & Willeston Streets, WELLINGTON.

Wyndham Street, AUCKLAND.

Patent and Proprietary Medicines Agency.



NEW ZEALAND

LONDON AGENTS—

Messrs. GRIMWADE, RIDLEY & CO., 82 Bishopsgate Street

NEW SOUTH WALES.

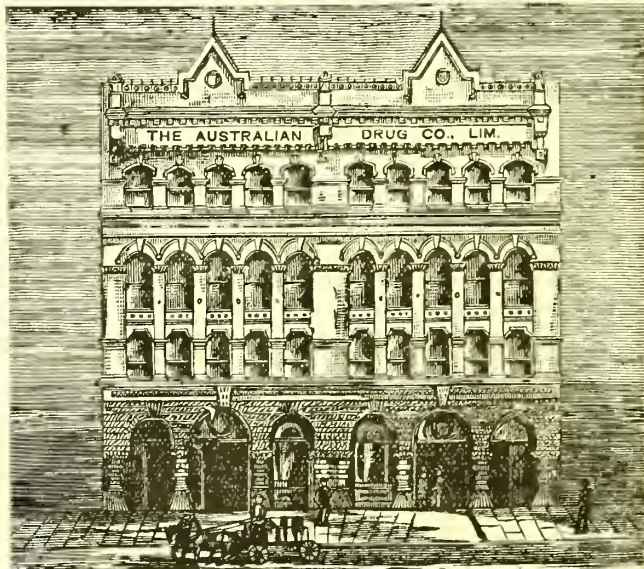
THE AUSTRALIAN DRUG CO., LIM
LATE E. PROSSER & CO.,

IMPORTERS OF PATENT MEDICINES, DRUGGISTS'

SUNDRIES, DYE GOODS,

SURGICAL INSTRUMENTS, PERFUMERY,

FANCY SOAPS, SPONGES.



EXPORTERS AND SOLE AGENTS OF
 "NATIVE BEAR" BRAND EUCALYPTUS OIL.
 IMPORTERS OF BRUSHWARE, CORDIAL MAKERS,
 MACHINERY, CORKS, BOTTLES, LABELS,
 PHOTOGRAPHIC CHEMICALS AND MATERIALS.

Wholesale Druggists, 19 & 21 O'Connell Street, SYDNEY

Agencies for Patent Medicines and other Goods Solicited. Travellers cover New South Wales and Queensland.

LONDON AGENTS: H. & A. HAWLEY, 38 LIME STREET, E.C.

B. G. LENNON & CO., LTD

Wholesale Druggists, Manufacturing Chemists, and Druggists' Sundriesmen,
CAPE TOWN, PORT ELIZABETH, AND EAST LONDON.

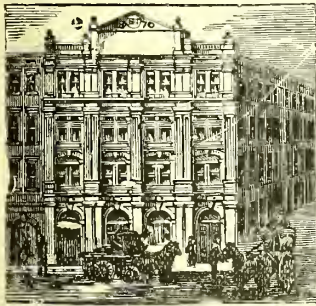
With Branches in all Important Centres in South Africa.

AGENTS FOR THE NATAL DRUG CO., DURBAN, NATAL.

London Office: 75 LEADENHALL STREET, E.C.

AGENCIES UNDERTAKEN ON ADVANTAGEOUS TERMS.

TAYLOR & COLLEDGE,



CONTRACTORS TO THE QUEENSLAND GOVERNMENT,
WHOLESALE DRUGGISTS & IMPORTERS.
Manufacturing Chemists, BRISBANE, QUEENSLAND.

Importers of Drugs, Chemicals and Druggists' Sundries, Patent Medicines and Perfumery, Surgical and Photographic Sundries, Confectioners' and Dyers' Goods Dental Sundries, Soda-water Machinery, Bottling Racks, Egg-shape and Lamont's Soda-water Bottles, and all Cordial Makers' Requirements.

All parts of Queensland visited at regular intervals by experienced Travellers. Agencies solicited from firms who are prepared to actively introduce their Manufactures into the Colony.

Agents—SHARLAND & CO., 43 LONDON WALL, E.C.

GRANDE PHARMACIE FINCK, GENEVA, SWITZERLAND,

The Largest Stock in Switzerland of all the latest English and American Specialities.

Special Shop for all Surgical Instruments and Appliances.

NEW SALON FOR PERFUMERY AND TOILET ARTICLES.

GENERAL WHOLESALE AGENTS

For the whole of Switzerland for

LISTERINE,

Southall's Sanitary Towels & Ureometers,
Chaumel's (of Paris) Ovules & Suppositories,
Gude's (of Leipzig) Peptonised Iron,
&c., &c.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

S. V. METH.

JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS
SAMPLES FREE.

NEURACETIN.

Action: Antipyretic.
 Analgesic.
 Anti-neuralgic.
 Anodyne.

Relieves pain and reduces the temperature, at the same time free from unpleasant after-effects.

Supplied in powdered form in 1 oz. boxes at 1/6; also in 5 grain pellets, in bottles of 1 oz., at 2/-. Dose: 5 to 10 Grains.

WYLEYS, LIMITED,
 Manufacturing Chemists, COVENTRY.

MAGNESIA

CARBONATE, CALCINED, AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.
 London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 17 Great Tower St., London, E.C.

BARRON, HARVEYS & CO.

WHOLESALE AND EXPORT DRUGGISTS,³/₂

GILTSPUR STREET, LONDON, E.C.

Beg to inform their friends and the Trade generally that, being Sole Proprietors of the Business of

BARRON, SQUIRE & CO., BUSH LANE.

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

SPECIMENS OF THESE PREPARATIONS have REMAINED in the MUSEUM of KEW GARDENS during 28 YEARS
 WITHOUT DETERIORATION.

**“SWEET” PEARL COATED PILLS,
 TINCTURES, ETC., IN BOND.**

DAVIES, GIBBINS & CO.

(Upwards of 20 years with John Richardson & Co., Leicester, Limited),

WHOLESALE MANUFACTURING CHEMISTS
Bridge Street, DERBY.

MANUFACTURERS OF

PETROLEUM EMULSION

WITH HYPOPHOSPHITES OF LIME AND SODA.

Freely taken by the Most Fastidious.

(In bottles to retail at 2/6 & 3/6, 16/- & 26/- per doz. In Bulk, 1/9 per lb.)

PURE UNOXIDISED PHOSPHORUS PILLS

FLEXIBLE GELATINE CAPSULES

(The Finest Obtainable).

COMPRESSED TABLETS

(Of Pure Drugs only).

CONCENTRATED INFUSIONS AND WATERS

FLUID EXTRACTS

(Of the United States Pharmacopœia).

LEVIGATED OINTMENTS

(Prepared by Steam Power).

SPIRIT OF NITROUS ETHER

(Prepared by distillation, and guaranteed to answer the official tests).

B.P. & NON-ALCOHOLIC TINCTURES

LIQUOR SANTAL. FLAV. CO.

(Miscible).

LIQUOR COPAIBÆ CO.

(Miscible).

GLYCERINE SUPPOSITORIES

SPECIAL QUOTATIONS TO LARGE BUYERS.

Prices Current of Pharmaceutical Preparations, &c., on Application.

Telegraphic Address—"PILLS DERBY."

National Telephone No. 331.

CRESCENT



BRAND.

BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	...	--	...	--	..	97'20
Mono Carbonate of Soda	...	..	...	--	--	1'90
Sulphate of Soda	--	--	...	..	--	trace
Chloride of Sodium	--	..	--	--	..	'035
Moisture	...	...	--	--	...	'82
Insoluble	...	...	..	--	..	nil

PURE ALKALI,

GUARANTEED 58 DEGREES.

EQUAL TO 98 PER CENT. OF CARBONATE OF SODA.

Most economical form of Soda for the use of Printers,
Bleachers, Dyers; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of Washing Soda.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda

SODA CRYSTALS

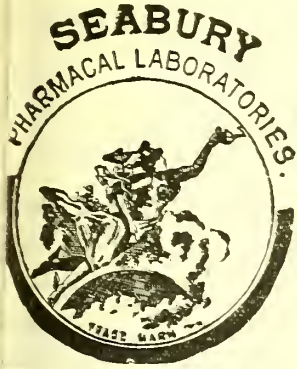
OF THE FINEST QUALITY.

CAUSTIC SODA. BLEACHING POWDER.

BRUNNER, MOND & CO., LIM.

Manufacturers of Soda by the Ammonia Process,

NORTHWICH, CHESHIRE.



48 Highest Awards over all Competitors throughout the World.

SEABURY & JOHNSON,

ORIGINAL MANUFACTURERS OF
PHARMACOPŒIAL AND SURGICAL PLASTERS
IN RUBBER COMBINATION,
ANTISEPTIC DRESSINGS and ABSORBENTS, &c.

NEW YORK and LONDON.

MANUFACTURERS OF

PLASTERS

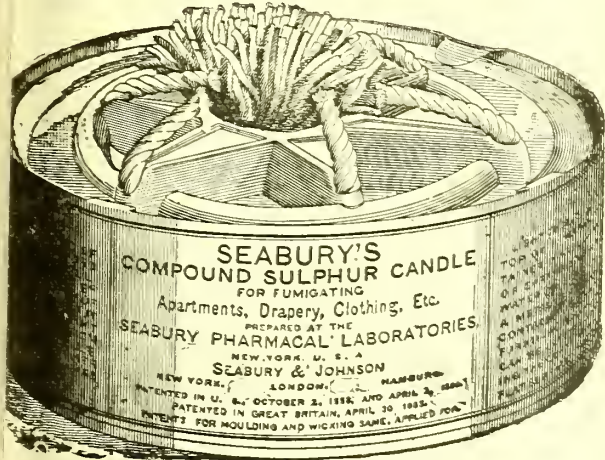
OF EVERY DESCRIPTION.

Adhesive, Breast, Bunion, Corn, Court, Dental, Dermatological, Homœopathic, Isinglass, Kid, Medicinal, Mustard, Pharmacopœial and Surgical, &c. *In Rubber Combination, plain or porous, and spread on any material required.*

Manufacturers of **ABSORBENT BANDAGES, COTTONS, GAUZES, LINT, WOOLS** of every description.

Antiseptic, Plain and Medicated, Benzoated, Borated, Carbolated, Cocaine, Corrosive Sublimate, Eucalyptol, Hydronaphthol, Iodized, Iodoform, Morphia, Naphthaline, Salicylated, Styptic, Tannin, Thymol, &c

DISINFECTION BY FUMIGATION.



Large Size, retailing at 1s.

Seabury's Sulphur Candles

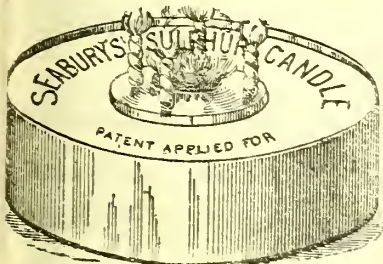
Will destroy disease germs after infectious diseases, in vacated apartments or hospital wards, also in bedding, clothing, and drapery.

Will destroy noxious vapours from sewers, cesspools, &c.

Will destroy insect pests and other vermin.

These candles afford a safe means of burning sulphur indoors, on board ship, &c., and are used and approved by Boards of Health and Sanitary Authorities in various parts of Great Britain and America, and were used to fumigate the Royal Courts of Justice, the Committee Rooms of the House of Commons, and the War Office after the Influenza epidemic

One large candle will burn for two hours, and thoroughly disinfect a room of ordinary size.



Small Size, retailing at 6d.

This popular size of the SEABURY SULPHUR CANDLE is in a permeable container which absorbs the water in which it stands, and thus, bringing the water into actual contact with the burning sulphur, the candle really becomes a

NASCENT SULPHUROUS ACID CANDLE.

Medical men are everywhere ordering SEABURY'S SULPHUR CANDLES (which burn readily and safely) as the most reliable means of disinfection extant after

Diphtheria, Typhoid Fever, Scarlet Fever, and other Infectious Diseases, Small Pox,

SEABURY & JOHNSON.

LONDON OFFICES & WAREHOUSE, 32 & 33 SNOW HILL, LONDON, E.C.

The following is extracted from a "Chemist and Druggist" leading article which appeared May 23rd, 1896, entitled:—

"ON IMITATING A SPECIALITY."

"The way of the imitator is hard; he can never be sure when he gets there Chlorodyne was invented by Dr. Collis Browne in 1848, and after an eight years' trial of it in India Dr. Browne came home in 1856, and by Mr J. T. Davenport's assistance the compound was soon familiar to the medical profession and the public in England, and ere long it became known the world over. Straightway imitations of it commenced.

* * * * *

But Mr. Davenport's policy from the first has been to keep silence amidst the multitude of guesses made respecting the composition of this speciality, and that this was the best policy will be evident to anyone who glances at the table of nineteen formulae which we subjoin.

* * * * *

It is but fair to add on behalf of some of the formulators that they have been careful to say that their products are not attempts at imitation, but something like it, or a substitute, and that it is still the rule in British pharmacy to give Dr Collis Browne's article when 'Chlorodyne' is ordered in prescriptions—a very common-sense rule in view of diversity of opinion amongst authorities."

DR. J. COLLIS BROWNE'S CHLORODYNE.

This preparation does not contain any poison which is included in Part I, Schedule A, of the Poisons Act; therefore the signature of the purchaser is NOT required.

Chemists who study their own reputations should never be thoughtless enough to sell an imitation Chlorodyne. Any first-class, old-established Chemist will tell you that Dr. Browne's preparation is the only genuine Chlorodyne.

(1)

Sole Manufacturer—J. T. DAVENPORT, 33 Great Russell Street, London, W.C.

A FEW OF

T. HOWARD LLOYD & Co.'s

SPECIALITIES FOR THE TRADE.

THE LEICESTER

Soluble Pearl-coated Pills and Granules.

The original LEIOESTER make.
Quality the very best.
Prices equal to any in the market.
Sales always increasing.
Private Formulæ prepared.

"BICONICAL" HORSE BALLS.

Gelatine Capsuled with name on for orders of one gross.
The most convenient form for administration.

"COMPRESSED FLOWERS." The new Cachou.

"A bright idea."
Heliotrope, Jasmine, Lily of the Valley, Lavender, Wood Violet, Opoponax, Rose, &c., &c.
In 1-lb. bottles, elegantly labelled, or put up in slide boxes or screw-top bottles.
Samples and price on application.

THE LATEST NOVELTY IN SULPHUR TABLETS: Yellow and Pink Sulphur Trochettes.

"A decided hit."
The colouring matter used is quite harmless.
Write for free samples.

MAGNES. CIT.

We manufacture four qualities of this—viz., A, B, C, and D.
In bulk, or in 1-lb., $\frac{1}{2}$ -lb., and $\frac{1}{4}$ -lb. round bottles, corked.
Also in blue flats, lettered, patent stoppered or wood-top corks.
Also flavoured and tinted—Raspberry, Lemon, or Lime Fruit.

"MALTO PETROLEO."

This preparation consists of the purest Extract of Malt, combined with 33 per cent. of purified Petroleum Oil.
Purified Petroleum is a most agreeable and effective substitute for Cod Liver Oil, largely prescribed by the most eminent physicians, and its chief advantage is that it is almost without taste or smell, is readily assimilated and taken with avidity by Ladies and Children.
Put up in 1-lb. bottles.
Samples and price on application.

PEARL-COATED DOG PILLS in boxes.

One of the most saleable lines introduced.
In boxes containing 1 doz. 3/4, or 6/4 packets.
Particulars on application.

BIRD and POULTRY PILLS in boxes.

A similar line to our Dog Pills.
Sample and prices on application.

THE "COLLOID" CAPSULES.

The best in the market.
100 formulæ on application.

COMPRESSED TABLETS of pure drugs.

For internal and Hypodermic use.
In bulk or put up in bottles for retail sale, and with or without our name.
List on application.

BRONCHOLS.

The most effective Cough Lozenge yet introduced.
Especially useful in obstinate and long-standing coughs.
The Label has been passed by the authorities of Somerset House as Free from Stamp Duty.
In tins to retail at 6d. and 1s. Samples free.

EFFERVESCING FRUIT SALINE or Salt of Health.

In bulk or put up in 6-oz. or 8-oz. Patent stoppered bottles, with and without cartoon and wrapper. Also in 4 oz. tins.
Fruit saline, flavoured and tinted—Raspberry, Lemon, or Lime Fruit in white glass bottles.

THE NEW FRUIT SALINE GRAINS.

A very decided improvement upon the ordinary Fruit Saline, being in minute granules, effervescing rapidly, and keeping much better than powder.
In 6-oz. white patent stoppered flats.

THE NEW SULPHUR SALINE GRAINS.

A splendid combination of the new Fruit Saline grains with pure precipitated Sulphur. One of the most taking preparations for this season of the year.
In 6-oz. white patent stoppered flats.
Buyer's name on 3 doz. and upwards.

SAMPLES AND FULL PRICES ON APPLICATION. SPECIAL TERMS TO SHIPPERS.

T. HOWARD LLOYD & CO., WHOLESALE AND EXPORT DRUGGISTS AND MANUFACTURING CHEMISTS,

86 High Street and Town Hall Lane, LEICESTER.

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth ($1/8$) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ($1/64$) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),

W. RENAUD, Managing Director.

33 Farringdon Road, London.



A POINT

TO THOSE INTERESTED IN

INDIAN BUSINESS.

BEYNON & CO^Y

Pharmaceutical Chemists and
East India Agents,

Head Office: BOMBAY, INDIA.

1. Are thoroughly well placed, have exceptional facilities, with a thorough knowledge of the Indian Trade, for opening up or extending the sale of Pharmaceutical and Medical Specialities.

2. Invite Correspondence with English Houses anxious to keep abreast of the times and to take advantage of the valuable field in India.

3. Our travellers cover India, Burma, and Ceylon.

ALFRED WHITE & SONS.

MANUFACTURING CHEMISTS.

ACIDS, ÆETHERS, AND OTHER CHEMICALS CAREFULLY TESTED
AND PACKED FOR EXPORT.

BISMUTH SALTS
Special Prices for
Contracts.

MANUFACTURERS OF Acids, Æthers, Sp. Æther Nit., Sp. Ammon. Arom., Liq. Ammonia, Soldering Fluids, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth Salts, Strontia, Zinc, &c.

Offices and Warehouse—CASTLE STREET, SAFFRON HILL, LONDON, E.C.

Works—WEST DRAYTON, MIDDLESEX.

Telegraphic Address—"ETHER METHYLATED LONDON."

ESTABLISHED 1775.

"THE LEADING HOUSE"

For "Private Brands" of milled and superfatted Soaps, toilet as well as medicinal. We put up for the trade as a specialty all kinds of Dentifrices, Saponaceous Powder, Paste in Collapsible Tubes, &c., &c.

81 & 85 DANBURY STREET, ISLINGTON, LONDON, N.

H. BRONNLEY & CO., LIM., LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

Best and Safest Dentifrice.

OSCAR SUTTON & CO.
PRESTON.

PREVENTS DECAY.



EWEN'S LARD IN TINS.

Ewen's Lard is now supplied in *free* tins at the following prices:—

PLAIN LARD.		BENZOATED LARD.	
	s. d.		s. d.
1 lb. Tins ...	0 10 each.	1 lb. Tins ...	0 11 each.
2 " " ...	1 8 "	2 " " ...	1 10 "
4 " " ...	3 2 "	4 " " ...	3 6 "
7 " " ...	5 6 "	7 " " ...	6 1 "
14 " " ...	11 0 "	14 " " ...	12 2 "

as well as in pots (returnable) at 9d. per lb. plain, and 10d. per lb. benzoated.

JAMES EWEN & SONS,
5 HATFIELD STREET, BLACKFRIARS LONDON, S.E.

Do you require Petroleum Jelly?

If so, SNOWDON'S PETROLEUM JELLY, White or Yellow, is the best and purest obtainable. It fulfils all the requirements of the B.P., is pronounced by the Medical Profession to be unsurpassed, and DR. S. RIDEAL, D.Sc. Lond., F.I.C., F.C.S., states that the various kinds are of "uniform good quality."

Have you seen our New Speciality in Petroleum Jelly?

The "SNOWDRIFT" (Regd.) BRAND is of a tough or stringy consistency, and is highly commended by *The Hospital* which says of it "That its tough or stringy nature is a great improvement. We learn that already the demand for the "Snowdrift" Brand is very great. It is cheaper than ordinary vaseline, and we confidently recommend it to the Medical Profession." Samples and Prices will be sent on application.

Send for a Sample of "Snowdrift."

Address SNOWDON, SONS & Co., Millwall, London, E.

Telegraphic Address: "SNOWDRIFT, LONDON."

Telephone: 5127.

BAYER'S PHARMACEUTICAL SPECIALITIES.

**TRIONAL.
SOMATOSE.**

Absolutely safe and efficacious Hypnotic. Dose: 15 to 20 grains.

An important nutrient and invigorant, especially for Convalescents, Invalids, Phthisis, Chlorosis, Carcinoma ventriculi Rachitis.

IODOTHYRIN.

The active principle of the Thyroid Gland.

SALOPHEN.

A Specific for Headache, Influenza, Acute Muscular Rheumatism.

TANNIGEN.

Acting promptly in Chronic and Acute Enteritis, especially for Children.

LYCETOL

(Tartrate of Piperazine). Antilithic, Uric Solvent.

EUROPHEN.

A perfect substitute for Iodoform, odourless, and non-toxic. *Special indications:* Ulcus Mucosae, Papul. Madid., &c.

ARISTOL.

An excellent cicatrising agent. *Special indications:* Burns, Ulcus Cruris, Parasitical Eczema, Oozing Sores, &c.

PIPERAZINE-BAYER, PHENACETINE-BAYER, SULFONAL-BAYER, SALOL-BAYER.

Wholesale Depot for all "Bayer's" Drug Specialities:

ELBERFELD FARBENFABRIKEN CO., LTD., 19 ST. DUNSTAN'S HILL, E.C. 4.

Also at 20 Booth Street, Moseley Street, MANCHESTER; 42 Bothwell Street, GLASGOW; and BRADFORD.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH OKELL.)

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling Perfume in the market.
Retail Prices, 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by

THOMAS WEST, 1185 & 1187 CHESTER ROAD, MANCHESTER.
STRETFORD.

MASSAGE AT HOME

THE MATTO CHAIN

Used by the leading Athletes, Cyclists, &c.
valuable for **Liver Complaints, Rheumatism, and Nervous Disorders.** A sure Preventative of **Obesity.**

PRICE 7/6 EACH, from ALL CHEMISTS

WHOLESALE ONLY FROM

32 & 34

MATTO, LIM., Clerkenwell Road, LONDON, E.C. 1.

LOFTHOUSE & SALTNER,

MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA.**

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all



Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Beechwood Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and **Blaud's Pill Capsules**, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

COD LIVER OIL

"HENRIKSEN & CO.'S" Brand.

Guaranteed Pure. Very Finest 1897 Lofoden Non-freezing

FOR SAMPLES AND PRICES APPLY TO

R. MORRISON & CO., 2 Fen Court, LONDON, E.C. 4.

Sole Agents for the United Kingdom and Colonies.

"HENRIKSEN & CO." are actual Manufacturers, & were awarded Gold Medals at the Tromsø Exhibitions in 1870 and 1894.

MANUFACTURERS OF THE
**'PREMIER' EXTRACT
OF MALT.**

RAIMES,
CLARK

ESTD. 1816.

*** IMPROVED FLEXIBLE
GELATINE CAPSULES.**

& CO.

WHOLESALE

Quotations and Samples
on
application.



Telephone No. 556.

Telegraphic Address:
"RAIMES EDINBURGH."



AND

EXPORT

**B.P. & B.P.C. PREPARATIONS
EXTRACT. CASCARÆ LIQUID.**

MADE FROM REALLY OLD BARK.

DRUGGISTS,

Being large buyers of bark direct from America, we can guarantee
that this Extract is prepared from two years old bark.

EDINBURGH.

B. A. SMITH & CO., 36 CRUTCHED FRIARS, LONDON, E.C.

(LATE BOYCE BROS.), HENRY BOYCE MANAGER.

AGENTS FOR

JOH. DIEDR. BIEBER, HAMBURG:

Tinctures, Ethers, Liniments, and Spirituous Extracts, &c., prepared with purest Spirit, and from best quality
of raw Drugs, in accordance with requirements of British and other Pharmacopœias.

IODOFORM (absolute)
IODINE RESUBLIMED
POTASSIUM IODIDE

SODIUM IODIDE
All Preparations of **BROMINE**
SANTONIN (from Turkestan factory).

COCOA BUTTER
CASTOR OIL
CHLOROFORM

COD LIVER OIL
RESINA JALAPÆ
RESINA SCAMMONIÆ

Dr. THEOD. SCHUCHARDT, GOERLITZ:

Pure Fine Chemicals, &c., &c.

TANNIC, CALLIC, AND PYROCALIC ACID.

GLYCERINE, ANILINE DYES, GELATINE, ULTRAMARINE, CITRIC ACID, HEAVY CHEMICALS.

A Most Powerful, Absolutely Non-Poisonous, Non-Irritant, & Convenient

ANTISEPTIC DISINFECTANT & DEODORANT

Chinosol (C₁₂H₁₁N₃KSO₄) is, as shown by the Bacteriological Reports, at least 40 times stronger in its germicidal
action than Carbolic Acid, without possessing the dangerous and otherwise objectionable properties of the latter.

Chinosol is sold in various forms adapted to its manifold important applications—viz., Pure Chinosol, in Powder and
Compressed Tablets; Crude Chinosol, in Granular and Fluid form, as a Disinfectant and Deodorant; Dusting Powder,
for Wounds, Sores, and for Destruction of Parasites, &c.; Chinosol Lanolin Ointment; Chinosol Antiseptic Surgical
Dressings; Chinosol Soap (Medicinal,
Veterinary, and Toilet), &c., &c.



A special and very saleable Counter line, for Retail, is provided in a
box (as per facsimile), containing Chinosol Tablets, sufficient to make, by
simply dissolving in cold water, 2 gallons of a strong Deodorant,
or 10 gallons of an efficient Disinfectant.

This box is Retail'd at SIXPENCE.

FOR PRICES, LITERATURE, &c., APPLY TO

B. KÜHN 36 St. Mary-at-Hill, LONDON.

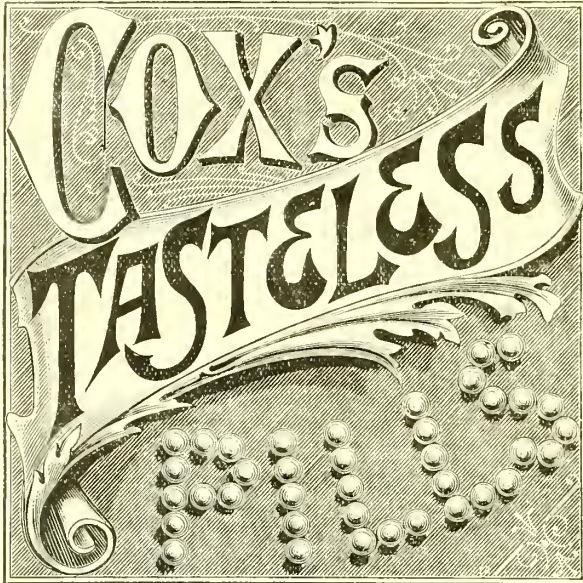
Sole Licensee for the United Kingdom, the British Colonies & Dependencies.



The Perfection of Disinfectants & Deodorants

CHINOSOL is forty times stronger in its germicidal
action than Carbolic Acid and is absolutely non-poisonous.
Chinosol in tablets is the most convenient form for use
and its applications in the Household, Sickroom, or while
travelling are manifold, most effective and absolutely
safe (see enclosed directions.)

Sold by all Chemists, Stores, &c., at SIXPENCE per box,
or if not obtainable apply direct enclosing 7d. in stamps to
B. KÜHN, 36, St. Mary-at-Hill, LONDON.



SPECIAL OFFER.

Pil. Aper. "A" Rhei Co., Dandelion Scilla Co., Pulegii, Castor Oil or Blaud.

100 gross selection of above (minimum 10 gross) at 100 gross rate of

3d. GROSS.

ARTHUR H. COX & CO., BRIGHTON.

FORMALDEHYDE.

Original Make.

SOLE AGENTS FOR THE UNITED KINGDOM—
J. NORRENBERG & CO.
CANNON STREET BUILDINGS,
139 CANNON STREET, LONDON, E.C.

MANCHESTER DEPOT—
D. LAWTON & CO.
TREVELYAN BUILDINGS,
52 CORPORATION STREET, MANCHESTER.

SCOTTISH ACID & ALKALI CO.
(LIMITED).

Mr. R. H. STEEDMAN, Managing Director.
MANUFACTURERS OF
RESUBLIMED IODINE,
PURE IODIDES of POTASSIUM & SODIUM,
IODIFORM,
Commercial Sulphuric Acid.

Registered Office—82 W. REGENT STREET, GLASGOW.
Works—Longford Chemical Works, KILWINNING,
AYRSHIRE.
Sole Agents—KIRKPATRICK, BARR & GUTHRIE, 4 Cullum
Street, LONDON, E.C.

Special Quotations on application.

DR. SCOTT'S BILIOUS & LIVER PILLS.

The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

A GOOD PILL and GOOD PROFIT.

1/1½ size	...	...	...	...	Wholesale Price, 10/- per dozen.
" "	...	...	...	...	Minimum Retail Price, 1/- „ box.
2/9	...	...	...	...	Wholesale Price, 24/- „ dozen.
" "	...	...	...	...	Minimum Retail Price, 2/6 „ box.

The proprietors will be obliged if Chemists will report all cases of Cutting to

THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,
2 and 3 STONECUTTER STREET, E.C.,
who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to 178 Seymour Place, London W.

NOTICE

Raimes & Co.

WHOLESALE DRUGGISTS,
MANUFACTURING AND ANALYTICAL
CHEMISTS,

York

Beg to announce their **REMOVAL**

From 13 MICKLEGATE,

To NEW and LARGER PREMISES,

Laboratories and
Goods Entrance—

MICKLEGATE HOUSE,

(Offices and Warehouses)

TOFT GREEN.

YORK.

Telegrams—"RAIMES YORK."

Nat. Telephone No. 9.

THOMAS TYRER & CO.

Stirling Chemical Works, Stratford, London, E. ESTABLISHED 1844.

"STERLING BRAND"

GRANULAR & EFFERVESCENT & SCALE PREPARATIONS, ELEGANT AND SOLUBLE.



SUGAR COATED PILLS

COMPOSED OF THE PUREST DRUGS.
All the Leading Varieties at Lowest Prices.
THE MOST RELIABLE, & FAR SUPERIOR TO PEARL COATING
SPECIALTY: PRIVATE RECIPES.

SCOTTISH SUGAR COATED PILL CO.

Washington Street, GLASGOW.
Agents Wanted. | Send for Samples.



SUGAR COATED PILLS
"MEDICINE MADE PLEASANT FOR ALL"
PREPARED AT THE
ANDERSTON APOTHECARIES HALL
WASHINGTON ST. GLASGOW
ANTIBILIOUS
REGISTERED

Mitchell's CASTOR OIL

The *Lancet* of 8th June, 1895, says:—"MITCHELL'S PROMISES of extracting and refining Castor Oil is obviously an improvement which the profession cannot fail to approve and welcome, since in removing the great objection to the Oil—namely, that of repulsive taste, as well as in securing its full therapeutic effect—it is calculated to assist and to facilitate the administration of a very valuable therapeutic agent."



The *British Medical Journal* of 18th May, 1896, says:—"Castor Seeds have, unless very old, a pleasant nutty flavour, and the disagreeable taste of ordinary Castor Oil has been produced by the conjoint action of moisture, air, heat, and fermentative changes during the expression of the Oil from the Seeds and its subsequent treatment. An Oil can be obtained as pleasant to the taste as the fresh seed, if the expression is not assisted by artificial heat, and the Oil at once freed from impurities by filtration without heat, in vessels from which air is excluded, and bottled *in vacuo*. . . . By MITCHELL'S COLD PROCESS . . . the Oil thus obtained has a simple bland taste, resembling olive oil, the nauseous taste associated with the ordinary Cold Drawn Castor Oil being entirely absent."

The *Hospital* of 8th June, 1895, says:—"We have tested the samples sent us both clinically and chemically, and the results are excellent. . . . We have never yet met with an Oil that had not this taste till we tried Mitchell's. . . . We consider this Oil the very best we have met with, and can cordially recommend its use to the profession."

Put up in 2, 4, & 8 oz. bottles, to be retailed at 6d., 9d., & 1s.

Also supplied in WINCHESTERS at low prices, which will be forwarded on application.

FOR PARTICULARS AS TO DISCOUNTS, &c., APPLY
THE UNITED BRITISH CASTOR OIL CO., LTD.
OSSORY ROAD LONDON, S.E.

DR. LALOR'S PHOSPHODYNE

For over THIRTY YEARS has maintained its world-wide reputation as
THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces

DR. LALOR'S PHOSPHODYNE

HAS THE LARGEST SALE OF ANY PHOSPHORIC MEDICINE IN THE WORLD.

The only Medicine of the kind or name awarded a Certificate of Merit at the Calcutta Exhibition, 1883-4.

TRADE MARK—"PHOSPHODYNE."

"THOUSANDS of unimpeachable Testimonials from all parts of the World. No other Phosphoric Preparation has received such exalted praise and distinguished recognition.

To be obtained in Bottles at 4s. 6d. from all Chemists, &c., &c.

MANUFACTURED ONLY AT

DR. LALOR'S PHOSPHODYNE
LABORATORY,
HAMPSTEAD, LONDON, N.W.

CHEMISTS enclosing Trade Card will be supplied free with a neat Showcard.

MEDICINAL AND CULINARY

HERBS

IN PACKETS AND BULK.

The CHEAPEST HOUSE in the COUNTRY

1d. Packets.	PER 5/6 GROSS.	In 1 or 3 doz. Paper Parcels.
In 3 or 6 doz. Hinged Lid WOOD Boxes.	PER 6/- GROSS.	With Attractive Labels in 3 Colours.

5% Discount Journey or Quarterly Account; extra 2½% prompt cash 7 days.

Only the Finest Quality of Herbs are Packed; 90% of the Packets contain 1 oz.; on each Packet full directions for Preparing Dose for Children and Adults, Medicinal Properties, Botanical Name, Synonyms and a useful Recipe are given.

NO NAME, TRADE MARK OR BRAND APPEARS ON EITHER PACKETS OR BOXES,

But we will put Customer's Name, Address, and other Advertising Matter on the back of the Packets (which is left blank for this purpose) on First Orders of 5 Gross Lots, and Following Orders of not less than 2 gross.

WRITE US FOR PARTICULARS.

HERBS IN BULK AT EXCEPTIONALLY LOW PRICES.

Write for NEW PRICE LIST. NOW READY.
Foreign Indents should be marked distinctly BROOK, PARKER & CO.
Carriage Paid anywhere in Great Britain on Orders of £2 and upwards.

BROOK, PARKER & CO., Wholesale Druggists,
Spice and Seed Merchants, Grinders and Packers
(Special Seed List Issued Monthly)
LEEDS ROAD, BRADFORD.
Telegraphic Address—"DRUGS BRADFORD."

R. HOVENDEN & SONS, BERNERS ST., W.,
AND
CITY ROAD, E.C., LONDON.

REVISED and ILLUSTRATED
CATALOGUE FOR 1897.

500 Pages, and over 1,880 Illustrations, Post Free on receipt of Business Card.

TERMS: 2½ PER CENT. CASH DISCOUNT.

WHOLESALE DEALERS IN AND MANUFACTURERS OF

PERFUMERY. PATENT MEDICINES,

DRUGGISTS' SUNDRIES,

FANCY SOAPS, ESSENTIAL OILS,

TOOTH, NAIL, and HAIR BRUSHES, COMBS, CUTLERY,

TOILET AND SMELLING BOTTLES, SPRAY PRODUCERS, MANICURE GOODS,

And all Articles dealt in by Chemists, &c.

PROPRIETORS OF—

THE CHERUB FEEDER
THE EASY HAIR CURLER
GLISSADERMOS
BOGLE'S HYPERION FLUID
BOGLE'S MYSTIKOS
CHURCHER'S DENTIFRICE AND
MOUTH WASH
CHURCHER'S SPECIFIC

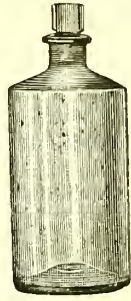
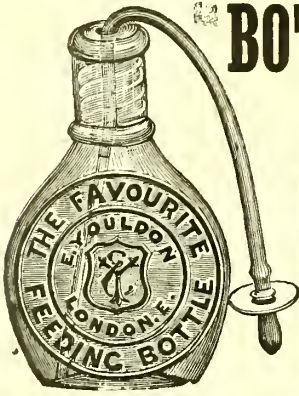
CHURCHER'S TOILET CREAM
COWVAN'S RAZORS, RAZOR
STROPS, AND PASTE
LLOYD'S EUXESIS (The Genuine)
THE RAZOR SCISSOR
HOVENDEN'S SHAVING SOAP
MARRIS'S MARKING INK

SWEET LAVENDER PERFUME
MARRIS'S ALMOND TABLETS
AND PREPARATIONS
MIDGET PATENT SAFETY
SHAVER
THORNTON'S WALNUT HAIR
WASH
HERRING'S MAGNETIC BRUSHES

SOLE WHOLESALE DEPOT FOR—

BACHELOR'S HAIR DYE
BAINS SAVONNEUX (Wheatsheaf Brand)
BERGEMANN'S SHAVING SOAP
BULLY'S TOILET VINEGAR
CHAPLIN'S TOILET VINEGAR & BATH POWDERS
DORIN'S ROUGES, BLANCS, and all other preparations
FELIX'S EAU DES FEES
IMPERIAL HAIR REGENERATOR
LEICHTNER'S GREASE PAINTS, & all other preparations
LOZE'S FILTER PAPER
MARIE ANTOINETTE EGG JULEP POWDER

MECH'S RAZOR STROPS and Paste
NUDA VERITAS HAIR RESTORER
PICARD FRERES' POUDRE D'AMOUR
PICARD FRERES' VALINEROSE
PINAUD'S PERFUMERY, and all other preparations
PRAY'S (Dr. J. PARKER) MANICURE GOODS
ROBARE'S AUREOLINE
ROBERT FRERES' PERFUMERY
ROYAL WINDSOR HAIR RESTORER
SCHWARZLOSE'S HAIR DYE | **SKINHEAL**
VOOGD'S RAZORS, SCISSORS, and all other articles



BOTTLES FOR ALL REQUIREMENTS

Trial Orders and enquiries solicited by

E. YOULDON,

ESTABLISHED 1840,

East London Glass Bottle Warehouse,
36, 38 & 40 GREAT GARDEN ST., WHITECHAPEL, LONDON, E.

Telegraphic Address—"YOULDON LONDON."

HEARN'S BOTTLES

ARE THE BEST IN THE MARKET.

BOTTLES, &c., of ANY SHAPE OR COLOUR, at the most Reasonable Prices.

HEARN, WRIGHT & CO. (Late E. A. Hearn & Co.), Wholesale & Export Glass Bottle Manufacturers, London, E. Eclipse Glass Works, Chatsworth Road, Clapton.

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—
The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. .. 7/6 per gross. | 10 & 12 oz. .. 12/- per gross.

6 " 8 " .. 8/6 " | 16 " .. 16/- " "

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

1/2 oz. .. 3/6 per gross. | 1 1/2 oz. .. 4/6 per gross.

" " .. 3/9 " | 2 " .. 5/- " "

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.
Established 60 years. Bankers—London and Westminster Bank.

WORKMEN'S HEALTH-PROTECTING AND SAFETY APPLIANCES (REGD.).

PREVENTING DISEASE & PROLONGING LIFE



Respirator or Lung Preserver
To Protect the LUNGS and THROAT from Dust, Poisonous Gases, and other Impurities.

Adapted for use in White-lead Works, Paint and Colour Works, Chemical and Pulverising Works, Tobacco and Snuff Factories, Iron Works, Smelting and Refining Works, Paper Mills, &c., &c.

PRICE, carriage paid, 6/- each net.

Improved Safety Spectacles.

The most complete invention of its kind. Does not hinder the sight. Price, per doz., carriage paid, from 24/- net. Write for Prospectus.



ZIMMER & CO.,
82 Mark Lane, London, E.C.
AGENTS WANTED.

SPONGE IMPORTERS.

M. PETERSON & CO.

6 HOUNDSDITCH, LONDON.

FOR HOME FOREIGN, & COLONIAL MARKETS

BUYERS' GUIDE,

See pages 35-37.

WOODRUFF'S TRANSPARENT CELLULOID SPRAY PRODUCER

(Patented in England, Germany, France, and U.S. America),

For Applying Small and Measured Quantities of Medicaments to the Larynx, Pharynx, and Nasal Cavity.

Write for List of Prices, Press Opinions, and Descriptive Circulars, to the Patentee—

T. WOODRUFF, Pharmaceutical Chemist, WITHINGTON, MANCHESTER.

H. GILBERTSON & SONS, L^{TD}.

9 & 11 St. Andrew Street, Holborn Circus, London,

PROPRIETORS AND MANUFACTURERS OF

GILBERTSON'S Registered Boat Feeding Bottles (Rd. No. 113,236)

GILBERTSON'S Little Rosebud Feeding Bottles

GILBERTSON'S Graduated Feeding Bottles

GILBERTSON'S Graduated "Louise" Feeding Bottles

GILBERTSON'S Tropical Feeding Bottles

GILBERTSON'S Dispensing Bottles (No. 118,583)

GILBERTSON'S Graduated Measures

GILBERTSON'S Ideal Bed Pans

ALSO

SCHWEITZER'S DANDELION COFFEE, ROWN'S BENZINE,
OSBORNE'S LADIES' OINTMENT, &c.

THE PATENT STOPPER, BOX & STAMP CO., LIM.

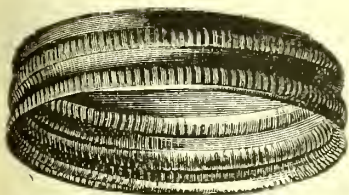
13 VICTORIA STREET, LONDON, S.W.

C. HOUGHTON BROWN,

Secretary.

MANUFACTURERS of every description of

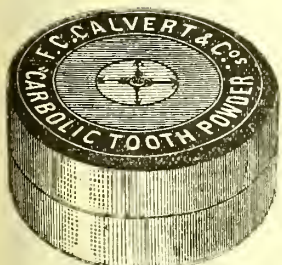
**BOXES, STOPPERS,
POMADE & SCREW CAPS,
CAPSULES, &c., &c.**



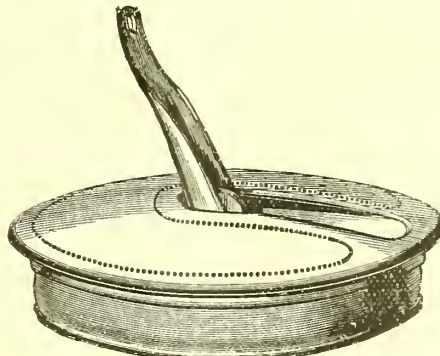
SCREW CAPS OR CAPSULES.
Nickel, Zinc, Tin, or other Metal



PATENT UNION STOPPER.



Patent No. 12711.
THE UNIQUE BOX.

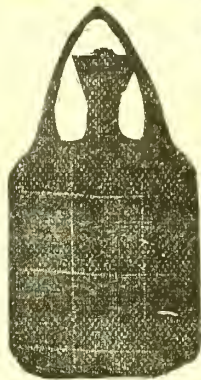


PATENT LEVER STOPPER.



Patent No. 12711
THE UNIQUE BOX.

Samples & Prices for Wholesale Buyers on application.



INDIARUBBER HOT WATER BOTTLES, CUSHIONS, BEDS, PILLOWS, &c.

Made of Best "Para" Rubber and guaranteed Durable.

STANDARD DRAB QUALITY—OUR

PATENT "COMFORT" WATER BOTTLES. RED, BLACK, AND CLOTH COVERED.

All our Bottles are fitted with Currie's Patent Safety Filling Screw, which prevents risk of scalding when filling.

WHOLESALE ONLY. BEST TERMS TO CHEMISTS.

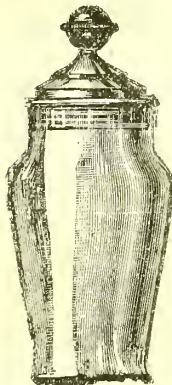
WILLIAM CURRIE & CO., CALEDONIAN RUBBER WORKS, EDINBURGH.

London Address—3 FALCON SQUARE, WOOD STREET, E.C.



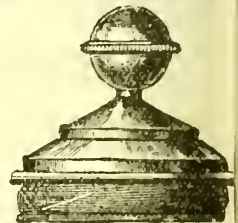
NEW PATENT

AIR-TIGHT CHEMIST JAR.



A slight turn of the knob presses the indiarubber Band against the glass, and renders the vessel absolutely air-tight. The Stopper is made of pure Nickel, of handsome shape.

INVALUABLE FOR SHOW BOTTLES, CHEMISTS, CONFECTIONERS, ETC.
Samples and Prices of all Chemists' Sundriesmen.



C. MELIN, [2]

37 CRUTCHED FRIARS, MARK LANE, E.C.

Section of the Nickel Stopper when closed.

WILLIAM TOOGOOD.

TOOGOOD'S IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most Perfect and Convenient yet offered to the Trade.

ORDINARY THICKNESS—

1 dr.	2 dr.	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	8 ounces.
1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.

THIN FOR DISPENSING—

$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	8 ounces.
1/7	1/9	2/-	2/2	2/5	3/-	4/-	5/-	6/- per doz.

STAINER'S CHLORIDE OF AMMONIUM INHALING PIPE

REGISTERED No. 250397.

The Cheapest and most Portable in the Market. 27/- dozen.

REID'S INFANTS' FOOD WARMER.

PATENT No. 25268.

A thoroughly practical Apparatus. 6/- each.

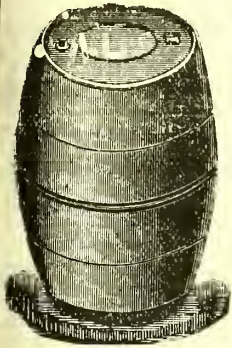
BURLINGTON BUILDINGS, Heddon St., Regent St., LONDON, W

CAIRD'S STAMPED STEEL BARRELS

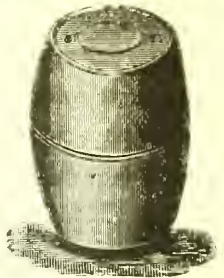
NO COOPERAGE, NO LEAKAGE, NO LOSS BY EVAPORATION.

For Carrying and Storing
Chemicals, Spirits, Acids, Varnishes, Oils,
and Other Liquids.

ALSO
White Lead, Paints, Resin, Gums,
Wax, Soft Soap, and other Dry or Semi-
Liquid Goods.



Are less Dangerous than
Wood Barrels.

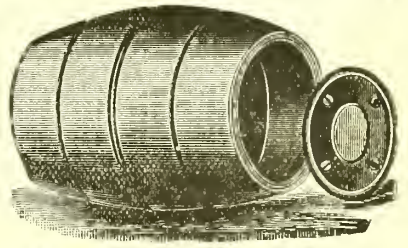
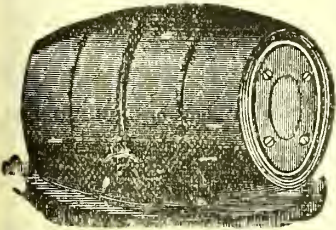


Occupy Less Space,
are Stronger
and more Durable
than Wood Barrels.

CORRESPONDENCE INVITED.

SOLE MANUFACTURERS,
IRON & STEEL PLANT CO.
LIMITED,
10 & 11 AUSTIN FRIARS,
LONDON, E.C.

WORKS—Barrow-in-Furness.



WHITE BEESWAX,

WARRANTED PURE. BLEACHED BY SUN.

REFINED YELLOW BEESWAX,

Recognised as the Standard in the United States.

Write for Sample and Quotation, naming quantity desired.

THEODOR LEONHARD, PATERSON, NEW JERSEY, U.S.A.

ESTABLISHED 1852. Cable Address—"LEONHARD PATERSON."

Telephone No. 4589, Hop.

Telegraphic Address—"TERPINOL LONDON."

DRUGS, PURE CHEMICALS, AND PHARMACEUTICAL PREPARATIONS OF BEST QUALITY.

SPECIALITIES.—Mistura Bismuthi Co. (Tonic Digestive); Mistura Cerii Co. (all the Preparations of Cerium); Glycerol Pepsine et Euonymin (Digestive Cholagogue); Glycerol Podophylli (Cathartic); Mistura Cascara Sagradae Co. (Tonic Laxative); OL. EUCALYPTI, P.B.; Eucalyptol Disinfectants; Oxylchlorogene Disinfectants; Carbolic Acid; Carbolic Powders.

NEW SOLUBLE TRANSPARENT AND PEARL-COATED PILLS.

Pills of the Pharmacopœias and private formulæ as required. Full lists and quotations on application.

SPECIAL QUOTATIONS FOR GRINDING.

MAGKEY, MAGKEY & CO., 175 GRANGE ROAD, BERMONDSEY, S.E.

Contractors to Her Majesty's Government, Wholesale and Export Druggists and Manufacturing Chemists.

DRUG GRINDERS and IMPORTERS.

CARDS.

FOR TERMS APPLY to the PUBLISHER.

FRED^K. FINK & CO.
 10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES: Glycerine — Gum Arabic —
 Gum Tragacanth—Pure Beeswax—Honey.

PRECIPITATED CHALK,
CRETA PRECIP.
 Whitest & Purest Quality. Cheapest Sellers In the Market.
AUG. LEVERMORE & CO., 34 Lime St., LONDON, E.C.
 Telegrams—"LEVERMORE LONDON." A B C Code used.

FINEST SHEEP DIPS.
 Fluid, Powder, and Paste.
PATENT SHEEP DIPPERS.
 With or without Wheels.
GUARANTEED DISINFECTANTS.
 Soluble Fluids and Carbolic Preparations.
LETCHER BROS. & CO., Government Contractors, CRIMSBY.

E. H. THIELLAY'S (Registered 1867)
EAU F. JOUVENCE, GOLDEN.
 Producing Flaxen Golden Hair.
 Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.
 This is a very superior article. In Bottles at 8/6, 6/- & 10/-
 All Wholesale Houses, or direct from
E. H. THIELLAY
 Parfumeur-Chimiste, Amersham Park, New Cross, LONDON, S.E.
 (SHOWROOMS AT CHARING CROSS HOTEL.) (B)

Inventor **J. W. PINDAR & CO.** Inventors
 Write for our Illustrated Catalogue of
**THE NEW ROTARY PILL MACHINES, PIPING
 PRESS AND MASS KNEADERS, COATERS.
 D.A. TINCTURE PRESSES, &c., &c.**
 75 NEW CHURCH ROAD, CAMBERWELL, S.E.

RICHARD BRÜCKNER, HAMBURG,
 COMMISSION MERCHANT,
IMPORTER & EXPORTER of all kinds of **CRUDE DRUGS.**
SPECIALITIES.—Aniseeds, Herbs, Cod-liver Oil, Ergot of Rye, Isinglass,
 Lycopodium, Cammin Seed, Arsenic, Sugar of Milk.
CHEMICALS. SPICES.
Goods specially packed for Export to all parts.
 Sole Agents for the United Kingdom—
MESSRS. BRUMMERSTAEDT & LÜDERS, LONDON, E.C.

CORKS! CORKS!! CORKS!!!
RINGROSE & COBB, Cork Merchants,
 129 Cambridge Road, Mile End, London, E.
 Manufacture and supply every description of Corks, Bungas, Shives, Taps,
 Bath Mats, &c., &c.
 Dispensing Corks, 6 and 8 oz., from 6d. Vials, 1 to 8 oz., from 4d.
Samples forwarded on application to any price stated.

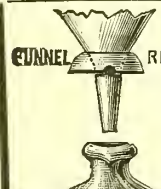
ENGLISH (guaranteed)
SANDAL WOOD OIL CAPSULES.
Wm. DROEGE & CO., Proprietors of the "HEBE" Brand.
 Registered No. 189,811
 14 UPPER THAMES STREET, E.C.

BLAUD PEARL-COATED, PINK OR WHITE.

21d. per gross, in 100 gross lots, carriage paid.
22 1 gross in metal-capped bottle, with neat and telling label, 3/6 per doz.; 18/- per 1/2 gross. Carriage free.
WAND, PILL LEICESTER.
 Factory,

THE THORNTON-PICKARD
New Camera

 THE "AMBER."
 From £5 3 6. Catalogue Free.
THE THORNTON-PICKARD
 MFG. CO. (LTD.), Altrincham.

GREEN'S FUNNEL RINGS

 Are a great help in STRAINING, BOTTLING, and FILTERING.
 They support the funnel in an upright position, and prevent tipping and spitting, the air escaping through the grooves. Made of good rubber for glass funnels, and hold on of their own accord. For Dispensing and Photography.
 PRICE 1/- SET OF 6, OR SINGLY.
 AGENTS—Messrs. TOOGOOD & SONS and JONATHAN FALLOWFIELD.
E. J. GREEN, Chemist, ROCHESTER.

Thos. CHRISTY & CO. **3/- per 1,000.**
 In Six Sizes

MORSTADT CACHETS
 WHITE OR IN VARIOUS COLOURS
 251
 time 9
 1C11C1. 1C

CACHETS "FINOT"
 (White or Coloured),
WITH INSCRIPTIONS IN ANY DESIRED TINT; ALSO PLAIN OR EMBOSSED.
 "Beautifully made, and the inscriptions give them a distinction all their own."—C. & D.
 "Perfection of Cachets."—Law's
 SOLE AGENTS—
COOPER & CO., 80 Gloucester Road, SOUTH KENSINGTON.
 When ordering through Wholesale Houses please specify Cachets "Finot."

TO DENTISTS.
 High-class Dental Mechanism in Gold, Dental Alloy, Tubes, Gum Section Vulcanite, Celluloid, or their Combinations, and Repairs, by
A. J. FENTIMAN & CO., 2 UPPER EAST LONDON, I
 SMITHFIELD,
Mechanical Dentists to the Profession at most Moderate Charges.
 ESTABLISHED 1835.
 A staff of Skilled and Experienced Assistants under responsible Management.
 Postal Address—A. J. FENTIMAN & Co., 2 Upper East Smithfield, London.

" SILVERY WHITE GUTTA PERCHA ENAMEL "

MARK.

TOOTH STOPPING.

P. A. STEVENS, Surgeon-Dentist,
72 MANSFIELD ROAD, N.W.,
SOLE PROPRIETOR AND MANUFACTURER

Registered—No. 3745.

Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name.
A sample box of 12 sticks sent post free for 12 stamps. Price list and sample free.

A RARE OPPORTUNITY.

1 lb. of GLYCERINE & CUCUMBER, 2¹/₂ d.

1/2 lb. of MALCOLM'S Concentrated CUCUMBER PASTE will make 66 oz. of a beautifully white, non-separating Emulsion, simply by adding aqua dest. *GUARANTEED to be prepared from CUCUMBERS.*

Send at once for sample 1/2 lb., post free 1/3. 1/2 lb. 1/3; 1 lb. 2/-; 4 lbs. 7/6.

MALCOLM & CO., 10 SMEATON STREET, HULL.

By **HERBERT SNOW, M.D. (Lond.), M.R.C.S., Surgeon**
since 1876 to the Cancer Hospital.

THE TUMOURS OF THE BREAST which are "Dispersible" without operation. With cases, and other reprinted papers on **BENIGN TUMOURS and CANCER, 2 6.**

COMPENDIOUS TREATISE ON CANCER (the only work on the whole field of malignant diseases for more than 50 years, containing numerous highly important improvements in treatment), 15/-.

J. & A. CHURCHILL, 7 GT. MARLBOROUGH STREET, W.

Yanatas

(REGISTERED).

THE ABSOLUTE PREVENTIVE OF SEA SICKNESS.

Wholesale Agents—**DAKIN BROTHERS, 87A Leadenhall St., LONDON.**

SWITZERLAND.

Business Houses wishing to **EXTEND and PUSH** in SWITZERLAND and surrounding countries can be represented by **Mr. GEOGG, Wholesale and Retail Chemist, Geneva.**

Address—**GRANDE PHARMACIE GEOGG, 18 CORRATERIE, GENEVA.**

Corresponding house in London—**MESSRS. WILCOX & CO., Mortimer Street, W.**

Buy first
hand
from the
Im-
porter.

VANILLA!!

IN SMALL OR LARGE QUANTITIES.

Fine Long Beans, 8 to 9 inches	.. ..	32/- per lb.
" " " 7 to 8 "	.. ..	31/- "
" " " medium " 4 to 6 "	.. ..	25/-, 27/- "
Manufacturing and Distilling quality..	.. ..	19/-, 22/- "

Terms—Cash or references with first order.

FELIX PAVIA, 136 Fenchurch St., LONDON.

DUNCAN, FLOCKHART & CO., WHOLESALE AND EXPORT DRUGGISTS, EDINBURGH & LONDON.

CHLOROFORM

Chloroform (DUNCAN'S S.G. 1490) Non-decomposable. PURE & METHYLATED.

This contains about 1 per cent. Absolute Alcohol, but in other respects is identical with our ordinary make (S.G. 1497), which contains about 1/4 per cent. While this minute proportion of Alcohol in no way affects its anaesthetic power, it renders the Chloroform **PRACTICALLY NON-DECOMPOSABLE.**

N.B.—We are now bringing this Chloroform prominently before the Medical Profession, but we continue to send out Sp. Gr. 1497 where Sp. Gr. 1490 is not specially ordered. We recommend the latter for export, particularly to warm climates.

LONDON BRANCH—38 & 39 SNOW HILL. Telephone No. 65282, Holborn.

ANIMAL EXTRACTS.

ARTICULAR EXTRACT.

Prepared from the fresh Articular Cartilages and Synovial Membranes of healthy animals. In Bottles, 3s., 5s. 6d., and 10s.

SUPRARENAL PREPARATIONS.

1-oz. Bottles of Tincture of Suprarenal Glands, 2s. 6d.
Pills, in Bottles, 2s. 9d. and 5s.
Tablets, in Bottles, 3s. 6d. and 6s. 6d.

EXTRACTUM CORTICIS CEREBRI (Brain Extract).

Price, in Bottles, 3s. and 5s.

BONE MARROW EXTRACT.

Dose.—Half to one teaspoonful two or three times a day.
In Bottles, 3s., 5s. 6d., and 10s.

PITUITARY BODY PREPARATIONS.

Fluid Extract, 2s. 6d. per oz. Bottles.
Elixir, Bottles, 3s., 5s. 6d., and 9s. each.
Tablets, 3s. 6d. and 6s. 6d. per Bottle

THYROID EXTRACT.

(FOR MYXEDEMA.)
Price, in Bottles, 3s.

THYROIDINE.

Containing the active principle of the Thyroid Glands of the sheep, 4 grains equal to about one-eighth of a fresh gland. Also PILLS and TABLETS, each containing a dose of Thyroidine.
In Bottles, 2s. 6d. each.



WILLOWS, FRANCIS & BUTLER,

Wholesale & Manufacturing Chemists & Export Druggists,

101 HIGH HOLBORN, LONDON.

ESTABLISHED 1751.

Leaflets descriptive of above and List of Drugs and Pharmaceutical Preparations on application.

RENDELL'S

"WIFE'S FRIEND" SOLUBLE QUININE PESSARIES.



IMPORTANT NOTICE AND CAUTION

Several Injunctions in the High Court of Justice having already been obtained against "Infringers" (reports of which have appeared in "The Chemist and Druggist," the most recent being in issue of April 24, 1897), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof, in connection with Pessaries *not* manufactured by

W. J. RENDELL,

Inventor and Sole Maker of the "WIFE'S FRIEND" SOLUBLE PESSARY,

15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

See that the Registered Trade Mark and Number (but in red ink) are upon each box thus:—

Registered
Trade Mark
without which
none are genuine.
No. 182,688.

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

J. H. HAYWOOD, CASTLE NOTTINGHAM,

GATE,

Patentee, Inventor, and Manufacturer of

ESTABLISHED 1833.

SURGICAL ELASTIC STOCKINGS, BELTS, SUSPENSORY BANDAGES, TRUSSES,

Surgical Appliances, Caoutchouc Articles, Waterproof and Airproof Goods, &c., &c.

WHOLESALE DEALER IN DRUGGISTS' SUNDRIES.

INVALIDS AND NURSERY REQUISITES.

SPECIALITIES.

TRUSSES FOR RUPTURES OF ALL KINDS. Equal to any supplied in London, Paris, or New York.

Ladies' and Gentlemen's

SUPPORTING BELTS AND BANDAGES.

Poro-Plastic Jackets and Steel Instruments for Curvature of the Spine moulded to the Patient. Splints and Instruments for Deformed Feet and Legs.

Chest Expanding Braces for Stopping Shoulders and Contracted Chests. Patent Elastic Surgical Stockings, without seams, for Varicose Veins, Sprains, &c.

MAGNETIC BELTS AND APPLIANCES

for all parts of the Body. Indiarubber Appliances, Invalid Furniture, Bath Chairs, Carriages, Crutches, Ear Trumpets, Throat, Ear, and Nose Instruments, &c.

Models taken of Deformed Feet, and Boots made to fit. Artificial Arms, Legs, &c.
Strong Cheap Articles for working men.

PATENT SPIRAL ELASTIC APPLIANCES, WITHOUT SEAMS,

which are much approved by all who have worn them, and am told most confidentially that they are the Surgical Appliances of the future. These Appliances—STOCKINGS, SOCKS, LEGGINGS, &c.—are made from PATENT MACHINERY, and are on an entirely different principle to those generally in use.

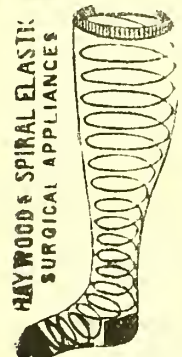
To Avoid Varicose Veins and Sprains, Cyclists should Wear

HAYWOOD'S PATENT ELASTIC GAITERS,

the ADVANTAGES of which are:—

That having Threads of Indiarubber woven in them they support the muscles of the Leg and Ankle, and can be drawn on and off the Leg without the trouble of buttons.

That fitting closely to the limb they show the shape of the Ankle, and have not the clumsy appearance of the Cloth Gaiters, and do not ruck up.



HAYWOOD'S SPIRAL ELASTIC SURGICAL APPLIANCES
Patent Seamless Spiral Stocking, showing the Indiarubber Cord continuous.



THE CHEMIST & DRUGGIST

EDUCATIONAL NUMBER,

September 4, 1897.

ONE of those rare opportunities for Wholesale Drug Firms, Druggists' Sundriesmen, and others connected with the Drug trade, for addressing Hospital authorities and the directors of Medical Schools, will be given next week, when the *Educational Number* of THE CHEMIST AND DRUGGIST will be published.

This number will be circulated to these institutions and to others interested in Educational matters, so that the opportunity for offering Hospital Supplies, Chemicals, and Scientific Instruments of all kinds is exceptionally good.

It is well to keep in mind that our Educational Number is in request all the year round, so that advertisements inserted in it speak all the year round. We specially advise Educational Schools and Institutions to have telling advertisements in the number, and space should be reserved by TUESDAY NEXT, August 31, at the latest, by application to

The Publisher, **THE CHEMIST AND DRUGGIST, 42 Cannon St., London.**

Preliminary Announcement.

—THE—

CHEMISTS' & DRUGGISTS' DIARY, 1898

(THIRTIETH YEAR OF PUBLICATION),

Is now in Preparation.

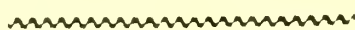
Firms wishing to Advertise in the Diary should at once communicate with the Publisher of "THE CHEMIST AND DRUGGIST,"

42 CANNON STREET, LONDON, E.C.

SOME CHEMISTS

Are talking of going to Klondyke, but other brothers, clearer headed and farther seeing, are pushing "DAISY" instead. There's risk of privations, disease, or a knock on the head at Klondyke; but there's certainty, rapid sales, and **100 per cent. in "DAISY."**

If desired, we will send a Small Parcel on Sale or Return, and Invoiced on such Terms as will produce 100 per cent. Profit on the Bulk of the Sales. Cards, Art Chromos, Coins, Bills, &c., Free and Carriage Paid, on application to DAISY, LIMITED, The Twin Daisy Works, LEEDS.



DAISY, Limited, THE TWIN DAISY WORKS, LEEDS.

THE WORDS OF SOLOMON

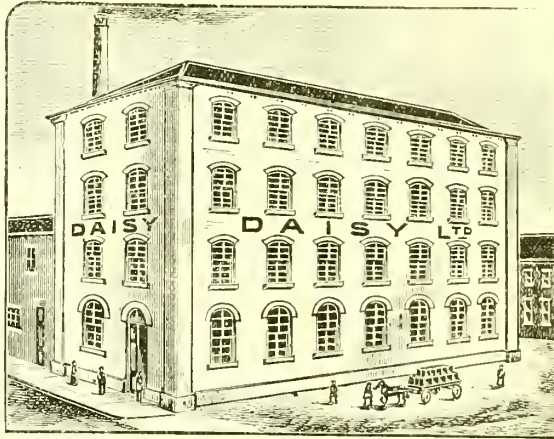
(The 19th century sage).

Be thou wise in thy day and generation. Put thy money where thou canst find it. Lo ! Banks totter, Companies fall, and Securities fail. But "DAISY" abideth. Avoid the wily promoter, for behold, his bones do prosper and he waxeth fat upon the ignorance of the people. But "DAISY" from the highest pinnacle of fame and from the uttermost parts of the earth doth offer thee security of a surety, great profits of a certainty, and customers without stint. My son, ponder these words.

Recommend thou it to the suffering. Thou wilt do them a kindness and thyself no harm. Put thou "DAISY" on the door, in the case, on the counter, in the window, on the window. It shall brighten and gladden thy pharmacy as the noonday sun. Verily if thou make the meek and lowly "DAISY" the leviathan in thy shop, loud shalt be thy reward, for thy profits shall be great, and the multitude thy customers.

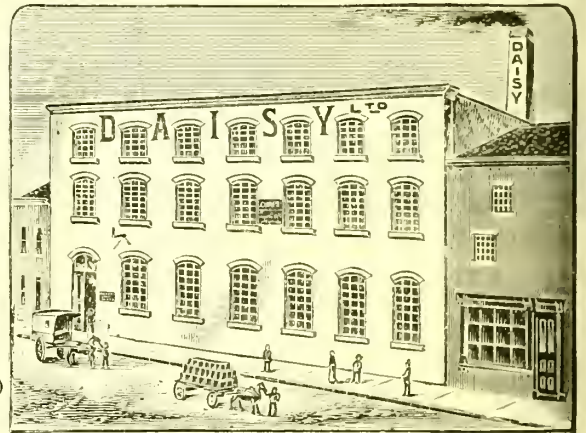
What **MERIT** has done
for "DAISY."

Given the
GREATEST
SALE.



6,000,000
sold annually.

Necessitated the
BIGGEST
PREMISES.



(Above marvellous results
achieved within 3 years.)

Produced the
BRIGHTEST
RECORD.

CORROBORATED
by
OUTSIDERS.

"THE CHEMIST AND DRUGGIST," August 21, 1897, says:

"The enterprise of Daisy, Limited, is one of the records
of this great record year."

~~~~~

If you will drop us a card we will send you a dozen of both sizes, with Art Chromos, Cards, Bills, Coins, &c., on sale or return, same day as received, and on such terms as will produce 100% on the bulk of the sales. DAISY, LIMITED, LEEDS,



We believe, with Ruskin, in a "living wage." We put our theory into PRACTICE by giving our Agents **GOOD** profits, protected prices, and every encouragement to push.

## 20 Daisies in each box, 13½d.

Sell mostly in two's and three's, generally at full price. Lowest cutting price, **1s.**

Samples, **1d.** each. Lowest cutting price, **5 for 4d.**

|         |     |     |     |                 |            |
|---------|-----|-----|-----|-----------------|------------|
| 1 dozen | ... | ... | ... | <b>10s. 9d.</b> | per dozen. |
| 3       | ..  | ... | ... | <b>10s. 3d.</b> | ..         |
| 12      | ..  | ... | ... | <b>9s. 9d.</b>  | ..         |

Three dozen **1s. 1½d.** Daisies generally sell at **1d.** each, or about **£3.** The profit thus equals **£1 11s.** on an outlay of **£1 8s. 6d.,** or above **100** per cent. profit.

A Unique Display to draw Crowds to the Window with 1 Gross **13½d.**

## 10 Daisies in each box, 7½d.

Generally commands full price; Minimum cutting price, **7d.**

**5s. 8d.** per dozen.

### TERMS

{ Net Quarterly Account.  
2½ per cent. cash one month.  
7½ per cent. for cash enclosed with order.

Cash, or Satisfactory References with First Order. CARRIAGE PAID.

Any Retailer selling DAISY below the minimum cutting prices will be refused supplies, either direct from us or through the Wholesale houses. DAISY is protected by the Proprietary Articles Trade Association, London.

**Wires: "DAISY LEEDS." Half cost allowed.**

Trade Mark, Wrapper, Box, and Label protected by upwards of 20 Registrations, &c.

**"DAISY,"** Ltd., Faraday Works,  
**LEEDS.**

Telephone 1990. Telegrams: "DAISY LEEDS."

Councillor WORMALD, Director. THOS. PEARSON, F.R.G.S., Secretary. JOHN R. ELLIS, Governing Director.

## XMAS DISPLAYS.

DAISY, LIMITED, respectfully remind their Customers that Christmas is now not far away, and, to avoid disappointment, it will be advisable to place their orders early for our unique displays.





EDME  
EXTRACT OF MALT

GUARANTEED  
HIGHEST  
DIASTASIC  
STRENGTH

**EVER RELIABLE** HAS NEVER  
CRYSTALLIZED

**HOLDS AN IMPREGNABLE POSITION**

**EDME MALT EXTRACT AND ALL COMBINATIONS.**

THE LANCET says:—"This preparation proved to be a highly concentrated and active malt essence. It possesses a rich malty flavour, and acts POWERFULLY upon starch, CONVERTING IT RAPIDLY INTO MALTOSE. It is, therefore, well adapted for use as an aid to the digestion of starchy foods, whilst furnishing also important food constituents."

THE BRITISH MEDICAL JOURNAL says:—"It is of pale amber colour and good consistency. When tested with gelatinised starch it converted FIVE TIMES ITS OWN WEIGHT IN FIVE MINUTES at a temperature of 100° F. This result shows that the Extract has a VERY HIGH DIASTASIC POWER, and it therefore would be extremely efficacious as a medicinal agent where the use of an aid to the digestion of amylaceous food is indicated."

THE PHARMACEUTICAL JOURNAL says:—"This preparation is one which is not as well known to the retail chemist as some that could be mentioned, but examination of it shows that it POSSESSES CLAIMS WHICH ENTITLE IT TO EXTENDED PATRONAGE. The result of the test proves the Extract to be of UNUSUALLY HIGH DIASTASIO VALUE, and it is equally satisfactory in other respects."

**THE ENGLISH DIASTASIC MALT EXTRACT CO., LTD.**

Edme Works & Laboratories, Mistley, Essex.

MANAGING DIRECTORS—J. E. J. JOHNSON, F.I.C., F.C.S.; EGERTON S. FREE

London Offices—5 NEW LONDON ST., E.C.

TELEGRAMS—"EXTRACT MISTLEY."  
"BRITANIOS LONDON."

TELEPHONES—2096 AVENUE.  
2 MANNINGTREE



Three Minutes' Walk from Aldersgate St. Station.

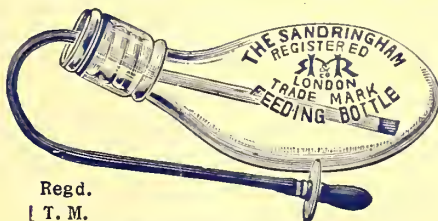
REGISTERED

# MAY, ROBERTS & CO., LONDON.

Telegraphic Address: "FEEDING BOTTLES LONDON."  
Telephone No. 889, Holborn Exchange.



## THE SANDRINGHAM FEEDING BOTTLE.



Regd.  
T. M.

WHITE, Screw Glass Stoppers.

Each in box, two brushes.

|                                    |          |
|------------------------------------|----------|
|                                    | Per doz. |
| Black fittings .. .. .             | 4 3      |
| Spare black fittings .. .. .       | 2 -      |
| Spare bottles .. .. .              | 1/3      |
| Spare stoppers and washers .. .. . | 9d.      |

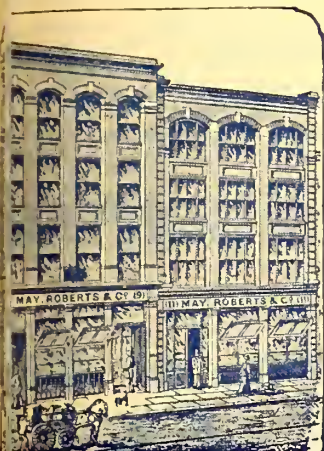
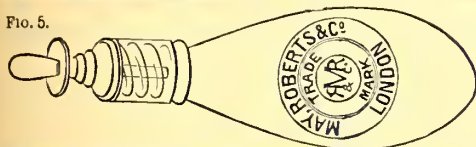


FIG. 5.



|                                                                          |    |          |      |
|--------------------------------------------------------------------------|----|----------|------|
| White Glass, moulded, fitted with screw glass stopper, black indiarubber | .. | per doz. | 6/-  |
| each-bite teat, bone shield, with brush, complete in box ..              | .. | "        | 1/11 |
| bottles .. .. .                                                          | .. | "        | 1/3  |
| stoppers and washers .. .. .                                             | .. | "        | 1/3  |

FIG. 1.



|                                                                         |    |          |     |
|-------------------------------------------------------------------------|----|----------|-----|
| White Glass, hand-made, fitted with black teat and boxwood-topped cork, | .. | per doz. | 6 9 |
| with brush, complete in box, three sizes .. .. .                        | .. | "        |     |



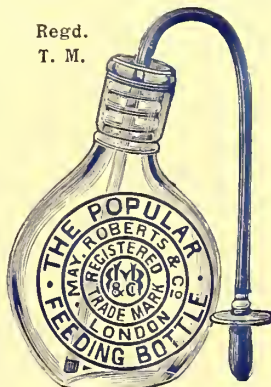
gd.  
M.

### THE POPULAR (6d.).

GREEN GLASS, Boxwood Tops.

|                                        |            |
|----------------------------------------|------------|
|                                        | Per gross. |
| Black fittings, 1 gross in cask (free) | 25/-       |
|                                        | Per doz.   |
| Black fittings, 1 dozen in box ..      | 2 3        |
| Black fittings, each in box ..         | 2 8        |
| Spare black fittings .. .. .           | 1 4        |
| Spare green bottles .. .. .            | 10d.       |
| Spare white bottles .. .. .            | 1/-        |

If with White instead of Green Bottles,  
2d. per dozen extra.



Regd.  
T. M.

### THE POPULAR (6d.).

GREEN, Screw Glass Stoppers.

|                                        |            |
|----------------------------------------|------------|
|                                        | Per gross. |
| Black fittings, 1 gross in cask (free) | 31/-       |
|                                        | Per doz.   |
| Black fittings, 1 dozen in box ..      | 2 9        |
| Black fittings, each in box ..         | 3 2        |
| Spare black fittings .. .. .           | 1 7        |
| Spare green bottles .. .. .            | 1 1        |
| Spare white bottles .. .. .            | 1 3        |
| Spare stoppers and washers, green      |            |
| or white .. .. .                       | 9d.        |

If with White instead of Green Bottles,  
2d. per dozen extra.



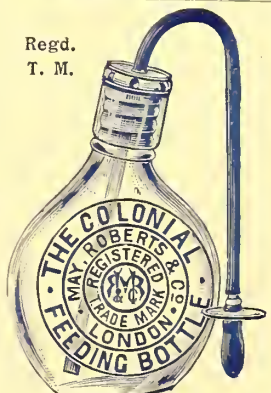
gd.  
M.

### THE COLONIAL (6d.).

GREEN GLASS, Boxwood Tops.

|                                        |            |
|----------------------------------------|------------|
|                                        | Per gross. |
| Black fittings, 1 gross in cask (free) | 25/-       |
|                                        | Per doz.   |
| Black fittings, 1 dozen in box ..      | 2 3        |
| Black fittings, each in box ..         | 2 8        |
| Spare black fittings .. .. .           | 1 4        |
| Spare green bottles .. .. .            | 10d.       |
| Spare white bottles .. .. .            | 1/-        |

If with White instead of Green Bottles,  
2d. per dozen extra.



Regd.  
T. M.

### THE COLONIAL (6d.).

GREEN, Screw Glass Stoppers.

|                                        |            |
|----------------------------------------|------------|
|                                        | Per gross. |
| Black fittings, 1 gross in cask (free) | 31/-       |
|                                        | Per doz.   |
| Black fittings, 1 dozen in box ..      | 2 9        |
| Black fittings, each in box ..         | 3 2        |
| Spare black fittings .. .. .           | 1 7        |
| Spare green bottles .. .. .            | 1 1        |
| Spare white bottles .. .. .            | 1 3        |
| Spare stoppers and washers, green      |            |
| or white .. .. .                       | 9d.        |

If with White instead of Green Bottles,  
2d. per dozen extra.

### POPULAR or COLONIAL (1s.).

WHITE, Earthenware Tops.

|                                                  |          |     |
|--------------------------------------------------|----------|-----|
| Each in box, two brushes, black fittings .. .. . | per doz. | 4/- |
| Spare black fittings .. .. .                     | "        | 2/- |
| Spare bottles .. .. .                            | "        | 1/- |

### POPULAR or COLONIAL (1s.).

WHITE, Screw Glass Stoppers.

|                                                  |          |     |
|--------------------------------------------------|----------|-----|
| Black fittings, each in box, two brushes .. .. . | per doz. | 4 3 |
| Spare black fittings .. .. .                     | "        | 2/- |
| Spare bottles .. .. .                            | "        | 1 3 |

If Fitted with Seamless Teats, 1/6 per gross extra.

ALL ABOVE SUBJECT TO USUAL TERMS.

# MAY, ROBERTS & CO., LONDON.



# Cadbury's Cocoa

**ABSOLUTELY PURE  
therefore BEST**

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure."—*The Analyst*.  
NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

**UNDER EMINENT SCIENTIFIC CONTROL**

# "APENTA"

**THE BEST NATURAL  
APERIENT WATER**



### Trade Prices :

Per Case.

|                  |   |        |                                                                      |
|------------------|---|--------|----------------------------------------------------------------------|
| 25 Large Bottles | - | 20/-   | } Carriage 1d<br>to any Railway<br>Station in the<br>United Kingdom. |
| 50 Small         | „ | - 32/6 |                                                                      |
| 100 Quarter      | „ | - 32/6 |                                                                      |

5 per cent. Discount upon orders for 10 Cases.

**TERMS :—Six Months' Credit from date of Invoice,  
Net Cash.**

The retail prices printed on the labels are 1/3 per large bottle, 1/- per small bottle, and 6d. per quarter bottle.

## THE APOLLINARIS COMPANY, LM.

4 Stratford Place, Oxford Street, London, W.