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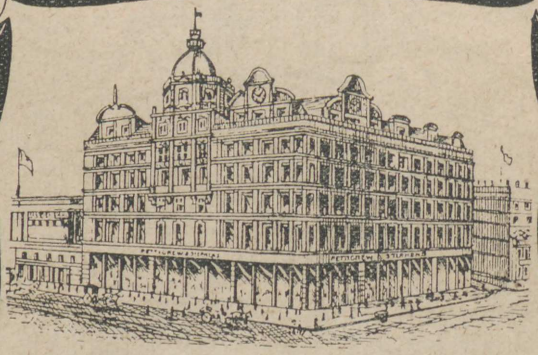

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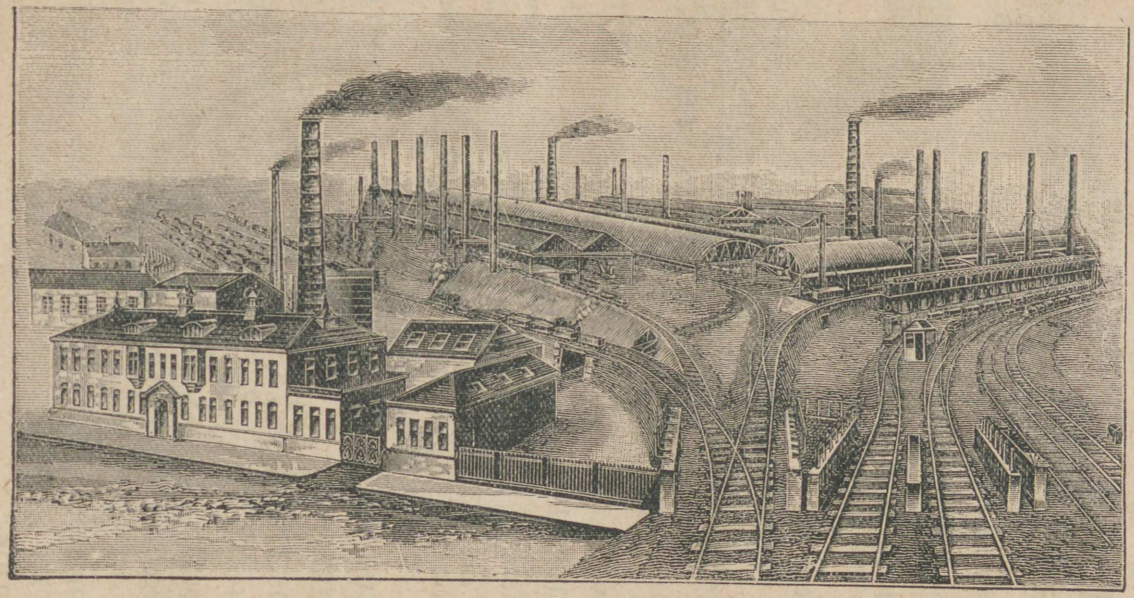

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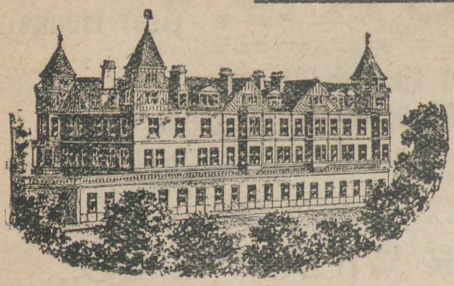

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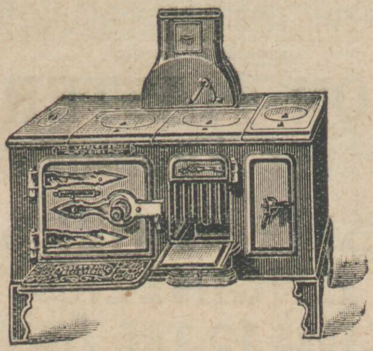

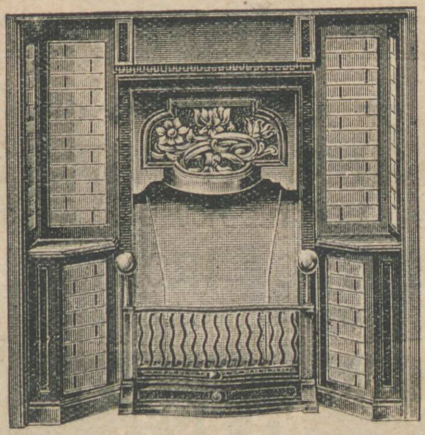

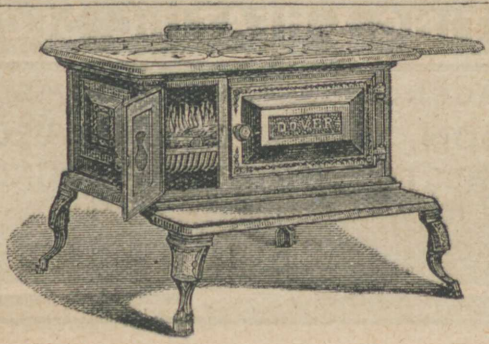

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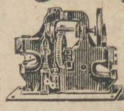

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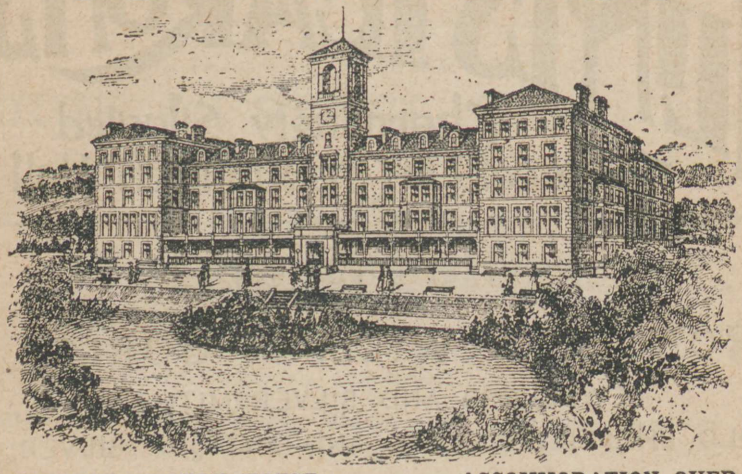

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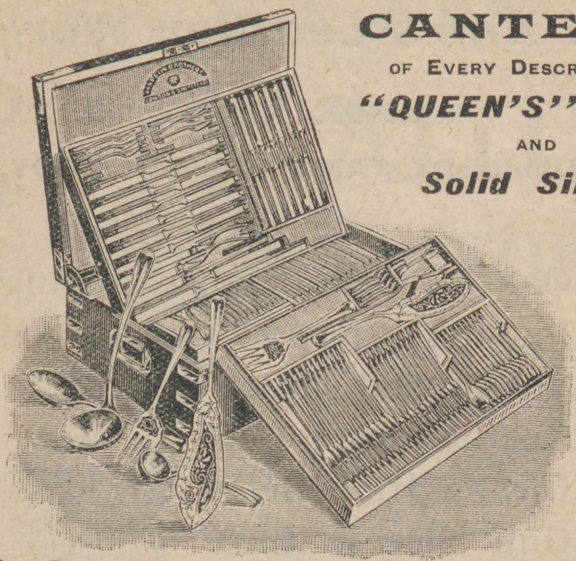

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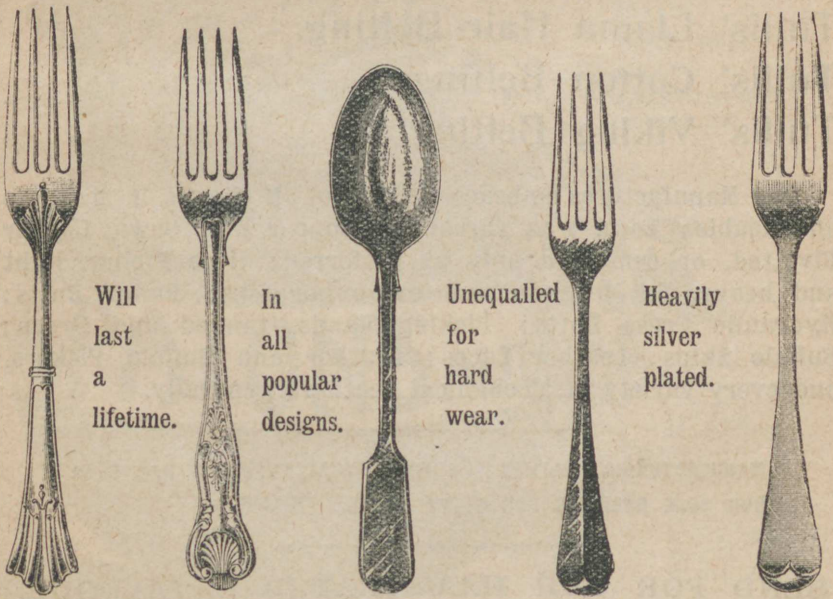

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Waldon, Richard, Royal Princess Theatre
Walker, Alexander, City Chambers
Walker, James A., 95 South Cumberland Street
Walker, John, 74 Bath Street
Walker, Rev. David, Belmont, Kelvinside Gardens
Walker, William W., 92 Great Eastern Road
Walker, George, 31 St. Vincent Place
Walker, John (Limited), Great Wellington Street
Wallace, H., 544 St. Vincent Street
Wallace, J. & W., 281 Gallowgate
Wallace, John, & Sons, Limited, Graham Square
Wallace, Thomas N., Kilhorn, Mansewood, Pollokshaws
Wallace, William, M.B., 25 Newton Place
Wallace, George H., 127 St. Vincent Street
Warr n & Stuart, 115 Wellington Street
Warren, Timothy, 45 West George Street
Watson, Charles P., 33 Gordon S reet
Watson, Gavin B., 355 Duke Street
Watson, George, 98 Bellgrove Street
Wats n, G. L., 53 Bothwell Street
Watson, H., 8 Victoria Crescent
Watson, James, & Co., 7 Royal Bank Place
Watson, John, 205 West George Street
Watson, Sir John, Bart., of Earnock, Hamilton
Watson Sir Kenny, 16 Woodlands Terrace
Watson, Thomas, 9 Belhaven Terrace
Watson, James, & Smith, 40 St. Vincent Place
Watson, John E., 149 St. Vincent Street
Webster, H. Carvick (of Alexander, Ferguson, & Co., Limited) 38 M'Alpine Street
Weir, G. & J., Limited, Holm Foundry, Cathcart
We r, James, & Son, 66 Buchanan Street
Weir & Robertson, 104 West George Street
Weir, Andrew, & Co., Glasgow
Westlands, Laidlaw, & Co., 4 Dixon Street
Wharrie Brothers, 5 Wellington Street
White, David, 12 East Miller Street
White, John, & Sons, Partick
White Thos., & Smith, 7 Gordon St. and 89 Glassford St
White William, 27 Abbotsford Place
Whitson, Robert 2 Marchmont Terrace, Kelvinside
Whitson & Co., 104 West George Street
Whittet, James, 82 Hill Street, Garnethill
Whitton, James, Superintendent of Parks, City Chambers
Wright Robert, 45 Candleriggs
Wilkie, W. H., 412 Dumbarton Road, Partick
Willis, Nelson, & Co., 26 Queen Street
Willock, James, 741 New Dalmarnock Road
Willox, D., 49 Dalmarnock Street
Wilson, Alexander, Hydepark Foundry, Finnieston Street
Wilson Archibald (of Messrs. Jas. Nimmo & Co., Limited) 9 Annfield Place
Wilson, David, 18 Woodside Terrace
Wilson, James, & Son, 38 West George Street
Wilson, John, Edgerton, Shettleston
Wilson, John, M.P. (Govan), Hillhead House
Wilson, John, M.P. (Falkirk Burghs), Airdrie House, Airdrie
Wilson, John, 83 Jamaica Street
Wilson, Matheson, & Co., 42 Glassfo d Street
Wilson, Robert, Norwood, 41 Queen Mary Avenue, Crosshill
Wilson, Walter, 60 Jamaica Street
Wilson, W. H., Clarendon Restaurant 251 Argyle Street
Wilson, John, C.A., 154 St. Vincent Street
Wilson Thos. F., 129 St. Vincent Street
Winning Jas., 1 Prince's Square
Wishart, John 39 St. Vincent Place
Wisley, Wm. M., 29 St. Vincent Place
Woodrow, Alexander, & Son, 75 Glassford Street
Wordie, John, 45 West Nile Street
Wordie, Peter, 45 West Nile Street
Workman, Charles, M.D., Glasgow
Woyka, Geo. E., 18 Albert Road, Crosshill
Woyka, John W., 13 Millbrae Crescent Langside
Wright, Johnston, MacKenzie, & Roxburgh, 150 St. Vincent Street
Wright, Jos ph, 219 Argyle Street
Wylie, Wm. A., 13 Woodside Terrace
Wylie & Lochhead, Limited, 45 Buchanan Street
Wylie, Barr, & Ross (Limited), Parkholm Biscuit Factory Paisley Road
Wyper, James 181 Renfield Street
Young, John, 36 Dalziel Drive, Pollokshields
Young John D., 13 Dundas Street
Young, J. H., & Co., 92 Union Street
Young, Thomas, C.E., 4 West Regent Street
Young, William, Depute Procurator-Fiscal, County Buildings
Young, William, 6 Lancaster Place, S rand, London
Young Robert, 39 Wes t Campbell Street
Young, T. S., & Co., 101 West George Street
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19-25 M'LELLAN STREET, GLASGOW.

PASTRY DEPT.—145 PAISLEY ROAD, WEST.

REGULATIONS FOR EXHIBITORS.

1.—An International Exhibition, under the patronage of His Majesty the King, will be held in Glasgow in 1901.

2.—The Exhibition will be opened early in May, and will continue open for a period of about six months.

3.—The principal objects to be exhibited are comprised in the accompanying Classification, which must not be considered to be exhaustive.

4.—It is not intended to issue any awards.

5.—Charge will be made for space, except in special cases to be determined by the Exhibits and Space Committee. The charge for space inside the building will be 3s. per square foot, with a minimum charge of £5. Whatever vacant space Exhibitors require around their exhibits beyond the usual passages, will have to be paid for. Exhibitors requiring wall-space only must mention the fact when making application, when they will be informed on what conditions it will be granted. Space in the grounds will be let on special terms to be arranged by the Committee, but in such cases plans must accompany the application, and all surface damage must be made good by the Exhibitor on removal. Payment to the extent of 25 per cent. of the amount payable must accompany all applications, and the balance must be forwarded on receipt of the notice of allotment. In no case, however, can the deposit be less than the minimum charge of £5. Exhibits will not be admitted until payment for space has been made in full. Spaces not occupied seven days previous to the opening of the Exhibition will be otherwise allotted, and all payments made in respect thereof absolutely forfeited. Exhibitors will have to pay all expenses of conveying, delivering, arranging, fixing, and removing their exhibits, and also the cost of the erection of all fixtures, screens, and counters required; and they must personally, or by a representative, superintend the transmission, reception, unpacking, installation, and (at the close of the Exhibition) the removal of their goods. The Executive Council reserve to themselves the right of doing whatever may be considered necessary at the expense of the Exhibitor, unless this regulation is strictly complied with. The Executive Council will not be responsible for any loss of exhibits by theft, or for any loss or damage to exhibits, from any cause whatever.

6.—Steam, and power from the main shafting, will be supplied to Exhibitors in the Machinery Hall by the Executive Council free of charge, and subject to special regulations. Exhibitors requiring motive power must fill up the special Application Form which has been prepared for this Section, and which will be supplied by the General Manager upon application. Exhibitors requiring counter-shafting, pulleys, belting, cables, pipes and fittings must supply these at their own expense.

7.—Schedules of Application for Space and for Power may be had from the General Manager, Mr. H. A. Hedley, 36 St. Vincent Place, Glasgow. These must be filled up and returned on, or before, 1st June, 1900. The decision of the Exhibits and Space Committee will be notified as soon as possible after that date.

8.—The nature of the articles, which it is proposed to exhibit, must be fully specified in the Form of Application for Space, and no article which is not clearly described in the Application Form will be allowed in the Exhibition without the special permission of the Exhibits and Space Committee.

9.—The Executive Council reserve the right to refuse any exhibit, without stating any reason for so doing

10.—The Foreign and Colonial Commissioners or Commercial Agents appointed by the respective Governments are invited to communicate with the General Manager. The Executive Council will place at their disposal all information and plans that may be useful to them.

11.—Applicants for space from countries in which no Commissioner or Agent has been appointed will correspond directly with the General Manager.

12.—The Executive Council will endeavour to obtain from the various Railways, Steamship Companies, and Carriers, special terms for the conveyance of Exhibitors' goods to and from the Exhibition, and these arrangements will be communicated to intending Exhibitors.

13.—All packages containing goods for Exhibition must have painted on two sides the distinctive mark 

The name and address of the Exhibitor, and the allotment number of the space must also be given. Labels for this purpose will be supplied to each Exhibitor.

14.—Packages from foreign countries must likewise have painted on two sides the distinctive mark 

They must also be marked in such a way as to show distinctly

the name of the Exhibitor and the country from whence they come, as well as the allotment number of the space

15.—No case, counter, platform, screen, or partition must (without special permission) exceed the following dimensions:—

Show Cases and Partitions, 8 feet above the floor. Counters, 2 feet 6 inches above the floor. Platforms, 1 foot above the floor.

Note.—In the Machinery Section partitions must not exceed the height of the handrails.

16.—Exhibitors may erect railings around their stands, and provide canopies, subject to the approval of the General Manager; these railings and canopies must be within the area of the space allotted. In the case of machinery in motion, it is imperative that it be sufficiently *railed*. Such railings must be of a uniform design, details of which will be supplied on allotment of space.

17.—The flooring must not be altered, removed, or strengthened, except by sanction of the General Manager, and at the expense of the Exhibitor.

18.—Nothing must be erected, placed, or displayed by Exhibitors in such a manner as to obstruct the light, project beyond the space allotted, impede the view along the open spaces, or occasion injury or inconvenience to other Exhibitors.

19.—In order to insure uniformity of decoration, no Exhibitor will be allowed to put up flags, banners, or other kind of decoration without the permission of the General Manager. For covering counters, screens, or partitions, a material will be selected, which may be bought by Exhibitors at the building.

20.—Signs or name-boards, which require to be new and clean, and of a reasonable size, must be approved by, and be placed to the satisfaction of, the General Manager, and must in no case interfere with the lighting. They must be black, with gold letters. Special instructions regarding signs in the Machinery Section will be issued with the allotment letters.

21.—All hand-bills, printed matter, etc., connected with exhibits, placed in or upon stands or cases, or intended for gratuitous distribution, must first receive the approval and authority of the Exhibits and Space Committee, which permission may be withdrawn at any time.

22.—Cases must be unpacked immediately on arrival, and the empty cases removed by the Exhibitors or their agents. The Executive Council cannot accept any responsibility with reference to empty cases, which must be at once removed from the buildings at the expense of the Exhibitors. The Executive Council reserve to themselves the right of doing whatever may be considered necessary, at the expense of the Exhibitors, unless this rule is strictly complied with. The Executive Council will endeavour to arrange with Contractors to undertake the storage of cases at a fixed tariff, particulars of which will be intimated to Exhibitors.

23.—Exhibitors will require to provide all necessary attendance, and to keep their stands and exhibits properly cleaned and in good order during the whole period of the Exhibition. All stands must have the covers removed by 10 a.m., and remain open till 9 p.m. The Executive Council reserve the right to impose a penalty for a breach of this Regulation, and to order the removal of any attendant whose behaviour they consider unseemly.

24.—No Exhibitor will be allowed to transfer any portion of the space allotted to him, or to allow any other than his own duly admitted exhibits to be placed thereon, except by permission of the Executive Council.

25.—All goods must be exhibited in the name of the individual or firm signing the Application Form.

A Coast House Furnished in our Line.

CAULFIELD & CO., 21 Jamaica Street, GLASGOW, and BRANCHES.

100 Pieces for 21/

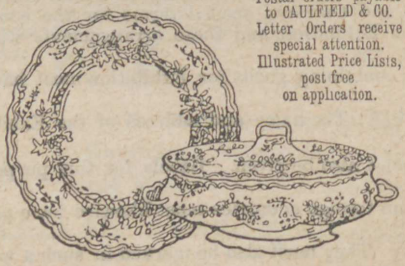
Including

A Complete Tea Set (40 Pieces).

A Complete Toilet or Bedroom Set.

A Dinner Set (for Six Persons).

These alone are worth the Guinea.



Postal Orders payable to CAULFIELD & CO. Letter Orders receive special attention. Illustrated Price Lists, post free on application.

100 Pieces for 21/

In addition we give

A Set of 3 Jugs.

A Useful Teapot.

4 Pie Dishes (Assorted Sizes).

4 Kitchen Bowls.

½ Dozen Egg Cups, and ½ Dozen Tumblers.

Packed Free of Charge. Ask for NEW COAST HAMPER.

26.—Exhibitors will be at liberty to mark the selling price of the articles exhibited, for the information of visitors, to whom they may explain their exhibits; but they must not, unless special permission in writing has been obtained from the Exhibits and Space Committee, invite or allow visitors to purchase goods for removal at the time of purchase. Orders can be taken within the Exhibition, but the goods must be delivered from establishments outside. Special regulations will, however, be made with regard to articles manufactured in the Exhibition.

27.—No exhibits, or part thereof can be removed before the close of the Exhibition without the special permission of the Executive Council. Exhibits not removed within fifteen days after the close of the Exhibition will be warehoused at the cost and risk of the owners, and whatever may remain after three months will be sold by auction, and the proceeds applied to defray expenses.

28.—No goods will be received prior to November, 1900, without special permission nor after 15th April, 1901; but prior arrangements may be made for motors, boilers, or any exhibits requiring under-building.

29.—Special care will be required by the Executive Council, who may make special regulations, in cases where fire or gas is used by Exhibitors, and a responsible Officer will be appointed to carry out the injunctions of the Council in this respect. Exhibitors will require to effect their own insurance on their exhibits.

30.—No explosives, or any substance, which, in the judgment of the Executive, are dangerous, will be admitted, but they may be represented by models.

31.—Spirits, oils, corrosive substances and generally all substances which might spoil other articles or inconvenience the public, can only be exhibited in solid and suitable vessels.

32.—The Executive Council reserve to themselves the right of examining or testing any of the exhibits. If any damage or injury shall be occasioned during the Exhibition by any exhibited machine, implement, or article, to any visitor or other person, then the Exhibitor to whom such machinery, implement, or article may belong shall be responsible for such damage or injury; and in the event of any claim being made against the Council in respect of such damage or injury, then the Exhibitor shall indemnify and hold harmless the said Council from or against all actions, suits, expenses, and claims on account or in respect of any such damage or injury which may be so caused.

33.—No article exhibited may be copied, photographed, drawn, or reproduced in any manner, without the special permission of the Exhibitor and of the Executive Council.

34.—Passes to the Exhibition will be granted to Exhibitors, and to a reasonable number of attendants. If these passes be used by any but those to whom they are issued, they will be immediately cancelled.

35.—The Executive Council reserve to themselves the sole right of compiling and printing a Catalogue of Exhibits, under regulations which will be duly notified.

36.—The right to alter, amend, add to, or cancel any of these Rules, and to grant relaxation from them in individual cases, is reserved by the Executive Council.

37.—All who become Exhibitors shall be held by so doing to signify their compliance with the whole of these Regulations, together with such other Regulations as the Executive Council may issue from time to time.

38.—The Executive Council reserve the right to remove the exhibits of any one who does not conform to the Regulations.

39.—The Executive Council will not be responsible for loss or damage occurring from any cause whatsoever to any exhibit or other property belonging to any Exhibitor or any other person.

GREAT SOUTHERN AND WESTERN RAILWAY.

Direct Route to PLACES of INTEREST in the South and West of Ireland.

COMBINED RAIL AND HOTEL TICKETS.

KILLARNEY, CARAGH LAKE, WATERVILLE, and LAHINCH.
For Scenery, Fishing, Shooting, & Golf.
KILKEE, QUEENSTOWN, YOUGHAL, DUNGARVAN, and TRAMORE, for Boating, Bathing, and Golf.
Band Promenades, etc., in the Summer Months.

PARKNASILLA, VALENTIA ISLAND, GLENGARRIFF, and BLARNEY, have a Climate suitable for Invalids, and Scenery for the Tourists.
Direct Route from South and West of England *via* New Milford, Waterford or Cork to Clare, Galway, Connemara, Sligo, and the North.

FAST EXPRESS CORRIDOR TRAINS to PLACES of INTEREST during Summer Months.

FIRST-CLASS HOTELS
Under the Management of the Company at
Limerick Junction, Killarney, Parknasilla, Kenmare, Caragh Lake, and Waterville.

Full particulars as to **FARES** and **HOTELS**, sent by return of post on application to the Superintendent of the Line, Kingsbridge Station, Dublin; Messrs. Bullock & Co., 22 Lime Street, Liverpool; Irish Railways Office, 2 Charing Cross, London; Messrs. Thomas Cook & Son, Head or District Offices; Messrs. H. Gaze & Sons, Head or District Offices.

Complimentary List.

The Executive Council desire to thank the following Firms and Individuals for services generously rendered to the Exhibition:—

BANK AND TELEPHONES.

Clydesdale Bank, Ltd., 36 St. Vincent Place, Glasgow.

Corporation of Glasgow, Telephone Department.

National Telephone Co., Ltd., Royal Exchange Buildings, Glasgow.

INSURANCE.

Engine, Boiler and Employers' Liability Insurance Company, Ltd., 4 West Regent Street, Glasgow.

Vulcan Boiler Insurance and General Insurance Company, Ltd., 159 Hope Street, Glasgow.

Scottish Boiler Insurance and Engine Inspection Company, Ltd., 111 Union Street, Glasgow.

DECORATIONS.

Acme Tea Chest Company, Ltd., Glasgow Steel Works, Polmadie, Glasgow.—Three-ply Veneer Panelling for Walls; Door and Shutter Panels, fixed to Corridor of Concert Hall, partly finished with Moulding and partly without.

Adam, Stephen, & Son, Glass Stainers, 121 Bath Street, Glasgow.—Stained Glass in Vestibule at Grand Entrance and Industrial Hall.

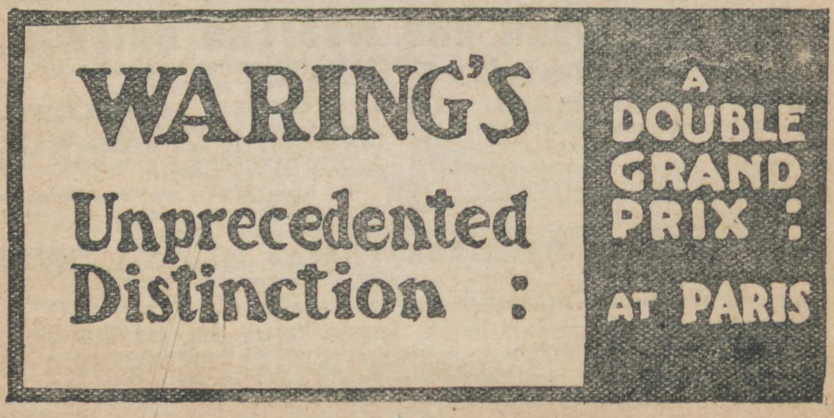
British and Italian Mosaic Co., Ltd., 342 St. Vincent Street, Glasgow.—Roman Mosaic on Floor of Vestibule at Grand Entrance of Industrial Hall.

Carlton, Charles, & Son, 189 St. Vincent Street, Glasgow.—Decorations at the Sandyford Street entrance.

Doulton & Co., Ltd., Lambeth Pottery, London, E.C.—Slab Mosaic artistically coloured Panel in Parian-ware, over the Piazza of the Exhibition, depicting the figure of Progress, seated on a throne—on her left, the latest types of battleships floating on the broad waters of an estuary,—on her right, numerous factories.

Galbraith & Winton, 129 St. Vincent Street, Glasgow.—White Pentelikon Marble Steps for the Piazza up to the Peristyle; also Panel of Coloured Marble from Skyross Quarry, Greece, on the outer wall, west side, of Royal Reception Rooms. The marble is supplied by Marmor (Ltd.), 18 Finsbury Square, London, E.C., from their Greek Quarries.

Haddow, Forbes & Co. (Staffordshire Tileries Co.), 147 Bath Street, Glasgow.—Marble Floor and Tiles with Painted Panels on Dado of Vestibule (East Entrance to Concert Hall). Marmor and other Tilings at Model Farm Dairy. (See Advt., page 362.)



M'Culloch & Co., 152-154 West Regent Street, Glasgow.—Stained Glass in Corridor from Grand Avenue to Art Galleries.

Meikle, W., & Sons, 19-21 Wellington Street, Glasgow.—"Verresco" Decoration, Stained Glass Windows and Doors, Industrial Hall.

Millar's Karri and Jarrah Forests, Ltd., 72 Bishopsgate Street (within), London, E.C.—Karri and Jarrah Lining and General Fitting of President's Office. Temperley's Patent Wire Woven Australian Hard Wood Paving (460 yards) at the Sandyford Street entrance to the Exhibition.

Orr, John, & Sons, 101 Wellington Street, Glasgow.—Painting of Exhibitors' Club.

Paterson, Oscar, & Thomson, 118 West Regent Street, Glasgow.—Stained Glass in Royal Reception Rooms.

Wall Paper Manufacturers, Ltd., Anaglypta Branch, Darwen.—Royal Arms Frieze in Concert Hall; illustrated by an English Lion, Scotch Lion, Irish Harp, and Prince of Wales Plume Shields, interwoven with the Rose, Shamrock, and Thistle.

FIRE EXTINGUISHING PLANT.

Corporation of Glasgow, Fire Department.

Glenfield & Kennedy, Ltd., Kilmarnock.—Fire Hydrants with Hose, Hand Pipes, Nozzles and Couplings complete. (See Advt., page 277.)

London Fire Appliance Co. (W. B. Dick), Glasgow.—6 Fire Extinguishers.

Miller, Wm., 212 St. Vincent Street, Glasgow.—6 Six Gallon Patent Chemical "Concussion" Fire Extincteurs. (See Advt., page 333.)

Shand, Mason & Co., 75 Upper Ground Street, Blackfriars Road, London.—Two Powerful "Double Vertical" Steam Fire Engines, capable of discharging respectively, 450 Gallons and 350 Gallons per minute. Patent Shand-Mason Horse Fire Escape. Smaller Fire Engines and Escapes. Portable Fire Appliances. Hose of various kinds, and other Fire Brigade Apparatus.

FURNISHINGS AND FITTINGS.

Bailey, W. H., & Co., Ltd., Albion Works, Salford, Manchester.—Turnstiles throughout the Exhibition.

Bostwick Collapsible Gate and Shutter Company, Ltd. (Agent, W. Pottier), 93 Hope Street, Glasgow.—Collapsible Gates to Entrance Doors, Tower Lift, and Entrance to Concert Hall.

Burroughes & Watts, Sauchiehall Street, Glasgow.—Billiard Table in Exhibitors' Club.

Chubb & Sons' Lock and Safe Co., Ltd., 128 Queen Victoria Street, London, E.C.—Chubb's Patent Burglar and Fire-resisting Safes and Segment Bolt Locks throughout the Exhibition.

Dove, John, Mail Cart and Invalid Carriage Manufacturer, 31 St. Andrew's Street, Glasgow.—Bath Chairs in wicker and wood of the latest design for use of Visitors in the Exhibition. See Stall 814, Industrial Section, Class IV.

WARING'S
Furnitvre and Decoration:
LONDON
LIVEPOOL
MANCHESTER
& PARIS

Entwisle & Kenyon, Ltd., Accrington, Lancashire.—"Ewbank" Carpet Sweepers in use throughout the Exhibition.

Gardner, A., & Son, 36 Jamaica Street, Glasgow.—Linoleum, Mats, Carpets, Easy Chairs, Small Chairs, Tables, Hall Furniture, etc., for Exhibitors' Club, and part of the Furniture and Mirrors for Girls' Club.

Guthrie, J. & W., & Andrew Wells, Ltd., 237 West George Street, Glasgow.—Stained Glass. In Corridor leading to Art Galleries off Main Avenue, five windows—Centre window ("The Coming of St. Mungo," 580), left window ("Henry VIII. and Queen Elizabeth"), right window ("Mary Queen of Scots and King Edward VI."), two outer windows, replicas of old heraldic work. Stained and Leaded Glass in 7-light window in North Pavilion in Arts and Crafts Section; three Centre Lights, replicas of old glass and pictures after Van der Goes and Botticelli; and four Outer Lights of ornamental glass.

"Holophane," Ltd., Wardrobe Chambers, 146A Queen Victoria Street, London, E.C.—Holophane Patent Light Diffusing Globes fitted to Bracket and Pendant Lights in the Concert and Industrial Halls.

Folding Gate Company, Ltd.—93 Couper Street, Glasgow.—Five Double Leafed Collapsible Gates for Sandyford Street, Gray Street, and Dumbarton Road exits.

Keith, James, & Blackman Co., Ltd., 162 Hope Street, Glasgow.—Electric Ventilating Fans in Restaurants.

Lewis & Co., Ltd., 3 Lothbury, London, E.C.—Grand Concert Organ. (See No. 1004.)

Luke, F. R. & C. H. & Co., 261 West George Street, Glasgow.—Unfading Green Slates on Ladies' Lavatory in Grounds. (See Advt., page 361.)

Shanks & Co., Ltd. (Barrhead), 26 West Nile Street, Glasgow.—Lavatories and Sanitary Fittings throughout the Exhibition and Grounds: also Lavatories in the Royal Reception Rooms. (See Advt., page 68.)

The Shannon, Ltd., 95 Bath Street, Glasgow.—Shannon Letter and Document Filing Cabinets.

Staffordshire Tileries Co., 147 Bath Street, Glasgow.—Marble Floor and Tiled Walls at Entrance of Grand Concert Hall. Tile and Marmor Work at Model Farm and Dairy. (See Advt., page 362.)

Stewart, Arch., & Co., 42 and 48 Union Street, Glasgow.—Furniture in Press Pavilion and Engineer's Office.

Tynecastle Canvas Co., Albert Works, Tynecastle, Edinburgh.—"Tynecastle" Canvas and Vellum Decoration at Entrance to the Fine Art Galleries from the Grand Avenue.

Williams Typewiter Company for Europe, 104 Newgate Street, London, E.C., and 49 Bothwell Street, Glasgow.—One No. 4 Williams Typewriter for use in Engineer's Department.

Wilson, John C., & Co., Ltd., Gorbals Brass and Bell Foundry, 99 Portugal Street, Glasgow.—Bell with Bell Mountings.

Wylie & Lochhead, Ltd., 45 Buchanan Street, Glasgow.—Royal Reception Rooms. (See Advt., page 224.)

Yost Typewriter Co., Ltd.—Linotype Typewriter in Press Pavilion. (See Advt., page 42.)

IN THE GARDENS AND OUTSIDE.

Alberts & Co., G. J., Boskoop, Holland.—Collection of Hollies and Azaleas in East Gardens.

Austin & M'Aslan, Nurserymen and Seedsmen, 89 Mitchell Street, and Cathcart Nurseries, Glasgow.—Collection of Ornamental Conifers and Deciduous Trees and Shrubs, also Beds of Flowers around Fountain in North Gardens. Grass Seeds for Lawns and Terraces in Grounds East of Centre of Art Galleries. Concentrated Artificial Manure for Lawns.

Brown Brothers, Meadowbank Nursery, Uddingston.—Collection of Summer and Early Autumn Chrysanthemums in North Gardens.

Campbell, Matthew, Nurseryman and Florist, High Blantyre.—Beds of Carnations, Fancy Pansies, and Violas around Stewart Fountain.

Cunningham, Fraser & Co., Nurserymen, Comely Bank Nurseries, Edinburgh.—Collection of Specimen Hollies, Rhododendrons, Ericas, and other plants in West Gardens, North Front of Art Galleries.

Cross, Alexander, & Sons, Ltd., Seedsmen and Chemical Manufacturers, 19 Hope Street, Glasgow.—Special Concentrated Manure for Lawns.

Dickson, Hugh, Royal Nurseries, Belmont, Belfast.—Collection of Rare Ornamental Trees and Shrubs at Press Pavilion.

Leighton, William, Seedsman, 120 Hope Street, Glasgow.—Grass Seeds for Lawns and Terraces West of Centre of Art Galleries.

Main, A. & J., & Co., Ltd., Clydesdale Iron Works, Possilpark, Glasgow.—Wrought Iron Unclimbable Railing, 5′ 6″ high in 9′ Panels, from Clifton Street to Bank Street, Hillhead, dividing the Exhibition Grounds from the West End Park. Also Railing running from the Exhibition to the Sports Ground and in front of the Machinery Hall in Dumbarton Road. Continuous Bar Fencing around Ornamental Plots and Pathways.

Macfarlane, Walter, & Co., Saracen Foundry, Glasgow.—Classic Cast Iron Spray Fountain, rising to a height of 37 feet from a Concrete Basin of 40 feet in diameter. The Central Pedestal contains Twelve Panels, illustrating, by Zodiacal signs and appropriate flora, the months of the year. Surrounding the Pedestal are life sized Allegorical Figures of Art, Science, Literature, and Commerce, modelled by Mr. D. W. Stevenson, R.S.A., supporting the Upper Basin, from which eight sea urchins, around the rim, spout water from the mouths of fishes. Rising from this level is a Terminal Basin held aloft by four entwined dolphins. (See Advt., page 265.)

M'Dowall, Steven & Co., Ltd., Milton Iron Works, Glasgow.—Bandstand, similar to the Bandstands erected for the London County Council on Thames embankment, and at Battersea Park; and for the Manchester Corporation. Electric Light Pillars for Arc Lamps similar to those supplied to Buxton, Exeter, Aberdeen, Motherwell, etc. (See Advt., page 266.)

Ransomes, Sims, & Jefferies, Ltd., Ipswich.—Ransome's "Patent" Automaton and "Anglo-Paris" Lawn Mowers, adapted for general purposes, small lawns, and cutting grass banks, respectively.

Russell, John, Richmond Nurseries, Richmond, Surrey.—Collection of Ivies in East Gardens.

Samson, W. & T., Nurserymen, 8 Portland Street, and Braehead and London Road Nurseries, Kilmarnock.—Collection of Ornamental Conifers and other Shrubs at Model Farm and Canadian Pavilion. Also, Grass Seed for Lawns.

Shanks, Alex., & Son, Ltd., Dens Iron Works, Arbroath, N.B.—Lawn Mowers and Rollers.

Smith & Simons, Nurserymen and Seedsmen, 36 West George Street and Kennishead Nurseries, Glasgow.—Collection of Ornamental Shrubs West of Cascade in North Gardens, and Grass Seeds for Lawns.

Smith, T., Daisy Hill, Nursery, Newry.—Collection of Rare Ornamental Plants around Irish Pavilion.

Speirs & Co., 125 West Regent Street, Glasgow.—Model Farm Steading buildings built of Composite Wood and Iron—including Bungalow Living House, Cattle Sheds, Granary, Working Dairy, Mixing House, Gig House, Engine Room and Boiler House, Cow House, Calf Pens, Stables, Harness Room, Cart and Implement Sheds, etc. (See Advt., pages 64 and 65.)

Storrie & Storrie, Florists and Seedsmen, 22 and 24 Seagate, and Glencarse Nurseries, Dundee.—Beds of special strains of "Albino" Borecoles, Polyanthuses, Auriculas, &c. In front of Fine Art Galleries.

Thomson, D. W., Nurserymen, 24 Frederick Street and Windlestrawlee Nurseries, Edinburgh.—Collection of Fine Named Hybrid Rhododendrons and Azaleas in front of Bungalow Restaurant, North Gardens.

LIGHTING.

Bon Accord Acetylene Gas Co., 283 King Street, Aberdeen.—Gas Plant, Gas Brackets, and 220 Burners, for Bandstand No. 2, No. 7 Restaurant, and Press Building.

British Aluminium Company, Ltd., London.—The Overhead Wiring for Arc Lighting of Grounds.

British Insulated Wire Co., Prescot, Lancashire.—Electric Cables, Wires, etc., (See Advt., page 301.)

British Schuckert Electric Co., Ltd., London.—Search-light Projector Mirror, 1500 MM. diameter. (See Advt., page 298.)

Corporation of Glasgow.—Electrical Department.

Corporation of Glasgow.—Gas Department.

Corporation of Gasgow, Tramways Department.—Street Switch Box.

Edison-Swan United Electric Light Company, Ltd., Ponder's End, Middlesex, and 153 West George Street, Glasgow.—10,000 Incandescent Lamps, various powers and colours.

Frankenburg, Isidor, Ltd., Greengate, Salford.—Electric Wires.

Home and Colonial Acetylene Gas Co., Ltd., 77 West Regent Street, Glasgow.—M'Conechy's Patent "Royal Standard" Non-Automatic Generators, and Gas Holders, Gas Fittings, etc. Lighting Model Farm and Agricultural Hall. Gas made daily, 12.30 and 4 P.M. M'Conechy's Patents (Automatic and Non-Automatic) have passed the Home Office tests. (See Advt., page 340.)

Kelvin & James White, Ltd., 16, 18, 20 Cambridge Street, Glasgow.—Switchboard controlling the distribution of electricity throughout the Exhibition, and dealing with 5,800 electric horse power. The board is surmounted by an Electric Synchronised Clock, controlled by a regulator at the firm's Stand (927), in the Grand Avenue.

Kitson Lighting and Heating Syndicate, Ltd., Blackfriars, London, E.C.—Kitson System of Lighting by Vaporised Petroleum Oil, in the East Gardens, by lamps of 1000 candle power.

Knox, Alexander, & Son, Wrights and Builders, 17 and 23 George Street, Mile-End, Glasgow.—Ladders of various sizes for Trimming Arc Lamps, etc.

Macfarlane, Walter, & Co., Saracen Foundry, Glasgow.—Cast-iron E. Z. Pillars for holding the Electric Light, and 52 Cast-iron Pillars. (See Adv., page 265.)

Scott-Snell Self-Intensifying Gas Lamp Company, Ltd., 51 Victoria Street, Westminster, London.—Lighting portion of Grounds, North Bank of Kelvin, with Self-Contained High Pressure Gas Lamps.

Welsbach Incandescent Co., Ltd., London.—193 Lanterns and 579 Burners for outside Gas Lighting in North and South Gardens.

Zurich Incandescence Lamp Company, 47 Victoria Street, Westminster, London, S.W.—Incandescence Stern Electric Lamps (250 Volts) for lighting the Industrial Hall, James Templeton & Sons' Kiosk and Restaurants Nos. 2, 3, 5, and 6.

MACHINERY, Etc.,

Including ENGINES, BOILERS, DYNAMOS, MOTORS, AND BOILER PLANT.

Acme Manufacturing Co., Ltd., Glasgow.—Gas Engine for working Boats at Water Chute.

Alley & M'Lellan, Polmadie.—1200 B.H.P. Westinghouse Electric Light Engine, with a Mavor & Coulson Dynamo. (See Advt., pages 220 and 221.)

Babcock & Wilcox, Ltd., 21 St. Vincent Place, Glasgow.—Two Babcock & Wilcox Patent Water Tube Steam Boilers (Land Type), fitted with Patent Steam Superheaters and Chain Grate Stokers, also Babcock & Wilcox Patent Water Tube Steam Boiler (Marine Type).

British Schuckert Electric Co., Ltd., Clun House, Surrey Street, Strand, London, W.C.—Compound Wound Dynamo in Power Station of the Machinery Hall. Schuckert C.C. Series-wound Electric Motor and Controller for Water Chute. (See Advt., page 298.)

Browett, Lindley & Co., Ltd., Sandon Works, Patricroft, near Manchester.—9 inch Stroke Vertical Steam Engine.

Bruce, Peebles & Co., Edinburgh.—200 K.W. Dynamo, with "Belliss" Engine. 150 H.P. Motor to drive second line of shafting.

Carruthers, J. H., & Co.—Two Vertical Compound Boiler Feed Pumps, capacity of each 6000 gallons per hour.

Cochrane, John, Barrhead—100 I.H.P. Horizontal High Pressure Steam Engine, with corliss Valves and Trip Gear for driving first line of Shafting.

Davey, Paxman & Co., Ltd., Engineers, Colchester.—One 650 Brake Horse Power Compound Coupled Horizontal Engine specially designed for Electric Lighting and Traction work. The Engine is of the most modern design, constructed for being driven by Superheated Steam, is fitted with Paxman's Automatic Expansion Gear, and a Special Speed Adjusting Gear, and an arrangement for Forced Lubrication is provided. The Electric Generator is made by The Electric Construction Company, Limited, of Wolverhampton, and is compound wound for 550 Volts 300 kilowatts.

One Paxman Patent "Economic" Boiler 14ft. 6in. long by 8ft. 9½in. diameter, constructed for a working pressure of 160 lbs. per square inch. The Superheater as at present arranged is suitable for adding 300 degrees Fahr. to 8000 lbs. of steam per hour at a pressure of 160 lbs. per square inch.

Edison, Swan & Co., Ltd., Glasgow—200 H.P. Edison Swan Dynamo, and Browett & Lindley Engine.

Glenfield & Kennedy, Ltd., Kilmarnock.—Steam Stop Valves, Expansion Joints, (Fig. C. 101), Straight Way Steam Separators, Automatic Steam Traps, New Pattern Hot Water Meters for measuring Feed Water to Boilers. (See Advt., page 277.)

Green, E., & Co., Ltd., Manchester—Green's Economiser, containing 192 Tubes, with Engine complete. (See Advt., pages 110 and 111.)

Lancaster & Tonge, Ltd., Pendleton, Manchester.—2 in. Steam Traps for Draining Main Steam Piping.

Mavor & Coulson, Ltd., Glasgow—500 B.H.P. Dynamo, with Robey Engine.

Melvin, Thos., & Sons, Charles Street, Glasgow.—Three Water Motors for Organ in Concert Hall.

Olivetti Camillo, Ivrea.—Wattmeters for 500 volts and 250 ampere continuous current for Exhibition Plant.

Penman & Co., Caledonian Iron Works, Strathclyde Street, Glasgow.—Four Lancashire Steam Boilers, 30 feet long by 8 feet diameter. (See Advt., page 271.)

Robey & Co., Ltd., Lincoln—Two Engines, each 90 B.H.P., and fitted with Scott and Mountain Dynamos.

NEW ELECTRIC PASSENGER ELEVATOR.



Mrs. A. D. PHILP,
Proprietress.

PHILP'S COCKBURN HOTEL,

141 BATH STREET, GLASGOW.

ENLARGED, Redecorated, Refurnished. New Electric Elevator. Electric Light in every Room. Quiet; convenient to Steamboats and Stations and within 5 minutes by Electric Tramcar of Exhibition Grounds. **Note.**—Special Terms to Excursion Parties from Friday to Monday, during Exhibition; Boarding Terms to Exhibitors before and after the Exhibition. From 1st Nov., Suite of Public Rooms, 40 Bedrooms, and Stockrooms, with use of Rapid Electric Passenger and Luggage Lift, for Commercial Gentlemen, at most Moderate Rates.

Extensive Accommodation for Marriages, Balls, and Dinners.

Under same Management— **COCKBURN HOTELS:**

BEXHILL-ON-SEA. Sea Front. Facing Bandstand. Between St. Leonards and Eastbourne

LONDON. 9 & 10 Endsleigh Gardens, N.W. (Opposite Euston.) Quiet. Convenient for Ladies, Families, and Business Men. Moderate.

BRIGHTON. Wentworth House, 37 Marine Parade.

Ruston, Proctor & Co., Ltd., Sheaf Iron Works, Lincoln.—High Speed Vertical Compound Steam Engine, coupled direct to a continuous current Dynamo for Electric Lighting and Power Transmission.

Schäffer & Budenberg, 5 Wellington Street, Glasgow.—Pressure Gauge Tableaux for indicating the pressure of the Boilers at the Engineer's Office and in the Engine House. Gun Metal and Cast Iron Flanged Gland Cocks and Gun Metal Plug. (See Advt., page 257.)

Scott, Ernest, & Mountain, Ltd., Newcastle-on-Tyne.—One enclosed Central Valve Steam Engine, coupled direct to a 200 K.W. Dynamo. (See Advt., page 300.)

Sisson, W., & Co., Gloucester.—125 B.H.P. Engine, and Clarke, Chapman & Co.'s Dynamo.

Stirling Boiler Company, Ltd., Edinburgh.—Two Water Tube Boilers, one of which is fired with a Vicar's Mechanical Stoker and the other by means of Gas from a producer, lent by Mason, W. F., & Co., of Manchester. (See Advt., page 135.)

Sturtevant Engineering Co., Ltd., Glasgow—Induced Draught Plant, including Fan and Steam Engine for Lancashire Boilers.

Veritys, Ltd, Glasgow.—Two 3 H.P. Lundell Motors to drive Organ in Concert Hall.

Weir, G. & J., Ltd., Cathcart—Two vertical Boiler Feed Pumps, capacity 3,600 gallons per hour. (See Advt., pages 232 and 233.)

Wild, J., & Co., Post Office Building, Middlesborough.—Pneumatic Pyrometer with Autographic Recording Gauge, Gas Composition-Recording Pressure Vacuum Gauge.

Willans & Robinson, Ltd., Rugby—1200 I.H.P. Engine, with Crompton Dynamo.

Wright, Joseph, & Co., Tipton, Staffordshire—Two Berryman Patent Heaters, and Excelsior Patent Heaters with Filters and Oil Separators.

MISCELLANEOUS MACHINERY,

FITTINGS, BELTS, OILS, AND ACCESSORIES.

Atkinson, L. B. & C. W., Testing Works, Cardiff.—12 Ammeters and 6 Voltmeters, for the Exhibition Plant.

Auld, David, & Sons, Rochester Street, Glasgow.—9-inch and 10-inch Reducing Valves combined with Safety Valves. (See Advt., page 249.)

Carrick, James, & Son, Ltd., Edinburgh & British Schuckert Electric Co., Ltd.—3-Ton Crane for Machinery Hall Goods Yard.

Dick, R. & J., Greenhead Works, Glasgow.—Belts for Water Chute Gearing.

Dick, W. B., & Co., Clyde Oil Works, Crownpoint Road, Glasgow.—Engine and Machinery Oils.

Easton, Anderson & Goolden, Ltd., London.—Electric Lifts for Towers in Industrial Hall.

Frictionless Packing Company, Ltd., Manchester (Agent, David Gray, 77 West Nile Street, Glasgow).—Belt for Water Chute Shafting.

Grafton & Co., Vulcan Works, Bedford.—Five Ton Steam Shunting Crane for Machinery Hall. The same crane handled 200,000 tons of exhibits of all nations at the Paris Exhibition, 1900, and secured a Gold Medal, the highest award.

Gresham & Craven, Ltd., Orsdal Lane, Salford, Manchester.—No. 12 Gresham's Patent Self-acting Injector for feeding Exhibition Boilers. Capacity, 2,860 gallons of water per hour at working pressure of 100 lbs. to square inch.

Haigh, W. B., & Co., Ltd., Oldham.—M'Dougall's Patent Steam Traps and Steam Dryers.

Hendry, James, 252 Main Street, Bridgeton.—Laminated Belt for Line of Shafting driven by Messrs. D. Bruce Peebles & Co.'s Motor.

Holden & Brook, Ltd., Engineers, Sirius Works, West Gorton, Manchester—Pattern 2-inch High Pressure Steam Trap, and Pattern 2-inch Flush Steam Trap No. 8. Pattern 8 "Sirius," Pattern "One Movement" Self-adjusting Injection and High Pressure Steam Traps for Davey, Paxman & Co.'s Boilers.

Leith Cardle & Co., 29 Eaglesham Street, Glasgow.—20 ton Champion Double Worm Pulley Block (Leith & Matthew's Patent).

Macfarlane, Walter, & Co., Saracen Foundry, Glasgow—Stable and Byre Fittings in Messrs. Speirs & Co.'s Model Farm Buildings. Also three Iron Spiral Staircases. (See Advt., page 265.)

M'Geoch, Wm., & Co., Ltd., of Glasgow and Birmingham.—Double Pole Main Switches.

M'Lellan, George, & Co., Glasgow.—"Composite" High Pressure Packing for Engines, and Patent Challenge Joints for Steam Pipes. (See Advt., page 273.)

Mason, W. & F., Ltd., Manchester.—Gas Producers.

Newton & Nicholson, South Shields.—Taylor's Patent Corrugated Metallic Packing Rings for Steam Exhaust and Feed Water Pipes. (See Advt., page 250.)

Pickerings, Ltd., Stockton-on-Tees.—Test Load Pickering Lighting Blocks.

Poth, Hille, & Co., 27 Leadenhall Street, London, E.C.—Empress Self Vulcanising Jointing for high pressure Steam Pipes.

Pooley, Henry, & Son, Ltd., 22 Queen Street, Glasgow.—(1) Pooley's Patent Self-Contained Cart and Cattle Weighbridge; (2) Pooley's Equal Balance Top and Bottom Sack Weighing Machines; and (3) Potato Bag Weighing Machine.

Reid, Macfarlane & Co., Ltd., 60 Hydepark Street, Glasgow—Non-conducting Materials for Boilers and Steam Pipes. (See Advt., page 270.)

Ross, R. G., & Son, Greenhead Engine Works, Glasgow.—Patent Speed-Reducing Gear in connection with the Exhibition Organ, also set to work the Water Chute. (See Advt., page 230.)

Royles, Ltd., Manchester.—Steam Traps and Feed Water Heaters suitable for pure and foul water.

Stewart, A. & J., & Menzies, Ltd., Clyde Tube Works, Coatbridge.—High and Low Pressure Main Steam Pipes for Boilers. (See Advt., page 217.)

Tullis, John, & Son, St. Ann's Leather Works, John Street, Bridgeton, Glasgow.—Leather Driving Belt for line of Shafting driven by Cochrane's Horizontal Engine. (See Advt., page 18.)

Vacuum Oil Company, 4/7 Victoria Street, London, S.W.—Oil for lubrication of Machinery, also Oil, Cabinets, and Filters.

Watson, Laidlaw & Co., Glasgow.—One line of 2⅞ diameter Shafting, 375 feet long, with Bearings, Brackets, and Main Driving Pulley; and one similar line of Shafting, 475 feet long.

Willcox, W. H., & Co., 23 Southwark Street, London.—Cylinder Oil for Electric Light Plant.

Willits, Chas., Jun., Cradley Heath.—Pulley Blocks.

Wimhurst, Holliek & Co., Ltd., Essex—3-Ton Electric Crane for Industrial Section.

MISCELLANEOUS.

Avery, W. & T., Ltd., Dumbarton Road, Partick, Glasgow.—Avery's Strong Portable Platform Weighing Machine, mounted on wheels and one set Stand Scales for the purpose of Weighing Dutiable Goods by the customs authorities. Also Avery's Self-contained Improved Three-lever Waggon Weighing Machine, with a capacity for weighing 20 tons, fitted with no loose weight steelyard, Patent Steel Notched Protection Bar and Quadrant Relieving Apparatus, enabling the machine to carry a load of 40 tons when disengaged without injury to the working parts. In use at railway siding to the Machinery Hall for weighing coal conveyed to the Exhibition boilers.

Boyd, James, & Sons, Paisley.—"Press Building," Hot Water Heating Apparatus in Concert Hall and Conservatory attached to gable of Kelvingrove Museum.

Barr & Stroud's Patents, 250 Byres Road, Glasgow, W.—One Regulating Clock and Fourteen Electric Clocks together with batteries, Junction Boxes and Wiring.

Corporation of Glasgow.—Police Department.

Duthie, James, & Co., 129 St. Vincent Street, Glasgow, and 42 Great Brunswick Street, Dublin.—Duresco Petrifying Liquid and Silicate White Oil Paint for Exhibition Buildings. (See Advt., page 336.)

Edward & Sons, 92 Buchanan Street, Glasgow.—12 Dial Clocks.

London Fire Appliance Co., Glasgow.—20 Gas Stoves.

Main, A. & J., & Co., Ltd., Clydesdale Iron Works, Possilpark, Glasgow.—Exhibitors' Club Bungalow.

Main, R. & A., Ltd., Argyle Works, Kinning Park, Glasgow.—Six "Main" Gas Cooking Stoves. (See Advt., page 340.)

M'Dowall, Steven & Co., Ltd., Milton Iron Works, 142 North Woodside Road, Glasgow.—Wrought Iron Railing on Balconies and Stair, North face of Dome; Railing on stair and balconies, Machinery Hall and Band Stand. (See Advt., page 266.)

Orenstein & Koppel, Bush Lane House, Cannon Street, London, E.C.—Portable Railways through Buildings.

Pennycock Patent Glazing Co., Ltd., 11 West Regent Street, Glasgow.—Glazing on roof of bridge over Dumbarton Road.

Spiers, Gibb & Co., Paisley—Fire, Facing, and Enamelled Bricks for supporting and building in the Babcock & Wilcox Boilers.

Stevens & Sons, New City Road, Glasgow.—Lattice Posts.

Wallace, John, & Sons, Graham Square, Glasgow.—Farm Implements. (See Class 1, "Farm Steadings.")

Willetts, Charles, Jun., Cradley Heath.—Two Hydraulic Lifting Jacks (10 Tons).

SHIPPING COMPANIES, for placing Exhibition Literature and Publications in the saloons of their vessels:—

"Allan" Line and "State" Line of Steamers, Glasgow.
Burns, G. & J., Glasgow.
Caledonian Steam Packet Company, Gourock.
Carron Line, Carron, Stirlingshire, and Glasgow.
Clyde Shipping Company, Glasgow.
Cunard Steam Ship Company, Ltd., Liverpool.
Elder, Dempster & Co. ("Beaver" Line), Liverpool.
Glasgow and Bristol Channel Steamers, Glasgow.
Glasgow and South-Western Railway, Greenock.
Glasgow and Highland Royal Mail Steamers (David MacBrayne, Glasgow.)
Ismay, Imrie & Co., Liverpool.
Laird Line, Glasgow.
Lamont, Henry, Glasgow.
London and Edinburgh Shipping Company, Leith.
Messageries Maritimes, Havre.
North British Steam Packet Company, Craigendoran.
Orient Company, Ltd., London.
Peninsular and Oriental Steamship Company, Ltd., London.
Rothesay and Kyles of Bute Steamers, Glasgow.
Union-Castle Mail Steamship Company, Ltd. (Managers—Donald Currie & Co., London).

The following **FIRMS AND SHIPPING COMPANIES** for arranging special rates to and from the Exhibition, from all parts of the world:—

Allan, J. & A., "Allan and State Lines," Glasgow.
Ayr Steam Shipping Company.
Bruce, John, & Co., Glasgow.
Burns, G. & J., Glasgow.
Burrell & Son, "Royal Hungarian Sea Navigation Company, 'Andria,' Limited," Glasgow.
Carron Company, Glasgow.
Cayzer, Irvine & Co., Glasgow.
Clyde Shipping Company, Glasgow.
Cormack, James, & Co., Leith.
Currie, James, & Co., Leith.
Donaldson Bros., "Donaldson Line," Glasgow.
Gibson, Geo., & Co., Glasgow.
General Steam Navigation Company, London.
Glasgow and Dublin Steam Packet Company, Glasgow.
Glen & Co., Glasgow.
Henderson Bros., "Anchor Line," Glasgow.
Henderson, P., & Co., Glasgow.
Hogarth, Hugh, Glasgow.
Hutchison, J. & P., Glasgow.
Laird, A. A., & Co., Glasgow.
Lamport & Holt, Liverpool.
Lamont, H., & Co., Glasgow.
Langlands, M., & Son, Glasgow.
MacBrayne, David, Glasgow.
MacIver, C., & Co., Glasgow.
Maclay & M'Intyre, Glasgow.
Raeburn & Verel, Glasgow.
Rankine, Jas., & Son, Grangemouth.
Shaw, Savill & Albion Company, Ltd., London.
Sloan, Wm., & Co., Glasgow.
Smith, George, & Sons, "City Line."
I. O. M. Steam Packet Company.
Stott, W. H., & Co., Leith.
Thomson, Wm., & Co., Leith.
The New Zealand Shipping Company, London
Union-Castle Mail Steamship Company, Ltd (Managers—Donald Currie & Co., London)

Also the following **RAILWAY COMPANIES**:—

Caledonian Railway.
North British Railway.
Glasgow & South Western Railway.
Highland Railway.
Great North of Scotland Railway.
London & North-Western Railway.
East Coast Railway.
Midland Railway.

LIGHTING DEPARTMENT.

IN arranging the scheme of lighting for this important Exhibition, the Committee have aimed at presenting to the public examples of various systems of illumination by means of Electricity, Ordinary Gas, High-pressure Gas, Acetylene Gas, and High-pressure Oil, and of enabling those interested in lighting to examine the various systems employed, and compare the comparative efficiencies of the different illuminants.

The electric lighting of the Exhibition Buildings has been divided into three distinct sections, viz., Industrial Hall, Grand Avenue, and Machinery Hall, and each section is still further sub-divided into several circuits, so that no serious inconvenience would be felt should any breakdown occur.

The Industrial Hall is lit by means of 345-10 ampere Brockie Pell arc lamps, and 404-16 C.P. Zurich incandescent lamps

The Grand Avenue by means of 105-10 ampere Brockie Pell arc lamps, 120-16 C.P. and 20-200 C.P. Ediswan incandescent lamps.

The Machinery Hall by 250-10 ampere Brockie Pell arc lamps, 200 16 C.P. and 30-200 C.P. Ediswan incandescent lamps.

The main cables for the lighting of these buildings have been given on hire by the British Insulated Wire Co., Ltd., Prescot, and the arc light cables by Messrs. Isidor Frankenburg, Ltd., Salford, Manchester.

The Wiring Installation for the Industrial Hall has been carried out by Messrs. Claud Hamilton, Ltd., Glasgow, and the Wiring for the Grand Avenue and Machinery Hall by Messrs. Lowdon Bros. & Co., Dundee.

The Main Switch Board has been given on loan by Messrs. Kelvin and James White, Limited, Glasgow.

Fine Art Galleries. The Lighting for this building has been carried out by the Glasgow Corporation Electricity Department, and about 4,000 incandescent lights have been installed, and 100 H.P. for motors.

Grand Concert Hall and No. 1 Restaurant.—The Concert Hall is entirely lit by means of 326-16 C.P. and 61-32 C.P. Ediswan incandescent lamps, and the Restaurant by 49-10 ampere Brockie Pell arc lamps, the wiring contractor being Claud Hamilton, Ltd.

Nos. 2, 3, 5, and 6 Restaurants are fitted with 158-10 ampere Brockie Pell arc lamps and 140 16 C.P. Zurich incandescent lamps, the wiring contractor being Lowdon Bros., & Co., Dundee.

No. 7 Restaurant, Press Room, and Band Stand are lighted by the Bon Accord Acetylene Gas Lighting Co., Aberdeen.

THE "SUNBEAM" ACETYLENE GAS PLANT

(WILLIAMSON'S PATENT SYSTEM).

Guaranteed "Absolutely Safe," "Free from Smoke," "Smell," "Haze," and "Carbonizing of Burners."

Catalogues, References, Full Particulars, and Estimates may be had Free on application to

THE "SUNBEAM" ACETYLENE GAS LIGHTING CO.,

52 Upper Arthur Street, BELFAST.

WORKS: COLERAINE, IRELAND.

TELEGRAMS: "SUNBEAM, BELFAST." **TELEPHONE 669.**

The Farm Steading and Agricultural Building are lighted by The Home and Colonial Acetylene Gas Lighting Co., Glasgow.

Messrs. Jas. Templeton & Sons' Kiosk is lighted by 48-16 C.P. Zurich incandescent electric lamps, the wiring contractors being Lowden Bros., Dundee.

The Heating and Lighting Section is lighted by the Welsbach ordinary gas system.

The west portion of the North and South Gardens are lighted by 90-10 ampere Brockie Pell arc lamps, the cast-iron Pillars and Brackets being given on loan by Messrs. Walter Macfarlane & Co. and Messrs. M'Dowall, Steven & Co., Glasgow, the overhead wiring being supplied free by Messrs. The Scottish Aluminium Co., Ltd., Greenock.

The centre of the North and South Gardens are being lighted with the Welsbach Co. High-pressure Gas System, the pressure pumps being given on loan by The Water Motor and Automatic Liquid Elevator Company, Ltd.

The East Gardens are being lighted by The Kitson Heating and Lighting Syndicate Ltd., London, with their High-pressure Oil System.

A small portion of the North Gardens is being lighted by The Scott Snell Gas Lighting Co. with their High-pressure System.

The power for the Electric Lighting is being supplied by the following firms:—

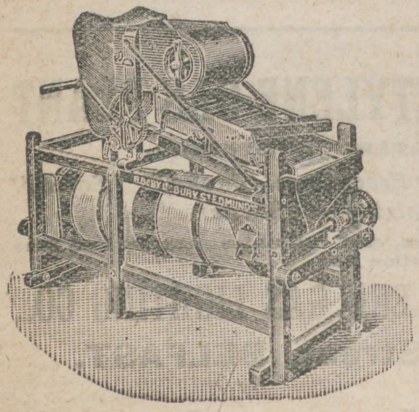
Messrs.	Willans & Robinson,	Engine and	Crompton	Dynamo.
"	Willans & Robinson,	"	Schuckert	"
"	Robey & Co.,	"	Mavor & Coulson	"
"	Robey & Co.,	"	Scott & Mountain	"
"	Robey & Co.,	"	Scott & Mountain	"
"	Ruston Proctor,	"	Ruston Proctor	"
"	Scott & Mountain,	"	Scott & Mountain	"
"	Alley & Maclellan,	"	Mavor & Coulson	"
"	Browett Lindley,	"	Edison & Swan	"
"	Belliss & Morcom,	"	Bruce Peebles	"
"	Sisson & Co ,	"	Clarke Chapman	"
"	Davey Paxman,	"	Electric Construction Co.	"

One Balancer capable of dealing with 100 amperes out of balance, by D. Bruce Peebles & Co.

Steam boilers are being supplied by the following firms:—

Messrs.	Babcock & Wilcox, - -	2 Water Tube Boilers.
"	Davey Paxman, Ltd., - -	1 Water Tube Boiler.
"	Stirling Boiler Co., Ltd., -	2 Water Tube Boilers.
"	Babcock & Wilcox, - -	1 Marine Boiler.
"	Penman, - - - -	4 Lancashire Boilers.

THOMAS YOUNG, M.I.M.E., M.I.E.E.,
Electrician and Engineer to
THE GLASGOW INTERNATIONAL EXHIBITION.



ROBERT BOBY, Ltd.,
St. Andrew's Works,
BURY ST. EDMUNDS.
* * *
Specialties. PATENT.
Barley Dressers and Screens.
Malt Screens and Polishers.
Drilled Indented Cylinders.
Dust Destroyers.
Kiln Turners. Malt Mills.
Seed Cleaning Machinery.
Etc., Etc.

CLASS I.

RAW MATERIAL—AGRICULTURAL AND MINING.

GRAND AVENUE.

1 **Cory Brothers. & Co., Ltd.,** South Wales Coalfield, Cardiff.—Block of Coal weighing between 3 and 4 tons. Samples of Coal, Bricks, Clay, and Cement.

2 **Mond, Dr. Ludwig, F.R.S., F.C.S.,** 20 Avenue Road, Regent's Park, London, N.W.—Models and Photographs of Dr. Mond's Patent Gas-producing Plant, with and without Recovery of Sulphate of Ammonia. Samples of Ore from Dr. Mond's Nickel Mines, Ontario, Canada; Nickel Refined by Dr. Mond's Refining Process; Plans and Diagrams.

3 **Houghton, Wm. Dickson,** Sankey Wire Mills and Wire Rope Works, Warrington.—Wire and Wire Ropes for various purposes, connected with Mining and Shipping and Mechanical Appliances, etc.

4 **Caledonian Wire Rope Co., Ltd.,** Airdrie.—Winding and Hauling Ropes for Mining purposes. Flexible Ropes for Cranes, Hoists, etc. Suspension Bridge Ropes, Aerial Ropeways, Marine Wire Hawsers, Trawl Warps, etc. Dennison's Wire-Testing Machines, Rope-Stranding Machine in operation. (See Advt., page 245.)

5 **Newall, R. S., & Son, Ltd.,** 19 Exchange Square, Glasgow, and Washington, County Durham.—Wire Ropes, Fittings, and Accessories. Model of R. S. Newall's First Rope-Making Machine. Patent Micrometer Wire Gauges. (See Advt., page 246.)

6 **Dunlop, Colin, & Co.,** 62 Buchanan Street, Glasgow, and Quarter Collieries, Lanarkshire.—Sole Proprietors of the famous Quarter Ell Coal. Coal, Ironstone, and other Mineral Specimens, etc.

7 **Luke, F. R. & C. H., & Co.,** 261 West George Street, Glasgow, and 122 George Street, Edinburgh.—Slate Rock and Sized Roofing Slates—Unfading Green, Terra Cotta, and Blue—from the United States Quarries of Vermont, Arvonia, Virginia, and Slatington, Pennsylvania. "Crown" Paint Powder. "Opalite" Tiling. (See Advt., page 361.)

Wood, Peter, Ltd., Pumphouse Works, West Bromwich, Staffordshire.—Blue Bricks, Blocks, etc.

8 **Govan Ropework Co., Ltd.,** Helen Street, Govan.—Specimens of Ropes (Hemp and Wire), Hawsers on Reels, etc. Lines, Twines, Canvas, Ship Fenders, etc.

9 **Nickel Company,** Kirkintilloch.—Manufacture of Nickel and Cobalt and their Application. (See Advt., page 247.)

10 **His Grace the Duke of Argyle,** Inveraray.—Three Samples of Granite from the Ross of Mull Quarries, 5 ft. × 5 ft. each.

KIRSOP & SON,

Hatters, GLASGOW.

GENTLEMEN'S DEPARTMENT.
106 St. Vincent Street.

Waterproofs, Raincoats, Umbrellas, Hat Cases, Etc.
"BEST MAKES ONLY."

LADIES' DEPARTMENT.
254 and 256 Sauchiehall Street.

Catalogue, illustrated with Photographs of Ladies' and Children's Hats, etc., now ready; post free on application.

Telephone 3691.

11 Dobbie & Co., Seed Growers and Florists by Royal appointment, Rothesay — Flowers and Plants will be continuously exhibited. In May—Tulips, Sweet Peas, and Violas. In June—Roses, Pansies, Sweet Peas, etc. In July—Roses, Dahlias, Herbaceous Flowers. In August—Carnations, Dahlias, Phloxes. In September —Dahlias, Gladioli, Chrysanthemums, and Specimen Vegetables. In October— Chrysanthemums and Dahlias. In November—Chrysanthemums.

IN THE GROUNDS.

12 Speirs & Co., 125 West Regent Street, Glasgow.—Model Farm Steading Buildings built of Composite Wood and Iron, including Bungalow Living House, Cattle Sheds, Granary, Working Dairy, Mixing House, Gig House, Engine Room and Boiler House, Cow House, Calf Pens, Stables, Harness Room, Cart and Implement Sheds, etc. (See Advt. below, and page 65.)

13 Wallace, John, & Sons, Ltd., Graham Square, Glasgow.—Machinery and Implements in Model Farm Steading, including:—

BARN MACHINERY.—11 Brake H.P. Oil Engine; Finishing Threshing Machine with Double-String Trusser; Set End-delivery Fanners with Bagging Elevators; Chaff Cutter with Sifter; Combined Bruiser and Grist Mill; Double Roller Oil-Cake Breaker; 1 cwt. Baling Machine; Sack Weighing Machine; Sack Barrow.

FIELD IMPLEMENTS.—Lea and Stubble Oliver Chilled Ploughs; Scotch Swing Plough; Double Mould Drill Plough; Medium Drill Grubber; Zig Zag Harrows; Chain Harrows; Seed Harrows; Land Roller; Champion Pole Potato Digger; Potato Screen; Potato Weighing Machine.

IN FARM YARD.—Cart and Cattle Weighing Machine with Cattle-cage; Three 10 foot Circular Stack Stands; One Pole Horse Fork.

HARVESTING MACHINERY.—Reaper and Binder; Combined Mower and Reaper; Crank Action Hay Tedder; Double-Drill Turnip and Mangold Sower; Grain and Grass-Seed Sower; Potato Planter; Grain Drill.

IN ROOT HOUSE.—Combined Grater and Slicer; 60 Gallon Food Cooler; 140 Gallon Food Cooler.

IN GIG HOUSE.—Buchanan's Polo or Dog Cart.

IN HARNESS-ROOM AND STABLE.—Cart, Van, Driving, Riding, and Stallion Harness.

14 Glasgow Dairy Company, 8 West Cumberland Street, Glasgow.—Working Dairy, 10.30 A.M. Pasteurising, Separating, and Filtering of Milk. Butter-making by Danish and Home Experts between 12 and 3 P.M., and a display of the Newest Machinery in Dairying.

16 St. Mungo Poultry Appliances Company, 784 Gallowgate, Glasgow.—Poultry Houses and Runs to scale of 460 head per acre. Incubator House for Hatching Chickens on a new and improved system of incubation; Duck Runs, Fattening Pens, etc. Appliances for Systematic Poultry Farming. Leaflets on the objects of The National Poultry Organisation Society, 12 Hanover Square, London. Utility Poultry Club, where Members may be enrolled. Lectures by Eminent Poultry Experts during run of the Exhibition.

18 MacLellan, P. & W., Ltd., 129 Trongate, Glasgow.—"Clutha" Windmill in Model Farm to pump water into Cattle Troughs. (See Advt., page 227.)



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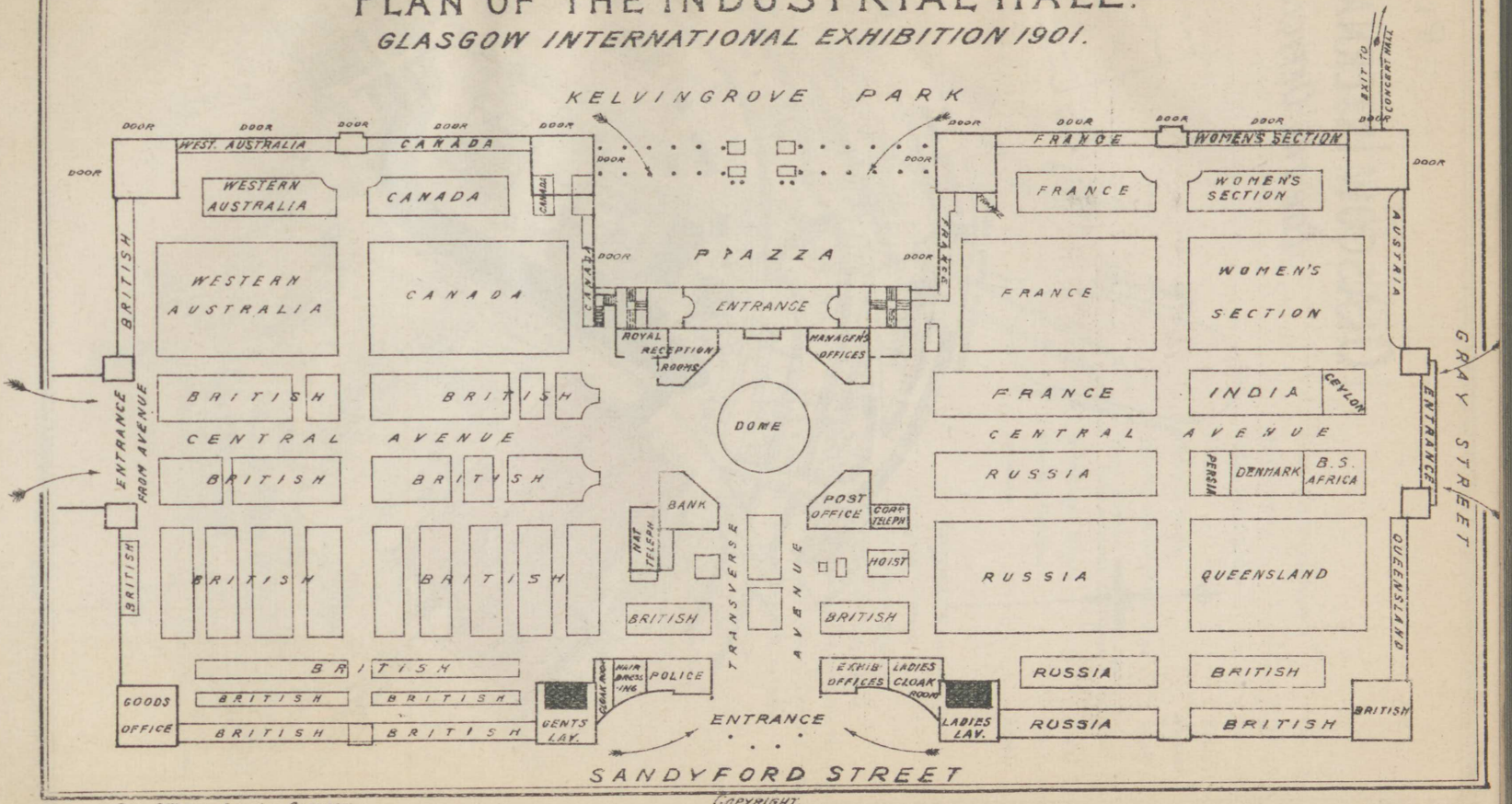

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FOR THE OFFICIAL CATALOGUE AND GUIDE.

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Indian and Colonial	LIGHT BLUE
Foreign	YELLOW
Women's Section	PURPLE
Lighting and Heating Section	ORANGE
Grand Concert Hall, Band Stands, Entertainments and Sports	LIGHT RED
Refreshment Rooms	GREEN
Fine Art Galleries	*Not Coloured*
Lavatories	BLACK

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No. 1.—The Grosvenor
No. 2.—The Royal Bungalow
No. 3.—The Grand Avenue Buffet
No. 4.—The Prince's Restaurant and Tea Rooms
No. 5.—The Palace Restaurant and Tea Rooms
No. 6.—Miss Cranston's Tea Rooms
No. 7.—Flint's Tea Rooms
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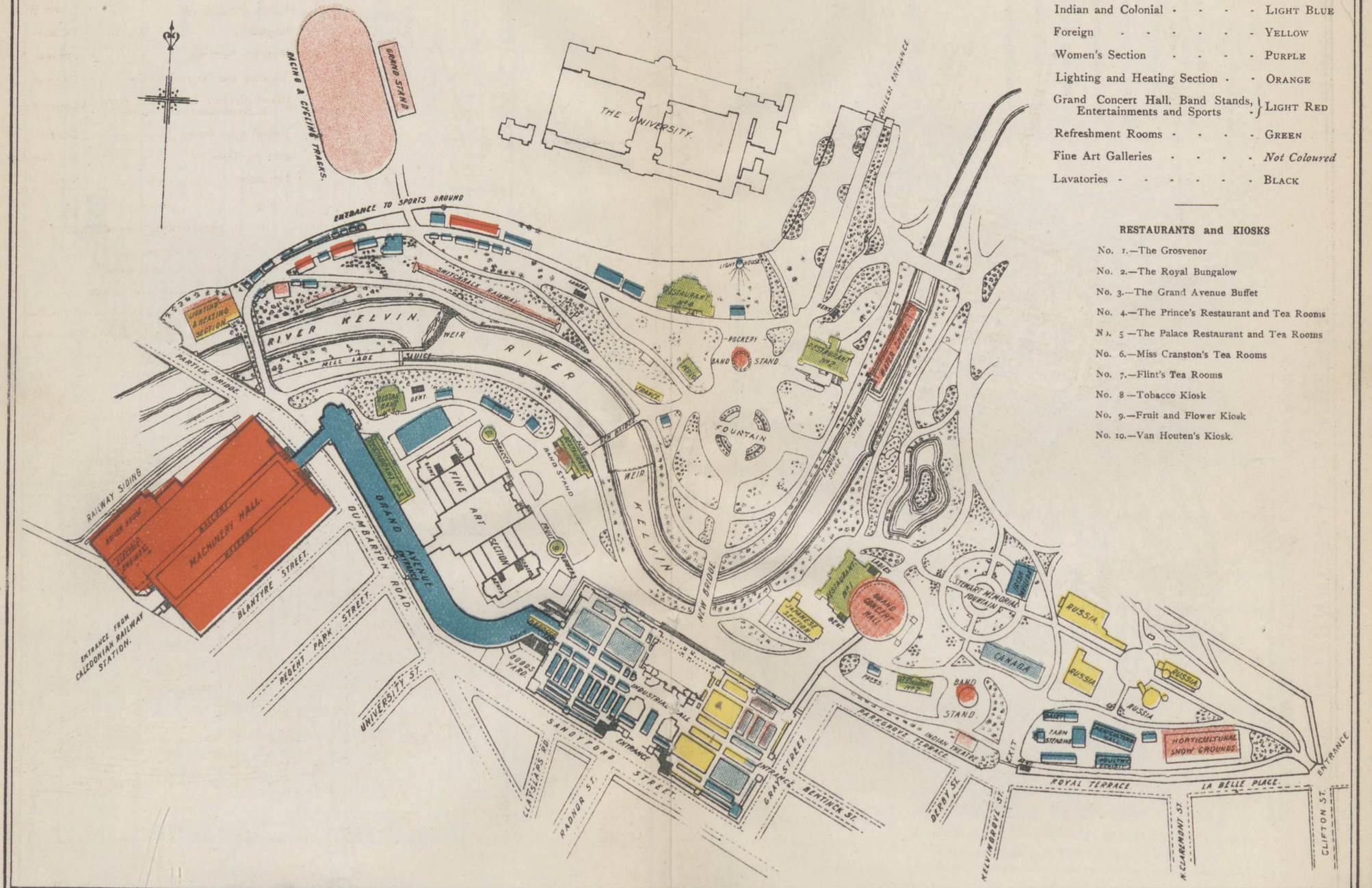

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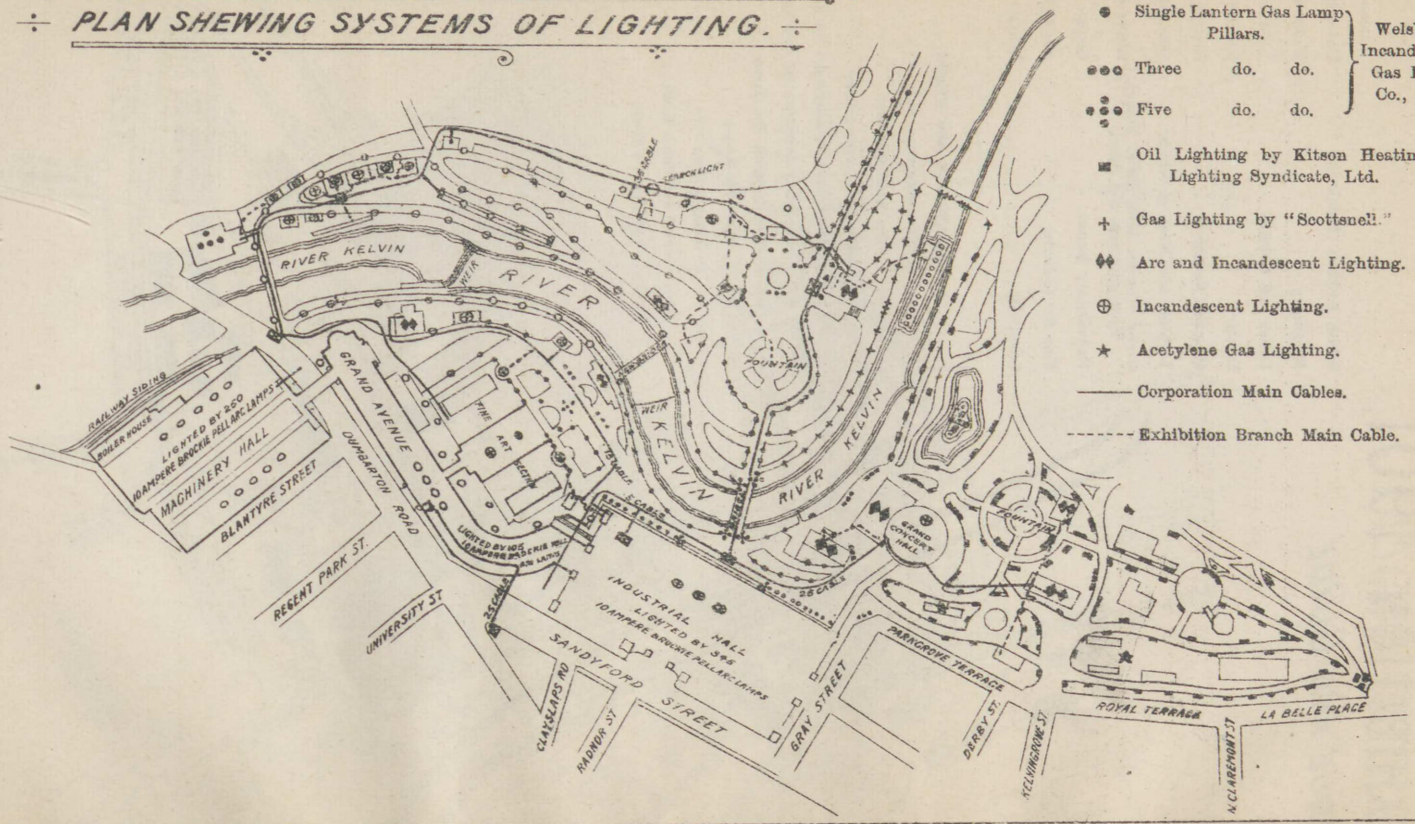
PLAN SHEWING SYSTEMS OF LIGHTING.



- Arc Lighting: Brockie Pell Arc Lamp, Ltd
- Single Lantern Gas Lamp Pillars. — Welsbach Incandescent Gas Light Co., Ltd.
- Three do. do. — Welsbach Incandescent Gas Light Co., Ltd.
- Five do. do. — Welsbach Incandescent Gas Light Co., Ltd.
- Oil Lighting by Kitson Heating and Lighting Syndicate, Ltd.
- Gas Lighting by "Scottsnell."
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- Acetylene Gas Lighting.
- Corporation Main Cables.
- Exhibition Branch Main Cable.

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AGRICULTURAL HALL.

30 **Agricultural Research Association,** for the N.E. Counties of Scotland, Experimental Station, Glasterberry, Milltimber; Offices and Laboratory, 10 Belmont Street, Aberdeen.—Diagrams and Specimens of the benefits to Agricultural Practice and Agricultural Science of Investigations and Experiments carried out during a quarter of a century.

31 **Wright, R. Patrick,** The West of Scotland Agricultural College, 6 Blythswood Square, Glasgow.—Photographs, Diagrams, Designs, Books, Models, and Specimens. Apparatus and Appliances illustrative of the teaching of the College. Cheese and Butter made at the College Dairy School. Plants growing in pots to illustrate the effects of various Manures.

32 **Sulphate of Ammonia Committee,** 4 Fenchurch Avenue, London, E.C.—Specimens of Sulphate of Ammonia produced by five different processes. Wheat Oats, Barley, Turnips, Potatoes, etc., showing the advantages of Ammonia as a fertiliser.

33 **Verkaufs Syndikat der Kaliwerke (German Potash Syndicate),** Leopoldshall-Stassfurt, Germany. Local Agents: C. Schneider & Co., 33 Renfield Street, Glasgow.—Collection of Crude and Manufactured Potash and Magnesium Salts for agricultural and technical purposes, including Kainit, Kieserit, 30 % Potash Manure Salts, Muriates of Potash, Sulphate of Potash, etc. Illustrations of Manuring Experiments and Statistical Tables. Monumental Group, allegorically representing the Stassfurt Industry: a miner is handing a block of Crude Potash to the figure of "Chemical Industry," who with her sister, "Scientific Agriculture" is seated on a rock of salt, with "Progress of Science" guarding their labours. (See Advt., page 319.)

34 **Gartons, Ltd.,** Seed Experts, Warrington.—New and Improved Breeds of Farm Plants, produced by the Garton System of plant breeding, together with series of Micro-photographs explaining the system.

35 **Permanent Nitrate Committee,** 3 Gracechurch Street, London, E.C.
(Under the auspices of the Government of Chile.)
Nitrate of Soda, for agricultural, chemical, and explosive purposes.
Caliche, the raw material from which Nitrate of Soda is refined.
Photographs and Diagrams showing the various effects of the use of Nitrate.
Pamphlets, in various languages, on the agricultural use and value of Nitrate of Soda.

36 **Cross, Alex., & Sons, Ltd. Leeds Phosphate Company. H. & E. Albert.**—Basic Slag in Lumps, Ground and in Bags. Iron Ores, containing Phosphorus, Pig Iron, Lime Stone, Dolomite, Steel from Pig Iron manufactured by the Thomas Gilchrist Method, etc. Statue symbolical of "The Union of Agriculture and Metallurgy." Pamphlets regarding the use of Basic Slag and Reports on Results of Farmers' Experiments, and others.



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37 Spratt's Patent, Ltd., 24-25 Fenchurch Street, London, E C.—Patent Meat "Fibrine" Dog Cakes. "Greyhound," "Terrier," "Cod-liver-oil" Dog Biscuits. Pet and Puppy Biscuits. Cabin, Navy, and Expedition Biscuits. Spratt's Patent Poultry Meal, Game and Chicken Meals, Dog and Poultry Medicines, etc.

38 Chemical Fertilizer Association of the United Kingdom, 19 Hope Street, Glasgow.—Samples of Fertilisers for all kinds of crops at home and abroad; also Raw Articles from which the Chemical Fertilisers are manufactured, such as Phosphates, Bones, etc.

39 Tomlinson & Hayward, Ltd., Lincoln.—Hayward's Sheep Dips and Veterinary Preparations, etc. Weed Killer and Horticultural Preparations.

40 The Natural Fertilizer Company, 53 Waterloo Street, Glasgow.—"Fertos," a material for preventing "Finger and Toe" in Turnips, "Wireworm" in Carrots, Blight, Disease Germs, "Fertos" Plant Pests, and for promoting healthy vegetation. "Nao" (full design) Food, and Dixon, Corbitt & Newall's Manilla Binder Twines, etc.

41 Peat Moss Litter Supply Company, Ltd., 36 Mark Lane, London, E.C.; 102 Bath Street, Glasgow.—Peat Moss Litter Bedding for Horses and Cattle, Granulated for Grips behind Cows, Poultry Runs, Kennels, Earth Closets, Sanitary Purposes generally, Fruit Packing etc. Peat Fibre for Spinning and Surgical Dressing. Peat Fuel, etc. Peat Rope for isolating purposes, etc.

42 Morris, Little & Son, Ltd., Doncaster.—Little's Non-Poisonous Fluid and Paste, Poisonous Liquid and Powder, Sheep Dips; Foot Rot Cure, Maggot and Cattle Wash, Fly Powder, Seed Dressing, Carbolic Soft Soap, Antipest (Horticultural) and Weed Killer.

43 Robertson, Alex., Argyle Chemical Works, Oban.—Highland Sheep Dips (Paste, Powder, and Fluid). Herculean Weed Killer (Liquid and Powder). Terebene Balsam for Lamb Cutting. Carbolic Soft Soap and Powder. Disinfectants, etc.

44 Errington, Roger, Victoria Mills, Sunderland.—Horse and Cattle Spice, Calf-rearing Meal, Hay-seasoning Spice, Game and Poultry Spice, Poultry Food, Hound Meal, Dog Cakes, Sheep Dip, and Disinfectants.

45 Drummond, W., & Sons, Ltd., Seed and Nursery Establishment, Stirling and Dublin.—Seeds and Agricultural Plants.

46 Thorley, Joseph, Ltd., King's Cross, London, N.—Thorley's Food for Cattle, Sheep, Pigs, etc. Ovum for Poultry. Vitum and Grula for Horses. Lactifer for Calves.

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Avery, W. & T., Ltd., Birmingham and Glasgow. See No. 415.

Barclay, Andrew, Sons, & Co., Ltd., Caledonian Works, Kilmarnock. See No. 1034.

Anti-Friction Alloys Ltd., 52 Queen Victoria Street, London, W. See No. 540.

Boyd, James, & Sons, Paisley. See No. 1003.

British Hydraulic Foundry Co., Ltd., Whiteinch, Near Glasgow. See No. 511.

LAWTON & PARKER,

Engineers,

BRITANNIA WORKS, ARDWICK,

MANCHESTER.

British Insulated Wire Co., Ltd., Prescot, Lancashire. See No. 407.
Carron Co., Ltd., Carron, Stirlingshire. See Nos. 611 and 909.
Champion Friction Clutch Co., Ltd., Trent Street, Attercliffe, Sheffield. See No. 590.
Clyde Rubber Works Co., Ltd., Clyde St., Port-Dundas, Glasgow. See No. 259.
Cranston's Tea Rooms, Ltd., 28 Buchanan Street, Glasgow. See No. 132.
Crossley Bros., Ltd., "Otto" Gas Engine Works, Openshaw, Manchester. See No. 428.
Cousland, Alex., & Son, 3 Mitchell Street, Glasgow. See No. 1044.
Dougall, James, & Sons, Ltd., Bonnyside Works, Bonnybridge. See No. 379.
Gilligan & Son, 96 St. John Street, Smithfield, London, E.C. See No. 220.
Heinz, H. J., & Co., 99-101 Farringdon Road, London, E.C. See No. 141.
Kelly, J. H., Kilmarnock Street, Parkhead, Glasgow. See No. 820.
Ingersoll Sergeant Drill Co., 114 Queen Victoria Street, London, E.C. See No. 532.
Leadbeater & Scott, St. Mary's Works, Sheffield. See No. 467.
Lipton Ltd., City Road, London, E.C. See No. 137.
Main, A. & J., Clydesdale Iron Works, Possilpark. See No. 1023.
Mavor & Coulson, Ltd., 47 King Street, Mile End, Glasgow. See No. 560.
Mitchell, Andrew, & Co., Ltd., 12 Princes Square Glasgow. See No. 266.
Nobel's Explosives Co., Ltd., 195 West George Street, Glasgow. See No. 960.
Pollock, Alex., Daisy Bank, Tarbolton. See No. 1022.
Reid, M'Farlane & Co., Ltd., 58-60 Hydepark Street, Glasgow. See No. 387.
Saville, J. J., & Co., Shoreham Street, Sheffield. See No. 484.
Seebohm & Dieckstahl, Ltd., Dannemora Steel Works, Sheffield. See No. 552.
Stern Bros., 57 Gracechurch Street, London, E.C. See No. 182.
Wallach Bros., 57 Gracechurch Street, London, E.C. See No. 385.
Young's Paraffin Light and Mineral Oil Co., Ltd., 7 West George Street, Glasgow. See No. 190.

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81 Shanks & Co., Ltd., Sanitary Engineers, Tubal Works and Victorian Pottery, Barrhead, near Glasgow; Showrooms and Offices, 26 West Nile Street, Glasgow; 81 New Bond Street, London, W.; 12 Deansgate, Manchester.—Baths, Lavatories, Water Closets, Urinals, Sinks, and Kindred Articles. Fitted Bathrooms, etc. (See Advt. below.)

82 Buick, Charles, & Sons, Hilton Fire Clay Brick and Tile Works, Alloa.—Enamelled Fire Clay Baths. Closets, Sinks, Tubs, Lavatories, Glazed Sewage Pipes and Traps. Terra Cotta Ridges and Finials. Flower Pots, Seed Pans, and Fern Stands.

83 Doulton & Co., Ltd., Lambeth, London, S.E., Burslem, Staff., and Glasgow.—Sanitary Goods of every description. Glazed Fireplaces and Stoves. Art Wares in China, Earthenware, and Stoneware.

84 Twyfords Ltd., Cliffe Vale Potteries and Engineering Works, Hanley, Staffordshire. Glasgow Showrooms: 95 Bath Street.—Water Closets, Lavatory Basins, Urinals, Baths. Special Hospital and other Institution Fittings. Sinks, Washtubs, and General Sanitary Specialities fitted with all necessary appliances, etc.

GRAND AVENUE.

85 Campbell, T. B., & Sons, 29 Wellington Street, Glasgow; and Clyde Lead Works, Kinning Park, Glasgow.—Bathroom fitted with all Requisites. The "Daisy" Boiler and the "Safford" Radiator. Lavatories, Closets, Sinks, Tubs, etc. (See Advt., page 343.)

86 Stevenson, Wm., & Co., 72 to 80 Brown Street, Glasgow.—Tubes and Pipes manufactured from Lead, Copper, Tin, Zinc, Iron, Rolled Metals, etc. Sanitary Appliances and Fittings. Pig Lead, Ingot Tin, Ores, etc. (See Advt., page 359.)

87 Bourtreehill Coal Co., Dreghorn, Ayrshire; Bourtreehill Fire Clay Works, Dreghorn; Warrix Fire Clay Works, Irvine; and Lochhead Fire Clay Works Dunfermline: Glasgow Office, 120-130 Salkeld Street, S.S.—Feeding Troughs. Water Cisterns, Bricks, Sinks, Wash Tubs, Closets, Grease and Sewer Traps. Sewer Pipes and Connections, Manufactured in Salt Glazed and Enamelled Ware. Specialities—Extra Yellow Glazed Sewer Pipes, Hutchison's Patent Faucet Pipes, Peddie's Patent Faucet Pipes, Broad & Co's Manhole Channels and Traps, Macnab's Patent Overflow on Sinks, Armstrong's Patent Inspection Openings.

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88 **Sturrock, William,** 95 Bath Street, Glasgow.—**Goodall, Lamb & Highway, Ltd.,** Manchester —Parquetry, Cabinet Work, Overdoors and Interior Joinery. **Hendry & Pattisson, Ltd.,** London, Manufacturers of D. O. Boyd's Patent Warm Air Grates and Stoves, Steel Casements, Ventilators, etc. Sanitary Specialities, Patent Surface Water Gullies, Improved Man-Hole Covers and Patent Self-Adjusting Pipe Joint, manufactured by the **Ames Crosta Sanitary Engineering Company, Ltd.** Moreau Marble, manufactured by the **Moreau Marble Company, Ltd.,** London, from soft white Limestone by a New Chemical Process.

89 **Glenboig Union Fireclay Co., Ltd.,** 48 West Regent Street, Glasgow.—Fireclay Bricks, Gas Retorts, Sewerage Pipes, Traps, etc. (See Advt., page 362.)

90 **Garteraig Fire Clay Co., Ltd.,** 18 Charles Street, St. Rollox, Glasgow.—Fire Clay Sewerage Pipes and Connections, Fire Bricks, Facing and Enamelled Bricks, Chimney Cans, Vases, etc.

91 **Hurll, Peter & Mark,** 144 West Regent Street, Glasgow.—Fireclay Bricks, Blocks, Gas Retorts, Building Bricks, Terra Cotta Bricks, Chimney Cans. Pipes and Accessories.

92 **Hozier Engineering Co.,** 47 Hozier Street, Glasgow.—One Argyle Voiturette, seated for three, fitted with 5 H.P. motor. One Gear Box, showing mechanism for changing the speeds. One Back Axle, showing the driving gear.

TRANSVERSE AVENUE.

93 **Young & Sons,** Printers and Stationers, 20 Queen Street, Glasgow.—Ledgers, Account Books, Pocket Books, Letter Cases, Purses, Stylo and Reservoir Pens, etc.

94 **National Bible Society of Scotland,** 224 West George Street, Glasgow; Treasurer, James Drummond, C.A.; Secretary, William J. Slowan.—Bibles in various languages.

95 **De La Rue, Thomas, & Co., Ltd.,** Bunhill Row, London, E.C.—Reservoir and Fountain Pens, Writing Inks, Playing Cards, Fancy Stationery, etc.

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98 MacLehose, James, & Sons, 61 St. Vincent Street, Glasgow.—Bookbinding, in its various stages, and Printing. Books printed or published by Messrs. MacLehose, with Engravings, etc.

99 Bayley & Ferguson, Music Publishers. 54 Queen Street, Glasgow, and 14 Paternoster Row, London.—Sacred and Secular Musical Publications, Scholastic and Choral Music Books, etc.

100 L. E. Waterman Company (New York) Fountain Pens.

101 Hardtmuth, L. & C., 12 Golden Lane, London, E.C.—Pencils and Drawing Materials.

102 Bryce, David, & Son, 133 West Campbell Street, Glasgow.—Miniature Books and Books in Tartan Binding.

103 Leng, John, & Co., Bank Street, Dundee, and 72 Queen Street, Glasgow.—Publications, Printing, and Lithographic Exhibits.

104 Mitchell, Wm., Cumberland Street, Birmingham; 44 Cannon Street, London; and Paris.—Steel and Metal Pens, Pen and Slate-Pencil Holders, etc. Gold Medal, Paris, 1900, (See Advt., page 363.)

105 Watson, Chas. P., 33 Gordon Street, Glasgow.—Official Publisher and Sole Advertising Contractor to the Glasgow International Exhibition, 1901. All the official Publications sold at this stall; also the Leading Newspapers, Magazines, etc.

106 Annan, T. & R., & Sons, 230 Sauchiehall Street, Glasgow.—Copper Plate Printing Press in Operation. Engraved Photo-Gravure, Copper Plates and Prints, etc. Specimens of Autotype, Reproductions of Paintings, etc. (See Advt., page 32.)

107 Morison Brothers, 52 Renfield Street, Glasgow.—Publications, Illustrated Post Cards, General Stationery, Fountain and Stylo Pens, Drawing and Surveying Instruments, Tracery Paper, Tracing Cloth, and General Drawing Materials. (See Advt., page 36.)

108 Johnston, W. & A. K., Ltd., Edina Works, Edinburgh; 55 West Regent Street, Glasgow; and 5 White Hart Street, London.—Maps, Diagrams, Atlases, Globes, and Specimens of Commercial Engraving, Lithographic and Letterpress Printing, etc.

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110 **Frowde, Henry,** Oxford University Press, Amen Corner, London, E.C.—Educational Publications, Oxford Dictionaries, Atlases, Official Publications, etc. Oxford Bibles, Prayer Books, Church Hymnaries, etc. Specimens of Oxford Leather Bindings, and Oxford India Paper.

111 **Macniven & Cameron, Ltd.,** Waverley Stationery Works, Edinburgh; and Waverley Steel Pen Works, Birmingham.—Account and Memorandum Books, Notepapers, Envelopes, and other Stationery Productions. Steel Pens and Penholders. (See Advt., page 46.)

112 **Cassell & Company, Ltd.,** La Belle Sauvage, Ludgate Hill, London; Paris, New York, and Melbourne.—Magazines, Journals, Serial Publications, Books, Coloured Pictures, Engravings, Art Plates, etc. Processes connected with Publishing.

113 **Andre & Sleigh, Ltd.,** Photo Engravers, Bushey, Herts.—Examples of Half-tone Block Illustrations and of reproductions by the direct Three Colour Process.

114 **Morrison, G. & M.,** 92 St. Vincent Street, Glasgow.—Book and Catalogue Illustrations and Wood Engravings. Photographs, Tools and Materials used in the process of Engraving on Wood, for Black and Coloured Letterpress Printing. (See Advt., page 311.)

115 **Gilmour & Dean,** 50 North Hanover Street, Glasgow.—Specimens of Designing, Engraving, Lithographing, and Colour Printing, including Bank Notes, Cheques, Certificates, Manufacturers' Tickets, Tartan and Fancy Papers, Engineering Plans, Illuminated Addresses, etc.

MAIN AVENUE.

116 **Lyon, Wm.,** 474 Sauchiehall Street, Glasgow.—Manufacturer of Christmas, Menu, Visiting, Wedding, and Invitation Cards, Ball Programmes, Pictorial Postcards, Fancy Stationery, etc. (Wholesale and Export).

SOUTH-WEST COURTS.

117 **Colman, J. & J., Ltd.,** 108 Cannon Street, London, E.C., and Carrow Works, Norwich.—Model of Mustard, Starch, Blue, Cornflour, and Paper Factories and Corn Mill at Carrow Works, Norwich, as they exist at the present date. Model of J. & J. Colman's Original Factory at Stoke, Holycross, Norwich, as it existed in the year 1837.

118 **"Old Bushmills" Distillery Co., Ltd.,** Distillery, Bushmills, Co. Antrim.—Offices, Hill Street, Belfast.—Pure Malt Whiskey. Pedestal, Cask, etc.

119 **Corry, Wm., & Co., Ltd.,** Cromac Springs, 114 to 126 Cromac Street, Belfast.—Case containing Samples of Pure Gold Medal Aerated and Mineral Waters, comprising Ginger Ale, Lemonade, Soda Water, Potass or Kali Water, Cromac Seltzer Water, Lithia Water, Cromac Kola, Cromac Tonic (Quinine), Champagne Cyder, Aerated Sarsaparilla, Lemon Soda, Raspberryfizz, Dry Ginger Ale and Stone Ginger Beer, also Raspberry Vinegar and Lime Juice Preparations, etc.

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120 **Schweppes, Ltd.**, 17 York Street, Glasgow.—Head Office, 49 Pall Mall, London, S.W.—Aerated Waters in Bottles and Syphons.

121 **Fry, J. S., & Sons Ltd**, Bristol, London, and Sydney, N.S.W.—Pure Concentrated Cocoa, Malted Cocoa, a combination of Malt and Cocoa, Chocolate and Chocolate Confectionery.

122 **Roger, James H.**, The Rogano, 11 South Exchange Place, and Branches, Glasgow.—Bottled Whiskies—"Colonel Bogey," "The Cronies" (Bobs), etc. Samples for tasting.

123 **Skinner, Wm., & Son, Ltd.**, Bakers and Confectioners, 477 Sauchiehall Street, Glasgow.—City Branch, 166-168 Argyle Street.—Wedding and other Cakes. (See Advt., page 43.)

124 **Herbert, George, Ltd.**, 74 Kinning Street, Glasgow, S.S.—Various kinds of Machine and Hand-Made Biscuits and Fancy Cakes, and the different kinds of Packages used in their distribution.

125 **Jones, Orlando, & Co., Ltd.**, York Road, Battersea, London, S.W.—Starch, Blue, Infants' Food, Ground Rice, and Corn Flour.

126 **Glendenning, W., & Sons, Ltd.**, 33 St. Mary's Place, Newcastle-on-Tyne, and at London and Dundee.—Glendenning's Beef and Malt Wine, Serravallo's Tonic (Bark and Iron Wine) for Anæmia and Chlorosis.

127 **Glebe Sugar Refining Co.**, Greenock; 45 Virginia Street, Glasgow; St. George's House, London.—Pure Cane Sugars and Syrups, free from Chemicals, in the form of Cubes, Crystals, Mediums, Brown Sugars, and Syrups.

128 **Mitchell & Co., of Belfast, Ltd.**, Distillers, Belfast, and Mitchell Bros., Ltd, Distillers, Glasgow.—Proprietors of the "Mild Mellow-Matured Cruiskeen Lawn Irish Whisky," and "Heather Dew Scotch Whisky."

129 **South Australian Government Department of Commerce**, per E. Burney Young, 35 Walbrook, London, E.C. Glasgow Agent: Wm. Ferguson, 50 Wellington Street.—"Orion," South Australian Wines.

130 **Duncan, John, & Son**, Tobacconists to the Queen, 94 and 96 Buchanan Street, Glasgow.—Cigarettes. Prize Medal awarded, Leeds, 1875; Paris, 1900.

131 **Gum Tragasol Supply Co., Ltd.**, 7 Temple Street, Liverpool.—New Gum for Sizing, Dressing, and Finishing Textile Fabrics. Printing Calicoes. Mixing Colours, Rubber Manufactures, also for Confectionery of all kinds. Dry Gum, etc.

132 **Cranston's Tea Rooms, Ltd.**, Stuart Cranston, Founder and Managing Director, 28 Buchanan Street, Glasgow.—Specimen of Indian Tea Plant (Indigenous Assam). Samples of Ceylon Pekoe Tips and various Teas (China, Indian, and Ceylon).

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134 **Cox, J. & G., Ltd.,** Gorgie Mills, Edinburgh.—Cox's Gelatine and Elfin Tablet Jellies, and Wanda Fruit Essences and Colouring Materials.

135 **Gordon & Dilworth Tomato Catsup, Ltd.,** 36 to 40 York Road, King's Cross, London.—New Process Tomato Catsup from Whole Fresh Tomatoes and Tomato Soup.

136 **Brand & Co., Ltd.,** 11 Little Stanhope Street, Mayfair, London, W.—Brand's Essence of Beef, Chicken, Mutton, and Veal. Concentrated Beef Tea, Meat Juice, Soups, A1 Sauce, Beef Tea Tabules, etc.

137 **Lipton, Ltd.,** City Road, London, E.C.—Teas, Coffee, and Cocoa, loose and in packets. Coffee and Cocoa Beans, etc. General Grocery Goods, etc.

138 **Dewar, John, & Sons, Ltd.,** Distillers, Perth and London.—Scotch Whiskies.

139 **Bain, David, & Co.,** 13 York Street, Glasgow.—Samples of Dilbaree Tea, and Samples of Tea in various stages of manufacture.

140 **Ogden's, Ltd.,** 33 Wapping, Liverpool.—Samples of Manufactured Tobaccos and Cigarettes. Different growths of the Raw Tobacco Leaf.

141 **Heinz, H. J., Co.,** 99-101 Farringdon Road, London, and Pittsburgh, U.S.A.—Sweet Pickles, Preserves, Tomato Soup, Tomato Chutney, Evaporated Horse-Radish, Relishes, Baked Beans with Tomato Sauce, Vinegars, etc.

142 **The Protene Company, Ltd.,** Patentees and Manufacturers of Milk Proteids. Head Offices: 36 Welback Street, Cavendish Square, London, W. Branch: 141 Regent Street, London, W.—"Protene," a white, tasteless, and odourless powder obtained from pure fresh Milk, containing the Proteids (Albumenoids) of Milk and all the Mineral Salts, forming a highly-nutritious food. 6 Gold Medals awarded for Purity, Nutrition, and Excellence. (For detailed particulars, trade mark, etc., see Advt., page 365.)

143 **Mellin's Food, Ltd.,** Marlborough Works, Peckham, London, S.E.—Mellin's Food, Lacto Glycose, Cod Liver Oil Emulsion, etc. Mellin's Food Biscuits.

144 **Rowat & Co.,** Govan, Glasgow.—Rowat's Pickles, Sauces, Fruit Wines, Coffee Essences, Condiments, etc.

145 **Société Anonyme des Fabriques de Chocolat et Confiserie,** J. Klaus Le Locle, Switzerland; Morteau, France. Sole Agent, C. Tennant Smith. Head Office for Great Britain, 42-44 Cheapside, London, E.C.—Chocolate and Confectionery. (See Advt. below.)

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146 Macdonald, D. & J., Tobacco Manufacturers, 60 Glassford Street, Glasgow. Works, 26 Oxford Street, Glasgow. Telegraphic Address, "Twist," Glasgow. Telephone, No. 925.—Tobacco and Cigarettes.

147 Johnston, Baird & Co., 156-168 Gallowgate, Glasgow.—Essence of Coffee and Chicory, Worcestershire Sauce and Ketchup, Oat Flour, Squashes, Unfermented Fruit Wines, Health Salts, Baking and Curry Powders, Summer Drinks, etc. Tea, Coffee, Spices, etc.

148 Quaker Oats, Ltd., St. George's House, 8 Eastcheap. London; also Liverpool, Glasgow, and Dublin.—Quaker Oats, Rolled Oats, Oatmeals. Cereal Foods and Meals made from Wheat, Maize, Oats, and Barley.

149 Lauder, Archibald, sole proprietors of Royal Northern Cream Whiskey, 76 Sauchiehall Sreet, Glasgow.—Model of Scotch Whiskey Still.

150 Gemmell, Robt. P., Representative for Union Vinicole de France, Brandy Distillers and Champagne Shippers, 49 Virginia Street, Glasgow.—Australian Wines, "Vifera" Brand (Vitis Vinifera)., "Vinicole" Brandy, etc.

151 Cerebos, Ltd., Newcastle-on-Tyne.—"Cerebos" Nutritive Salt for the Table and Cooking Purposes. Seraph Health Salt. Pepsalia, a digestive Table Salt.

152 Crosse & Blackwell, Ltd., 20-21 Soho Square, London, W.—Preserved Fruit, Meats, Vegetables, etc. (See Advt. below.)

153 Barrie, G. & P., Maxwell Road and St. Andrew's Road, Glasgow; also at Dundee.—Mineral Waters in Bottles and Syphons, Non-intoxicating Bitter Beer, Stout and Brewed Ginger Beer. Unfermented Fruit Wines and Cordials.

154 International Plasmon, Ltd., 56 Duke Street, Grosvenor Square, London, W.—Plasmon, the proteid (albumen) of pure fresh milk, rendered into a dry granulated soluble powder by a special process of manufacture—preserved in its original unaltered condition—and its various preparations, viz., Plasmon Cocoa, Plasmon Chocolate, Beef Plasmon, and Plasmon Biscuits. (See Advt., page 366.)

155 McCall & Stephen, Adelphi Biscuit Factory, Glasgow.—Biscuits and Cakes, Machine-Made and Hand-Made Biscuits and Cakes for Home use and Export.

156 Brownlie, James, & Son, Arthurlie Biscuit Factory, Barrhead, near Glasgow.—Biscuits and Cakes.

157 Keen, Robinson, & Co., Ltd., Garlick Hill, Cannon Street, London.—Mustard, Washing Blue, Patent Groats, Patent Barley, "Earlikos," Rolled and Steamed Oats, Ground Spices, "Waverley" Oats, etc. Samples of Raw Materials, "Barlikos."

158 Bovril, Ltd., 152 Old Street, London, E.C.—Bovril and Food Specialities.

159 Davidson, R. & W., 9 Virginia Street, Glasgow.—Preserved Provisions, Meats, Fish, etc., in tins. Fruits and Vegetables in tins and in glass. Dried Fruits, etc., and Food Products.

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161 **Buchanan, John, & Bros., Ltd.**, Stewart Street, Cowcaddens, Glasgow.—All kinds of Confectionery, Chocolate, Jams and Jellies, Peels, Marmalades, etc.

162 **United Co-operative Baking Society, Ltd.**, M'Neil Street, Glasgow.—Bread Bakers. Wedding and Fancy Cakes, Small Bread, Biscuits, and Oat Cakes.

163 **Sankey Sugar Co.**, Earlstown, Lancashire. Sole Agents for Scotland, William Ford & Sons, Ltd., Leith, Glasgow, and Aberdeen.—Cane Sugar and Syrup.

164 **Dunville & Co., Ltd.**, Royal Irish Distilleries, Belfast.—Working Models of Dunville's Royal Irish Distillery Plant, and Samples of Whiskey, Barley, and Malt. Photographs, Diplomas, Medals, etc.

MAIN AVENUE.

165 **Smith, F. & J.**, 151 to 163 George Street, Glasgow.—Tobaccos, Snuffs, Cigarettes, and all kinds of Manufactured and Unmanufactured Tobaccos. (See Advt., back of cover.)

166 **The Pumpherston Oil Co., Ltd.**—Shale, and Products thereof, Sulphate Ammonia, Paraffin, Gas, Batching and Lubricating Oils, Solid Paraffin Wax for Candle Making.

167 **Laidlaw, Mackill & Co., Ltd.**, 53 Bothwell Street, Glasgow.—Unmanufactured Tobacco, Sheep Dips, Nicotine, and Insecticides.

168 **Suter, Hartmann, & Rahtjen's Composition Co., Ltd.**, London, Liverpool, Glasgow, and Newcastle-on-Tyne.—The "Red Hand" Brand Anti-Corrosive and Anti-Fouling Compositions and Paints.

169 **Mitchell, Stephen, & Son**, 36 St. Andrew Square, Glasgow.—Manufacturers of Tobacco and Cigarettes. Established 1723. (See Advt., page 1.)

170 **Sandeman Bros.**, Ruchill, Glasgow.—Rosin Oils and Greases. Kegs and Drums.

171 **The Diamond Match Co., Ltd.**, Liverpool, London, and Belfast.—Matches, Vestas. Tapers, etc., the Process of Manufacturing being entirely by Machinery. Telegrams: "Matches," Liverpool and London.

172 **Pickering, Joseph, & Sons, Ltd.**, Sheffield.—Needham's Polishing Paste, Pickering's Blanco, Furniture Polish, Plate Powder, "Ye Olde Oak" Furniture Polish, "Don" Metal Polish, etc.

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175 **United Alkali Co., Ltd.**, 30 James Street, Liverpool.—Chemical and Metal Products, including Caustic Soda and Potash, Pearl Ash, Carbide of Calcium, Chloride of Calcium, Bleaching Powder, Chlorates of Soda, Ash and Crystals, Sulphate of Copper, Chloride and Sulphate of Ammonia, Manures, Soaps. Glycerine, Alloys, etc., etc. (See Advt., page 322.)

176 **Fleming, A. B., & Co., Ltd.**, Caroline Park, Edinburgh.—Printing Inks and Specimens, Varnishes, Dry Colours, Sack Printing Paints, Lubricating and Jute Batching Oils. Patent Solidified Oil, Anglo-German and other Greases. (See Advt. below.)

177 **Lever Bros., Limited**, Port Sunlight, Cheshire.—Specimens of Sunlight Soap, Lifebuoy Soap, Brooke's Soap (Monkey Brand), Swan White Floating Soap, Lux, Glycerine, Lever's Dry Soap, Y.Z. Royal Disinfectant Soap Powder, etc.

178 **Riley, John, & Sons.** Hapton Chemical Works, Hapton, near Accrington.—Chemicals, including Sulphur, Sulphuric, Hydrochloric, and Nitric Acids, Sulphate of Copper, Caustic Soda, Muriate of Tin Crystals. Arseniate, Stannate, and Refined Carbonate Soda, etc.

179 **Armstrong, Richard.** Saul Street Soap Works, Preston, Lancashire.—Patent Ammonia and Dry Soap Powders. Manufacturer and Packer to the Trade.

180 **Kolawitch Co., Ltd.**, 71 Upper Parliament Street, Nottingham.—Chemical Preparation for Mixing with Coals or Dross, for the purpose of dispelling Black Smoke, and effecting Economy in Fuel.

181 **Chiswick Soap Co.**, Chiswick, London.—Buttercup Metal Polish, Forget-me-not Furniture Paste, Chiswick Saddle and Soft Soaps.

182 **Stern Bros.**, 57 Gracechurch Street, London, E.C., and Jubilee Buildings, 103A Hope Street, Glasgow.—Manufacturers of Lubricating and Cylinder Oil, Solidified Oils, Petroleum Jellies, and Water White and Yellow Bloomless Oils of every description.

183 **Isdale & M'Callum**, Caledonia Soap Works, Paisley.—Household and Toilet Soaps; Soap Powders; Materials for Soap Manufacture; Glycerine, Crude and Refined; By-products, etc.

184 **Edge, Wm., & Sons, Ltd.**, "Dolly" Blue Works, Bolton, Lancashire.—"Dolly" Tints, "Dolly" Dyes, and Edges, "Dolly" Blue for Household Purposes.

185 **Locke, Blackett & Co., Ltd.**, Lead Works, Newcastle-on-Tyne.—White, Red, Sheet, Pipe and Pig Lead. Litharge, Orange Lead, Shot, and Products illustrating the manufacture of above.

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187 **Morris Little & Son, Ltd.**, Doncaster.—Little's Phenyle Disinfectant, Sanitary Powder, Toilet, Household and Dog Soaps, Carbolic Soft Soaps.

188 **Brown, William, Sons & Co.**, Established 1780, Parkhouse Works, Kinning Park and 62 West Howard Street, Glasgow; 27 West Burn Street, Greenock; and 102 Fenchurch Street, London.—Colours, Paints, Varnishes, and Oils. Drysalteries.

189 **Price's Patent Candle Co., Ltd.**, Belmont Works, Battersea, London, S.W.—Candles, Night Lights, Tapers, Toilet Soaps, Glycerin and Glycerin Preparations, Lubricating Oils, etc. (See Advt. below.)

190 **Young's Paraffin Light and Mineral Oil Co., Ltd.**, 7 West George Street, Glasgow.—Bituminous Shale and products derived therefrom; Crude Oil, Illuminating and Lubricating Oils, Oils for Gas-making and for Cleaning Machinery; Naphtha, Gasoline, Solid Paraffin, Sulphate of Ammonia, etc., Paraffin Candles, Oil Lamps and Stoves.

191 **Garroway, R. & J.**, Netherfield Chemical Works, and 58 Buchanan Street, Glasgow.—Merchants and Manufacturing Chemists. Sulphuric Acid, Nitric Acid, Hydrochloric Acid, Acetic Acid. etc., etc., Soda Ash, Caustic Soda, Bisulphite of Soda, Hyposulphite of Soda, Alum, White Sulphate of Alumina, Sewerage Alum Cake, Rosin Size, Glauber Salts, Epsom Salts, Copperas, Red and Iron Liquor, Wood Charcoal, etc., etc.; Fertilizers, Superphosphates and all other kinds of Manure, etc., etc. (See Advt., page 323.)

192 **Robin & Houston, Ltd.**, Glasgow, Paisley, and London.—Soaps, Paraffin Wax, Stearine Candles, Tapers, Lubricating and Burning Oils for Cycles, etc.

193 **Hinshelwood, Thos., & Co.**, Glenpark Street, Glasgow.—Dry Colours for the following Trades:—Coach Builders, Scenic Artists, Decorators, etc. Paint Grinding, Linoleum and Leather Cloth, Lithographic and Printing Inks.

194 **Smith, T. & H., & Co.**, 19 Duke Street, Edinburgh.—Opiums (various kinds), Morphine, Codeine and other Alkaloids of Opium, Caffeine, Theine, Strychnine, Cantharidine, etc. Salicin, Resin Jalap and Resin Scammory; Tannic Acid and Gallic Acid; Chloroform, etc.

195 **Patent Borax Co., Ltd.**, Ladywood, Birmingham. — Calasko Borax, Borax Extract of Soap, Borax Starch Glaze, and other Borax preparations for household, toilet and laundry uses. (See Advt., page 325.)

196 **Brunner, Mond & Co., Limited**, Winnington, Northwich; Middlewich, Sandbach, and Lostock Gralam (Cheshire) and Silvertown, London.—Carbonate of Soda (Soda Ash), Bi-carbonate of Soda (Refined and Re-crystallised), Soda Crystals, Concentrated Crystal Soda, Caustic Soda, Muriate of Ammonia, Sulphate of Ammonia, Pure Zinc, Bleaching Powder (Hypo-Chlorite of Lime), Saltcake, Muriatic Acid, etc. (See Advt., pages 320 and 321.)

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198 **Ogston & Tennant, Ltd.,** Aberdeen and Glasgow.—Household, Toilet, and Soft Soaps, Paraffin and Composite Candles for home and export trade.

199 **Anglo Italian Talc and Plumbago Mines Co., Ltd.,** 26 Old Hall Street, Liverpool.—French Chalk or Soap Stone, ground and in lump, otherwise known as Talc. Graphite or Blacklead, ground and in lumps, scientifically known as Plumbago.

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201 **The Burmah Oil Company, Ltd.,** 45 Renfield Street, Glasgow, and Rangoon.—Burmese Mineral Oil in its Crude State, and its products. Ornate Burmese Teak Stand.

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205 **Osler, F. & C.,** Broad Street, Birmingham, and 100 Oxford Street, London.—Electric Fittings in every variety of style and finish. Crystal Glass, Ornamental and Domestic China, etc.

206 **Association of Diamond Merchants, Jewellers, and Silversmiths, Ltd.,** 6 Grand Hotel Buildings, Trafalgar Square, London, W.C.—Prize Medals and Diplomas, Paris Exhibition, 1900. All kinds of Precious Stones mounted and unmounted, Superb Collection of Pearls. Very fine Specimens of the Silversmith's Art. English Grandfather and Bracket Quarter-Chiming Clocks. (See Advt. below.)

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208 **Goldsmiths & Silversmiths Co., Ltd.**, 112 Regent Street, London, W.—Pearls and Pearl Collars, Necklaces, and in Ranges; Collection of Diamonds, Sapphires, Emeralds, Rubies, Opals, Turquoises, etc. Diamond Ornaments, Gem, Pearl, and Gold Jewellery. Solid Silver Dessert, Tea, Coffee, and Toilet Services, Candelabra, Lamps, Cups, Bowls, and Presentation Plate. Repeating Watches, Chronographs, Chronometers, and Complicated Watches; also Gold Watches, Municipal Caskets, Chains, Badges, etc. (See Advt. below.)

209 **Craddock, John, C.B.**, 489 Sauchiehall Street, Glasgow.—Illustrating the Manufacture of Whitby Jet, Scotch Pebble Jewellery, and Small Silver Articles, also Rolled Gold Jewellery, Fans and Fancy Goods.

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211 **Sneddon & Sons**, 88 Union Street, Glasgow.—China, Earthenware, Glass, and Ornamental Goods. Special Show of Royal Worcester, Coalport, and Haviland's High-Class Wares.

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214 **Pilkington's Tile and Pottery Co., Ltd.** Head Offices: Clifton Junction, near Manchester. Glasgow Offices and Show Rooms: 96 Renfield Street.—Tiles. Faience, and Mosaic for the Decoration of the Walls and Floors of Buildings, Gold and Silver Medals, Paris Exhibition, 1900.

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218 **Fleming, Reid, & Co., Ltd.** (Proprietors, Scotch Wool and Hosiery Stores). The Worsted Mills, Greenock.—Yarn Spinning Machinery, Knitting Machinery by Hand and Motor Power, Knitting Wools and Hosiery in all Stages of Manufacture.

219 **Forsyth, R. W.,** Renfield Street and Gordon Street, Glasgow.—
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222 **Martin, W. & J.,** 63 Brunswick Street, and Albion Leather Works, Glasgow.—Walrus, Zug Grain, Curried and Tanned Leathers. (See Advt. below.)

223 **Hubert, Ch.,** 292 Regent Street, Oxford Circus, London, W.—Court, Naval, Military, and Hunting Boots and Shoes of every description. Established in Regent Street, London, over one hundred years ago.

224 **Rowan & Co.,** 104 Argyle Street, Glasgow.—Wax Figures in Full Dress Highland Costume, with appropriate Jewellery and Accoutrements. (See Advt., page 378.)

225 **Miller & Porteous,** Skeldon Mills, Hollybush, Ayr.—All-Wool Blankets and Plaidings, pure and of exceptional wear.

226 **Hollins, Wm., & Co., Ltd.,** Spinners and Manufacturers of "Viyella," Brookside Factory, Glasgow, and Blue Boar Court, Friday Street, London, E.C.—"Viyella" Cloth and Garments.

227 **Wardle & Davenport, Ltd.,** Leek, Staffordshire.—"Peri-Lusta" Dyed Cotton Threads, for Embroidery, Crochet, Knitting, and all Classes of Art Needlework. Lustre produced by patented process.

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228 **Willis, Nelson, & Co.,** 26 and 28 Queen St., Glasgow.—Case of Ribbons, Laces, and Millinery Materials, Trimmed and Untrimmed Straw Hats and Bonnets.



MAIN AVENUE.

229 **Pettigrew & Stephens,** 191 Sauchiehall St., Glasgow.—Silk Spinning and Weaving from the Cocoon to the finished article. Irish Peasant Industries. Hand-Loom Linen Damask Weaving, and Embroidering on Linen. Drawn Thread Work, Hand Sewing on Undergarments, etc. (See Advt., page 4; also first page after Index.)

SOUTH-WEST COURTS.

230 **Glen, John,** 159 Ingram Street, Glasgow.—Boots and Shoes (Bective).

231 **Louttit, James,** 259 Hope Street, Glasgow.—Boots and Shoes.

232 **Liddell, Wm., & Co.,** 42 Upper Queen Street, Belfast.—Table Cloths and Napkins, Hemstitched Linen Sheets and Pillow Cases, Embroidered Bed Spreads, Pillow Shams, Tea Cloths, etc.; Shirting Linens, Huckaback Towels, Cambric Handkerchiefs, etc.

233 **Patent Woollen Cloth,** Elmwood Mills, Leeds. Est. 1840.—Makers of all Classes of Felt Goods, including Carpets and Upholstery Felts, Boot and Shoe Felts, Linings, Saddlery Felts and Saddle Mats, Ammunition Felts, and Polishing Bobs.

234 **Wright, A. R., & Co.,** Bowling Green Mill, Bingley, Yorkshire.—Dress Goods (All Wool), Plain and Fancy Silk Goods (All Silk), Waterproofing Material, etc.

GRAND AVENUE.

235 **Moss, Rimmington & Co., Ltd.,** Manufacturers and Contractors to His Majesty's Government, Portholme Mills, Selby, Yorkshire.—Mustard, Mustard Oil, Baking Powders, Shop Twines.

236 **Singer Manufacturing Co., The,** 39 Union Street and 68 Gordon Street, Glasgow; also London, New York, and Branches.—Sewing Machines, Family and Manufacturing, for Plain, Ornamental, Overseaming, Binding, Tucking, and other descriptions of Sewing, Power Fittings, etc. Various Styles of Tables, Drawers, Stands, Covers, etc.

237 **Royal Glasgow Asylum for the Blind,** 100 Castle Street. Glasgow.—Wicker Work, Brushes, Wire Work, Cordage, Bedding, and Technical Work Manufactured by Blind Children.

238 **Anderson's, John, Royal Polytechnic, Ltd.,** 97 Argyle Street, Glasgow.—Lace Makers at Work. Real Lace, Home and Foreign.

239 **Harrison Patent Knitting Machine Co., Ltd.,** Manufacturers, 48 Upper Brook Street, Manchester, and 103A Oxford Street, London.—Knitting Machines (Circular and Flat) by Hand or Power as used in the Manufacture of Clothing and Hosiery.

240 **Baldwin & Walker, Ltd.,** West Croft Mills, Halifax.—Exhibition of "Ladyship" Knitting and Fancy Wools, shewing the Process of their Manufacture into Hosiery.

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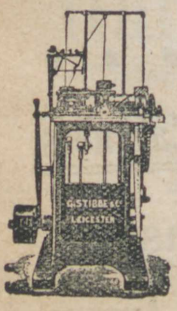

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241 **Fraser, Ross, & Co., Ltd.**, 60 Ingram St., Glasgow.—Sewing Machines and Patent Pressing Iron, driven by Power, illustrating the Manufacture of Clothing.

242 **Macarthur, J. D.**, Ayr.—"Wincella" Regd. Materials for Shirts, Blouses, Underwear, etc. Materials and Garments of All-Wool, Worsted, and Cotton, and a Mixture of same. Hosiery and Gloves.

243 **Foster, James**, 41 Friargate, Preston.—Knitting and Accessory Machines for the Hosiery Trade. Specimens of Stockings, Gloves, Vests, Knitted Woollen Underwear, and Wools.

244 **Westlands, Laidlaw & Co.**, 4 Dixon Street, Glasgow, and 42 Basinghall Street, London, E.C.—Silk, Felt, and Straw Hats. Tweed and Fancy Hats and Caps. Official and Tropical Hats, Caps, and Helmets.

245 **Wilson, John, & Son, Belfast, Ltd.**, Downshire House, Belfast, and 139 Buchanan Street, Glasgow.—Damask Table Linens, Sheetings, Towellings, Cambric Handkerchiefs, Lace, Ladies' Underclothing, Gentlemen's Shirts, etc.

246 **Shields, John, & Co., Ltd.**, Wallace Works, Perth.—Linen Damask Table Cloths, Napkins, Towels, Coloured Cotton Covers, etc. Special facilities for Weaving Crests and Names.

247 **Murphy & Shields**, 25 Franklin St., Belfast, and 34-36 Gresham St., London. and Lurgan, N.J.—Damask Table Linen Sheetings, Handkerchiefs, Serviettes, Bedspreads, Tea and Tray Cloths, etc., Embroidered, Hem-stitched, and Plain.

248 **Wilson, Bros., Bobbin Co. (1900), Ltd.**, Cornholme Mills, Todmorden.—Bobbins and Shuttles for Spinning, Doubling, and Manufacturing all kinds of Textile Fabrics, Cotton, Wool, Silk, etc. Chemical Distillation from Waste Materials.

249 **United Turkey Red Co., Ltd.**, Turkey Red Dyers of Cloth and Yarns, and Calico Printers, 46 West George Street, Glasgow.—Cotton Cloths and Yarns.

250 **Buckley, William**, Gatehead Mills, Delph, near Oldham.—Woollen Shawls and Rugs, and Fancy Vestings.

251 **Reid & Todd**, 6 and 8 Renfield St., 56 Gordon St., 56 Glassford St., Glasgow. —Umbrellas, Sunshades, Walking Sticks, Portmanteaus, Travelling Bags, Overland Trunks, Dress Baskets, Suit Cases, Dressing Bags and Cases, Purse Bags, Satchels, Writing Desks, Toilet Brushes, Photo. Frames, etc. (See Advt., page 29.)

252 **Russ & Co.**, 50 Buchanan Street, Glasgow; also at 75 Princes Street, Edinburgh, and 70 New Bond Street, London, W.—Highest-Grade Manufactured Fur Garments, Fur Skins, and Stuffed Animals.

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253 **Kufner & Berstecher,** Manufacturing Furriers and Fur-skin Importers, Wholesale and Retail, 49 Buchanan Street, Glasgow.—High-class Manufactured Fur Garments, and Fur Garments of all descriptions.

254 **Dr. Jaeger's Sanitary Woollen System Co., Ltd.,** 95 Milton Street, London, E.C., and 16 Buchanan Street, Glasgow.—Every detail of Pure Wool Clothing and Bedding for Men, Women, and Children, adapted to various temperatures and climates. Important as a tried means of ensuring health and comfort. Interesting as showing how Pure Woollen Materials may be substituted in Clothing and Bedding for less hygienic materials hitherto used.

255 **Scottish Co-operative Wholesale Society, Ltd.,** Registered Office: 95 Morrison Street, Glasgow. Branches: Leith, Kilmarnock, Dundee, London, and Enniskillen (Ireland).—Groceries, Provisions, Furniture, Drapery, Boots, Confections, and Prepared Packet Foods, Tobacco, etc., etc. (See Advt., page 369.)

256 **Foster, John, & Son, Ltd.,** Black Dike Mills, Queensbury, Bradford.—Alpaca and Mohair in various stages from the raw material to yarn. Goods made from Alpaca and Mohair. Silk Seals and Plushes. (See Advt., page 373.)

257 **Allan, James, & Son, Ltd.,** 83 Sauchiehall Street, Glasgow, and at Edinburgh and Dundee.—Boots, Shoes, Spurs, etc.

258 **Wheeler & Wilson Manufacturing Co.,** Agent, Wm. T. Thomson, 124 Queen Street, Glasgow.—Sewing Machines. Sectional Benching with Power Fittings for driving Sewing Machines, and Special Labour-Saving Devices for Manufacturers.

259 **Clyde Rubber Works Co., Ltd.,** Clyde Street, Port-Dundas, Glasgow.—India-rubber and Asbestos Goods for Mechanical, Engineering, Railway and Steamship Purposes.

260 **Currie, Thomson & Co.,** 45 Jamaica Street, Glasgow.—India-rubber and Waterproof Goods, etc.

261 **Isidor Frankenburg, Limited,** Greengate Rubber Works, Salford.—Waterproof Cloth and Garments and Showerproof Garments, Leggings, Gaiters, Tennis and Rubber Shoes.

262 **MacLellan, George, & Co.,** Glasgow Rubber Works, Maryhill, Glasgow, Warehouse, 332 Argyle Street.—India Rubber Mechanical Goods, Valves, Sheet, Insertion, Washers, Packings, Hose, Belting, Cycle Tyres, Asbestos Goods, Waterproof Garments, etc. (See Advt., page 273.)

263 **Eglinton Chrome Tanning Co., Ltd.,** 8 Firhill Road, Glasgow.—Chrome Tanned Leather Hides and Skins. Various articles manufactured from Chrome Leather.

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266 **Mitchell, Andrew, & Co., Ltd.,** 12 Princes Square, Glasgow, and Dundee.—Sail Canvas and Ducks (Flax and Cotton). Twines, Flax, Hemp, Jute, and Cotton Fabrics. Tarpaulin and Waterproof Canvas. (See Advt., page 330.)

267 **Morgan, Joseph, & Son,** Ducie Mills, Manchester.—Wicks for Lamps, Candles, and Petroleum Stoves.

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278 **M'Neill, F., & Co.**, Lamb's Buildings, Bunhill Row, London, E.C.—Felts, for Asphalt Roofing; Sarking and Inodorous for placing under Slate and Tile Roofs. Brown and Black Ship's Sheathing; Shoemaker's Dry Hair for lining and deadening, Covering Pipes, etc. Patent Pipe Coverings. Metal-Asphalte and Fibrous Asphalte Damp Courses, and Patent Slag Wool or Silicate Cotton, etc.

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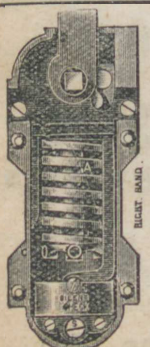

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287 **Finlay, John, & Co., Ltd.**, 18 Renfield Street, Glasgow, and **Longden & Co.**, Phœnix Works, Sheffield.—Grates, Mantelpieces (Wood), Tiled Hearths and Panels, Cooking Ranges, Electric Fittings, Acetylene Gas-Making Machine.

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312 Simpson, James, 102-108 London Street, Glasgow.—Oak Dining-Room and Mahogany Bedroom Furniture.

313 Howard & Sons, Ltd., 25, 26, and 27 Berners Street, Oxford Street, London, W.—Sanitary Parquet Flooring for Hospitals, Private and Public Buildings. Decorative Interior Woodwork. Howard's Down-stuffed Chairs, Sofas, etc.

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321 Williams Typewriter Company, for Europe, 49 Bothwell Street, Glasgow.—Williams Typewriting Machines and Accessories. Desks, Tables, and Office Supplies.

322 Johnson, Walter, & Co., Ltd., 67-68 King William Street, London, E.C.—Sole Agents for the British Isles for the F.S. Webster Co.'s "Star Brand" Typewriter Ribbons, Multi-Kopy Carbon Papers, etc. Edison Mimeograph and Diaphragm, Duplicating Machines, etc., etc.



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324 **Standard Desk Co., Ltd.**, 60 Wilson Street, Finsbury Square, London, E.C.—American Roll Top Desks in Oak, Walnut, and Mahogany. Rotary and Tilting Chairs.

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326 **The Chardonnet Silk Co., Ltd.** (Works: Wolston, near Coventry). Show Room and Offices: 112 Wood Street, London, E.C. Agents: M'Lennan, Blair & Co., 29 Montrose Street, Glasgow.—Manufacturers of Artificial Silk. Particulars can be had from the attendant.

327 **Conder & Co., Ltd.**, Bath Vale Mill, Congleton, Cheshire.—Yarns made from Silk Waste, Used Wearing Dress Materials, Lace, Hosiery, Embroidery, and other fabrics.

328 **Briggs, Wm., & Co., Ltd.**, 71 Cannon Street, Manchester.—Specimens of Point Lace Work and Ribbon Embroidery, framed.

SOUTH-WEST COURTS.

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Benson, W. A. S., & Co., 82, 83 New Bond Street, London. See No 1067.
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Hendry, James, 252 Main Street, Bridgeton. See No. 400.
Horton, W., 98 Buchanan Street, Glasgow. See No. 966.
Indestructible Rolled Steel Axle Box, Ltd., 53 Victoria Street, Westminster, London, S.W. See No. 502.
Keith James, & Blackmann Fan Co., Ltd., 27 Farringdon Avenne, London. See No. 597.
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Macfarlane, Walter, & Co., Saracen Foundry, Possilpark, Glasgow. See No. 519.
MacNaughton & Rankine, 110 Bath Street, Glasgow. See No. 808.
M'Glashan, John, & Co., Albany Works, Glasgow. See No. 476.
M'Gregor, D., & Co., 37-40 Clyde Place, Glasgow. See No. 858.
Miller, John, & Co., 96 Dale Street, Glasgow. See No. 412.
Mitchell, Robert, & Son, 18-20 Shaftesbury Street, Glasgow. See No. 819.
Newall, R. S., & Son, Ltd., 19 Exchange Square, Glasgow. See No. 5.
Nobel's Explosives Co., Ltd., 195 West George Street, Glasgow. See No. 960.
Norval & Sons, 85 Bothwell Street, Glasgow. See No. 972.
Preston Davies Tyre & Valve Co., Ltd., Broad Street, Bridgeton, Glasgow See No. 803.
Russell, Joseph Wm., & Co., 50 Charles Street, St. Rollox, Glasgow. See No. 487.
Stephens & Co., Dinas Silica Works, Kidwelly, Wales. See No. 378.
Stevens, Thomas, Stevergraph Works, Coventry. See No. 410.
Stewart & Young, 260 Broad Street, Mile-end, Glasgow. See No. 609.
Swinden, C. T. E., & Co., 22 Queen Victoria Street, London, E.C. See No. 483.
United Flexible Metallic Tubing Co., Ltd., 52 St. Enoch Square, Glasgow. See No. 481.
Verkaufs Syndikat der Kaliwerke, Germany. See No. 33.
Wallach Bros., 57 Gracechurch Street, London. See No. 385.

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361 **Bohler Bros., & Co.**, Styrian Steel Works, Rockingham Street, Sheffield.—Mines in Styria. Houses in Vienna, Berlin, Paris, Milan, Buda-Pest, Prague, Frankfort o/m. – Tool Steel in Bars, Sections, and Fractures. Samples of Iron Ore. Finished Articles. Gun Barrel-Forgings, Magnets, etc. (See Advt., page 92.)

362 **White, David, & Co.**, 37 Eaglesham Street, Plantation, Glasgow.—Model of Aluminium Punt Steam Launch, Yacht, Boat and Barge Builders of Aluminium, Steel, and Wood.

363 **Croall, R. Douglas**, Craigcrook Castle, Mid-Lothian.—Working Model, 2″ scale, of a Caledonian Four-coupled Bogie Express Passenger Engine, working pressure 120lbs., cylinders $2\frac{5}{8} \times 4$″, tubes 24″ × $\frac{3}{4}$ dia, heating surface 2025 square inches.

364 **Dubs & Co.**, Glasgow Locomotive Works, Glasgow.—Working Model of a Portable Engine made by Burmese Weaver Boy about 18 years of age, who was without any mechanical training whatever. The Tools used in construction were also made by the boy. The Boiler is made from an old paint keg, the Pump from lead obtained from some bullets. It is of interest as showing what untutored mechanical instinct is capable of accomplishing. (See Advt., page 279.)

365 **Barwell, Chas. J. W.**, Norton Street, Hockley, Birmingham.—Brass and Copper Tubes, Plain and Ornamental, for Marine and Locomotive Engineers, Brass Founders, Gasfitters, Electricians, and Ammunition Manufacturers.

366 **Wiggin, Henry, & Co., Ltd.**, established 1835, Birmingham.—Nickel Refiners, Manufacturers' Cobalt Oxide, Tin Oxide, Glass Makers' Red Lead; German Silver and White Metal Castings and Tubes.

367 **Edelsten, John, & Son**, Mersey Works, Warrington.—Lancashire Tools and Files ("Magna Charta" Brand).

368 **Miller, William**, 212 St. Vincent Street, Glasgow.—Contractor to H.M. Government, by special appointment to H.M. Board of Works. Telegrams "Datum," Glasgow.—Patent Chemical "Concussion" Fire Engines. Patent Fire Buckets and Fire Brigade Pumps. (See Advt., Page 333.)

NEILSON, REID & CO.,

Hyde Park Locomotive Works, SPRINGBURN, GLASGOW.

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Output Over **6000** Locomotives.

Contractors 14-in. TANK ENGINES generally in Stock or in progress.

TELEGRAMS "NEILSON, SPRINGBURN."

THE LARGEST LOCOMOTIVE WORKS IN EUROPE.

369 BEARDMORE, WM., & CO. (late R. Napier & Sons), Govan, Glasgow.—Models of Types of Merchant Steamers.

The Models marked * are in the historical collection.

Year.	Type.	Name.	Tons.	I.H.P.	Owners.	Service.
1843	P.S.	Vanguard -	680	1000	Dublin & Glasgow S.P. Co.	The first steamer built by R. Napier
*1846	P.S.	Viceroy - -	725	1100	do.	do.
*1855	S.S.	Fiery Cross -	1140	1200	Jardine, Mathieson & Co.	India and China
1859	P.S.	Shannon -	3090	2500	Royal Mail S.P. Co.	- West Indies
*1861	P.S.	Scotia - -	4050	4000	Cunard S.S. Co.	- Liverpool and N. York
1861	S.S.	China - -	2540	2500	do.	- do. do.
1862	P.S.	Clan Alpine -	1500	1200	Jardine, Mathieson & Co.	India and China
1865	S.S.	Periere - -	3230	3000	Cie. Generale Transatlantique	Paris
*1871	S.S.	Garonne -	3870	2700	Pacific S.N. Co.	- L'pool and Valparaiso
1872	S.S.	Windsor Castle	2680	1000	Donald Currie & Co.	London & S. Africa
1873	S.S.	Galicia - -	3830	2700	Pacific S.N. Co.	- L'pool and Valparaiso
1879	S.S.	Pizzaro - -	2400	2500	do.	- Pacific West Coast
*1881	S.S.	Parisian -	5360	6000	Allan Line -	- Liverpool and Canada
1882	S.S.	Aberdeen -	3600	2700	Aberdeen Line -	- London and Australia
1884	S.S.	Tamaulipas -	4130	5200	Compania Mexicana	- Vera Cruz and L'pool
1884	S.S.	Australasian -	3630	3000	Aberdeen Line -	- London to Australia
1887	P.S.	Sylvester -		550	Caucasus Mercury S.P. Co.	River Volga
1889	S.S.	Atrato - -	5600	6700	Royal Mail S.P. Co.	W. Indies and R. Plate
1891	T.S.	Ophir - -	6900	11000	Orient S.N. Co.	- London and Australia
1892	S.S.	Tewfik Rabbani	2030	3670	Khedivial S.P. Co.	Alexandria and Const'ple
1896	S.S.	La Plata -	3440	3000	Royal Mail S.P. Co.	- W. Indies and R. Plate
1893	S.S.	Kasuga Maru -	3500	4300	Nippon Yusen Kaisha	Japan and Australia
1898	S.S.	Moravian -	4570	4600	Aberdeen Line -	- London and Australia
1899	S.S.	Eastern - -	3580	3500	Eastern and Aus. S.S. Co.	Australia and Japan
1899	S.S.	Tagus - -	5570	8000	Royal Mail S.P. Co.	- W. Indies and R. Plate
1901	T.S.	Alnwick Castle	6000	4000	Union Castle Line	- London and S. Africa
1901	S.S.	Highland Brigade	5600	4000	H. & W. Nelson	- River Plate

Models of Types of War Vessels, etc.

Year.	Name.	Tons.	I.H.P.	Description.	Owners.
1844	H.M.S. Jackall -	370	600	Paddle Gunboat	- British Admiralty
*1849	H.M.S. Simoom	2900	1700	Screw Frigate - -	do.
1856	H.M.S. Erebus -	1825	1100	Armour Clad Battery	do.
1861	H.M.S. Black Prince	9400	5770	do. Frigate	do.
1862	H.M.S. Hector -	6550	3250	do. Ram -	do.

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GLASGOW: Mr. W. E. P. BOWIE, 90 Dobbie's Loan.

Year.	Name.	Tons.	I.H.P.	Description.	Service.
1863	R.D.S. Rolfe Krake	1340	750	Armour Clad Turret -	Danish Government
1864	I.O.S. Osman Ghazy	6450	3750	do. Frigate	Turkish Government
1866	H.M.S. Malabar -	6200	4900	Indian Troopship -	British Government
1868	R.N.S. De Buffel -	2190	2170	Armour Clad Turret -	Dutch Government
1868	R.N.S. De Tyger -	1340	800	do. Monitor	do.
1869	H.M.S. Audacious -	5900	5200	do. Frigate	British Admiralty
1877	H.M.S. Northampton	7320	6000	do. Corvette	do.
1882	H.M.S. Leander -	3770	5600	Protected Cruiser -	do.
1886	H.M.S. Australia -	5000	9650	Belted Cruiser - -	do.
1886	S.S. Recorder -	1200	1400	Cable Steamer -	Eastern Telegraph Co.
1887	I.R.S. Sinope -	10150	12600	Battleship -	Imperial Russian Navy
1892	H.M.S. Gibraltar -	7700	10250	First Class Cruiser -	British Admiralty
1900	T.S. John Pender -	4100	3700	Cable Steamer -	Eastern Telegraph Co.
1901	H.M.S. Berwick -	9800	22000	Armoured Cruiser -	British Admiralty

Photographs.

1882	H.M.S. Leander -	Plans of Profile, Rigging, etc.	
1882	S.S. Aberdeen -	Triple Expansion Screw Engines -	2700 I.H.P.
1884	S.S. Australasian -	do. Kirk's Valve Gear -	3000 ,,
1887	P.S. Sylvester -	Triple Expansion Paddle Engines -	550 ,,
1887	T.S. Sinope -	Triple Expansion Twin Screw Engines	12600 ,,
1891	H.M.S. Ophir -	Dining Saloon Dome	

(See Advt., page 236.)

370 Bryden & Middleton, Merlin Ironworks, Scotstoun, Glasgow.—Smithwork Examples, Steel and Iron Roofing, Fencing, Gates, Railings, Balusters, Sign Brackets, Ornamental Table Lamps, Scrollwork, Panels, Art Smithwork, etc.

371 MacCulloch, Andrew, 143 W. Regent Street, Glasgow.—Aberfoyle Blue and Green Slates. Ardshiel Grey Granite for Railways, etc. Black Granite for Architectural and Monumental purposes. Quartz for Pottery Grinding.

372 Rudd, John A., 177 West George Street, Glasgow.—Electrical Engineering Appliances, Speed Regulator and Electric Stop Motion for Steam Engines, Electric Light Cables, Telephones and Instruments, Piston Rings, etc.

373 St. Mungo Manufacturing Co., 200 Glenpark Road, Glasgow.—Gutta Percha Manufacturers, Golf Balls, Fin Cutters for Golf Balls, and other Golf Requisites.

374 Cambridge Scientific Instrument Co., Ltd., Cambridge.—Resistance Boxes, Standard Coils and Apparatus for Delicate Electrical Measurements, Duddell's Oscillograph, Calendar Electric Recorder, Recording Pyrometers, Thermometers, and Apparatus for Measuring Temperature, etc.

375 Willcox, W. H., & Co., Ltd., 34 and 36 Southwark Street, London.—Lubricating and Cylinder Oils, and Willcox's Semi-Rotary Patent Pumps and Wire-Bound Hose. Penberthy's Patent Injector and Willcox's X.L. Injectors, Patent Oil Purifiers, Filters, Engine-Packing Lubricators, and General Engineers' Stores.

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376 **Boothman Patent Filter Syndicate, Ltd.,** 105 West George Street, Glasgow.—One 4-Element Feed-Water Filter, suitable for 1500 I.H.P. One 3-Element Filter, suitable for 1000 I.H.P. (See Advt., page 248.)
"Reliance" Patent Feed-Water Regulator fitted on a complete 2″-check valve. (See Advt., page 248.)

Hastie, John, & Co., Ltd., Engineers, Greenock.—Boothman & Hastie's Patent Combined Liquid Rudder Buffer and Rudder Brake. (See Advt., page 256.)

377 **Castlecary Fireclay Co., Ltd.** Works: Castlecary, near Glasgow (Telegrams, "Weir, Castlecary, Glasgow); and Registered Office: 1 Exchange Place, Middlesborough (Telegrams, "M'Lauchlan, Middlesborough).—Fireclay Goods, Bricks, Blocks, etc., manufactured for the purpose of meeting all cases where Refractory Power and heat resistance of the highest degree is requisite.

378 **Stephens & Co.,** Kidwelly, Wales.—Dinas Silica Bricks and Fine Dinas Silica Cement, Stephens' Patent Steel Moulders' Silica Paint and Special Steel Moulders' Composition.

379 **Dougall, James, & Sons, Ltd.,** Bonnyside Fire Brick Works, Bonnybridge.—Fire Bricks, Blocks, Covers, etc., for Boilers, Coke Ovens, Furnaces, etc.; Stoppers, Nozzles, and Swan-Neck Covers for Pouring Ladles of Siemens-Martin, and Basil Steel Furnaces, Gannister and Gannister Bricks. (See Advt. below.)

380 **Fry, Sir Theodore, & Co., Ltd.,** Rise Carr Rolling Mills, Darlington.—Sections of Iron and Steel Bars, Angles, Tees, Convex, Channels, Tyre and Fire-Bars, Fencing Standards Colliery and Mining Rails, Railway Fastenings, etc. Special Sections for Shipbuilders, Waggon Builders, and Agricultural Engineers. (See Advt., page 264.)

381 **Bull's Metal & Melloid Company, Ltd.,** Leadenhall Chambers, 4 St. Mary Axe, London.—Propellers, and Propeller Blades cast, finished and bent. Propeller Blades forged for Torpedo Gun Boats. Bull's Metal forged Pump Rods, Pump and Valve Spindles, Bolts and Nuts, etc., and Marine Tail Shafts, Melloid Rods, Condenser Tubes, Locomotive Fire Box Plates, Boiler Stays, Melloid Phosphor Bronze Bearings, Tempalto White Metal, Packing Rings for Piston Rods, Test Bars, etc.

382 **Clyde Nail Co., Ltd.,** Newton.—Nails, Dog Spikes, Brads, Improved Brads, and Tacks.

383 **Vacuum Oil Company,** Atlantic Chambers, 45 Hope Street, Glasgow.—Various kinds of High Grade Lubricants in Crystals, Oilers, Lubricators, Oil Cabinets, and Oil Filters.

384 **Blast Furnace Power Syndicate, Ltd.,** 29 Great George Street, Westminster, London, S.W.—Photographs and Models of the Thwaite-Gardner system of utilising Waste Gases of Blast Furnaces for the economic production of power.

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386 **Carbon Cement Co., Ltd.,** 166 St. James Street, Kinning Park, Glasgow.—Boiler and Pipe Coverings and Insulating Materials. Agents for Jones' British Made Silicate Cotton.

387 **Reid, M'Farlane, & Co., Ltd.,** 58 and 60 Hydepark Street, Glasgow.—Nonconducting Materials for Covering Boilers, Cylinders, Pipes, and all Heating Surfaces for the purpose of preventing the radiation of heat, the waste of fuel and condensation. (See Advt., page 270.)

388 **Henderson, Thomas, M.I.M.E.,** Trueman Street, Liverpool.—Henderson's Patents. Drawings, Photographs, and Lithographs of Mechanical Stokers, Automatic Self-Cleaning Furnaces, Air-circulating Furnace Fronts, etc.

389 **Milnes, Henry,** Ingleby Works, Bradford, Yorkshire.—Lathes, Self-acting, Siding, Surfacing, and Screw Cutting, Treble Geared, Head Stock, 6″ centres. Combination Lathe, 5″ centres; Ornamental Turning Lathe, 5″ centres. (See Advt. below.)

390 **Hunt & Mitton,** Oozells Street North, Birmingham (Agents for Scotland, Arthur, C. R., & Sandeman, 41 Robertson Street, Glasgow.)—Engine, Boiler, and Fire Fittings, Pressure Gauges, Iron and Gun Metal Lubricators and Valves, Fire Extinguishing Appliances and Pumps. Sight-feed Oil Lubricators a speciality.

391 **Reid, J. Miller,** 110 Lancefield Street, Glasgow.—Steam Fittings, Brass and Copper Work for Engineers, Shipbuilders, etc. Brass, Gun-Metal, Phosphor, and Manganese Bronze Castings.

392 **Scottish Aluminium Company, Ltd.,** Greenock.—Large Sheet of Aluminium, 30 feet long by 75 inches wide; Circle of Sheet Aluminium, Light Alloys, and Bronzes. Samples of Plain and Ornamental Tubes. Cases of Finished Articles lent by various Customers.

393 **Christie, W., & Co.,** 70 Wellington Street, Glasgow.—Crawford's Patent Automatic Watertight Bulkhead Door.

394 **Shepherd, Alex.,** 505 Springburn Road, Glasgow.—Working Model of a Locomotive with Tender, length 3′ 3½″, Cylinders ⅞″ × 1⅝″, Driving Wheels 5¼″, Bogie Wheels 2¼″, Gauge 3⅝″.

395 **Le Carbone** (late Lacombe & Cie.), 36 Lime Street, London, E.C.—Batteries (Primary) and Carbons, Carbon Brushes, Contact Pieces, etc. (See Advt., page 295.)

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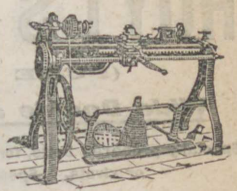

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397 **Tullis, John, & Son, Ltd.,** St. Ann's Leather Works, Glasgow.—Driving Belts, Oak Tanned Leather Belting, Orange Tan Leather Belting, Gnu Hide Belting, Link, Raw Hide, Giraffe, Chonata, Viking, Llama Hair, and Cotton Beltings; Belt Laces, Hydraulic Cups and Ram Rings, Pickers, Hose Pipes, and all kinds of Mechanical Leathers. (See Advt., page 18.)

398 **Balderston & Co.,** 201 St. Vincent Street, Glasgow.—Hoyt's Leather Belting for Driving Machines. (See Advt. below.)

399 **Dick, R. & J.,** Greenhead Works, Glasgow.—Machinery Driving Belts and Horse Shoe Pads.

400 **Hendry, James,** 252 Main Street, Bridgeton, Glasgow.—Hendry's Patent Laminated Leather Belting. Hendry's Patent Volute Leather Covered Pulleys. (See Advt., pages 93 and 251.)

401 **Frictionless Engine Packing Co., Ltd.,** Manchester; Sole Agent for Scotland: David Gray, 77 West Nile Street, Glasgow.—Karmal Engine and Hydraulic Packing, Patent "Roko" Edge, Hair and Cotton Duck Beltings.

402 **Isidor Frankenburg, Limited,** Greengate, Salford.—Manufacturers of Cables and Wires, insulated with India Rubber for Electric Lighting, Telegraph and Power Transmission; also of Rubber for Electrical and other purposes.

403 **The General Electric Co., Ltd.,** 71 Queen Victoria Street, London.—Generators and Motors for Single-phase, Polyphase, and Continuous Current. Electrical Apparatus, Fittings, Bells, and Telephones, Switches, Cut Outs, Switchboards, Small Fans, Heating Apparatus, Incandescent Electric Lamps, Arc Lamps, etc.

404 **M'Geoch, William, & Co., Ltd.,** 108 Argyle Street, Glasgow, and Warwick Works, Birmingham.—Electric Light fittings for houses and ships. Wilson's Patent Motor Starting Switches, Electrical Accessories, etc., etc. Ships, Railway, and Builders' Brassfoundry, Ships' Oil and Candle Lamps, Architectural Wrot Iron Work. Agents for Johnson & Phillips' Enclosed long burning "Ark" Lamps, Electric Cables and Wires. "Sunbeam" Incandescent Lamps. Nalder Brothers & Thompson's Voltmeters and Ammeters. (See Advt., page 297.)

405 **Morris, Warden & Co.,** 25 Gordon Street, Glasgow.—British Insulated Wire Co., Ltd. (Morley-Fricker Meters), Stand No. 406; British Insulated Wire Co., L'd., Stand No 407; Tudor Accumulator Co., Stand, No. 408; J. & E. Hall, Ltd., Stand, No 580. Photographs of Machinery, Brockie Pell Arc Lamps, as used in the General Lighting of the Exhibition Buildings.

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All our Belts are made only from the centre or solid part of the hide, stretched in such a manner that in use they run Perfectly straight without stretching or slipping.

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406 **British Insulated Wire Co , Ltd.**, Morris, Warden & Co., 25 Gordon Street, Glasgow.—Morley-Fricker Meters at work showing Mechanism. (See Advt. below, also page 301.)

407 **British Insulated Wire Co., Ltd.**, Prescot, Lancashire; Glasgow Agents: Morris, Warden & Co., 25 Gordon Street, Glasgow.—Stand, No. 405.—Cables for Electric Light, Telephone, Power, and Tramways. Joint Boxes, Conduits, and Troughing. Section Pillars, Trolley Poles, and Overhead Tramway Equipment. Electrical House Wire and Accessories. (See Advt. below, also page 301.)

408 **Tudor Accumulator Co., Ltd.**, 16 Victoria Street, London, S.W., and 25 Gordon Street, Glasgow (Morris, Warden & Co.). Works: Dukinfield, nr. Manchester. Various sizes and types of Tudor Cells in glass, lead-lined and lead boxes. Specimens of plates and accessories. Small battery in use for lighting stand, charged by motor generator. See also Stand No. 405. (See Advt., pages 130 and 165.)

409 **The Ericsson Bell Telephone Co.**, Baltic Chambers, 50 Wellington Street, Glasgow.—Telephone and Telephonic Apparatus. (See Advt., page 296.)

410 **Stevens, Thomas**, Stevengraph Works, Coventry.—Improved Jacquard Looms in Motion, Weaving Coloured Silk Pictures and Photos, Hat and Cap Ribbons, School Badges, Silk Labels etc.

411 **Clay Cross Company**, Clay Cross, near Chesterfield, Derbyshire.—Improved Patent Modern Fuel Economisers, standard size, for heating the feed-water by utilising the waste heat from all types of steam boilers. (See Advt., page 318.)

412 **Miller, John, & Co.**, 86 Dale Street, Glasgow, S.S.—Continuous Working Distillery Apparatus, Cooling Appliances, and other Copper Work.

413 **Miller, A. B., & Co.**, 103 Bothwell Street, Glasgow.—Boxmaking and Wood Printing Machines, etc., shewn at work.

414 **Clarke, Steavenson & Co., Ltd.**, Lidgett Electrical Works, Hoyland Common, Barnsley.—Electrically driven long wall Disc Type Coal Cutting Machine with Accessories.

415 **Avery, W. & T., Ltd.**, Birmingham and Glasgow.—Avery's Weighbridges for Railway Waggons, Lorries, Carts, and Cattle; Platform, Sack, Coal, and Automatic Grain Weighing Machines; Self-indicating Dial Weighbridges and Quadrant Hutch Weighing Machines; Bankers', Inspectors', Chemists', and Scientific Balances, Patent Agate Beams, French Machines and Counter Scales.

416 **Bennie, John**, Star Engine Works, 149-155 Moncur Street, Glasgow.—Electric and Hydraulic Passenger Lift. Hydraulic Warehouse Lift, Hydraulic Pumping Engine. Hydraulic Intensifier. Hydraulic Press. (See Advt., page 228.)

THE
BRITISH INSULATED WIRE CO., Ltd.,
PRESCOT, LANCS., ENGLAND.
Cable Makers, Tramway Contractors.
See ILLUSTRATED ADVERTISEMENT, PAGE 301.

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SCOTLAND: MORRIS WARDEN & CO., 25 Gordon St., GLASGOW.
AUSTRALIA: B. DEAKIN, 65 Queen St., MELBOURNE.
SOUTH AFRICA: H. C. NEWTON, P. O. Box, No. 305, CAPE TOWN.
CONTINENTAL: DOUGLAS WELLS, 7 Rue de la Pepiniere, BRUSSELS.

STAND No. **406.**

417 **Reavell & Co., Ltd.,** Ranelagh Works, Ipswich.—Compound, Enclosed, Single Acting, Double Crank Engine, Directly Coupled, to Dynamo. Quadruplex, Enclosed Single Acting Air Compressors, Compressors, both Electrically-driven and Belt-driven, fitted with Automatic Air Delivery for Working Pneumatic Tools. Vertical and Horizontal Duplex Compressors, suitable for Low Pressures. Vertical Air Hoists.

418 **Wheeler Condenser and Engineering Co.,** 120 Queen Victoria Street, London, E.C.—Condensers with Combined Air and Circulating Pump. Heaters and Steam Pumps.

419 **Sinclair, George,** Albion Boiler Works, Bonnington, Leith.—Water Tube Steam Boiler.

420 **Broadbent, Thos., & Sons, Ltd.,** Central Iron Works, Huddersfield, England, and Suffolk House, Laurence Pountney Hill, London, E.C.—One 36″ Improved Electrically Driven Suspended Hydro Extractor with Perforated Copper Cage.

421 **Willcox Bros.,** 15 Norfolk Street, Sunderland.—Willcox's Patent Propeller and Patent Radio-Mundal Evaporator. Feed Heater. Marine Feed Water Filter and Independent Feed Water Pump. 2 N.H.P. Gas Engine.

422 **National Gas Engine Co., Ltd.,** Ashton-under-Lyne.—Gas Engines (1) "T" type, 391 H.P., 180 revolutions; (2) "P" type, 19 I.H.P., 200 revolutions; (3) "M" type, 9½ I.H.P., 230 revolutions; (4) "KA" type, 5 I.H.P., 280 revolutions; (5) "IE" type, combined with direct driven Dynamo. The above engines fitted with Patent Starting arrangement, Crank Pin Lubricator, Air and Special Exhaust Silencers, etc. (See Advt. below.)

423 **Andrew, J. E. H., & Co., Ltd.,** Engineers, Reddish, near Stockport, and 19 Waterloo Street, Glasgow.—"Stockport" Gas Engines, several sizes.

424 **Pollock, Whyte, & Waddel,** Globe Engine Works, Johnstone.—Gas and Oil Engines.

425 **Campbell Gas Engine Co., Ltd.,** Halifax, England, and 104 Bath Street, Glasgow.—Gas and Oil Engines, Geared Pumps.

426 **Forward Engineering Co., Ltd.,** Scholfield Street. Works: Birmingham.—New Model "Forward" Otto Gas Engine, exhibited driving dynamo for Electric Incandescent Lamps.

427 **Acme Manufacturing Co., Ltd,** 153 Queen Street, Glasgow.—Gas and Oil Engines. See also 40 B.H.P. Acme Gas Engine, with improved Self-Starting Apparatus, supplying power for Water Chute in grounds.

428 **Crossley Brothers, Ltd.,** Openshaw, Manchester.—Patent Gas (Otto) and Oil Engines.

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Stand No. 422.

Works: ASHTON-UNDER-LYNE.

429 **The Carver Looms, Ltd.**, 33 Renfield Street, Glasgow.—Electrically controlled Jacquard Looms weaving Figured Fabrics without the use of Cards, the reproduction of the figure being effected from a single metallic sheet bearing the design. (See Advt., below.)

430 **Allan, Whyte, & Co.**, Rutherglen.—Machines for making Wire into Strands up to 12 Wires per Strand, with Hemp or Wire Centres, and for making Strands into Ropes. (See Advt., page 244)

431 **Glenfield & Kennedy, Ltd.**, Kilmarnock.—Fittings for Water Supply and Distribution, Sewerage Works, and Drainage Systems. Fire Extinguishing Apparatus. Water Level Indicating and Recording Instruments. Steam Valves and Traps. Alarm for Water Mains. Water Motors for Organ Blowing and Dental Purposes. Hydraulic Capstan, Crane, Accumulator, Pump and Valves. Pumping Machinery, etc. (See Advt., page 277.)

432 **Temperley Transporter Co.**, 72 Bishopsgate Street Within, London, E.C.—Model of "Temperley" Patent Travelling Tower Transporter, for Loading and Discharging Ironstone, Coal, and General Cargoes.

433 **Cumberland Pencil Co.**, Pencil Works, Keswick.—Manufacturing of Black Lead Pencils and Penholders. Visitors' names stamped and gilded on same.

434 **Hall, Robert, & Sons, Bury, Ltd.**, Bury, near Manchester.—Looms for Weaving Tapestry and other kinds of Carpets, also Seamless Hose Pipes, Belting, Turkish Towels, Coloured Checks, etc. Hall's Patent Plaiting, Folding, and Cuttling Machine, Solid Cop Weft Winder, Cross Winder.

435 **Lang, John, & Sons**, Johnstone, Scotland.—Patent Lathes, Gear Cutting and Universal Cutter and Sharpening Machines in operation.

436 **Jones & Lamson Machine Co.**, Springfield. Vermont, U.S.A.—Flat Turret Lathe in operation. Fellows Gear Sharper Co.'s Machine in operation. New Method of grinding and keeping cutting tools sharp, and cutting gear teeth.

437 **Clifton & Waddell**, Machine Tool Makers, Johnstone, Scotland.—Bandsawing Machines and Circular Sawing Machines for Metal. Saw Sharpening Machines.

438 **Hetherington, John, & Sons, Ltd.**, Ancoats Works, Manchester.—Machine Tools for Horizontal Turning and Boring, Radial Drilling, Vertical and Horizontal Milling, Saws for Cutting Cold Metals, Lathes, etc.

439 **Holroyd, John, & Co.**, Perseverance Works, Milnrow, Manchester.—Patent Screw Milling Machines Patent Lathes and Labour Saving Machines. Valve Chucks. Brassfinishers' Lathes.

440 **Kendall & Gent**, Victoria Works, Manchester.—Vertical and Horizontal Milling Machines for Engineers, B and D Automatic Screwing Machines, Dixon's Patent Radial Drilling and Tapping Machines, Universal Brassfinishing Lathes, and Stud and Screw Turning Lathes.

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STAND No. 429 MACHINERY HALL.
TELEPHONE 28 EXHIBITION.

441 **International Pneumatic Tool Co., Ltd.,** 9 Bridge Street, Westminster, London, S.W.—Compressed Air Plant, comprising Little Giant Pneumatic Drills, Riveters, Hammers, and all kinds of Pneumatic Tools, etc. (See Advt., page 283.)

442 **Samuelson & Co., Ltd.,** Britannia Works, Banbury, Oxon.—Combined Blower and Engine, Blower Belt Driven and Portable Forge (Roots' "Acme"), Patent Pneumatic Power Hammers, Moulding Machine for Foundry use. (See Advt., page 227.)

443 **Hattersley, G., & Sons,** North Brook Works, Keighley.—One Heavy Box Loom for Tweeds; One Fancy Dress Goods Loom; One Automatic Self-Shuttle Loom.

444 **Waite & Saville, Ltd.,** Falcon Works, Otley, Yorks.—Falcon and Koh-i-Noor Safety Platen Presses, Waite Die and Plate Printing Press, Record Tag Machine, "Velox" Washering Machine, Despatch Label Machine, Peerless Eyeletter, Diamond Cornering Machine, etc.

445 **Newsum, George, & Co., Ltd.,** Leeds Printing Machine Works, Beeston Road, Leeds.—Lithographic Printing Machine.

446 **Reid, John, & Son,** 109 Argyle Street, and 63 Houldsworth Street, Glasgow.—Printing by Electricity without Ink, Letterpress Printing, Paper Bag and Box Making and Printing.

447 **Carlaw, David, & Sons,** 11 Finnieston Street, Glasgow.—Machinery in Motion, Envelope Folding and Gumming, Printing and Bookbinding Machinery, Compound Vertical Steam Engine, also makers of Loco. Model exhibited by Messrs. Neilson, Reid & Co., at Stand No. 526.

448 **Furnival & Co.,** 111 Bothwell Street, Glasgow, and Reddish Iron Works, near Stockport, and 32 and 34 St Bride Street, Ludgate Circus, London, E.C.—Printers' Engineers, and Sole Makers of the "Express" Silent Gas Engine.

Mollison & Co., Kent Road, Glasgow, Lithographic and High-class Colour Letterpress Printers—"Two-Revolution" Printing Machine, Quad Crown size, fitted with Patent "Printed Side Up" Sheet Deliverer, Sheet Adjuster Rotary Cutter, New Patent "Rotary" Lithographic Printing Machine for Aluminium Plates, fitted with Automatic Flyers, prints sheet 32″×42″. Double Demy Book Folding Machine, Folds 1, 2, or 3 folds to "Register." 32″ Patent "Express" "Self-Clamp" Guillotine Cutting Machine. Special "High-Speed" Crown Wharfedale Printing Machine, fitted with Flyers, Geared Inking, etc. Crown Folio "Reddish-Jobber" Platen Printing Machine, for steam and treadle, fitted with Duplex Distributor-Plate, and Patent "Safety" Feed-Guard.

449 **Aird & Coghill,** 24 Douglas Street, Glasgow.—Printers of the Official Catalogue and Daily Programme of the Exhibition, General Letterpress and Music Printers. (See Advt., pages 195 and 313.)

Payne & Sons, Otley.—Patent Quad. Demy Fast Two-Revolution Perfecting Machine with Special Ink Distribution; Quad. Demy Extra Special Fast Wharfedale Printing Machine; Special Double Crown High-Speed Wharfedale Printing Machine; Demy Wharfedale Printing Machine; Demy Folio Swift Wharfedale Printing Machine, by Payne & Sons, Otley; Quad. Demy "Victory" Book Folding Machine; Crown Folio Safety Platen Machine; Machines driven by "Lundell" Electric Motors. (See Advt., page 384.)

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450 **Haddon, John, & Co.,** Bouverie House, Salisbury Square, London.—No. 6 Optimus 2 Revolution Printing Press; No. 4 Perfected Prouty Platen Press; No. 1 Progress Wire Stitcher; Driven by Crocker Wheeler Electric Motors.

451 **Thomlinson, John,** Stanley Works, Partick, Glasgow.—Machines for the production of High-class Illustrated Magazines; Three-Colour Process of Printing Show Cards, Labels, etc. Stitching, Cutting, Bag Making, etc. Improved Double Demy, and two Quad. Crown Wharfedale Printing Machines, by John Elliot & Co., Ltd. Crosland's Patent Advance Silent Self-Clamp Guillotine. (See Advt., page 219.)

452 **Smith & Coventry, Ltd.,** Gresley Ironworks, Ordsal Lane, Salford, Manchester.—Modern Labour-saving Machine Tools, etc.

453 **Selig, Sonnenthal & Co.,** 85 Queen Victoria Street and Lambeth Hill, London, E.C.—Machine Tools and Appliances, specially suitable for Shipbuilding, Railway, Electrical, Motor Car, and General Engineering Shops, etc. See also Exhibit in Grounds, No. 1041. (See Advt. below.)

454 **Sharp, Stewart, & Co., Ltd.,** Atlas Works, Springburn, Glasgow.—Planing Machine, "Sellers'" System, with Robinson & Oldfield's Patent Feed; Horizontal Boring, Drilling, and Screw-cutting Machine; Triple Geared Sliding Surfacing and Screw-cutting Lathe with Duplex Rests; Slotting Machine; Hollow Spindle Capstan-rest Lathe.

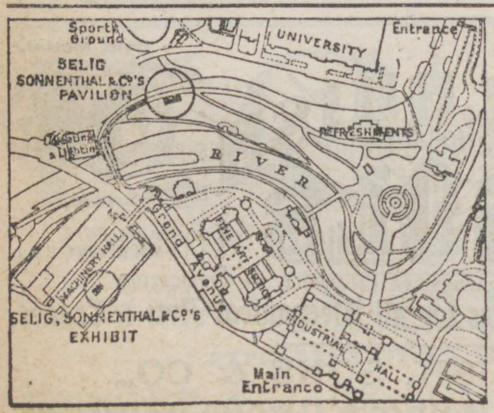
455 **Hulse & Co., Ltd.,** Ordsal Works, Salford, Manchester.—Machine Tools for Ordnance, Marine, Railway, and other general and special Engineering Work.

456 **Loudon Brothers,** Clyde Engineering Works, Johnstone, and 39 West Campbell Street, Glasgow.—Machine Tools, consisting of Improved Surfacing, Boring and Screw-cutting Lathes, Planing Machines, Radial Drilling, Tapping, and Studding Machines. Special Lathes for Heavy Cutting. Steam Injectors, Steam Traps, and other appliances. (See Advt., page 225.)

457 **Peebles, D. Bruce, & Co.,** Tay Works, Edinburgh.—Electrical 150 B.H.P. Motor Driving Main Shaft.; Peebles-Willans' Train Lighting Plant; Motor Driving Pump; 60 B.H.P. Enclosed Water-Tight Mining Motor; Central Station Balancing Set; Motor Driven Capstan; Hauling Gear, Reduction Gears, Sundry Motors, Controllers, Switchgear, etc., 350 B.H.P. Peebles-Belliss Set. 350 K.W. Peebles Dynamo.

458 **Shanks, Thomas, & Co.,** Union Iron Works, Johnstone.—Engineering Machine Tools for Marine, Locomotive, and General Purposes. (See Advt., page 284.)

459 **Burton, Griffiths, C. W., & Co.,** 1, 2, and 3 Ludgate Square, Ludgate Hill, London, E.C.—Baltic Chambers, 50 Wellington Street, Glasgow (A. W. Macdonald, Scottish Representative).—American and English Machinery and Tools in Motion. Gisholt Lathe, Acme Forging, Automatic Bolt Threading, and Tapping Machines. Giant Key-seating, Milling, and Brass-working Machinery. Patent Automatic Triple Action Lathe. Multiple Spindle Screw Machine. Boring and Turning Machines. Universal Grinders, etc. (See Advt., page 291.)



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IN

Machinery Hall

(No. 453),

AND

Pavilion in Grounds

(No. 1041, page 163.)

460 **Buck & Hickman,** Whitechapel Road, London, E.—American Machinery and Tools. Brown & Sharpe and Pratt & Whitney Machines, and Bradley Hammer and Forge in operation.

461 **Melhuish, Richard, Sons, & Co.,** 84 Fetter Lane, London.—Engineering and Joiners' Labour-saving Tools and Appliances. Screw-cutting and other Lathes. Patent Combined Work Bench and Tool Cabinets in position. (See Advt. below.)

462 **Rosling, Appleby, & Fynn, Ltd.,** Trafalgar Works, Bradford, Yorkshire.—Fynn's Patent Electric Generators and Motors for Continuous and Alternating Currents.

463 **The Electrical Company, Ltd.,** 122-124 Charing Cross Road, London, W.C.—Electrical Machinery and Apparatus, comprising Direct and Three-Phase Current Motors and Generators, Meters, Measuring Instruments, Arc and Incandescent Lamps, Ship Signalling Apparatus, Switches, Fuses, Holders, etc. (See Advt., page 295.)

464 **Barclay, Andrew, Sons, & Co., Ltd.,** Caledonia Works, Kilmarnock.—Three Throw Pumps for Mines and Wells, shown in motion. Ventilating Fan for Collieries, Mines, and Tunnels.

465 **Macdonald, John, & Son,** 9 York Street, Glasgow.—Interwoven Metallic Flexible Tubing. Protective Armouring for Pneumatic Rubber Hose, Tools, etc.

466 **Max Beer, Wien, Austria.**—Machines for the Manufacturing of Textures. Elastic Shaft arrangements. Paris International Exhibition, 1900, Medal of Honour.

467 **Leadbeater & Scott,** St. Mary's Works, Penistone Road, Sheffield.—Samples of Tool Steel, Crucible Steel Castings, Miners', Platelayers', and Railway Tools; Files, Hammers, Hauling Rope, etc. (See Advt., page 263.)

468 **Hafter, A.,** 462 Dobbies Loan, Glasgow, and at London.—Engine and Boiler Fittings, Lubricating Apparatus, etc.

469 **Portable Forge Co.,** 83 Holland Street, Glasgow.—Portable Bellows Forges, Fan Forges, Long Shape and Double Blast Smiths' Bellows, Wrought and Cast Iron Smiths' Hearths, Smiths' Tools, etc.

470 **Braby, F., & Co., Ltd.,** Petershill Road, Glasgow.—Cast-Iron, Barffed, Aluminium and Galvanised Goods. (See Advt., page 9.)

471 **Sherard Cowper-Coles & Co., Ltd.,** Grosvenor Mansions, Victoria Street London, S.W.—Specimens of Electro-Galvanised Sheets, Tubes, Bolts, and Nuts, etc. (See Advt., page 132.)

472 **Holman Bros.,** Camborne, Cornwall.—Patent "Cornish Rock Drills," various sizes, ordinary and special, mounted on Adjustable Tripod, Horizontal and Vertical Columns, to bore holes, usual diameter, from 8ft. to 30ft. deep.

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474 **Earle, Bourne & Co., Ltd.**, Heath Street, South, Birmingham.—Rolled Metals and Wires; Brass, Copper, Parallel, Taper, Cased and Iron Bedstead Tubes, Plain, Shaped, and Ornamental; Fender Mouldings, Cornice Poles, Close-Jointed Steel Tubes, Step Plates, Stair Rods, etc.

475 **Daniell, S. A., Ltd.**, Lion Works, Edward Street Parade, Birmingham.—Manufacturers of "Lion" Brand Copying Presses; Embossing, Fly, and General Presses; Screw Stocks and Dies for Engineers' and Gasfitters' use; Screwing Machines, Ratchet Braces, Tube Cutters, Lifting Jacks, Brake Screws, Cramps, etc.

476 **M'Glashan, John, & Co.**, Albany Works, 100 Stirling Road. Show Room: 15 Drury Street, Glasgow.—Bar and Cellar Fittings for Distillers, Brewers, Bottlers, Bonders, Wine and Spirit Merchants, Aerated Water Manufacturers, etc.; "Albany" Pneumatic Beer Raising Engine.

477 **Barr & Stroud**, 250 Byars Road, Glasgow.—Fortress, Naval, and Field Range-finders. Electric Clocks. High Vacuum Pumps. Electric Ship Telegraphs.

478 **Lockwood & Carlisle, Ltd.**, Eagle Foundry, Stalker Lees Road, Sheffield.—Pistons and Piston Rings and Springs. Piston Valves and Piston Valve Rings and Springs. (See Advt., page 253.)

479 **Macdonald, John, & Co.**, Turbine Works, Pollokshaws, and 146 West Regent Street, Glasgow.—Turbine Water Wheels and Piston Rings. (See Advt., page 250.)

480 **Cook, William, & Sons**, Cranstonhill, Glasgow, and Washford Road, Sheffield—Patent Guard for Circular Saws. Patent Guard for Surface Planing Machine, Patent Guard for Irregular Moulding Machine, one 7 ft. dia. Circular Saw, Mill Saws, and Woodcutting Machine Tools.

481 **United Flexible Metallic Tubing Co., Ltd.**, 112 Queen Victoria Street, London, and 52 St. Enoch Square, Glasgow.—Flexible Metallic Tubing in Bronze and Steel for Steam, Air, Gas, Ammonia, Tar, Petroleum, Water, etc.

482 **Willets, Charles, jun.**, Cradley Heath, Staffordshire.—Pulley Blocks, Hoists, Punching Bears, Jim Crows, Crab Winches, Screw and Hydraulic Jacks.

483 **Swinden, C. F. E., & Co.**, 22 Queen Victoria Street, London. E.C.—Mining Specialities. Hand Rock Drill. Portable Railway and Patent Vices.

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484 **Saville, J. J., & Co.,** Shoreham Street, Sheffield.—Crucible Cast Steel in Bars for all kinds of Tools. Files, Mill Tools, etc. (See Advt. below.)

485 **Turnbull, John, jun., & Sons,** 190 West George Street, Glasgow.—Hercules Turbines. Special Steam Pumps. Labour-saving Tools. Pneumatic Tools. Ventilators, and Safety Self-sustaining Lifts.

486 **Schaffer & Budenberg,** Glasgow, Manchester, London.—British Admiralty and other Pressure Gauges, Engine Indicators, Governors, Counters, Lubricators. Ripper's M.P. Indicator, Calorimeters, Pyrometers, Valves, Injectors. (See Advt., page 257.)

487 **Russell, Joseph Wm., & Co.,** 50 Charles Street, St. Rollox, Glasgow.—Brass Castings, Steering Stands, and Wheels; Cocks, Valves, Guns, Steam Whistles, Bells, etc.; Fire Engines, Pumps, and General Mill, Ship, and Engine Brass Work and Fittings.

488 **Findlay, Alex., & Co., Ltd.,** Parkneuk Bridge and Roof Works, Motherwell.—Structural Steel Work. Special Plant for Stamping Steel Trough Flooring for Railway Bridges and Fireproof Floors for Buildings. (See Advt., page 375.)

489 **Cooke, Wm., & Co., Ltd.,** Tinsley Steel, Iron and Wire Rope Works, Sheffield.—Wire Ropes for Mines, Ships, Cranes, etc. Wire Rods. Bessemer Steel Bars, Best Yorkshire Iron; Channel Steels for Rubber Tyres; Horse and Pony Shoes, etc.

490 **Darlington Forge Co., Ltd.,** Darlington.—Models to scale of Iron and Steel Forgings, and Steel Castings for Marine, Locomotive, and Stationary Engines, Shipbuilding, Hydraulic Machinery, Rolling Mills, etc., notably Cast Steel Stern Frames and Shaft Brackets for Atlantic Liners, Forged Steel Hollow Shafting for Battleships, etc. See separate Exhibit of full-sized Models in Grounds.

491 **M'Neil, Chas.,** Kinning Park Ironworks, 270 West Scotland Street, Glasgow.—Makers of Patent Embossed Manhole and Sludge Hole Doors for Steam Boilers, Water Ballast Tanks, etc.; Patent Seamless and Weldless Steel Ladles for Ironfounders, Chemical Works, etc.; Embossed Steel Pans for Chemical Purposes, Sugar Boiling, etc.; Embossed Steel Boiler Ends for Boilers, etc.; Weldless Wrought Steel Stand Pipes for Boilers, etc.; Weldless Wrought Steel Domes for Locomotives, etc.; Wrought Stamped Steel Pistons for Engines, etc. (See Advt., page 229.)

492 **Willans & Robinson, Ltd.,** Victoria Works, Rugby.—Vertical "Niclause" Water Tube Boiler.

493 **Newton & Nicholson,** Tyne Dock Corrugated Packing Works, South Shields.—Corrugated Metallic Packing (Taylor's Patent) for Steam and other Joints. (See Advt., page 250.)

494 **Hall, J. P., & Co.,** Black-riding Ironworks, Kerneth, Oldham.—One 60 B.H.P. Patent enclosed Ventilating Shunt Wound 4 Pole Motor, One 8 B.H.P. entirely enclosed 4 Pole Reversing Crane Motor.

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499 **Welsh, Archd., & Co.,** Carrock Brass Works, Ayr.—Gun Metal Cocks, Valves, Patent Lubricators, Injectors, Steam Whistles, Asbestos Packed Cocks, Ship, Dairy, and Coachbuilders' Fittings, Welsh's Patent Measuring Tap, etc.

500 **Aspinall's Patent Governor Company,** 7 Strand Street, Liverpool.—Aspinall's Patent Governor for "Marine" Engines. Aspinall's Patent Emergency Governor for "Land" Engines. (See Advt., page 263.)

Anti-Collision Alarm Telegraph C.T., Ltd.—Improved Alarm Telegraph. (See Advt., page 297.)

501 **Tandem Smelting Syndicate, Ltd.,** 97 Queen Victoria Street, London, E.C.—Tandem Anti-friction Metals, Babbitt Metal, Plastic Metal, White Navy Bronze, White Brass, Tin Alloys and all White Anti-friction Metals, Bearings, etc. Speciality—the production, by a Chemical Metallurgical Process, of Alloys, direct from the ores and raw material, which, after being standardized by a staff of analytical experts, are used for making up into specified alloys. Awards at the Exhibitions of Bremen, 1890; Chicago, 1893; Antwerp, 1894.

502 **Indestructible Rolled Steel Axle Box Co., Ltd.,** 53 Victoria Street, Westminster, London, and 93 Hope Street, Glasgow, Works at Wishaw.—Axle Boxes Manufactured from Steel Blooms and Plates; Steel Gradient and Mile Posts, made by Hydraulic Pressure.

503 **Galloways, Ltd.,** 123 Hope Street, Glasgow.—Galloway Tubes (Welded), Stand Pipes, and Man-holes. Model of Galloway Boiler and Boiler Fittings. Patent Baning Engine.

504 **The Glengarnock Iron & Steel Co., Ltd.,** Glengarnock, Ayrshire.—Rolled Steel Joists, Compound Girders, Steel Stanchions and Columns, Angles, Tees, Channels, Flats, Rounds, Squares, Rails and Fishplates. Pig Iron, Coal, and Nuts. Sulphate of Ammonia, Pitch, and Oil. Basic Slag (Phosphate Manure).

505 **Lanarkshire Steel Co., Ltd.,** Motherwell.—Sections of Steel Angles, Channels, Tees, Bulbs, Rounds, Square and Flat Bars. H. Beams, Blooms, Billets, Slabs, etc. Materials used in the manufacture of above. (See Advt, page 5.)

506 **British Griffin Chilled Iron and Steel Co., Ltd.,** Barrow-in-Furness.—"Machined" Chilled Cast Iron Railway, Tramway, Crane Wheels, etc. Chilled Rolls and Special Castings manufactured by "Griffin" System.

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507 **Simpson, Strickland & Co., Ltd.,** Dartmouth, South Devon.—Patent Improved Thornycroft Water-tube Boiler. Cross's Patent Four-crank Engine, 140 I. H. P. Compound, Triple, and Quadruple Launch Engines. Kingdom's Patent Two-crank Quadruple Engine. Engine and Dynamo for Launches, etc. (See Advt., page 272.)

508 **Churchill, Chas., & Co., Ltd.,** 52 Bothwell Street, Glasgow. Head Office: 9 to 15 Leonard Street, London, E.C. Also at Birmingham, Manchester, and Newcastle.—American Machine Tools for Engineers and Mechanics' Fine Tools. (See Advt., page 289.) Inspect Special Machinery Pavilion.

509 **Laing, Sir James, & Sons, Ltd.,** Deptford Yard Brass Works, Sunderland.—Gun Metal Engine and Boiler Mountings, Steam Fittings, etc. Ships' Brass Work. Water Closets. Brass and Iron Hand Pumps. Cargo Batten Cleats, etc., etc.

510 **Coates, Victor, & Co., Ltd.,** Lagan Foundry, Belfast.—Patent Boiler Flue Drilling Machine.

511 **British Hydraulic Foundry Co., Ltd.,** Whiteinch, Glasgow.—Cast Iron Tunnel Lining, etc. (See Advt., page 268.)

512 **The Glasgow Iron and Steel Co., Ltd.,** 19 Waterloo Street, Glasgow.—Ship, Bridge, and Special Boiler, Steel Plates and Bars; Angles, Bulbs, Channels, Tees, Rounds, Zeds, Rivet Bars, Strips, Nail Rods, Hoops (Splayed and Plain), Sheets, Washers, Slabs and Blooms, Sulphate of Ammonia; Oil, Tar, and Pitch. (See Advt., page 15.)

513 **Beardmore, Wm. & Co.,** Parkhead Forge, Glasgow.—Armour Plate, weight 30 tons, Armour Casemate, 6″ thick as supplied to H.M. Navy, 18 tons 3 cwt.; Conning Tower, 10 tons; Ammunition Trunk, 3 tons 16 cwt.; Sighting Hood; Model of Gunhouse Front; Model of 30 tons Armour Ingot and an 80 ton Shaft Ingot; Hollow Double Crank, Single Crank and Thrust Shaft; Locomotive Crank and Straight Axle; Carriage and Waggon Axle; Locomotive and Waggon Tyres; Tested Tyres and Axles; Flanged Boiler Front; Boiler Shell Tested showing Ductility of Material in bending.

514 **Cammell, Charles, & Co., Ltd.,** Cyclops Steel and Iron Works, Sheffield; Ordnance Steel, Tyre, and Spring Works, Grimesthorpe Sheffield; Yorkshire Steel and Iron Works, Penistone, Yorkshire; Derwent Iron and Steel Works, Workington, Cumberland; Oaks Collieries, Barnsley, Yorkshire.—Manufacturers of Armour Plates, Bullet Proof Steel, "99 Safe Steel," Gun Forgings and Mountings, Shot and Shell, Torpedo Air Vessels, Marine Crank and Straight Shaftings of all sizes, Locomotive Crank and Straight Axles, Rails and Fishplates, Rack Rails, and all Accessories (Apt System) for Mountain Railways; Locomotive, Carriage, and Waggon Tyres, Axles, Springs, and Buffers; Steel Castings of all kinds, including Propeller Blades, Rudder Frames, and other Ship Castings; Files, Tool, Shear, Cast, Blister, and Spring Steel. (See Advt., page 262.)

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516 **Herbert, Alfred, Ltd.,** Machine Tool Makers, Coventry.—Automatic Screw Machines, Turret and Capstan Lathes, Milling Machines, etc., in operation.

517 **Colville, David, & Sons, Ltd.,** Dalzell Steel and Ironworks, Motherwell, Scotland.—Manufacturers by Siemens Acid Open-Hearth Process of Mild Steel Boiler and Ship Plates, Bars, Angles, etc. ; also Steel Castings, Rolls, Ingots, Blooms, etc. ; Iron Bars, Angles, Tees, Flats, Rounds, etc. (See Advt., pages 20 and 23.)

518 **Ross & Duncan,** Whitefield Works, Govan, Glasgow.—Triple Expansion Surface Condensing Marine Screw Engines of 400 I.H.P. ; Compound Surface Condensing Screw Launch Engines of 60 I.H.P., fitted with Bremme Valve Gear ; both engines exhibited in motion. (See Advt., page 218.)

519 **Macfarlane, Walter, & Co.,** Saracen Foundry, Possilpark, Glasgow.—Architectural, Sanitary, and General Ironfounders ; Ornamental Constructive Iron Work of every description. (See Advt., page 265.)

520 **Dick, Kerr & Co., Ltd.,** 110 Cannon Street, London, E.C.—Tramway and Light Railway Material and Apparatus, including Electric Tram Cars and Fittings, Electric Generators, Motors and Machinery, etc. (See Advt., page 299.)

521 **Barclay, Andrew, Sons, & Co., Ltd.,** Caledonia Works, Kilmarnock.—Locomotives.

522 **Pickering, R. Y., & Co., Ltd.,** Railway Carriage Waggon and Wheel Works, Wishaw.—Railway Waggons (25 tons Bogie Mineral Waggon), in Steel and Iron.

523 **M'Dowall, Steven & Co., Ltd.,** Milton Ironworks, Glasgow, and 4 Upper Thames Street, London.—Stable Fittings, including Loose Box and Stall, Safety Enamelled Mangers, Silent Tying Apparatus, Raised Hay Rack, Seed Pan and Grating, etc. ; Bath Room Fittings, comprising Combination Roll Edge Baths, Lavatory Basins with Ornamental Iron Standards and Brackets ; Ornamental Iron Work Fountains, Verandahs, etc. ; Iron Window Sashes and Frames, etc. (See Advt., page 266)

524 **Dubs & Co.,** Locomotive Works, Polmadie, Glasgow.—Locomotive Engine and Tender, with Boiler fitted with Water Tubes (Drummond's Patent) in Fire Box. (See Advt., page 279.)

525 **Sharp, Stewart & Co., Ltd.,** Atlas Works, Glasgow.—Four-wheels Coupled Bogie Express Locomotive and Tender, constructed for the South Eastern and Chatham Railway.

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526 **Neilson, Reid & Co.,** Hyde Park Locomotive Works, Glasgow.—Express Passenger Locomotive Engine and Tender for the Midland Railway Company; Working Model of "Fairlie" Engine for the Mexican Railway. (See Advt., page 91.)

527 **Stewart & Menzies, A. & J., Ltd.** Head Office: 41 Oswald Street, Glasgow; Works: Coatbridge, Airdrie, Mossend, and Glasgow.—Lapwelded Steel and Iron Tubes for Boilers; Oil and Water Boring; Telegraph, Lighting, and Tramway Poles; Steam Pipe Installations; Gas and Water Pipes; Hydraulic and Heating Tubes, all sizes up to 42″ dia.; Fittings of all kinds; Solid Drawn Seamless Steel Tubes; Coils of every description; Steel Plates, Cast Iron Pipes and Fittings. (See Advt., page 217.)

528 **Deighton's Patent Flue and Tube Co., Ltd** Vulcan Works, Pepper Road Hunslet, Leeds.—Marine Boiler Furnaces (Deighton and Annular Sections). (See Advt., page 109.)

529 **Macfarlane, Strang, & Co., Ltd.,** Lochburn Iron Works, Glasgow.—Cast-iron Underground Gas and Water Pipes, Valves, etc.

530 **Muntz Metal Co., Ltd.,** French Walls, Birmingham.—Tubes, Coils, Rods, Nuts, Bolts, etc., in Copper, Brass, and Muntz's Metal; Muntz's Ductile Solid Drawn Copper Tubes, Naval Brass, and Muntz's Metal Plates and Rods

531 **Watson, Laidlaw, & Co.,** 93 Dundas Street, South, Glasgow.—Centrifugal Machines used for Curing Sugar, Drying Chemicals, Starch, Yeast, Meat Extracts, Tallow Recovery, etc. Drying Cloth and Yarn Manufactures, Laundry Goods, and the Separation of Liquids of different specific gravities, including the Mechanical Skimming of Milk.

532 **Ingersoll-Sergeant Drill Co.,** 114 Queen Victoria Street, London, E.C.—Air Compressors, Rock-Boring Drills, Air Receivers. Museum Case of Photographs. (See Advt. below.)

533 **The New Taite-Howard Pneumatic Tool Company, Ltd.,** 63 Queen Victoria Street, London, E.C.—Pneumatic Labour-saving Appliances.

534 **Outram, George, & Co.,** *Glasgow Herald*, Glasgow.—Four-Roll Web Perfecting Machine and Folder by R. Hoe & Co., London and New York. Will produce 4, 6, or 8 page newspapers at the rate of 48,000 per hour; 10, 12, 14 or 16 page newspapers, 24,000 per hour; and 20, 24, 28, or 32 page newspapers, 12,000 per hour. Electric Driving Equipment on the Reducer System of the British Electric Plant Co., Ltd., Alloa. (See Advt., page 315)

535 **Anderson Bros.,** 121 Argyle Street, and Branches, Glasgow.—Illustrating the Manufacture of Silk Hats in all its branches, in Felt Hats, Fur Forming, Hardening, Blocking, Finishing, Shaping, Trimming, etc., etc.

536 **Willis, Nelson, & Co.,** 26 Queen Street, Glasgow.—Illustrating the Method of Manufacturing Straw Hats and Bonnets, Felt Hats, Straw Plaiting, etc.

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538 **Baird, John,** 99 Milton Street, Port-Dundas, Glasgow.—Cut, Engraved, Etched, and Hand-Painted Glass. Gas, Oil, and Electric Globes. Table Glass, Mirrors, etc.

539 **Sunderland Forge and Engineering Co., Ltd.,** Pallion, Sunderland.—Combined Engines and Dynamos, Enclosed Electrical Motors, and Electric Winch.

540 **Anti-Friction Alloys, Ltd.,** 52 Queen Victoria Street, London, E.C.—Anti-Friction Metals in Ingots, and Specimens of its application in Bearings and other parts of Machinery.

541 **Bagshawe & Co.,** Tower Royal, Cannon Street, London, E.C.—Elevating and Conveying Machinery, Emery Grinding Machinery and Wheels, B. B. Joints, etc.

542 **Leith, Cardle, & Co,** 29 Eaglesham Street, Glasgow.—Champion Patent Double Worm Chain Pulley Blocks, Overhead and other Lifting Tackles, Tube Expanders, Internal Tube Cutters for cutting out Boiler Tubes, Ferrule Extractors, Lever Weighing Machines, Pitch Chain Wheels, Ratchet Handles and Wrenches.

543 **Lancaster & Tonge, Ltd.,** Engineers, Millwrights, etc., The Lancaster Works, Manchester.—The "Lancaster" Steam Traps, suitable for working at all pressures from 2 to 300 lbs. per square inch, and for every class of work in which it is necessary to drain water away from steam, etc; the "Lancaster" Pistons, fitted with Spiral Spring and Serpent Coil; Junk Ring Pistons for ordinary purposes; Steel Pistons for Marine and Inverted Land Engines; Solid Pistons for High-Speed Engines and Locomotives, etc.; The "Lancaster" Metallic Packings; Large Double and Single Packings, as fitted to Marine Engines; Single and Double Ditto for Stationary Engines; Composite Metallic Packings for Valve Spindles, Small Piston Rods, Pump Rams, and similar purposes; The "Lancaster" Steam Dryers combined with Stop-Valve, in conjunction with the "Lancaster" Steam Trap to Separate Water from Steam under all conditions. A small engine will be shewn at work having all the above specialities fitted to it.

544 **Kincaid, John G., & Co.,** Clyde Foundry, Greenock.—Model reduced to one-fourth actual size of this Firm's Standard Design of Triple Expansion Marine Engine; also Model of Light Draft Stern Wheel Steamer, etc., etc. (See Advt., page 242.)

545 **American Radiator Co.,** 143 Queen Victoria Street, London.—Radiators and Boilers for Low Pressure Water and Steam Heating, Radiator Gate, Globe and Air Valves, Bronze Powders, Enamels, Pipe Tools, Pipe Fittings, etc.

546 **Harris Patent Feed Water Filters, Ltd.,** 2 Hamilton Street, Greenock, and 73 Queen Victoria Street, London.—Feed Water Filters for Marine and Land Purposes, the Harris-Anderson Apparatus for the absolute removal of Oil and Scale forming matter from Boiler Feed, Pile Shoes for Timber Piles.

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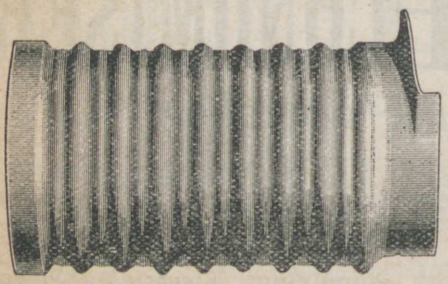

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547 **United States Metallic Packing Co., Ltd.,** Soho Works, Thornton Road, Bradford.—Metallic Packings for Piston Rods, and Valve Spindles of Marine, Stationary, and Locomotive Engines; Air Compressor, actuating Pneumatic Tools, shewn in operation; Pneumatic Hoists, Riveters, Jacks, etc.

548 **Martin, W. C., & Co.,** 10 West Campbell Street, Glasgow.—Direct-Acting Engines and Dynamos. Electro Motors. Search Lights. Electric and Steam Launches. Ventilating and Heating of Steam Ships by Electrically-driven Fans. Electrical Specialities and Appliances for Steam Ships. (See Advt., page 297.)

549 **Sun Fan Co., Ltd.,** 4A Thornton Road, Bradford.—Sun Fans for Ventilating, Drying. or Cooling, driven direct or by belt from Electric Motors. Screen for Filtering and Moistening Air for Ventilating and Drying purposes.

550 **Boyle, Robert, & Son, Ltd.,** 110 Bothwell Street, Glasgow, and 64 Holborn Viaduct, London.—The "Boyle" System of Ventilation and Boyle's Patent "Air Pump" Ventilators, Upcast and Downcast, for Buildings and Ships. Paris Exhibition, 1900—Medals, Two Gold and One Silver. Ventilation Competition, London—Grand Diploma and £50 Prize.

551 **Milne, C. Williamson,** Crown Court, 62 Old Broad Street, London, E.C.—One set of 3-throw Edward's Patent Air Pumps for Condensing Plant (Marine or Land Engines) driven by a Lundell Motor with speed reduction gearing. Single and Double enclosed Electric Arc Lamps (W. J. Davy's Patents) Alternating or Direct Current.

552 **Seebohm & Dieckstahl Ltd.,** Dannemora Steel Works, Sheffield.—Fractures of Swedish Iron, Blister and Crucible Steel in various forms, to show the process of manufacture.

553 **Royles Ltd.,** Dalham Works, Irlam and Manchester.—Appliances for the Manipulation and Economical Use of Steam and Transmission of Heat through Surfaces, comprising Steam Valves and Boiler Mountings of the highest class, Reducing and Surplus Valves, Steam Traps and Steam Dryers, Feed-water Heaters (for live and exhaust steam), Evaporative. Surface, and Fresh Water Condensers, Evaporators, Calorifiers, Steam Kettles, Boiling Batteries, etc., etc.

554 **Green, E., & Son, Ltd.,** 2 Exchange Street, Manchester.—Green's Improved Patent Fuel Economiser (72 Heating Pipes) suitable for one Steam boiler, with Horizontal High Speed Engine, 3½" Cylinder, for driving Scraper Mechanism. 5" Double Ram Pump for feeding Steam Boilers, Economisers and Fire Purposes. 5" Cylinder Engine. Bronze Model of Green's Paris Exhibition Economiser (which gained the highest award) and Tubes Bursted, etc. (See below, also page 111.)

555 **Bradford, Thomas, & Co.,** Laundry Engineers and Manufacturers, Manchester, London, and Liverpool.—Steam and Hand-power Laundry Machinery for Public Laundries, Hotels, Hospitals, Workhouses, Asylums, etc. Manufacturers also of Dairy, Cooking, and Bath Appliances. (See Advt., page 33.)

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556 **Davie & Horne,** 45 Hope Street, Glasgow.—Davie's Patent Filters, Heaters, and Evaporators. Also Combined Heater and Filter; and Evaporator Winch-condenser and Fresh-water Distiller combined. Davie & Weir's Patent Slewing Gear for Ships' Derricks. De Vos' Patent System for Swinging Out Lifeboats, etc. (See Advt., page 255.)

557 **Pulsometer Engineering Company, Ltd.,** Nine Elms Iron Works, Nine Elms, London, S.W. City Office and Show Rooms: 61-63 Queen Victoria Street, London, E.C., and at 8 York Street, Glasgow.—Pulsometer and other Steam Pumps, Filters, Sirens, etc.

558 **Crittall, Richard, & Co.,** 27 Noel Street, Wardour Street, London, W.—Heating Appliances specially adapted for steam ships. (See Advt., page 342.)

559 **Shanks, Alex., & Son, Ltd.,** Dens Iron Works, Arbroath.—High-class Engines for Electric Lighting and general purposes, comprising, Vertical High-speed Engines (enclosed and open) for direct or independent coupling with Dynamo, Shaft, or Belt.

560 **Mavor & Coulson, Ltd.,** 47 King Street, Mile End, Glasgow.—Direct Coupled Engine and Dynamo. Electrically driven Plunger Pumps, Centrifugal Pumps, Rotary Pumps. Drilling Machines and Coal-cutting Machine. Switchboards. Motors. Concentric Wiring and Electric Power and Lighting Accessories.

561 **M'Dowall, John, & Sons,** Walkinshaw Foundry, Johnstone.—Wood Working Machinery, comprising 11 Machines for Sawing, Planing, Moulding, Tenoning, Dovetailing, Boring, etc., 5 of these driven by Electricity.

562 **Veritys, Ltd.,** 40 Bath Street, Glasgow.—Electric Motors and Dynamo Machinery, Ventilating Fans, Arc Lamps, Electric Fittings and Accessories, Bells and Telephones.

563 **Hamilton, Claud, Ltd.,** 247 St. Vincent Street, Glasgow.—Apparatus in connection with and Illustrative of Electric Motor Power, and Electric Lighting, Heating, and Cooking.

564 **Stewart, D., & Co., Ltd.,** London Road Ironworks, Glasgow.—Internal Combustion Engine, Maccallum's Patents, producing Power by the Direct Combustion of Coal without the employment of Steam Boilers. Vertical Steam driven Air Compressor. Two Electrically-driven Centrifugal Machines. Electrically-driven Refrigerator Photographs illustrating work done.

565 **Salmony, H. M., & Co., Ltd.,** 118 Charing Cross Road, London.—Lahmeyer (Frankfort) Generators and Motors, Enclosed Arc Lamps (3 in series on 250 volts continuous). Electric Tramway Accessories.

566 **Ross, R. G., & Son,** Greenhead Engine Works, Glasgow.—"Rigby's Patten" Self-acting Steam Hammer, Air Compressor and Steel Air Receiver, Patent Pneumatic Copper Stay Rivetter, Patent Pneumatic Caulking and Chipping Tools, Patent Speed Reducing Gear. (See Advt, page 230.)

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567 Clarke, Chapman, & Co., Ltd., Gateshead-on-Tyne.—6½″-Stroke Double-acting Compound Engine and 3AV Dynamo; 6″ Stroke Restler Engine and 8AV Dynamo; 8″ Stroke Single Crank Engine and 3AV Dynamo; Electric Drills, Ship's Electric Winch and Continuous Current Motor and Regulator; 24″ Projector, with both Automatic and Hand Control; 20″ "Suez" Canal Projector and 12″ Yacht Type Projector; 40 H.P. and 5 H.P. Polyphase Motors; 9″ × 9″ × 10″ C.C. Horizontal Pump; 10½″ × 7″ × 10″ Vertical Duplex Feed Pump; Pair of 10½″ × 8″ × 24″ Feed Pumps; and Single 10½″ × 8″ × 24″ Feed Pump (Woodeson's Patent); 7″ × 12″ Horizontal Steam Winch, Steam Windlass, 2¼″ Cables, 7¾″ × 12″ Steam Warping Capstan.

568 Tangyes, Ltd., Cornwall Works, Birmingham, and Hope Street, Glasgow.—Gas and Steam Engines, Centrifugal and Electrically Driven Pumps, etc.

569 Cochrane, John, Engineer, Barrhead.—Cochrane Driving Engine.

570 Stott, J., & Co., Vernon Works, Oldham.—Patent Water Heaters for Public and Private Baths. Air and Water-driven Air Propellers for Ventilating purposes.

571 Anderston Foundry Co., Ltd., Glasgow and Middlesborough.—Compound Quick Rotative Enclosed Engines for Electric Power and Lighting, coupled direct to Generators, and Electric-driven Machinery.

572 Bigge, D. Selby, & Co., 53 Bothwell Street, Glasgow; 27 Mosley Street, Newcastle-on-Tyne; and 39 Victoria Street, London, S.W.—High-speed Compound Engine and Continuous Current Generator, Electrical Tools.

573 Sturtevant Engineering Co., Ltd., 147 Queen Victoria Street, London, E.C., and 45 Hope Street, Glasgow.—Blowing, Exhausting and Electric Fans in Motion, Steam Heaters, etc.

574 Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C., and 45 Hope Street, Glasgow.—Pumping Engines in operation, Pumps and Heaters, Method of Supplying Motive Power to Centrifugals.

575 Drysdale & Co., Bon Accord Engine Works, London Road, Glasgow.—Bon Accord Centrifugal Pumping Engines, Direct-Acting High Speed Engine and Dynamo, and Steam Fan and Engine; Set of small series working Aluminium Pumps driven by Electric Motor; Photographs; the whole of the engines shewn in motion. (See Advt., page 231.)

576 Railton & Campbell, Liverpool, per Fred. G. Willock, 109 Hope Street, Glasgow.—Patent Feed Water Filters, Expansive Stop Valves, and Silent Ash Hoists. (See Advt., page 254.)

577 Carruthers, J. H., & Co., Polmadie Iron Works, Polmadie, Glasgow.—Steam Pumps in motion. Automatic Control Valves. Grease Filters, etc.

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578 **Richardsons, Westgarth & Co., Ltd.**, Hartlepool Engine Works, Hartlepool.—Steam-Driven Dynamo, 500 I.B.P., Electric Motors, Lockfast Iron for Propeller Shafts, Morison's Patent Evaporators, Feed Heaters, Winch Condensers, Drain Traps, Electrically-driven Edward's Air Pumps, etc.

579 **Sterne, L., & Co., Ltd.**, The Crown Ironworks, Glasgow.—Refrigerating and Ice-making Machine, Emery Grinding Machines and Emery Wheels (Crown Brand), Spiral Springs, etc. (See Advt., page 260.)

580 **Hall, J. & E., Ltd.**, Dartford, Kent; 23 St. Swithin's Lane, London, E.C., and 25 Gordon Street, Glasgow (Messrs. Morris, Warden & Co., Agents).—Marine and Land Patent Dry Air Carbonic Refrigerating Machinery and Chambers shewn in operation, for all purposes for which Refrigeration and Ice Making is required. (See Advt. below.)

581 **Hick, Hargreaves, & Co., Ltd.**, Soho Iron Works, Bolton, and **The Lancashire Dynamo and Motor Company, Ltd.**, Trafford Park, Manchester.—Vertical Compound Enclosed Engine driving 200 K.W.-3 phase Alternator for 5000 volts pressure. Motor Alternator to convert high pressure alternating current to low tension continuous current for lighting and power.

582 **Alley & MacLellan**, Sentinel Works, Polmadie, Glasgow.—Vertical and Horizontal Steam Steering Gears, Ash Hoists, Reversing Engines, Warping Capstans, working under Steam. Feed-water Filters and other Machinery used on board ship. Steam Dynamos and "Sentinel" Tandem Compound Engines in operation. Air Compressors and Air Hoists in operation. Steam, Water, and Gas Valves, and other fittings. Light Draught Steamers shown by Models and Photographs. General Engineers. Examples shewn. (See Advt., pages 220 and 221.)

583 **Adamson, Daniel, & Co.**, Engineers and Boiler Makers, Dukinfield, near Manchester.—Ideal High speed Horizontal Steam Engines of High-pressure Belt-driven type, and Tandem Compound with Direct-connected, Direct-current Electric Generator.

584 **Tullis, D. & J., Ltd.**, Kilbowie Iron Works, Clydebank.—Steam Laundry Machinery. Washing Machines (high and low pressure). Hydro Extractors and Ironing Machinery for use in Asylums, Infirmaries, Public Laundries, and Baths, etc.

586 **Pickerings, Ltd.**, Globe Elevator Works, Stockton-on-Tees.—Direct driven Electric Lift, the Machine for same being fitted with Patent Automatic Stopping Gear and Slack Cable Gear. The Car is fitted with Tant's Patent Inertia Safety Gear and Rope Compensating Gear, and various Hand-Hoisting Machines; Pulleys, Blocks, etc.

587 **Diesel Engine Co., Ltd.**, 171 Queen Victoria Street, London, E.C.—One 15 B.H.P. Diesel Oil Engine.

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588 **Steven, A. & P.,** Provanside Engine Works, 115 Stirling Road, Glasgow.—Hydraulic, Electric, Belt, and Hand Lifts, Pumps, Accumulators, Presses, Intensifiers, etc., etc. (See Advt, page 258.)

589 **Fawcett, Thomas C., Ltd.,** Whitehouse Engineering Works, Leeds.—Patent Stiff Plastic Brickmaking and Pressing Machine, to produce 12,000 bricks per day of 10 hours, ready for the kiln. Hand-power Brick Press. (See Advt. below.)

590 **Champion Friction Clutch Company, Ltd.,** Trent Street, Attercliffe, Sheffield.—Friction Clutches for all purposes, including Motor Vehicles. Reversing Gears for Oil and Launch Engines. (See Advt, page 251.)

591 **Taylor & Challen, Ltd.,** Engineers and Machinists, Derwent Foundry Birmingham.—Sheet Metal Stamping Machinery Eight machines in motion.

592 **Pooley, Henry, & Son, Ltd.,** 22 Queen Street, Glasgow.—Weighbridges and Weighing Machines. Automatic Weighing Machines to weigh railway wagons, colliery hutches and grain, etc.

593 **M'Kie & Baxter,** Copland Works, Govan, Glasgow.—Marine Engines and Auxiliary Machinery.

594 **Brierley, Thomas,** Oldham.—"Roots" Blower, Exhausting Fans and Blowing Fans. (See Advt. page 249.)

595 **Cochrane, John,** Grahamston Engine Works, Barrhead.—Corliss Steam Engine Driving Exhibition Shafting, Steam Pumping Machinery, Steam Hammers.

596 **Morton, Robert, & Sons,** Belhaven Works, Wishaw, Scotland.—Bakers', Confectioners', Chocolatiers', and Preserve Makers' Machinery and Appliances; also Vacuum Plant and other Machinery at work in Bermaline Bakery.

597 **James Keith & Blackman Company, Ltd.,** 27 Farringdon Avenue, London, E.C., 162 Hope Street, Glasgow, and Arbroath.—Combined Heating and Ventilating Appliances in action, new patent Plenum System without main ducts. Blackman Fans in motion, as used for removing Heated or Foul Air, Dust, Steam, etc. Fans and Motors combined, driven by Electric Current, further illustrating the Ventilation of Public and Industrial Buildings, Offices, etc. Drying Installation at work. Patent Heating, Lighting, and Hydraulic Appliances in action. Hydraulic Rams, Water Motors, Automatic Liquid Elevators. Gas and Air Compressors in motion.

598 **Richards, Geo., & Co., Ltd.,** Broadheath, Manchester.—Boring and Turning Mill, 36″ with 2 uprights and Cross Slide, Side Planing Machine, to plane 12″ wide 4′ long. Slot Drilling and Keyway Cutting Machine for Cutting Keyways 20″ long and 1″ wide. Horizontal High Pressure Automatic Air Compressor, Belt Driven.

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599 **Croft & Perkins,** Great Northern Works, Bradford.—Power Transmitting Machinery, consisting of Crown, Rim, and Disc Friction Clutches and Couplings at work; Patent W.I. Split Pulleys and Machine Moulded Gearing, Shafting, etc.

600 **Gibbs, John, & Son,** 72 Duke Street, Liverpool.—Ventilating Fans, Belt Steam and Electrically-driven by enclosed Dust-proof Motor, Electric Motors and Electrically-driven Tools (Gibb's Patent) in motion Gibb's Patent Motor Starting and Regulating Switches, Ship's Weatherproof Ventilators, etc.

601 **Ritchie, Jas.,** Glenavon Engineering Works, Sawmill Road and Milton Street, Partick.—Laundry Machinery, Hydro Extractor, Washing and Ironing Machines, etc.

602 **The Electric Construction Company, Ltd.,** Wolverhampton and Dashwood House, 9 New Broad Street, London, E.C.—Electrically-driven Pump and Haulage Gear. Various types of Electrical Motors. (See Advt., page 103.)

603 **Hutchinson, Hollingworth Co., Ltd.,** Dobeross Loom Works, Dobeross.—Hollingworth & Knowle's Patent Open Fast Running Loom, 90″ reedspace, 4 Boxes each side, 16s. Shafts, Single Beam, Patent Positive, Take-up Motion, for Weaving Tweeds, etc.

604 **Thwaites Bros., Ltd.,** Bradford.—"Roots Blowers" Centrifugal Pumps and Fans, driven by steam or electricity. Combined High speed Engines and Dynamos.

605 **General Electric Company (1900) Ltd.,** 67, 69, 71, 88 and 92 Queen Victoria Street, London, Works, Manchester.—High-speed "Peache" type Engine, coupled direct to "Peel-Hawkins" Standard Multipolar Dynamo.

606 **Kirchner & Co.,** 21, 23, and 25 Tabernacle Street, London, E.C.—36″ Band-Saw, 12″ Hand-planer, 12″ Panel planer, shown at work, 30″ Saw-bench with Tailby's Patent Continuous Roller Feed, Patent Mortising Machine, Combined variety Spindle Moulder, Automatic Knife Grinder, Iron-planing Machine, 32″ × 32″ × 5′ at work. (See Advt., page 274.)

607 **Assafrey, Alex. T.,** 19 Grant Street, Glasgow.—Process of Manufacturing Cocoa Powder Chocolate and Confectionery. Machinery used in this exhibit is made by Leighmann & Co., of Dresden.

608 **Gray, John, & Co., Ltd.,** 8 Adelphi Terrace, Glasgow.—Machinery illustrating the Manufacture of Confectionery. (See Advt., page 14.)

609 **Stewart & Young,** 260 Broad Street, Mile-End, Glasgow.—A Model Confectionery Work in operation, exhibiting a new process of boiling sugar for the manufacture of Silk Bon-Bons, Satinettes and Rocks. Improved Machinery for making Caramels, Jap Nuggets, Lozenges, Creams, Fondants, etc. All the leading features of Chocolate Manufacture. Method of making Sugar into Drops and Cooling by means of a Turret and Sifting Machine, etc. (See Advt., page 39.)

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SEE PAGE 285.

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610 Mather & Platt, Ltd., Salford Iron Works, Manchester.—Mather's Patent Bleaching Plant and Model Plant, with Two-wagon Kier; Model of Automatic Sewage Distributor and of Water-softening Plant; Gravity and Pressure Filters; Motor-driven High-Lift Pumps and Three-throw Feed Pump; 800 K.W. Compound-wound Dynamo; 135 K.W., 70 K.W., and 25 K.W. Steam Dynamos; Steam-driven Mather-Reynolds Pump; Electric Drill; Enclosed Motors, 4 to 50 B.H.P.; Electric Overhead Conveyor (15 cwt.); Grinnell Sprinkler Installation; Duplex Fire Pumps; Boiler Feed Pump, with Returns Receiver; Vortex Humidifier; and Fire Appliances.

611 Carron Company, Engineering Department, Carron, Stirlingshire.—Hand and Power Wood Morticing Machines. Tapping Machine. Turning Lathes. Syphon Elevator for raising water without the assistance of a pump or other machinery. (See Advt., page 12.)

612 The British Schuckert Electric Company, Ltd., Clun House, Surrey Street, Strand, London, W.C.—One 1140 K.W. Compound-Wound Dynamo with Willans & Robinson's Engine; 40 D.C. Generators and Motors, open and enclosed types, for constant and variable speed, with pulley or reduction gear; special Polishing Motors, Table-Fans, Electrically-driven Ventilators, Sewing Machines, etc.; Polyphase Motors for Looms; High-tension Power Transmission, with 10,000 volts; Schuckert's Patent Synchronizer, mounted on iron pillar, showing the synchronising and running in parallel of two Rotary Converters; Electricity Meters for all systems, Double Tariff Meters, Ammeters, Voltmeters; Search-light with a 36″ parabolic mirror for 90 amperes, operated by two small Motors; Stage and Demonstrating Projectors, Automatic Apparatus, Cut-outs, Switches, Shunt-regulators, Rheostats, Starters, Controllers; different types of continuous and alternating-current Arc Lamps. The whole of the above plant will be shown at work, and be controlled from a main switch-board. Historical exhibit of the first Schuckert manufactures since 1875, D.C. and 3 PH. Miniature Motors 1/5000 H.P. Electric Heating and Cooking Apparatus by Hugo Helberger, Munich. (See Advt., page 298.)

613 Montgomerie & Co., Ltd., Bakers, Partick.—Bermaline Bakery in full operation Bread and Biscuit Doughing, Dough Dividing, Cake Beating, Fruit Cleaning Machinery. Machines for the Manufacture of Malt Extract and Confectionery. Mash Tun and Copper Receivers. Vacuum Pans and Pump, etc. Gas Hot Plates for making Oat Cakes, etc. Machinery driven by Electric Motors. (See Advt., pages 44 and 67.)

614 Neilson, Reid, & Co., Hydepark Locomotive Works, Glasgow.—Photographs of Typical Locomotives. (See Advt., page 91.)

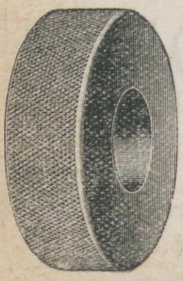
615 Locomotive Publishing Company, Ltd.—Framed Photographs of Locomotives and Trains—G.N.R. "Flying Scotsman" and six types of British Express Engines.

616 Phillips, F., 118 Eastfield Street, Glasgow.—Large Lock, fitted with the latest improvements, with Changeable Key, suitable for banks, hospitals, and public buildings.

LUDW. LOEWE & CO., LTD., 30 & 32 FARRINGDON ROAD LONDON, E.C.

MANAGING DIRECTOR: H. F. L. ORCUTT.

MACHINE TOOLS.	SMALL TOOLS.	GAUGES.
Lathes, Milling Machines, Drilling Machines, Turret Machines, Shaping Machines, Auto. Gear Cutters, Etc.	Milling Cutters, Arbors, Reamers, Boring Tools, Index Centres, Chucks, Vices, Chucking Tools.	Standard Internal and Externa Cylindrical Gauges, Standard Snap Gauges, End Measuring Rods and Limit Gauges.



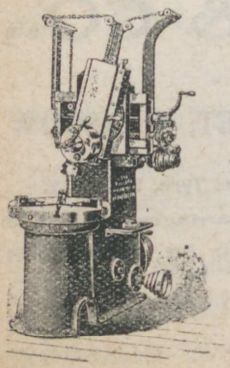


SEE EXTRACT FROM "TIMES" ON "AMERICAN ENGINEERING COMPETITION"—PAGE 290.

STAND No. 1039.

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Bullard Machine Tool Co., Ltd., Bridgeport, Conn., U.S.A. See No. 1039.
Chubb & Sons, 128 Queen Victoria Street, London, E.C. See No. 273.
Clyde Rubber Works, Co., Ltd., Clyde Street, Port-Dundas, Glasgow. See No. 259.
Consolidated Telephone Construction & Manufacturing Co., Ltd., 38 Victoria Street, Westminster, London, S.W. See No. 926.
Dobbie, Alex., & Son, Ltd., and T. S. M'Innes & Co., Ltd., 42-45 Clyde Place, Glasgow. See No. 869.
Eglinton Chrome Tanning Co., Ltd., 8 Firhill Road, Glasgow. See No. 263.
Electrical Power Storage Company, Ltd., London. See No. 818.
Finlay, John, & Co., Ltd., 18 Renfield Street, Glasgow. See Nos. 287 and 1054.
Gilligan & Son, 96 St. John Street, Smithfield, London, E.C. See No. 220.
Govan Ropework Co., Ltd., Helen Street, Govan. See No. 8.
Hardtmuth, T. & C., 12 Golden Lane, London, E.C. See No. 101.
Horton, W., 98 Buchanan Street, Glasgow. See No. 966
Loewe, Ludw., & Co., Ltd., 30 and 32 Farringdon Road, London, E.C. See No. 1039.
Lyon, Wm., 474 Sauchiehall Street, Glasgow. See No. 116.
Notkin Syndicate, Ltd., Edinburgh. See No. 1047.
Skoda Works Pilsen, Ltd., Pilsen, Bohemia. See No. 1059.
Steven & Struthers, Anderston Brass Foundry, Glasgow. See No. 1064.
Stern Bros., 57 Gracechurch Street, London, E.C. See No. 182.
Staynes, W. H., & Smith, Bellgrave Gate, Leicester. See No. 264.
Swift Cycle Co., Ltd., Cheylesmore Works, Coventry. See No. 801.
Young & Sons, 20 Queen Street, Glasgow. See No. 93.



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Agents for the United Kingdom and Colonies of

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Boring and Turning Mills,

The Bullard Mill is a Surfacing and Boring Lathe, "stood on end."

ADVANTAGES:—Saving of Shop Space; ease in setting work; Extreme Rigidity, which it is impossible to attain in a horizontal machine, and consequently results in improved work and greater accuracy.

STAND No. 1039.

CLASS IV.

LOCOMOTION AND TRANSPORT.

SOUTH-WEST COURTS.

801 **Swift Cycle Co., Ltd.**, Cheylesmore Works, Coventry.—Swift Cycles, Motor Cycles and Fittings.

802 **Stirling's Motor Carriages, Ltd.**, 504 to 508 Sauchiehall Street, Glasgow.—Motor Carriages of Light Tubular Construction, propelled by Petroleum, to seat two to ten persons. Also Petrol Launches. (See Advt., pages 106, 121, & 137.)

803 **Preston Davies Tyre and Valve Co., Ltd.**, Broad Street, Bridgeton Cross, Glasgow.—Pneumatic Tyres and Rim Brakes for Cycles and other Light Vehicles. Miniature Cycle with Scottish Pneumatic Tyres fitted.

804 **Buchanan, J., & Co.**, Coachbuilders, 123-145 North Street, Glasgow.—The "Kandahar" Brougham, duplicate of one built for Earl Roberts, upholstered in Frieze Velvet, fitted with Patent Wheels, India Rubber Spring Eyes, Covered Steps, etc. The "Alexander" Automatic Canoe Five Light Landau, upholstered in Genoa Silk Velvet, fitted with Patent Cee and Cross Springs, Patent Parallel Head, Steel Mountings throughout, etc. The "Premier" Brougham (Miniature), upholstered and fitted similar to the "Kandahar." The "Favourite" Canoe Landau, upholstered in Morocco, fitted with easy Elliptic Bow and Cross Springs, Patent Balance Spring Roof, etc. "Arcadia" Barouche Victoria, upholstered in Silk Tabaret, fitted with Patent Composite Cee and Cross Springs, Automatic Spring Hood, Patent Wheels, India Rubber Spring Eyes, etc. "Handy" Mini-Bus, Portable Roof and Backrests, forming a compact Open and Close Carriage, hung on Elliptic and Side Springs. The "Luxurious" Polo Cart, fitted with Patent Steel Ball Bearing Axles, hung on Patent India Rubber Ball-end Springs (to be seen in Model Farm in Exhibition). The above Carriages are fitted with Buchanan's Patent "Premier" Combination India Rubber Tyres. (See Advt. below, also page 119.)

805 **M'Donald, David**, 54 Renfield Street, Glasgow.—Full-sized and Small Model Horses, fitted with Sets of Harness. Glass Cases with Saddlery. (See Advt., page 368.)

806 **Dove, J. & T. A.**, 15-23 St. Andrew Square (Central Show Rooms, 9 Candleriggs), Glasgow.—Basket, Wicker Furniture, Perambulators, etc.

807 **Wilson, Robert**, 224 St. George's Road and 7 West Campbell Street, Glasgow.—Model Horse, 15 hands, with set of Gig Harness fitted.

J. BUCHANAN & CO.,

. . Coachbuilders, . .

SHOW-ROOMS, 123-145 NORTH STREET, GLASGOW

Patentees of the "Premier" Combination India-Rubber Tyre, No. 4582.

On Sale at all times the Largest Stock of First-Class Carriages in Scotland.

CARRIAGES STORED, TAKEN IN EXCHANGE, OR SOLD ON COMMISSION

ESTABLISHED FOR OVER EIGHTY YEARS.

WORKS, - - - CLEVELAND LANE, GLASGOW.

808 **Macnaughton, James, & Rankin,** 110 Bath Street, Glasgow.—Case of Saddles, Bridles, Horse Clothing and Harness, Whips, etc. Full-sized Model Horse with Set of Harness. Telegrams, "Martingale," Glasgow. Established 1843.

809 **Great Southern and Western Railway Co.,** Inchicore, Dublin.—Photographs and Models of Rolling Stock in use on the G.S. and W. Railway. Model of 1st Class Dining Saloon. (See Advt., page 54.)

810 **Henderson, James, & Co.,** 60, 62 and 64 North Street, Glasgow.—Side-light Landau, Parallel Action, hung on Henderson's Combination Lee Springs behind, Elliptic in front, Patent Ball-bearing Axles, Patent Warner Wheels, fitted with Patent Improved Wired-on Indiarubber Tyres, Brass Mountings. Elysian Brougham, hung on Bow-end Springs behind, Elliptic in front, Patent Collinge's Axles, Patent American Wheels, fitted with Patent Improved Wired-on India-rubber Tyres, Silver Mountings. Sociable, hung on Henderson's Combination Lee Springs behind, Elliptic in front, Collinge Patent Axles, Patent "Ideal" Indiarubber Wired-on Tyres, Patent American Wheels, Silver Mounts. Victoria, hung on Bow end Springs behind, Elliptic in front, Collinge Patent Axles, American Patent American Wheels, fitted with Round-edge Steel Tyres, Brass Mountings. Stanhope O.Gee design, hung on Patent Elliptic Springs, Collinge Patent Axles, Patent American Wheels, fitted with "Clincher" Wired-on India Rubber Tyres, Brass Mountings. Chapel Cart O.Gee design, hung on Patent Cup and Indiarubber Ball-end Grasshopper Springs, Patent Ball-bearing Axle, Patent Shifting Screw-seats, Silver Mountings. Polo Cart, O.Gee design, hung on side and cross spring behind Collinge Patent Axle, American Patent Wheels, fitted with Patent "Ideal" Indiarubber Wired-on Tyres, Patent Screw Seats, Brass Mountings. (See Advt., page 120.)

811 **Holmes, Wm.,** Carriage Builder, Ontario Buildings, Irvine, Ayrshire.—Established 1869 (for several years at the trade in America). Designs of Light Two and Four Wheeled Carriages. Brougham, Stanhope, Polo, and Governess Car.

812 **Robertson, John,** Coachbuilder, Telegraphic Address, "Æsthetic, Glasgow;" Telephone No. 42; Exhibition Telephone No. 2, 412 to 418 St. Vincent Street, Glasgow.—"St. Mungo" Brougham, lined with Green Plush, and fitted with Robertson's Combination Pat. Pneumatic Tyres, Elliptic and Bow End Springs, and Electric Light, etc. Side Light Landau, lined with Green Morocco, Patent Self-acting Automatic Roof and Door frame Fixtures for Opening and Closing Doors without dropping the Glass Frames. Robertson's Imperial Sociable or Canoe-shaped Double Victoria, new design, lined with Brown Morocco and Cloth, fitted with Robertson's Combination Patent C Springs, with Leather Hood, Folding Waterdeck, and Leather Apron. Family Omnibus, seated for 14, lined with Blue Morocco and Cloth, fitted with Moveable Luncheon Table and Four-in-Hand Mountings. The above Carriages are fitted with Collinge's Patent Axles, Patent Warner Wheels, and Double Round Edge Steel Tyres. Robertson's Combination Pneumatic Patent Tyre fitted to a Warner Patent Wheel. (See Advt., pages 354 and 355).

J. BUCHANAN & CO.,

Coachbuilders,

SHOW-ROOMS, 123-145 NORTH STREET, GLASGOW.

Patentees of the "PREMIER" COMBINATION INDIA-RUBBER TYRE, No. 4582.

Undoubtedly "The most successful India-Rubber Tyre yet Invented."

NO WIRES NOR LOOSE PARTS.

LEADERS IN FIRST-CLASS WORK FOR OVER EIGHTY YEARS.

THE OLDEST ESTABLISHED COACHBUILDING FIRM IN THE CITY.

WORKS, - - - CLEVELAND LANE, GLASGOW.

813 **Dunlop Pneumatic Tyre Co., Ltd.**, 14 Regent Street, London, S.W., 61 Bath Street, Glasgow, etc.—Pneumatic Tyres for Cycles, Motors, and all classes of Vehicles. Covers, Tubes, Valves, Inflators, Rims, Wheels for Cycles, Carriages, Motor Cycles and Cars, etc. Mechanical Rubber Goods for Carriage Builders. (See Advt., page 134.)

814 **Dove, John,** Basket and Perambulator Manufacturer, 31 St. Andrew Street, Glasgow.—Perambulators, Mail Carts, Invalid Carriages, and Wicker Work of all descriptions.

815 **Owen, Joseph, & Sons, Ltd.**, Liverpool.—English and Foreign Timber Merchants, Importers, Manufacturers and Benders. Contractors to the War Office, and other Government Departments, Civic Corporations, and all the leading Railway Companies. Special—Seasoned Timber for the requirements of Tramcar, Railway Carriage and Coach Builders. General—For Joiners, Contractors, Wheelwrights, and all other Consumers of Timber in rough or manufactured.

816 **Ogilvie, A., & Co**, 130 Hope Street, Glasgow.—Model Horse, with Specimen Set of Brass-Mounted Harness. Several Specimens of Light Harness, Horse Clothing, Stallion Equipments, Ladies and Gent.'s Saddles, Whips, Twigs, Crops, and sundry articles. (See Advt., page 371.)

817 **Great Western Railway**, Paddington Station, London, W.—Views of places of interest on the Great Western Railway.

818 **Electrical Power Storage Company, Limited**, 4 Great Winchester Street, London, E.C.—Established 1882. Electric Accumulators of all descriptions, for Lighting, Traction, and portable purposes. Electric Victoria, fitted with their special Faure King Batteries.

819 **Mitchell, Robert, & Son**, 18 and 20 Shaftesbury Street, Cranstonhill, Glasgow.—Four Wheeled Rubber Tyred Light Goods Delivery Van, fitted with Carriage Springs, Collinge Patent Axles, Sweet's Concealed Band Wheels. Light Polo Cart, fitted with White Metal Mountings and "Ideal" Rubber Tyres. Petrol Motor Car, 5½ H.P., average speed twelve miles per hour, back reversible speed three miles per hour, Electric Ignition, Wheels Artillery Pattern Rubber Tyred. Half sections of Light Delivery Vans, and Chapel Cart, samples of Wheels, Rubber Tyres, Forgings, etc. (See Advt., page 352.)

820 **Kelly, J. H.**, Parkhead, Glasgow.—Vans, Carts, and Four Wheeled Vehicles; also Carts, etc., in the Model Farm. (See Advt., page 216.)

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Allan, Whyte & Co., Clyde Wire Rope Works, Rutherglen. See No. 430.

Anti-Friction Alloys, Ltd., 52 Queen Victoria Street, London, W. See No. 540.

Avery, W. & T., Birmingham and Glasgow. See No. 415.

Barclay, Andrew, Sons & Co., Caledonia Works, Kilmarnock. See Nos. 464, 521, and 1034.

JAMES HENDERSON & Co.,

COACHBUILDERS.

Awarded Gold Medal at Crystal Palace, London, 1896; Highest Award, Adelaide, 1887; High Honours and Royal Patronage, Universal Exhibition, Paris, 1878, and Edinburgh, 1886; First-Class Certificate, London, 1883. **Established 1838.**

CARRIAGES ADAPTED FOR USE BOTH AT HOME AND ABROAD.

Manufactured under strict superintendence of Managers of practical experience in London and Paris.

60, 62, 64, NORTH ST., GLASGOW.

Branch Show Rooms, - - 64 to 70 Bothwell Circus.

British Hydraulic Foundry Co., Ltd., Whiteinch, near Glasgow. See No. 511.
British Westinghouse Electric and Manufacturing Co., Norfolk Street, Strand, London, W.C. See No. 1040.
Caledonian Wire Rope Co., Airdrie. See No. 4.
Champion Friction Clutch Co., Ltd., Trent Street, Attercliffe, Sheffield. See No. 590.
Cook, William & Co., Tinsley Street Iron and Wire Rope Works, Sheffield See No. 489.
Crossley Bros., "Otto" Gas Engine Works, Openshaw, Manchester. See No. 423.
Clyde Rubber Works Co., Ltd., Clyde Street, Port-Dundas, Glasgow. See No. 259.
Dubs & Co., Glasgow Locomotive Works, Glasgow. See Nos. 364 and 524.
Dunlop, Colin, & Co., 62 Buchanan Street, Glasgow. See No. 6.
Edelsten, John, & Sons, Warrington. See No. 367.
Eglinton Chrome Tanning Co., Ltd., 8 Firhill Road, Glasgow. See No. 263.
Finlay, John, & Co., Ltd., 18 Renfield Street, Glasgow. See Nos. 287 and 1054.
Glenfield & Kennedy, Ltd., Kilmarnock. See No. 431.
Halford, H. S., 37 Nevern Square, London, S.W. See No. 1052.
Hardtmuth, T. & C., 12 Golden Lane, London, E.C. See No. 101.
Indestructible Rolled Steel Axle Box, Ltd., 53 Victoria Street, Westminster, London, S.W. See No. 502.
Jones, E. F., & Co., Naval Works, Kensington, Birmingham. See No. 866
Kincaid, John G., & Co., Clyde Foundry. Greenock. See No. 544.
Leadbeater & Scott, St. Mary's Works, Sheffield. See No. 467.
M'Neill, F., & Co., Lamb's Passage, Bunhill Row, London. See No. 278
Muntz Metal Co., Ltd., French Walls, near Birmingham. See No. 530.
Temperley Transport Co., 72 Bishopsgate Street Within, London. See No. 432.
Stern Bros., 57 Gracechurch Street, London, E.C. See No. 182.
United States Metallic Packing Co., Ltd., Soho Works, Thornton Road, Bradford. See No. 547.
Wallach Bros., 57 Gracechurch Street, London, E.C. See No. 385.
Webster, Francis, & Sons, Alma Works, Arbroath. See No. 871.

Stirling's Automobiles,

Motor Carriages to seat from Two Persons upwards.

Motor Carriages,

See STAND No. 802, LOCOMOTION and TRANSPORT SECTION.

CATALOGUES FREE ON APPLICATION.

STIRLING'S MOTOR CARRIAGES, Limited,

504, 508 Sauchiehall St., Charing Cross, Glasgow.

CLASS V.

MARINE ENGINEERING AND SHIPBUILDING.

GRAND AVENUE.

830.—Collection of Models of Merchant Vessels; Steamers, and Sailing Ships; which have done, or are doing, memorable Service at Sea: and as here arranged, in chronological order, exemplify the Development of Shipping and of Ocean Navigation during the Nineteenth Century.

INTRODUCTORY NOTE.

THE ship models in this collection have been placed at the disposal of the Shipbuilding and Engineering Committee, mostly by the firms who built the vessels they represent. The models are those of vessels of the mercantile marine exclusively, and they have been grouped in chronological order, according to the date of their production. The particulars subjoined of individual exhibits have been compiled, for most part, from information supplied by the firms lending the models, and may therefore be relied upon for general accuracy. While the collection may be regarded, on the whole, as fairly representative of the types, and notable pioneer vessels evolved during the century's development of shipping and steam navigation, visitors will no doubt discover numerous omissions. This, though regrettable, is not surprising; the models shown are, for the most part, those of vessels built locally, and therefore more readily available; other vessels built or owned by firms in distant parts of the kingdom, though taking notable place in the history of shipping development, have not been so easy to procure on loan from their owners, who, not unnaturally, are jealous of the safety of such historic treasures. To some extent, however, the omissions are made good in the Exhibition, through the presence of notable models at the stalls of the Companies and firms exhibiting independently,

The very limited space at our disposal prohibits anything like a full and connected epitome of the growth of shipping and steam navigation as exemplified by notable vessels, but a few outstanding facts as to the early stages of steamship construction, are called for, owing to the present collection being, in this respect, deficient. The "Comet" was followed in 1813 by the "Elizabeth," slightly larger, and in the same year, by the "Clyde" of 72 ft. keel by 14 ft. beam, with engines of 14 H.P. Still larger vessels soon followed, amongst these being the "Glasgow" and the "Marjory," the latter of which—60 ft. long—was taken to the Thames in 1815, and was the first steam boat plying on that river. The earliest channel steamer was the "Rob Roy," of 90 tons and 30 H.P., built by Denny of Dumbarton, and engined by David Napier. She was the first steamer to cross to Belfast, and was afterwards placed on the Dover and Calais service. The first steamer to ply between Leith and London was the "United Kingdom," 160 ft. long, built in 1826 by Steele of Greenock, and engined by David Napier. The ramifications of steamship service had so greatly extended, that in 1825 the "Enterprise," of 500 tons and 120 H.P., built by Gordons & Co., on the Thames, and engined by Maudsley, made the passage to India. Iron as the structural material for ships (other than canal barges, etc.) dates from about 1821, when the "Aaron Manby" was made at Horsley, and put together on the Thames. The first iron seagoing steamer was the "Royal Sovereign," built in 1839 by Tod & M'Gregor, a firm now extinct, who have justly been referred to as "the fathers of iron-shipbuilding" on the Clyde. The "Royal Sovereign," like the "Princess Royal," built in 1841, and included in the present collection, plied between Glasgow and Liverpool. The first steamer to cross the Atlantic, from Britain, entirely under steam, was the "Sirius," built in 1837-38 by Menzies of Leith, and engined by Thomas Wingate of Glasgow. The "Great Western," built at Bristol, also crossed about the same time, the two arriving at New York within a few hours of each other. In 1840 the Atlantic was crossed by the "Britannia," the pioneer steamer of the Cunard Fleet, of which a model is shown.

In other directions the collection is perhaps sufficiently representative; clipper ships, renowned for quick passages; swift river and channel steamers; full powered ocean mail steamers; capacious cargo carriers, of both the ordinary and the turret type; and the acme of up-to-dateness in the shape of turbine propelled steamers—all these receive illustration in the collection.

N.B.—The Models are arranged, generally speaking, according to the year of the ship's build, but as many of them are Full Models, in Glass Cases, they must be looked for within the space bounded by the end partitions of the Stall.

"Comet," 1812.—Wood Paddle Steamer, built by John Wood, Port-Glasgow, for Henry Bell, of Helensburgh, for passenger traffic on the Clyde between Glasgow, Greenock, and Helensburgh. Length 42′, breadth 11′, depth 5½′. Engine, single acting, cyl. 11″, stroke 1ft., 4 H.P., made by John Robertson, Glasgow. The first steam vessel in Europe practically successful, and employed in regular trading. She began plying on the Clyde in August, 1812, and was advertised to leave the Broomielaw (wind and weather permitting) on Tuesdays, Thursdays, and Saturdays, at an hour suitable to the tide, and to return from Greenock on Mondays, Wednesdays, and Fridays. The fares were 4/ for the best cabin, and 3/ for the second She had at first two sets of paddle wheels on each side as shown on the model, but, on being afterwards lengthened to 60′, she was fitted with a new engine and a single pair of paddles, and attained a speed of 5 miles per hour. About 1815 the "Comet" appears to have plied on the river Forth for a period. She was lost in 1820 at Craignish while on the Fort-William route on the West of Scotland.

"Seringapatam," 1837.—Wood Sailing Ship, 871 tons gross, 818 net, built by R. & H. Green, of Blackwall, London, on account of Richard Green for trading to India. Classed A 1 at Lloyd's, and the first of a new type of sailing ships, this vessel was 148½′ long, 35½′ beam, and 14½′ deep, and famous for her fast voyages between this country and India. She was last entered in Lloyd's Register in 1869, and was afterwards probably broken up.

"Inveraray Castle," 1839.—Iron Paddle Steamer, 230 tons gross, built by Tod & M'Gregor (now D. & W. Henderson & Co.), Partick, for David Hutchison, Glasgow, the pioneer of Clyde and West Highland tourist traffic. Length B.P. 173′, breadth 20½′, depth 10′. Engine, "steeple" jet-condensing, one cyl. 50″ diameter, stroke 4′, H.P. 100. Was lengthened, and owned latterly by David MacBrayne (the successor of Hutchison in the West Highland shipping service), and was in active service until a few years ago, when she was broken up.

"Peru," 1839.—Wood Paddle Steamer, 700 tons, built by Curling, Young & Co., of Blackwall, London, for the Pacific Steam Navigation Co.'s Panama and Valparaiso trade. Length overall 198′, breadth extreme 50′. Direct acting engines of 50 H.P. Engaged with her sister ship, the "Chile," in the Pacific trade till about 1852.

"Scottish Maid," 1839.—Wood Sailing Schooner, 150 tons net, built by Alex. Hall & Co., Aberdeen. Length B.P. 99′, breadth inside 19′ 9″, depth of hold 12′ 8″. This was the first Aberdeen clipper, and was designed to compete with the paddle steamers between Aberdeen and London. She was wrecked off the English coast in 1890, after half-a-century's service. Three other schooners from the same model, the "Fairy," the "Rapid," and the "Monarch," were built in 1842.

"Glasgow," 1840.—Iron Paddle Steamer, 83 tons gross, built by Caird & Co., Greenock, for Service between Glasgow and Greenock. Length B.P. 70′, breadth 16′, depth 8′. Fitted with single acting, diagonal jet-condensing engine. One flue boiler with steam pressure of about 12 lbs. Vessel steamed about 7½ knots per hour, and was eventually sold for service on the Mersey.

"Britannia," 1840.—Wood Paddle Steamer, 620 tons register, 2050 tons displacement, built by Robert Duncan, Port-Glasgow, for the Cunard Company's Atlantic service. Length B.P. 207′, extreme breadth 34·4′, depth 24·8′. Fitted by Robert Napier, Govan, with side-lever, jet condensing engines of 413 N.H.P.; cylinders 72½″ diameter, stroke 6′ 10″; four flue boilers. Speed 8½ knots. One of four similar wood steamers, built on the Clyde, and engined by Robert Napier, which formed the nucleus of the Cunard Company's fleet. The Britannia commenced the service by sailing from Liverpool, in July, 1840, for Halifax and Boston. On the outward voyage she consumed 440 tons of coal, and on the homeward 450 tons. On her first voyage she was frozen up in Boston Harbour, and the inhabitants, at their own expense, cut a way for her through the ice to clear water—a distance of seven miles.

"**Princess Royal,**" 1841.—Iron Paddle Steamer, built by Tod & M'Gregor (now D. & W. Henderson & Co.), Partick, for M. Langlands & Sons' Glasgow and Liverpool service. Length 194′, breadth 32′, depth 14′. Two steeple jet condensing engines of 380 H.P. One of the finest and fastest iron steam vessels of her time; her immediate predecessors in the Glasgow and Liverpool trade, the "Royal Sovereign" and "Royal George," built in 1838, having been the first sea-going vessels built of iron.

"**Craignish Castle,**" 1843.—Iron Paddle Steamer, 285 tons gross, built by Caird & Co., for the Glasgow Castle Steam Packet Co., for their passenger service between Glasgow, Rothesay, and Largs. Length 170′, breadth 19′, depth 9′. Fitted with double diagonal jet condensing engines and two flue boilers carrying 14 lbs. pressure. The first paddle steamer on the Clyde to be fitted with feathering floats. She steamed about 12 knots, and went out to run the blockade in the American War.

"**Queen,**" 1844. Iron Paddle Steamer, 573 tons register, built by A. Hall & Co., Aberdeen, for the Aberdeen, Leith, and Clyde Steam Company. Length 180′, breadth 28′, depth 16′.

"**Viceroy,**" 1846.—Iron Paddle Steamer, 725 tons B.M., built by R. Napier & Sons, Govan, for the Dublin and Glasgow S.P. Co.'s channel service. Length 203′, breadth 27′, depth 18′. Engines of the side lever type of 1100 I.H.P.

"**Trafalgar,**" 1847.—Iron Paddle Steamer, built by Tod & M'Gregor, Partick, for the P. & O. Co.'s Eastern trade. Length overall 212′, breadth 33½′, depth 19′. Oscillating jet condensing engines of 370 I.H.P., two cyls. 70″ dia., stroke 5½′.

"**Reindeer,**" 1848.—Noted Wood China Clipper, 328 tons net, built by A. Hall & Co., Aberdeen, for a Liverpool firm. Length B.P. 145½′, breadth inside 22′ 3″, depth of hold 15′ 5″.

"**Cambria,**" 1848.—Noted example of early channel steamers. Iron Paddle Steamer, 589 tons gross, 327 tons net, built by Laird of Birkenhead for the Chester and Holyhead Railway Co. (afterwards merged into the London & N.-W. Ry. Co.). Length 207′, breadth 26′, depth 14′. Engines by Forrester, of Liverpool, of the side lever type of 392 N.H.P., cyls. 73½″ dia., stroke 5′. Two tubular boilers by Horton & Co., Liverpool, carrying 15 lbs. pressure. Speed of vessel, 15 knots. For the long period of 32 years this vessel plied between Holyhead and Dublin, and was eventually broken up in 1881.

"**Collier,**" 1848—Iron Screw Steamer, 158 tons register, built by John Reid & Co., Port-Glasgow, for Mories & Nicol, Greenock. Length 95′, breadth 20′, depth 10½′. Engines by Caird & Co, Greenock, two cyls. 20″ dia., stroke 2′. In 1857 this vessel was lengthened by 32′, and is still in service after over half-a century s work.

"**Simoom,**" 1849.—H.M. Iron Screw Frigate, of 2,900 displacement, built by R. Napier & Sons for British Admiralty. Length B.P. 246′, breadth mld. 41′, depth mld. 30′. Engines horizontal oscillating of 1700 I.H.P. One of the first iron steam frigates built for the British Navy. Was converted into a transport ship, and after 40 years' service was sold to go abroad.

"**Star,**" 1849.—Iron Paddle Steamer, built by Tod & M'Gregor, Partick, for the Clyde coasting trade. Length overall 162′, breadth mld. 18½′, depth mld. 10′. Fitted by her builders with steeple jet condensing engines of 100 H.P. and one haystack boiler.

"**City of Glasgow,**" 1850.—Iron Screw Steamer, 1,600 tons, one of the pioneer screw vessels in Atlantic service, built by Tod & M'Gregor, Partick, to the order of Glasgow owners, but acquired after launching by Inman & Co., Liverpool Length overall 220′, breadth, mld., 32′, depth, mld., 21′. Engines, overhead beam, jet condensing, 3 0 H.P., two cyls. 66″ dia., stroke 60″. This vessel, memorable as the first of the fleet of transatlantic liners, subsequently so renowned as the Inman Line, had already been built and launched (her builders having formed the idea, in common with the owners of the "Great Britain"—built at Bristol in 1843—of starting a continuous service of voyages across the Atlantic with vessels built of iron and driven by screws), when they were approached by Mr. William Inman, who eventually purchased the vessel and ordered another, the "City of Manchester," of 2,125 tons and 400 H.P. With these two steamers, and others subsequently added, a service between Liverpool and Philadelphia was established, and shortly thereafter between Liverpool and New York.

"Three Bells," 1850.—Iron Sailing Ship, 648 tons gross, built by Wm Denny & Bros., Dumbarton, for Bell Bros., Glasgow. Length B.P. 171′, breadth mld. 29′, depth of hold 16·7′.

"Oporto," 1852.—Iron Sailing Brig, about 200 tons gross, built by J. W. Hoby & Co., Renfrew, for Bailie Mitchell, Glasgow. Length B.P. 112′, breadth mld. 20′, depth mld. 14′ 6″. This vessel, classed at Lloyd's, was engaged in the Spanish trade, carrying cork and copper ore. Built at a time when cement had not been introduced to protect the plating from the effects of corrosion, the copper ore insidiously ate through the iron of her bottom plating, and she went down, on a fine day, in the Bay of Biscay, the crew saving themselves in a boat.

"Vanguard," 1852.—Iron Sailing Ship, 688 tons, built by John Reid & Co., Port-Glasgow, for Nicholson & M'Gill, Liverpool, for South American and Australian service. Length 171′, breadth mld. 26′ 8″, depth mld. 19′ 4″. This was the first *iron* Ship to bring away a cargo of Tea from China. The Chinese had never before seen an iron ship, and were puzzled to know—as many were even in this, the country of its birth—how it could possibly float. Though now in her 49th year, she is still in service, having been sold a few years ago by her original owners, and re-named the "Carl."

"John Bowes," 1852.—Iron Screw Steamer, 485 tons gross, 650 tons carrying capacity, built by Palmer Bros. (now Palmer's Shipbuilding and Iron Co., Ltd.), Jarrow, for the collier trade between Newcastle and London. Length overall 164′, breadth mld. 25½′, depth of hold 15½′. Her original engines were of the Inverted Jet Condensing type; in 1883 re-engined and boilered by M. Paul & Co., Dumbarton. Engines, inverted S.C. cyls 16″ and 35″, stroke 36″, 66 N.H.P. cyl., multitubular boiler 83 lbs. pressure. The first Iron Screw Collier, displacing the old wooden collier brigs; her advent virtually saving the coal-carrying trade to the North of England and leading to the great development of iron shipbuilding on the Tyne. Still afloat (as the "Transit"), but sold to foreigners about three years ago.

"Simla," 1853.—Iron Screw Steamer, 2440 tons gross, built by Tod & M'Gregor for P. & O. Co. Length overall 321′, breadth mld. 39½′, depth mld. 29′; Engines, Steeple, Geared Jet Condensing, of 630 H.P., two cyls. 90″ dia., stroke 72″; Boiler pressure 16 lbs. This vessel is representative of several built at this time by the P. & O. Co., in pursuance of an extended scheme of steam communication with the Far East, including, for the first time, the Australian ports.

"Cairngorm," 1853.—Wood China Clipper, 938 tons nett, built by A. Hall & Co., Aberdeen, for Jardine, Mathieson & Co., London. Length B.P 193′, breadth inside 33′, depth of hold 20′; 2 decks. Wrecked on the China coast.

"Atrato," 1853.—Iron Paddle Steamer, 3466 tons gross, 2720 nett, built by Caird & Co., Greenock, for the West India Royal Mail S. P. Co.'s service from Southampton to West Indies. Length B.P 315′, breadth 42′, depth mld. 26½′. Engines, Side Lever, Jet Condensing, of 800 N.H.P., cyls. 96″, stroke 9′, Flue Boiler, working pressure 15 lbs.; speed 13½ knots.

"Telegraph," 1853.—Iron Paddle Steamer, 819 tons gross, 478 nett, built by J. & G. Thomson, Glasgow, for the Chester and Holyhead Railway Co. (afterwards merged in the L. & N. W.) for service between Holyhead, Kingston, and Dublin. Length 244′, breadth mld 28′, depth 15′. Engines, Side Lever, 418 N.H.P., cyls. 77½″, stroke 5½′; 2 Tubular Boilers, pressure 14 lbs.; speed 15 knots. This vessel, until about 1885, was employed between Liverpool and Carlingford Lough, then engaged as a dispatch boat during the Crimean War. Repurchased by original owners in 1858; broken up in 1884.

"Trojan," 1853.—Iron Sailing Ship, 425 tons, built by J. Reid & Co., Port-Glasgow, for West Indian service of J. Ewing & Co., Glasgow. Length 131½′, breadth mld. 24′ 8″, depth mld. 16′.

"**Rothesay Castle,**" 1854.—Iron Paddle Steamer, 300 tons gross, built by Caird & Co., Greenock, for passenger traffic between Glasgow and Rothesay. Length B.P 190′, breadth mld. 18′, depth mld. 8′. Engines, Osc., Jet Condensing, 2 cyls, 40″ dia., stroke 3′ 6″; 2 Haystack Boilers, working pressure 25 lbs.; speed 17 knots. This vessel, typical of several remarkably speedy River Boats built about this time, made the passage from Glasgow to Rothesay in 2 hours 41 mins., calling at Greenock, Gourock, Kirn, Dunoon, and Innellan. Time, Glasgow to Dunoon, 1 hour 57 mins. After lengthened service on Clyde, was employed on the River Hooghly, towing barges.

"**Jupiter,**" 1855.—Iron Paddle Steamer, built by Tod & M'Gregor for the Clyde coasting trade. Length B.P. 173½′, breadth mld. 18′ 4″, depth mld, 8½′. Engines, Steeple, Jet Cond., 90 H.P., cyl. 57¼″, stroke 48″; 2 Haystack Boilers. Sold to run blockade during American War.

"**Star of Peace,**"1855.—Wooden Sailing Ship, 1113 tons nett, built to Lloyd's classification by W. Hood & Co., Aberdeen, for the Australian trade of Geo. Thompson & Co., of Aberdeen and London. Length 208′, breadth mld. 36′. depth mld. 22½′. One of the pioneers in the Australian trade, carrying home frequent consignments of gold during the Australian gold "rush."

"**Fiery Cross,**" 1855.—Iron Screw Steamer, 1140 tons, B.M., built by R. Napier & Sons, for the Indian and China trade of Jardine, Mathieson, & Co. Length 227′, breadth mld. 32′, depth mld. 24′. Engines, horizontal trunk, 1200 H.P.

"**Schomberg,**" 1855.—Wood Clipper Ship, 2600 tons nett, built by A. Hall & Co., Aberdeen, for the Australian trade of J. Baines & Co., "Black Ball" Line, Liverpool. Length B.P. 270′, breadth inside 45′, depth of hold 28′. This vessel, of extra large tonnage for her time and class, was wrecked on her first voyage, at Cape Otway, Australia.

"**Ardbeg,**" 1855.—Wood Sailing Ship, 947 tons B.M., built by Archd. M'Millan & Sons, Dumbarton, for Duncan Thomson, Glasgow. Classed at Lloyd's. Length overall 197′, breadth 33·4′, depth 21·5′. This was the largest sailing ship built on the Clyde up to 1855.

"**Persia,**" 1855.—Iron Paddle Steamer, 3776 tons gross, built by Robert Napier & Sons, for the Cunard Company's service between Liverpool and New York. Length 350′, breadth 45′, depth of hold 30′; engines 917 N H.P., indicating 3600 H P. The first iron vessel of the Cunard fleet, and the largest hitherto owned by that Company, surpassing in speed all their other vessels. During 1856 the "Persia" on four occasions made the passage from New York to Liverpool in less than nine and a half days—in one instance the precise time being 9 days 4 hours 35 minutes.

"**Carthage,**" 1856.—Iron Screw Steamer, 736 tons gross, built by Wm. Denny & Bros. Length 216·8′, breadth mld. 30′, depth of hold 15·85′. Fitted by Tulloch & Denny, Dumbarton, with steeple, jet condensing engine, 370 H.P., one-cyl. 45″ dia., stroke 3′ 6″, two square return-tube boilers, working pressure 15 lbs.

"**Kelpie,**" 1857.—Iron Paddle Steamer, built by Tod & M'Gregor, for Clyde coasting trade. Length B.P. 191′ 4″, breadth mld. 18′, depth mld 8′ 3″. Engines, steeple, jet condensing, 100 H.P., 1 cyl. 60″ dia., stroke 48″, 2 haystack boilers.

"**Scotia,**" 1861.—Iron Paddle Steamer, 4660 tons gross, built by R. Napier & Sons, for the Cunard Co.'s Atlantic trade. Length B.P. 366′, breadth 47·9′, depth 31′. Engines, side lever type, 4000 H.P. The "Scotia" was the last of the ocean paddle-wheel steamers, and was also the last fitted with side lever engines. The 2 cylinders were each 100″ dia., with a stroke of 12′. She had 8 boilers with 40 furnaces for a steam pressure of 20 lbs. per square inch, and steamed 14 knots per hour on a coal consumpt of 160 tons per day. Was the first to make the passage across the Atlantic in less than 9 days, her fastest run being 8 days 3 hours. After carrying the mails for 15 years she was converted into a twin-screw telegraph cable steamer, and is still extant under her original name.

"**Hibernian,**" 1861.—Iron Screw Steamer, built by Wm. Denny & Bros., for the Montreal Ocean Steamship Co. (now Allan Line), for service between Liverpool and Canada, carrying passengers, mails, and cargo. Length 290′, breadth mld. 37½′, depth mld. to main deck 25½′. Fitted by Tulloch & Denny, Dumbarton, with comp. inverted direct-acting engines of 400 N.H.P., cyl. 68″ dia., stroke 42″. Four tubular boilers, working pressure 20 lbs. Speed 10 knots. This vessel was lengthened by 60′ in 1871, and had new engines and boilers in 1885. Was continuously employed in the North Atlantic trade till the present year, when she was sold to be broken up.

"**City of Ningpo,**" 1862.—Iron Sailing Ship, Lloyd's Class, 985 tons gross, built by Barclay, Curle & Co., for George Smith & Sons' Indian trade. Length B.P. 204′, breadth mld. 32′ 4″, depth of hold, 21′ 3″. After 20 years service in the Calcutta trade, was sold in 1881 to London owners, her name being changed to "Kinloss." She was subsequently again sold to a Hamburg firm, her present name being "Gustave Adolpho."

"**Iona,**" 1864.—Iron Paddle Steamer, 396 tons gross, built by J. & G. Thomson, Clydebank (now John Brown & Co., Ltd.) for David MacBrayne's "Royal Route." Length 246′, breadth 25½′, depth 9′. Engines, diag. osc., 2 cranks, 1350 H.P., cyls. 50″, stroke 4′ 3″; 4 D.E. and 2 S.E. Boilers of the Navy type, working pressure 40 lbs; speed 17 knots. Long renowned as the premier Pleasure Steamer on the Clyde; and after 37 years, still doing excellent service.

"**Malta,**" 1865.—Iron Screw Steamer, 2244 tons gross, built by J. & G. Thomson for the Atlantic passenger and cargo service of the Cunard Company. Length B.P. 286′, breadth mld. 39′ 3″, depth mld. 35′. Engines, vertical comp. osc. S.C., 2 cranks, 1400 H.P., cyls. 50½″ dia., stroke 5′. Two rectangular return-tube boilers, W.P. 25 lbs. Speed 12 knots. After being engaged in Atlantic and Mediterranean trades for 24 years, she was lost off the coast of Cornwall in 1889.

"**City of Paris,**" 1865.—Iron Screw Steamer, 2556 tons gross, built by Tod & M'Gregor (now D. & W. Henderson & Co., Ltd.) for the Inman Co.'s Liverpool and New York service. Length overall 365′, breadth mld. 40′, depth mld. 27½′. Engines, horiz. S.C. trunk, cyls. 89″ dia., stroke 42″. Rectangular tubular boiler, working pressure 30 lbs.

"**Gleniffer,**" 1866.—Iron Sailing Ship, 800 tons gross, built by Barclay, Curle & Co., for J. & A. Allan's Canadian service. Length B.P. 185′, breadth mld. 30½′, depth of hold 20′. One of the fastest clippers of her period. Was engaged in the North Atlantic and eastern trades for 22 years. Sold to a Liverpool firm, and probably still afloat under another name.

"**Thermopylae,**" 1868.—Composite Sailing Ship, 947 tons nett, built by W. Hood & Co., Aberdeen, for George Thompson & Co.'s Australian and China trade. Length 210′, breadth 36′, depth 21′. This celebrated clipper, designed by the late B. Waymouth, secretary of Lloyd's Register, and classed in that society's books, on her first voyage from London to Melbourne—starting in November, 1868—made the quickest passage on record between these ports, namely 60 days, from pilot to pilot. Next voyage she accomplished the same distance in 61 days, still faster than any other previous known passage.

"**Garonne,**" 1871.—Iron Screw Steamer, 3900 tons gross, built by R. Napier & Sons for the Pacific Steam Navigation Co. Length B.P. 370′, breadth 41′, depth 36 9′. Engines com. inverted 2700 I.H.P., cyls. 60″ and 104″, stroke 48″. Three boilers, working pressure 60 lbs. Speed 14 knots. The "Garonne" sailed for a number of years between Liverpool and the Pacific ports, but was ultimately sold to foreign owners, and is still registered in Lloyd's Book.

"**City of Richmond,**" 1873.—Iron Screw Steamer, 4607 tons gross, built by Tod & M'Gregor (now D. & W. Henderson & Co., Ltd.), for the Inman Company's Liverpool and New York service. Length, overall, 453½′; breadth, mld., 43′; depth, mld., 28′ 2″. Engines, comp. inverted, S.C., of 3340 H.P.; cyls. 76″ and 102″ dia. stroke, 60″. Ten S.E. tubular boilers; working pressure, 60 lbs. At the time of her launch was one of the largest vessels afloat.

"**Bothnia,**" 1874.—Iron Screw Steamer, 4535 tons gross, 2923 nett, built by J. & G. Thomson, for the Cunard Company's Atlantic service. Length, B.P., 420′; breadth mld., 42′; depth, mld., 30′, Engines, comp. D.A., S.C., 3400 H.P.; cyls., 60″ and 104″ dia.; stroke, 4′ 6″. Cyl. tubular boiler; working pressure 67 lbs. Speed, 13¾ knots. This vessel, employed mostly in the N. Atlantic passenger and cargo service, served as a troopship to India and Havana in 1899, and was afterwards sold to foreign owners. Still afloat.

"**Coriolanus,**" 1876.—Iron Sailing Ship, 1074 tons gross, 1046 nett, built by A. M'Millan & Sons, Dumbarton, for J. Patton, Jun., & Co., and intended for trading from London to the Colonies, thence to China, and from China, with early teas, to New York, and then home to London. Length, overall, 232′, breadth 35·2′, depth 20·15′. Performed in 1876 the voyage, Scilly to Calcutta, in 69 days; being the fastest on record. A model of this vessel was awarded the First Prize in the Competitive Exhibition of Ships' Models held in London in 1877, under the auspices of the Worshipful Company of Shipwrights. The prize consisted of a Gold Medal, 25 Guineas, and the Freedom of the Worshipful Company of Shipwrights and the City of London, to the Exhibitor, the late John M'Millan, Jun. The "Coriolanus" is still afloat.

"**Lord of the Isles,**" 1877.—Iron Paddle Steamer, 427 tons gross, 214 nett, built by D. & W. Henderson & Co., for the Glasgow and Inveraray S.P. Coy. Length B.P. 246′, breadth 24′, depth 8′ 4″. Engines, diag. oscil. S.C. of 1800 H.P., 2 cyls. 46″ dia., stroke 5½′. 2 Haystack Boilers, working pressure 50 lbs. Speed 17 knots. This vessel, the predecessor of the present well-known Clyde Steamer of the same name, was engaged for fully twelve years on the Glasgow and Inveraray route, and then for several years on the Thames. Still afloat.

"**Columba,**" 1878.—Steel Paddle Steamer, 562 tons gross, 218 tons nett, built by J. & G. Thomson for David MacBrayne's "Royal Route." Length B.P. 295′, breadth 27′, depth 9½′. Engines, diag. oscil., 2 cranks, S.C. of 2400 I.H.P., cyls. 53″ dia., stroke 5½′. Four D.E. Boilers (navy type), working pressure 55 lbs. Speed 18¼ knots. Has held the leading world-renowned position as a popular excursion steamer since her first season, now 23 years ago. Last year she was fitted with haystack boilers in place of her navy type boilers, this, with other minor changes in the machinery, resulting in her previous high speed being even enhanced.

"**Lily,**" 1880.—Steel Paddle Steamer, 1043 tons gross, 230 tons nett, built by Laird Bros., Birkenhead, for the Holyhead and Dublin Express Service of the L. & N.W. Railway Co. Length 300′, breadth mld. 33′, depth 15′. Originally fitted with vertl. oscill. jet condensing engines of 3200 H.P.; cyls., 78″ dia., stroke, 7′. Eight return tube boilers, 30 lbs. pressure. Speed, 17½ knots. In 1894 refitted with triple expansion S.C. steeple engines of 4500 H.P., cyls. 44, 70 and 108″. stroke 6½′; 6 loco. boilers, working pressure 150 lbs. Speed 18½ knots. This vessel, representative of the renowned Holyhead packets, was engaged on that route for 19 years, and is still at work on the Liverpool and Douglas (I.O.M.) station.

"**City of Rome,**" 1881.—Iron Screw Steamer, 8453 tons gross, 3687 nett; built by Barrow Shipbuilding Co., Ltd., for the Glasgow and New York service of the Anchor Line. Length B.P. 541′, breadth mld. 52′, depth mld. 38′ 9″. Engines, comp. S.C., cyls. (3) 43″ and (3) 86″, stroke 72″, 9 D.E. and 3 S.E. boilers, 85 lbs. pressure.

"**Parisian,**" 1881.—Steel Screw Steamer, 5395 tons gross; built by R. Napier & Sons for the Canadian service of the Allan Line. Length B.P. 440′, breadth 46′, depth mld. 36′ Engines, comp. 3 crank of 6000 I.H.P. Four boilers, 80 lbs. pressure. Speed 15 knots. The introduction of steel in the construction of the "Buenos Ayrean" in 1879 having proved highly satisfactory, the same material was employed in building the "Parisian," which was thus one of the first of the large mail steamers to be built of "the material of the future." Last year she was reboilered, and her machinery converted to the triple-expansion principle, by Workman, Clark & Co., Belfast.

"Mona's Isle," 1882.—Steel Paddle Steamer, 1420 tons gross, built by Caird & Co., Greenock, for the I.O.M.S.P. Co. for service between Liverpool and Isle of Man. Length B P. 330′, breadth mld. 38′, depth mld. 15½′. Engines, comp. osc. S.C. 3750 I.H.P. Four D.E. Boilers, working pressure 90 lbs. Speed 18½ knots.

"Umbria," 1884.—Steel Screw Steamer, 8128 tons gross, built by J. Elder & Co., Fairfield, for the New York service of the Cunard Company. Length 519′, breadth mld. 57′, depth mld. 40′. Engines, inverted S.C. of 14,000 I.H.P. Nine Boilers, working pressure 110 lbs. Speed, at trial, 20 knots. Although almost 17 years old, this well-known Atlantic liner, with her sister ship "Etruria," has maintained regular service.

"Victoria" and **"Britannia,"** 1887.—Steel Screw Steamer, 6257 tons gross, built by Caird & Co., for the P. & O. Coy.'s Australian service. Length 466′, breadth mld 52′, depth 36′. Engines, triple-expansion S.C., 7000 H.P. Six D.E. Boilers, working pressure 150 lbs. Speed 17 knots.

"Paris," 1888.—Steel Twin Screw Steamer, 10,669 tons gross (at first the "City of Paris" with her sister ship the "City of New York," built the year previous, the pioneer twin screw express mail and passenger steamers), built by J. & G. Thomson for the International Navigation Co.'s Atlantic Passenger service. Length B.P. 525′, breadth 63′, depth 43½′. Engines, 2 sets, triple-expansion S.C. of 20,000 H.P. Nine D.E. Boilers, working pressure 150 lbs., speed 21 knots. This vessel, which in her time held the Atlantic record, sustained a very serious breakdown in March, 1890, her starboard engines being entirely wrecked. She was purchased by the American Line and known as the "Paris;" was employed as an armed cruiser during the Spanish-American War. Some time ago she ran ashore on the Manacles, but was successfully floated and towed to Belfast, where she has completed extensive repairs, and been renamed the "Philadelphia."

"France," 1890.—Steel Sailing Ship, 3784 tons gross (the largest 5-masted sailing ship of her time), built by D. & W. Henderson & Co., for A. D. Bordes & Sons, of Bordeaux, for the Nitrate Trade, between South America and France. Length 345½′, breadth 48½′, depth 30′. Four W.T. bulkheads, continuous double bottom fore and aft, and deep hold tanks. Is still afloat.

"Liverpool," 1889.—Iron Four-Masted Sailing Ship, 3396 gross, 3134 net register; built by Russell & Co., Port-Glasgow, for the Leyland Shipping Co., Limited, Liverpool. Registered dimensions, length 333·2, width 47·9, depth 26·5.

"Empress of India," 1891.—Steel Twin Screw Steamer (followed by two others, "Empress of Japan" and "Empress of China") 5,700 tons gross, built by the Naval Construction and Armaments Company (now Vickers, Sons & Maxim, Ltd.) for the Canadian Pacific Railway's Mail Service from Vancouver to Japan and China. Length 485′, breadth 51′, depth 36′. Engines, triple-expansion, cyls. 32″ 51″ 84″, stroke 4½′. Boilers, four D.E., working pressure 160 lbs. Speed on trial, 18 knots.

"Glen Sannox," 1892.—Steel Paddle Steamer, 610 tons gross, built by J. & G. Thomson (now John Brown & Co., Ltd.), for the Glasgow & South-Western Railway Company's Ardrossan and Arran service. Length 260′, breadth 30′, depth 10½′. Engines, comp. D.A. diag. on 2 cranks, 3100 H.P. One D.E. and 1 S.E. Boiler, working pressure 150 lbs. Speed on trial, 19½ knots.

"Lucania," 1893.—Twin Screw Steamer, 12,950 tons gross, 21,920 tons displacement, with her sister ship "Campania" of the year previous, built by the Fairfield Shipbuilding Company, Glasgow, to the order of the Cunard Steamship Company for their express mail and passenger service between Liverpool and New York. Length over all 622½′, breadth mld. 65′ 3″, depth mld. 43′. Engines of 30,000 I.H.P. combined; cyls., two high press. 37″, intermediate 79″, two low-press. 98″, all with stroke of 5′ 9″. Boilers, 12 cylindrical of 165 lbs. working pressure, average speed, 22 knots. The "Campania" made the fastest "maiden" Atlantic passage on record, crossing from Queenstown to Sandy Hook (distance run 2865 knots) in 6 days, 8 hours, 34 minutes; and in returning home made the then best eastward passage in 5 days 17 hours 27 minutes. Subsequent passages were even faster, and the "Lucania" surpassed even this.

"**Tritonia,**" 1893.—Steel Screw Steamer, 4274 tons gross, built by D. & W. Henderson & Co., for the Canadian trade of Donaldson Bros. Length B.P. 377′, breadth 46′, depth 31′. Engines, triple-expansion S.C., 2500 H.P. Two S.E. Boilers, with forced draught working pressure 165 lbs. Speed 11½ knots.

"**Caledonia.**" 1894.—Steel Screw Steamer, 7560 tons gross, built by Caird & Co., for the P. & O. Co.'s service. Length B P. 486′, breadth 54′, depth 36′ 9″. Engines, triple-expan. S.C., 11,000 H.P., 30 D.E. and 4 S.E. Boilers, working pressure 160 lbs. Speed 18½ knots.

"**Talisman,**" 1896.—Steel Paddle Steamer, 279 tons gross, built by A. & J. Inglis for the North British Steam Packet Co.'s service on the Firth of Clyde. Length 222′, breadth 23′, depth 7′ 7″. Engines, diag. D.A. 1800 H.P., 1 Haystack boiler, working pressure 70 lbs. Speed 18 knots.

"**Canning,**" 1896.—Steel Screw Steamer, 5366 tons gross, built by D. & W. Henderson & Co. for Lamport & Holt's So. American service. Length 425′, breadth 51′ 9″, depth 31½′. Engines, triple expan., S.C. 3500 H.P., three D.E. boilers (forced draught) working pressure 180 lbs.

"**Ulster,**" 1896.—Steel Twin-screw Steamer, 2632 tons gross, with the sister ships, "Leinster," "Munster," and "Connaught," built by Laird Bros. for City of Dublin S.P. Co's Irish mail service between Holyhead and Kingston. Length B.P. 360′, breadth 41½′. depth 29·3′. Engines, triple expan., 4 cranks, S.C. 9000 H.P., four D.E. boilers, working pressure 175 lbs. Speed 23½ knots.

"**Clan MacDonald,**" 1897.—Steel Screw Steamer of the now familiar "Turret" type, 4839 tons gross, 3113 nett., built by W. Doxford & Sons, Sunderland, for the Eastern trade of the Clan Line Steamers, Ltd. Length 420′, breadth mld 50 2′. depth mld. 30½′. Engines, triple expan. S.C. of 3000 H.P. Three cyl. boilers, working pressure 180 lbs. Speed 12 knots.

"**Saxonia,**" 1899.—Steel Twin-screw Steamer, 14,000 tons gross, built by J. Brown & Co., Ltd., Clydebank for the Cunard Co.'s trade between Liverpool and Boston. Length 580′, breadth 64′, depth 41½′. Engines, quad. expan. D.A. S.C. of 9,500 H.P. Eight S E. boilers, working pressure 210 lbs. Speed 16½ knots.

"**Montezuma,**" 1899. — Steel Twin-screw Steamer, 7345 tons gross, built by A. Stephen & Sons for Elder, Dempster & Co.'s Atlantic cattle trade. Length overall 499′, breadth mld. 58′ 9″, depth mld. 41½′. Engines, triple expan. S.C. of 4384 H.P. Three D.E. boilers, 180 lbs. working pressure. Speed 13 knots. This admirable example of the modern cattle carrying vessel, has, from her completion, been employed as Admiralty transport, conveying horses and mules to South Africa.

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"Numidia," 1901.—Steel Screw Steamer, 6399 tons gross, built by D. & W. Henderson & Co., Ltd., for the Indian service of the Anchor Line. Length B.P. 450′, moulded breadth 55′, moulded depth 33′. Engines, triple expansion, S.C.; cylinders 29½″, 47″, and 78″ dia.; stroke 4½′. Three D.E. cyl. boilers; working pressure 180 lbs.

Turbine Steamer, 1901.—Proposed high-speed, cross channel, Steel Steamer. Length 275′, breadth 32′, depth 13′. To be propelled by Parson's Comp. Turbines, with multiple screw propellers, the I.H.P. being about 20,000. Steam at 250 lbs. pressure to be supplied by eight "Yarrow" Water Tube boilers. Speed 30 knots.

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831.—SOME RACING YACHTS, MEMORABLE PARTICIPANTS IN INTERNATIONAL YACHT CONTESTS.

"Genesta," 1884.—Designer, Beaver Webb.

"Thistle," 1887.—Designer, G. L. Watson. Built by D. & W. Henderson & Co., Partick.

"Valkyrie II.," 1893. Designer, G. L. Watson. Built by D. & W. Henderson & Co., Partick.

"Valkyrie III.," 1895.—Designer, G. L. Watson. Built by D. & W. Henderson & Co., Partick.

"Cambria," 1870.
"Livonia," 1873. } Built by M. E. Ratsey of Cowes for Mr. James Ashbury.

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832 **Brown, John, & Co., Ltd.**, Clydebank Engineering and Shipbuilding Works, Clydebank.—Full Models of Twin Screw Steamer "Moskva," built for the Russian Volunteer Fleet, length between perpendiculars 467′, breadth 58′, depth 37′, gross tonnage 7,267 tons, speed 20·2 knots, I.H.P. 16,480. Battleship "Asahi" (largest and most powerful battleship afloat), built for the Imperial Japanese Government, length between perpendiculars 400′, breadth 75′, depth 43′ 7½″, displacement 15,200 tons, speed 18·3 knots, I.H.P. 15,500. His Majesty's Ships "Sutlej" and "Bacchante" (Twin Screw Armoured Cruisers, Sheathed), length 440′, breadth 68′ 8½″, depth 39′ 2½″, displacement 12,000 tons, speed 21 knots, I.H.P. 21,000. Twin Screw Steamers "Vaderland" and "Zeeland," built for the International Navigation Company of New Jersey, length 560′, breadth 60′, depth 42′, gross tonnage 11,900 tons, speed 17 knots, I.H.P. 11,500. His Majesty's Armoured Cruiser "Leviathan" (largest and most powerful in the British Navy), length 500′, breadth 71′, depth 40′, displacement 14,100 tons, speed 23 knots, I.H.P. 30,000. His Majesty's Torpedo Boat Destroyer "Arab," length 227′ 6″, breadth 22 3″, depth 13′ 8″, displacement 400 tons, speed 32 knots. (See Advt. below.)

833 **Denny, William, & Bros.**, Shipbuilders, and **Denny & Co.**, Engineers, Dumbarton.—Full Models of Twin-Screw Allan Line Steamer "Bavarian;" the London and North-Western Railway Co.'s 21½ knot Express Steamer "Hibernia;" T.S.Y. "Lysistrata," designers, Messrs. G. L. Watson & Co.; Paddle Steamers "Dover" (South Eastern and Chatham Railway Co., Dover and Calais express service) and "Duchess of Hamilton" (Caledonian Steam Packet Co.); British India Steam Navigation Co.'s Steamer "Onipenta;" the Irrawaddy Flotilla Co.'s Paddle Steamer "Thooreah;" and a Full Model of the First Vessel, the Paddle Steamer "Loch Lomond," built by the Firm in 1845. Working Model of the Firm's Experimental Tank (1-15 scale) shewn in action. Photos of Ships and Engines, etc.

834 **Stephen, Alexander, & Sons, Ltd.**, Linthouse, Govan, Glasgow.—Full Models: Steel S.S. "Bohemian," built to order of Fred. Leyland & Co., Ltd.; dimensions 511′ 6″ × 58′ 3″ × 37′ 6″; tonnage 8,550, speed 13 knots. T.S.S. "Tunisian," built to order of J. & A. Allan for Quebec passenger trade; 500′ × 59′ 3″ × 35′ 6″; tonnage 10,580, 17 knots. "Boadicea," built for the Atlantic Transport Co., Ltd., 486′ 6″ × 52′ 3″ × 34′ 6″; tonnage 7,060, 13 knots. T.S.S. "Syria," built to order of P. & O. Co.; 450′ × 52′ 3″ × 33′ 6″; tonnage 6,830, 12½ knots. Steel S.S. "Induna," built for Maclay & M'Intyre's cargo trade; 380′ × 50′ × 28′ 3″; tonnage 4,430, 10 knots. Steel S.S. "Elettrico," built for the Navigazione Generale Italiana; 250′ × 33′ × 23′ 10½″; tonnage 1245, 16 knots. "Wardha," built for the British India Steam Navigation Co., Ltd.; 350′ × 47′ × 29′ 5″; tonnage 3,917, 12 knots. Steel S.S. "Clan Maclachlan," built for Cayzer, Irvine, & Co. (Clan Line); 395′ × 48′ × 30′; tonnage 4,730, 11 knots. "Port Morant," built for Elder, Dempster & Co.; 320′ × 40′ × 28′; tonnage 2,900, 16 knots. "Independente," built for the Navigazione Generale Italiana; 340′ × 40′ × 28′ 10″; tonnage 2,836, 13 knots. Steel S.S.Y. "Calanthe," built for Alexander Stephen, Esq., of Linthouse and

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835 **The Fairfield Shipbuilding and Engineering Co., Ltd.**, Fairfield Works, Govan.—Full Models: T.S.S. "Campania" and "Lucania," built to order of the Cunard Steamship Co., Ltd., Liverpool, length 600′, breadth 65′, depth 41′ 6″, built 1893; H.M. First-class Cruisers "Cressy" and "Aboukir," 440′ × 69′ 7″ × 39′ 3″, displacement 12,000 tons, 21,000 I.H.P., 1900; Paddle Steamer "Empress Queen," built to order of the Isle of Man Steam Packet Co., Ltd., Douglas, speed 22 knots, 1897; H.M. Torpedo-Boat Destroyer "Gipsy," speed 31 knots, and on similar lines the "Fairy," "Osprey," "Leven," "Falcon," and "Ostrich"; H.M. First-class Cruiser "Good Hope," length 500′, displacement 14,100 tons, I.H.P. 30,000, built 1900-01; H.M. Second-class Cruisers "Hermes" and "Highflyer," length 350′, displacement 5,600 tons, I.H.P. 10,000, 1898 99; T.S.S. "Hardinge," Royal Indian Marine Service, 407′ × 50′ 9″ × 39′, speed 19 knots, 1900; T.S.S. "Kinfauns Castle," built to the order of Messrs. Donald Currie & Co. for the Cape Mail Service of the Union-Castle Mail Steamship Co., Ltd., 515′ × 59′ × 33′ 9″, sister ship to the "Kildonan Castle," used by the Government as a Transport between this country and South Africa, 1899; Auxiliary S.Y. "Lady Torfrida," built for Sir Wm. G. Pearce, Bart., 1890; T.S. "Omrah," Orient Steam Navigation Co., Ltd., London and Australia, 490′ × 56′ 6″ × 37′ 6″, 1898; T.S.S. "Regele Carol I.," built for the Roumanian State Railways for service between Bucharest, Constantinople, and Alexandria, 350′ × 42′ × 29′ 4″, speed 19 knots, 1898. Twin Screw Yacht "Giralda." 275′ × 35′ × 19′, speed 20½ knots, built for Colonel H.L.B. M'Calmont, M.P., 1894. Paddle Steamers "St. Tudno," 18½ knots, and St. Elvies," 18¾ knots, built for Liverpool and N. Wales S.S. Co's. service between Liverpool, Llandudno, and Menai Straits, 1891 and 1896. (See Advt., page 240.)

836 **Inglis, A. & J.**, Pointhouse Ship Yard, Glasgow.—Full Model S.S. "Dwarka," 275′ × 35′ × 19′, Moulded, Triple Expansion, built to order of British India Steam Navigation Co., Ltd. Model S.Y. "Safa-el-Bahr," 192′ × 27′ × 17′, Triple Expansion, built to order of H.H. The Khedive of Egypt. Full Model of the North British Steam Packet Co.'s Paddle Steamer "Waverley," 235′ × 26′ × 8½′, Moulded.

837 **Mackie & Thomson**, Govan Shipbuilding Yard, Govan, Glasgow.—Full Rigged Models of the S. Fleeter "Dover," S. Fish Carrier "City of Manchester." Half Models of Steamship Trawlers "J. Leyman," "Redwing," "Lynx," and "Pieter Faure"; S.S. "Highland Lassie"; Missionary Steamer "Dayspring," and T.S. Passenger Steamer "Golindrina II," and Sailing Ship "Olivebank."

838 **Burns, G. & J.**, 30 Jamaica Street, Glasgow.—Full Models of R.M. Paddle Steamers "Elk," "Stag," and "Lynx," built 1854. Full Models of S.S. "Heron" and "Ostrich," built 1860. Full Model of Screw R.M.S. "Hound," built 1893. Half Models S.S. "Spaniel" and "Pointer," built 1896, and R.M.S. "Magpie" and "Vulture," built 1898. (See Advt., page 327.)

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842 **Simons, William, & Co., Ltd.,** Engineers and Shipbuilders, Renfrew.—Full Models of Stern-well Dredgers "La Puissante," constructed for the Suez Canal Co.; dimensions 274′ × 47′ × 19′, hopper capacity 2,118 tons. "Percy Sanderson," built for the European Commission of the Danube; 227′ × 40′ × 17′ 2″, 1,250 tons. "St. Lawrence," for the British Admiralty, 180′ × 36′ × 15′ 6″, 650 tons; dredging depth 45′. Barge-loading Dredgers; "Lyster," for Mersey Docks and Harbour Board, 189′ 9″ × 35′ 6″ × 13′, dredging 45′, weight of each bucket 2 tons, each link 5 cwts. Bow-well Hopper Dredgers "William Price," for Karachi Port Trust, 236′ 0″ × 42′ 6″ × 16′, dredging 42′, 1,250 tons; "No. 10," for Russian Government, 192′ × 35′ 6″ × 14′ 10″, 700 tons, centrifugal pump for discharging dredged matter on shore for land reclamation. Sand-pump Hopper Dredgers "Walrus," for Government of Natal, 214′ × 36′ 6″ × 15′ 7½″, 3,000 tons per hour, dredging 32′, suction pipe 44″ dia., 1,200 tons; "Jupiter," for New South Wales, 165′ × 32′ × 11′ 6″, 600 tons, centrifugal sand pumps, 20″ suction pipes, dredging 35′. Working Model of Elevating Deck Steamer "Finnieston," for Clyde Trustees, 80′ × 43′ × 12′, draft amidships 9½′. Hopper Steamer for Clyde Trustees, "No. 21," 1250 tons. Elevating, Train, Deck Ferry Steamer.

843 **Shearer, John, & Sons,** Kelvinhaugh Slip Dock, Glasgow, and Elderslie, Renfrewshire.—Model of Shipbuilding Yard, Engineering Works, 500′ Graving Dock and 800′ Slip Way. (See Advt., page 241.)

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845 Palmers Shipbuilding and Iron Co., Ltd., Jarrow-upon-Tyne.—Full Models of First-Class Battleship H.M. "Russell," Second-Class Cruiser H.M. "Pique," 30-knot Torpedo-Boat Destroyer "Star," Twin S.S. "Belgia"; Half Models of "Socotra," "British Princess," "Manchester Port," and "Adria."

846 Dunlop, David J., & Co., Inch Works, Port-Glasgow. Models of S.S. "Chesapeake," for carriage of oil in bulk; 370′ × 47′ × 29′ 3″, 6,000 tons D.W.; S.S. "Ernst Woermann," and S.S. "Hans Woermann," for Woermann Line, West Coast of Africa Passenger and Cargo service, 340′ × 44′ × 29′ 6″, 5200 tons D.W.; T.S.S. "T. E. Fuller," Salvage and Towing Steamer for Table Bay Harbour Board, Cape Town, 135′ × 26′ × 14′, 1450 I.H.P., and T.S.S. "Von Podbielski" Cable Steamer for Germany, 255′ × 35′ × 23′ 6″, 1830 I.H.P.

847 The Pacific Steam Navigation Co., of Liverpool (Incorporated by Royal Charter, 1840), James Dunn & Sons, Agents, 107 St. Vincent Street, Glasgow.—Full Models of Paddle-Wheel Steamer "Peru," built 1839 to open the service on West Coast of South America; also Paddle Steamer "Pacific," 1866; and Twin-Screw Steamer "Colombia," 1899. Full Models R.M.S. "Oruba" and "Orotava," 1889, and Twin-Screw R.M.S. "Ortona," built 1899 for the Company for their Australian trade in conjunction with the Orient Line. Half Models of R.M.S. "Orellana" and "Orcana," 1893, and Twin Screw R.M.S. "Oravia," 1897, built for the Liverpool and Valparaiso Line.

848 Watson, G. L., & Co., 53 Bothwell Street, Glasgow. Full-rigged models of the following Yachts. (1) Cutter Yacht "Marjorie," 75 tons, built in 1883 for Mr. James Coats. (2) Schooner Yacht "Gleniffer," 496 tons, built in 1899 for Mr. James Coats. (3) Steam Yacht "Katoomba," 469 tons, built in 1898 for Mr. Kenneth M. Clark, and (4) a Steam Yacht.

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850 Union-Castle Mail Steamship Co., Ltd., Donald Currie & Co., Managers, 3 Fenchurch Street, London, E.C., 137 West George Street, Glasgow, etc.—Full Models of R.M.S. "Saxon" (12,385 tons) and "Kinfauns Castle" (9,664 tons). Full-sized Model of a First-class State Room. Photographs of the Union-Castle Fleet and Scenes of Interest in South Africa.

851 Henderson, David & Wm., & Co., Ltd., Partick, Glasgow.—Models of Steamships "Belgravia," "Adelaide," "Oopack," "Thistle," "Shinano Maru," "Raeburn," and Stern-wheel Steamer. (See Advt., page 239.)

852 Caird & Co., Ltd., Engineers and Shipbuilders, Greenock.—Full Rigged Models of the P. & O. Mail Steamer "Persia," 8,000 tons, and of the Steamers "Isis" and "Osiris," specially built to carry the Mails between Brindisi and Port Said, at a speed of 21 knots. Half Models of the P.O. Transport "Assaye" and of the West India and Pacific Steamship Co.'s Steamer "Colombian."

853 Barclay, Curle & Co., Ltd., Whiteinch, Glasgow.—Full Models (¼ scale) of S.S. "Braemar Castle," built for the Union-Castle Steamship Co., Ltd., and T.S.S. "Sicilia," built for Peninsular and Oriental Steam Navigation Co.

854 Anchor Line (Henderson Bros.) Ltd., 47 Union Street, Glasgow.—Model of a Second Class State Room. Full-sized Models of Steam-Ships "Furnessia," "Perugia," "Algeria," "Arabia," "Assyria," and "Scindia," and new Atlantic Liner "Columbia." (See Advt., page 329.)

855 Cunard Steamship Co., Ltd., 8 Water Street, Liverpool.—Full Models of the Wood Paddle Steamer "Britannia," built 1840, 207′ × 34′ 4″ × 24′ 4″, 1,154 tons, 740 I.H.P., 8½ knots; Iron Paddle Steamer "Persia," 1855, 376′ × 45′ 3″ × 31′ 6″, 3,300 tons, 4,000 I.H.P., 13·8 knots; S.T.S. "Saxonia," 1900, 600′ × 64′ × 41′ 6″, 13,963 tons, 10,000 I.H.P. 15·25 knots; S.T.S. "Campania," 1893, 625′ × 65′ 3″ × 41′ 6″, 12,950 tons, 30,000 I.H.P., 22·0 knots.

856 Alexander, Wm., & Co., Helen Street, Govan, Glasgow. Telegrams: "Block-maker, Glasgow," on Admiralty List.—Ships' Blocks and Steering Wheels.

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861 **Royal National Life-Boat Institution,** 116 St. Vincent Street, Glasgow.—Model of Steam Life-Boat "City of Glasgow," raised by Funds collected during the first Life-Boat Saturday held in Glasgow.

862 **Reid, John, & Co., Ltd.,** Shipbuilders, Glasgow.—s.s. "Tucapel," "Limari," "Fashoda," "Nyassa," and a Steamer building for the Australasian United Steam Navigation Co., Limited, of London. H.M. Fishery Cruiser, "Brenda," Bow: T.S.S. "Tracker," P.S. "Caledonia," "Marchioness of Bute," "Marchioness of Breadalbane." Sailing Vessels, "British Isles," "Loch Nevis," "Indian Empire." Schooners, "Rimac," "Tacora," S.S.Y. "Rionnag-na-Mara," "Zaza," "Cala-Mara," "Mallard," and "Volga."

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870 **Thomson, M. C., & Co.**, 25 Hope Street, and 98 and 100 Holm Street, Glasgow. —Manufacturers of Sailcloth, all Classes of Flax, Cotton, and Yacht Canvas. Hemp Merchants, etc. (See Advt., page 374.)

871 **Webster, Francis, & Sons**, Arbroath, Glasgow, and London.—Sailcloth, Yacht and Tent Ducks, Tarpaulins, Wagon Covers, Seaming and Roping Twines in Flax, Hemp, and Cotton. Waterproofing of all kinds. The "Standard" Sail Cloth.

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Aspinall's Patent Governor Co., Ltd., 7 Strand Street, Liverpool. See No. 500.
Avery, W. & T., Ltd., Birmingham and Glasgow. See No. 415.
Boothman's Patent Filter Syndicate, Ltd., 105 West George Street, Glasgow. See No. 376.
Boyle, Robert, & Son, Ltd., 110 Bothwell Street. See No. 550.
Campbell, Thos. B., & Sons, 29 Wellington Street, Glasgow. See No. 85.
Carron Company, Carron, Stirlingshire. See Nos. 611 and 909.
Clarke, Chapman & Co., Ltd., Victoria Works, Gateshead. See No. 567.
Clyde Rubber Works Company, Ltd., Clyde Street, Port Dundas, Glasgow. See No. 259.
Cochrane & Fleming, Britannia Pottery, Glasgow. See No. 212.
Colville, David, & Sons, Ltd., Dalzell Steel and Iron Works, Motherwell. See No. 517.
Cooke, Wm., & Co., Ltd., Tinsley Steel, Iron, and Wire Rope Works, Sheffield. See No. 489.
Crossley Bros., Ltd., "Otto" Gas Engine Works, Openshaw, Manchester. See No. 428.
Darlington Forge Company, Ltd., Darlington. See No. 490 and 1058.
Delta Metal Company, Ltd., 110 Cannon Street, London, E.C. See No. 498.
Edelsten, John, & Sons, Warrington. See No. 367.
Eglinton Chrome Tanning Company, Ltd., 8 Firhill Road, Glasgow. See No. 263.
Gibb, John, & Son, 72-76 Duke Street, Liverpool. See No. 600.
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Glenfield & Kennedy, Ltd., Kilmarnock. See No. 431.
Govan Ropework Company, Ltd., Helen Street, Govan. See No. 8.
Hardtmuth, T. & C., 12 Golden Lane, London, E.C. See No. 101.
Harris Patent Feed Water Filter, Ltd. See No. 546.
Hendry, James, 252 Main Street, Bridgeton. See No. 400.
Ingersoll Sergeant Drill Company, 114 Queen Victoria Street, London, E.C. See Nos. 532 and 1043.
Kelvin & James White, Ltd., 18 Cambridge Street, Glasgow. See No. 927.
Kincaid, John G., & Co., Clyde Foundry, Greenock. See No. 544.
Leadbeater & Scott, St. Mary's Works, Sheffield. See No. 467.
Mackenzie & Co., 17 Douglas Street, Glasgow. See No. 929.
MacDonald, John, & Sons, 9 York Street, Glasgow. See No. 465.
M'Geoch, Wm., & Co., 108 Argyle Street, Glasgow. See No. 404.
M'Neill, F., & Co., Lamb's Passage, Bunhill Row, London. See No. 278.
Martin, W. C., & Co., 10 West Campbell Street, Glasgow. See No. 548.
Mitchell, Andrew, & Co., Ltd., 12 Prince's Square, Glasgow. See No. 266.
Muntz Metal Company., Ltd., French Walls, near Birmingham. See No. 530.
Reid, M'Farlane & Co , Ltd., 58-60 Hydepark Street, Glasgow. See No. 387.
Russell, Joseph Wm., & Co., 50 Charles Street, St. Rollox, Glasgow. See No. 487.
Seamless Steel Boat Co., Ltd., Caldervale Road, Wakefield. See No. 1036.
Seebohm & Dieckstahl, Ltd., Dannemora Steel Works, Sheffield. See No. 552.
Sherard, Cowper, Coles, & Co., Ltd., Grosvenor Mansions, Victoria Street, Westminster, London, S.W. See No. 471.
Skoda Works Pilsen, Ltd., Pilsen, Bohemia. See No. 1059.
Stern Bros., 57 Gracechurch Street, London, E.C. See No. 182.
United Flexible Metallic Tubing Company, Ltd., 52 St. Enoch Square, Glasgow. See No. 481.
United States Metallic Packing Company, Ltd., Soho Works, Thornton Road, Bradford. See No. 547.
Wallach Bros., 57 Gracechurch Street, London. See No. 385.
Welsh, Arch., & Co., Carrick Brass Works. See No. 499.
Weir, G. & J., Ltd., Cathcart, Glasgow. See No. 396.
Young's Paraffin Light and Mineral Oil Compay, Ltd., 7 West George Street, Glasgow. See No. 190.

NEW ELECTRIC PASSENGER ELEVATOR.



Mrs. A. D. PHILP,
Proprietress.

PHILP'S COCKBURN HOTEL,

141 BATH STREET, GLASGOW.

ENLARGED, Redecorated, Refurnished. New Electric Elevator. Electric Light in every Room. Quiet; convenient to Steamboats and Stations and within 5 minutes by Electric Tramcar of Exhibition Grounds. **Note.**—Special Terms to Excursion Parties from Friday to Monday, during Exhibition; Boarding Terms to Exhibitors before and after the Exhibition. From 1st Nov., Suite of Public Rooms, 40 Bedrooms, and Stockrooms, with use of Rapid Electric Passenger and Luggage Lift, for Commercial Gentlemen, at most Moderate Rates.

Extensive Accommodation for Marriages, Balls, and Dinners.

Under same Management— **COCKBURN HOTELS:**

BEXHILL-ON-SEA. Sea Front. Facing Bandstand. Between St. Leonards and Eastbourne

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BRIGHTON. Wentworth House, 37 Marine Parade.

CLASS VI.

LIGHTING AND HEATING.

891 Bowie, W. & J., Clyde Dye Works, Strathclyde Street, Bridgeton.—The "Bowie" Patent Carpet-Beating and Renovating Machines. (See Advt., page 219.)

892 Clark, S., & Co, Syphon Works, Park Street, Islington, London, N.—Gas and Oil Heating Stoves, for use without a flue. (See Advt. below.)

893 Alder & Mackay, Edinburgh, Bradford, and London.—Penny-in-Slot Gas Meters, Gas Pressure Gauges, etc. Meters shewn in action. (See Advt., page 340.)

894 Maclaurin, Robert, 39 Caldercuilt Road, Maryhill, Glasgow.—New Apparatus for Heating, and for Heating and Lighting Combined, suitable for Gas and Oil.

895 Robertson, Thomas, & Co., 132 Bothwell Street, Glasgow.—Patent Water Heaters shewn in operation, Baths, Basins, and Sanitary Earthenware, Fittings, etc.

896 M'Dowall, Steven & Co., Ltd., Milton Iron Works, Glasgow.—Close-Fire and Combined-Open and Close and Slow-Combustion Ranges; Grilling Stoves, Steam and Gas Cooking Apparatus, and General Kitchen Appliances, etc. Tiled Register Grates and Interiors, Mantel Registers, etc. (See Advt., page 266.)

897 The Richmond Gas Stove and Meter Company., Ltd., Academy Street, Warrington; and London.—Gas Apparatus for Cooking, Heating, and Lighting. Also as Meters—Ordinary and prepayment. Toasting and Baking of Bread and Scones shewn in operation.

899 Wilsons & Mathiesons, Leeds and London.—The "Wilson" Patent Gas Fires, Gas Cookers, Gas Water-Boilers, Gas Irons, etc., etc.

900 M'Farlane, J. & A., Albert Works, Springbank Street, Glasgow.—Laundry Appliances, Mangles, Wringers, Washing Machines, Stoves, etc. Dairy Appliances. Churns, Milk Barrels, Vats, Tubs, Pails, etc. Household Appliances. Knife Cleaners, Meat Safes, Coopery and Wood Turnery. Specialities for the Kitchen and Bath Room.



CLARK'S PATENT HYGIENIC

"SYPHON" STOVES

(GAS OR OIL).

NO FLUE REQUIRED. NO SMOKE. NO SMELL.

NO DIRT OR TROUBLE. NO DANGER.

The "Syphon" Stove gives a pure, equable, and agreeable heat, which can be graduated or sustained at the will of the user. A moist or dry atmosphere may be obtained at pleasure.

The best Stoves for use in Entrance Halls, Bedrooms, Conservatories, Offices, Sick Rooms, Nurseries, etc.



Supplied to Her late Majesty The Queen. H.I.M. The King.

Stand No. 892. Lighting and Heating Section.

CLARK & CO., *"Syphon" Works, Park Street, ISLINGTON, LONDON, N.*

901 American Wringer Co., Ltd., 126 Southwark Street, London, S.E ; 13 St. Vincent Place, Glasgow.—Clothes Wringers for Laundry and Domestic use. American Round Washing Machines, Mangles, and Knife Machines.

902 The John Gray Prize Dairy Works, 67 George Street, Stranraer.—Cheese and Butter Making and Cream Separating Plant. Model and General Dairy Ware and Plant.

903 Acme Manufacturing Co., Ltd., Engineers and Machine Makers, Shettleston. Office and Show room, 153 Queen Street, Glasgow.—Acme Wringers, Mangles, Knife Cleaners, and General Domestic Machines.

904 Glover, Thos., & Co., Ltd., 69-71 M'Alpine Street, Glasgow, and Clerkenwell, London, E.C.—Dry Gas Meters, Prepayment Gas Meters for any Coin. Gas Pressure Gauges, Service Cleansers, etc.

905 Main, R. & A., Ltd., Glasgow, London, and Falkirk.—Gas and Steam Cooking, Gas Heating Apparatus, Coal Ranges, Laundry, Laboratory, and Domestic Gas Appliances, Fire Extinguishing Appliances. (See Advt., page 340.)

906 Taylor & Miller, 57-61 Oswald Street, Glasgow, and **Fletcher, Russell & Co.**, Palatine Works, Warrington—Kitchen Range, Mantel Pieces, Interiors, Tiles, Fenders, Brasses, Ironmongery, etc. (See Advt., page 293.)

907 Dobbie, Forbes & Co., Larbert, Stirlingshire.—Stoves, Ranges, Cooking and Heating Appliances. Garden Rollers, Vases, and Seats. Gates and Railings. Farmers' and Laundry Boilers. General Castings. (See Advt., page 11.)

908 Smith & Wellstood, Ltd., Bonnybridge, Stirlingshire.—American Cooking and Heating Stoves ; Kitchen, Yacht, and Ships' Galley Ranges ; Portable Boilers, Mantel Registers, Interiors, Tiled Grates, Baths, and general Ironfoundry Goods.

909 Carron Co., Carron Works, Stirlingshire.—An Exhibition showing a few Specimens of Goods manufactured entirely at Carron Works, including Stoves, Ranges for Coal, Steam, and Gas, Stable Fittings, Baths, etc., also Samples of the materials from which Carron Company's brands of Pig-irons are made, etc. (See Advt., page 12.)

910 Welsbach Incandescent Company, Ltd., London.—Gas-lighting Mantles, etc.

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Bon Accord Acetylene Gas, 283 King Street, Aberdeen. (See No. 1055.)

Bryden & Middleton, Merlin Iron Works, Whiteinch. See No. 370.

Campbell, Thos. B., & Sons, 29 Wellington Street, Glasgow. See No. 85.

BY ROYAL LETTERS PATENT, No. 814.

To Master Builders, Contractors, and all engaged in Stone and Marble Cutting.

J. G. Faulds' Improved Multiplex Stone Cutter.



Price List Free on Application to the Sole Inventors, Patentees, and Manufacturers—

J. G. FAULDS & CO., 48 NORTH FREDERICK STREET, GLASGOW, N.B.

Clarke, Chapman & Co., Ltd., Victoria Works, Gateshead. See No. 567.

Clyde Rubber Works Company, Ltd., Clyde Street, Port Dundas, Glasgow. See No. 259.

Crossley Bros., Ltd., "Otto" Gas Engine Works, Openshaw, Manchester. See No. 428.

Dunlop, Colin, & Co., 62 Buchanan Street, Glasgow. See No. 6.

Edelsten, John, & Co., Warrington. See No. 367.

Harvie, Wm., & Co., Ltd., 222 Broomielaw, Glasgow. See No. 867.

Home and Colonial Acetylene Gas Co., Ltd., Glasgow. (See Complimentary List.)

Keith, James, & Blackman Co., Ltd., 27 Farringdon Avenue, London, E.C. See No. 597.

Manchester Acetylene Gas Co., Ltd., St. Simon Street, Salford, Manchester. (See No. 1056.)

Martin, W. C., & Co., 10 West Campbell Street, Glasgow. See No. 548.

Mavor & Coulson, 47 King Street, Mile-End, Glasgow. See No. 560.

M'Geoch, Wm., & Co., Ltd., 108 Argyle Street, Glasgow. See No. 404.

Muntz Metal Company, Ltd., French Walls, near Birmingham. See No. 530.

Osler, F. & C., Broad Street, Birmingham, and London. See No. 205.

Patent Paraffin Gas Lighting Co., Ltd, 40 Houldsworth Street, Glasgow. (See No. 1053.)

Pintach's Patent Lighting Co., 38 Leadenhall Street, London, E.C. (See No. 1031.)

Price's Patent Candle Company, Ltd., Belmont Works, Battersea, London. See No. 189.

Reid, M'Farlane & Co., Ltd., 50-60 Hydepark Street, Glasgow. See No. 387.

Stern Bros., 57 Gracechurch Street, London, E.C. See No. 182.

United Flexible Metallic Tubing Company. See No. 481.

Wallach Bros., 57 Gracechurch Street, London, E.C. See No. 385.

Young's Paraffin Light and Mineral Oil Company, Ltd., 7 West George Street, Glasgow. See No. 190.

"A MEDICINE CHEST IN ITSELF."



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THE SAFEST and MOST RELIABLE REMEDY for SORE THROATS, CROUP, MUMPS, Etc. UNEQUALLED for the CURE of ABSCESSES, BOILS, ECZEMA, and all POISONED WOUNDS. INVALUABLE for all SKIN DISEASES.

Thousands of Testimonials received during half a century testify to the efficiency of this Invaluable Remedy. **SCROFULOUS CASES CURED WITHOUT THE USE OF THE KNIFE.** Heals without leaving a Scar.

Sold by all Chemists and Stores, 1/1½ and 2/9 per Box, or Post Free for Stamps from Sole Proprietors—

THE COLE'S SYNDICATE, CASTLE ST., READING.

N.B.—Beware of Worthless and Dangerous Imitations. INSIST on the GENUINE.

CLASS VII.

SCIENCE AND SCIENTIFIC INSTRUMENTS AND MUSIC.

GRAND AVENUE.

925 **Down Bros.**, 21 St. Thomas's Street, Borough, London, S.E.—Surgical Instruments and Aseptic Hospital Furniture, illustrating all the necessary fittings for an Aseptic Operation Theatre.

926 **Consolidated Telephone Construction and Manufacturing Co., Ltd.**, 38 Victoria Street, Westminster, London, S.W.—Telephonic, Telegraphic, and Electric Light Apparatus and Appliances. Telautograph and Electrical Apparatus.

927 **Kelvin & James White, Ltd.**, 18 Cambridge Street, Glasgow.—Lord Kelvin's Navigational, Electrical, and Submarine Telegraph Instruments. Optical and Surveying Instruments.

928 **Rae Bros.**, 134 St. Vincent Street, Glasgow, and at Paisley and Perth.—Photographic, Scientific, Mathematical Microscopical, Optical, and Electrical Instruments. Photographic and Lantern Apparatus and Appliances.

929 **Mackenzie & Co.**, 17 Douglas Street, Glasgow.—Ship Models and Model Fittings, Scientific Glass Blowing, Thermometers and Barometers; Photographic Apparatus. Mackenzie-Whishart Patent Daylight Slide. Makers of full models "Braemar Castle," "Loyalist," "Sicilia," etc., and of model fittings for "Arab," "Bavarian," "Belgia," "Hardinge," "Isis," "Monmouth," "Omrah," "Onapenta," "Persia," "Regele Carol I.," "Thistle," etc. (See Advt., page 358.)

930 **Brown, James**, Optician, 76 St. Vincent Street, Glasgow.—Optical, Mathematical, Meteorological, and Surveying Instruments. Phonographs and Mechanical Models. (See Advt., page 358.)

931 **Baird & Tatlock**, 40 Renfrew Street, Glasgow; 7 Teviot Place, Edinburgh.—Laboratory Furnishers, Scientific Instrument Makers, Apparatus for Chemistry, Electricity, Bacteriology and General Physics.

932 **Eastern Telegraph Co., Ltd.**, Winchester House, 50 Old Broad Street, London, E.C.—Submarine Telegraph Cable Apparatus, and Station.

933 **Cussons, George**, Technical Works, Broughton, Manchester.—Apparatus and Appliances for Instruction in Science, Art, and Technology; Laboratory Apparatus in Engineering and Physics; Descriptive Geometry, Machine Design and Building Construction. Steam Engine Models, etc.

Music Section, Stand 944, Grand Avenue.

BOOSEY & CO.,

Makers and Patentees of every description of Instruments used in Military, Brass, Bugle and Drum and Fife Bands.

MANUFACTORY, LONDON, W.

Exhibit Specialities for every department in Flutes, Piccolos, Clarionets, Oboes, Bassoons, Saxophones, Cors Anglais, Drums, Trumpets, Bugles, and Brass Band Instruments with Patent Compensating Pistons, Light Valves, and Clear Bores.

Prospectuses, Illustrated Catalogue, etc., may be had at the Stand, gratis, or will be sent Post Free by

BOOSEY & CO., 295 Regent Street, LONDON, W.

934 **Machell, Thomas, & Sons,** 45 Great Western Road, Glasgow.—Grand and Upright Pianofortes. Improved "Dulcitone," a portable Keyboard Instrument, the tones of which are Produced from Forks of Steel,

935 **Hilliard, W. B., & Sons,** Renfield Street, Glasgow.—Surgical Instruments and Appliances, Artificial Limbs, Ambulance Outfits, etc.

936 **Hudson, J. & Co.** 11 and 13 Barr Street, Birmingham.—Whistles for Tramways, Railways, Police, etc.; Whistles and Mouth-Pieces for use on board Ships, with Flexible Tube and Connections for same.

937 **Campbell & Co,** 116 Trongate, and 21 East Howard Street, Glasgow.—Orchestral and Military Instruments, including Clarionettes, Violins, Flutes, etc. Musical Instruments (Wind, Reed, and String), Guitars, Banjoes, etc. (See Advt., page 293.)

938 **Thomas Organ and Piano Co,** Woodstock, Ontario.—Organs and Piano Stools.

Eduard Sponnagel, Liegnitz, Upright and Grand Pianos.

C. Hölling & Spangenberg, Leitz, Upright Pianos.

(**Rönne & Co.,** Sole Agents, 24 and 26 Shudehill, Manchester.) (See Advt., page 352.)

939 **Murdoch, John G., & Co., Ltd.,** 101 Hope Street, Glasgow.—Phoneon, an Orchestral Organ which can be played from the Keyboard or Automatically from Music Rolls; Pianos, Organs, etc.

940 **Paterson, Sons, & Co.,** 152 Buchanan Street, Glasgow.—Horizontal and Upright Grand Pianofortes, Cottage and Yacht Pianofortes, American Organs, The Angelus, Phonoriums, and Musical Accessories. Besson & Co.'s Band Instruments of the "Prototype" and "Victory" Systems, Spring Socket Trombone and "Echo" Cornet. Patent Cornophones, etc. W. E. Hill & Sons' Violins, Violoncellos, Bows, etc. (See Advt., page, 9.)

941 **Marr Wood, J., & Co., Ltd.,** Piano Makers to H.M. The Queen and H.R.H. Prince of Wales, 42 Buchanan Street, Glasgow.—Grand and Upright Pianofortes. Dulsanell Pipe Organ, Æolian Orchestrelle, Pianola (Automatic Piano Player), Erard & Winkelmann Pianos, etc. Gregorian Organ. Manufacturers of Pianofortes and Musical Instruments. (See Advt., page 386.)

942 **Ewing & M'Intosh,** 331 Sauchiehall Street, Glasgow, Musicsellers to H.R.H. Prince of Wales.—Grand and Upright Pianos, the "Positive" Pipe-Organ, Casson's Patent, Reed Organs, Self-Players, Phonographs, etc.

943 **Briggs, James William,** 122 Sauchiehall Street, Glasgow.—Violins, Violas, and Violoncellos, Manufactured by the Exhibitor. Instruments in Different Stages of Manufacture.

944 **Boosey & Co.,** 295 Regent Street, London.—Band Instruments. (See Advt. below, also page 144.)

Music Section, Stand 944, Grand Avenue.

BOOSEY & CO.,

Military Band Instrument Makers and Music Publishers,

295 REGENT STREET, LONDON, W.

MANUFACTURERS of every description of Wood-Wind, Saxophones, Brass Band Instruments, Bagpipes, and Drums, as supplied to all the leading bands and players in Great Britain and the Colonies, Indian and Egyptian Army, etc., etc. Special Brass Instruments, with Patent Compensating Pistons, Improvements in Saxophones, Bassoons, Clarionets, etc.

SPECIFICATIONS and ESTIMATES for every kind of Military, Brass, Bugle, and Drum and Fife Band Instruments. Catalogues, with Copies of Testimonials, etc., Post Free on application to the firm, or may be secured at the Stand as above.

945 **Albion Albumenizing Co.**, 128 Sauchiehall Street, Glasgow; and **Verel, F. W., & Co.**, Cathcart, Glasgow.—Photographic Apparatus and Materials. Specimens of Work done on Verel & Co.'s Dry Plates and Papers.

946 **Mason, Geo., & Co.**, 120 to 124 Buchanan Street, Glasgow.—Chemical Photographic, Electrical, and Optical Apparatus and Appliances, Cameras, Microscopes, etc. (See Advt., page 358.)

GRAND AVENUE BRIDGE.

947 **Dick, James**, 107 West George Street, Glasgow.—Surgical Instruments, Artificial Limbs, Arms, and Hands. Rupture Trusses, Medical Batteries, Body Belts, Fine Cutlery, etc.

948 **Scotland, R. Grieve**, 209 Buchanan Street, Glasgow.—Artificial Legs, Feet, Arms, Hands, Eyes, Mutilation and Deformity Appliances, Rupture Trusses, Belts, Elastic Hosiery, Crutches, Splints, Steel Surgical Appliances, Poro Plastic Jackets, Hearing and Speaking Horns, Bandages, Plaster Casts, Photos, and Illustrated Advertisement.

949 **Lovibond, Joseph W.**, Lake House, Salisbury, Wilts.—The "Tintometer," a Philosophical Apparatus adapted to the following purposes: To measure Colour in Liquids and Solids in Dye Works; the Colour and Turbidity of Water; the Colour of Beer, Wine, Spirits, and Malt; and in all Sanitary and Analytical research; to determine the quantitative estimation of Carbon in Steel and Ammonia; to measure Colour in Mineral, Vegetable, and Animal Oils and Fats; to estimate the Baking Value of Flour; to teach the Laws of Colour in Schools; to demonstrate the Composition of White and Coloured Lights; to measure Colour Blindness and the difference in Colour Appreciation between the two Eyes. Also a new Hæmoglobinometer and Hæmocytometer.

SOUTH-EAST COURTS—INDUSTRIAL HALL.

950 **Thomson, William**, Beethoven House, 3, 4, 5, and 7 Govan Road, Glasgow.—American Organs by Story & Clark, E. P. Carpenter Company, Weaver Organ Company, Miller Organ Company, Lakeside Organ Company, Burdett Organ Company, H. W. Alleger & Co., and William Thomson. Pianos by the following makers:—Wagner, Ralph Allison & Sons, Monington & Weston, Beadle & Langbein, Landon & Steedman, Hulbert & Jones, H. Hicks & Son, Ltd., Burdett, etc.

AVENUE BRIDGE.

951 **Smith, John**, 28 Cockburn Street, Falkirk.—Stringed Instruments, including Violins, Violoncellos, etc.

952 **Biggar, Alex.**, 102 Sauchiehall Street, Glasgow.—Selection of Musical Instruments, including Violins, Guitars, Mandolins, Banjos, etc.

953 **Cyclostyle Company**, 79A Gracechurch Street, London, E.C., and 34 Snow Hill, London, E.C.—Automatic Cyclostyle Duplicating Machine and the Neo-Cyclostyle Duplicating Apparatus, shown in operation.

Largest Makers of Brass Band Instruments in the United Kingdom.

Manufacturers of every Description of BAND INSTRUMENTS.
HIGHEST AWARDS at all LEADING INTERNATIONAL EXHIBITIONS.

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The Most Successful Contesting Bands in the World use the BESSON "PROTOTYPE" Instruments.

954 **Smillie, Alexander,** 514 Victoria Road, Crosshill, Glasgow.—Case containing two Violins, a Viola, and a Violoncello, modelled after Stradivarius, and varnished with Whitelaw's "Cremona Varnish." Bows by A. Vigneron, Paris.

955 **Hawkes & Son,** Denman Street, Piccadilly Circus, London, W., manufacturers of Musical Instruments for Military, Brass, Orchestral, and Drum and Fife Bands.

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Avery, W. & T., Ltd., Birmingham and Glasgow. See No 415.

Blind Asylum (Royal Glasgow), 100 Castle Street, Glasgow. See No. 237.

Chambers, W. & R., 339 High Street, Edinburgh. See No. 97.

Crossley Bros., Ltd., "Otto" Gas Engine Works, Openshaw, Manchester. See No. 428.

Dobbie, Alex., & Son, Ltd., 42-45 Clyde Place, Glasgow. See No. 869.

Frowde, Henry, Oxon University Press, Amen Corner, London, E.C. See No. 110.

Glenfield & Kennedy, Kilmarnock. See No. 431.

M'Gregor, D., & Co., 37-40 Clyde Place, Glasgow. See No. 858.

Septic Tank Syndicate, Ltd., 7 and 8 Bedford Circus, Exeter. See No. 80.

Wallach Bros., 57 Gracechurch Street, London, E.C. See No. 385.

Dr. Bartlett, F.C.S., says: "Your Preparation is the best I have ever examined."

SCOTT'S MIDLOTHIAN OAT FLOUR

UNEQUALLED as a Perfect Article of Diet for Old and Young. Richer in Bone and Flesh-forming Properties than any other Food. Highly recommended and used by many Eminent Physicians.

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EDUCATION SECTION.

PRIMARY AND SECONDARY EDUCATION.

The Educational Department is in Second Floor of South Saloon in Art Galleries.

THE space allocated to Primary and Secondary Education, consists of the south portion of the central room in the Second Floor of the Art Galleries. It is well lighted, and is approached by wide staircases at the East and West ends.

The space is divided by partitions from floor to ceiling into eight alcoves nearly nine feet deep. Tables, two feet broad, extend round the three sides of each alcove. Additional table and wall space has also been secured by closing up the windows on the North side of two wings of the room. The total wall space is not more than 850 square feet, and the total table space does not exceed 500 square feet. The Educational Committee, however, believe that the arrangements they have made have enabled them to offer a fairly complete demonstration of what is going on in Scottish Schools.

The following is the arrangement adopted:—Entering from the West Staircase the visitor finds the series of alcoves on his right hand, each alcove receiving abundant light through the South windows.

Alcove No. I. contains Illustrations of the various kinds of work found in the Infant Departments of Schools. This compartment may be described as THE KINDERGARTEN ALCOVE.

Alcove No. II. includes exhibits from the JUNIOR DIVISIONS of Primary Schools. In addition to specially prepared specimens of Drawing and Educational Hand-work, there will be found Albums containing typical examples of exercises in most of the subjects of instruction dealt with in First, Second, and Third years of the Junior Division of Scottish Schools. In compiling these Albums, the Committee collected from the classes of many Primary Schools, certain exercises of the ordinary class type; and the Albums are arranged to shew the work of consecutive years.

Alcove No. III. contains similar exhibits from the SENIOR DIVISIONS of Primary Schools.

The Exhibits of Alcoves Nos. IV. and V. illustrate the curriculum of "Higher Departments," "Higher Grade Schools," "Schools of Science," and SECONDARY SCHOOLS generally. Most of the Schools here represented show Albums of class and examination work.

Alcove No. VI. contains certain additional exhibits, mainly English, relative to Secondary Education. There are also exhibits from St. George's Training College, Edinburgh; the Glasgow Training Colleges, the University of Grenoble, and the Universities of Edinburgh and Glasgow.

NOTE.—The table and wall spaces opposite Alcoves No. I. and No. VIII. are occupied with part of this exhibit.

ALEXANDER DUNCAN,

Diamond Merchant, Watch Manufacturer, Jeweller, and Silversmith,

One Stair up. **75 BUCHANAN STREET,** ***One Stair up.***

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PATRONISED BY THE GROSVENOR RESTAURANT AND EXHIBITION RESTAURANTS FOR THEIR TABLE APPOINTMENTS.

Alcove No. VII. is occupied by an exhibit from the London School Board, illustrating the whole range of work from the Kindergarten to the Higher Grade School.

Alcove No. VIII. has exhibits of Educational work from the Blind Asylums of Glasgow and Edinburgh, and also from the Deaf and Dumb Institution, Langside, Glasgow; The Fitzroy Square Institution, and the Norwood College for the Blind, London.

LISTS OF SCHOOLS AND INSTITUTIONS

CONTRIBUTING EXHIBITS.

PRIMARY EDUCATION, INCLUDING KINDERGARTEN.

Albums of work, Specimens of "Hand and Eye" training, Drawing, Writing, and Time Tables, Photos, etc., from the School Boards of Glasgow, Edinburgh, Govan, Leith, Perth, Stirling, Paisley, Coatbridge, Kirkcaldy, and also from some Schools not contributing directly through their Boards.

SECONDARY EDUCATION.

Time Tables, Photos., Drawings, Manual Work, etc., and specially prepared Albums, illustrating the courses followed in the different schools, from the Higher Departments and Higher Grade Schools and High Schools under the School Boards mentioned above, and also from such Secondary Schools as Kelvinside Academy, Glasgow Academy, Hutchesons' Grammar Schools, Dollar Institution, Fettes College, St. Mungo's Academy, St. Aloysius College, The Merchant Company's Schools, St. George's High School, Edinburgh, Nicolson Institute, Stornoway, Ayr Academy, Falkirk High School, and the Ewart High School, Newton Stewart.

The nature of the Secondary Education provided in "Schools of Science" will be shown by exhibits from George Heriot's School, Edinburgh; People's Palace, London; Sharpe's Institution, Perth; and Allan Glen's School, Glasgow.

ENGLISH EXHIBITS.

From London School Board—A general exhibit of School Work.

From Manchester School Board—Diagrams illustrating the correlation of Education relative to Free Meals and Destitute Children; Portfolios of Hand-Writing; Portfolios of Elementary Designs by Higher Grade Students.

From Leeds School Board—Album of Photographs (School Life), Portfolio of Drawing and Hand-and-Eye Courses, Note-books in Science (Higher Grade Schools), Free-arm Drawing (Infants), Prospectus of Evening Continuation Schools.

From Great Grimsby School Board—Case (3′ 6″ × 2′) illustrating Metal Work Course.

From Leicester School Board—Scheme of Drawing.

From Birmingham School Board—Specimens of Wire-work, etc.

From Port Sunlight Schools—Selected Exhibits with sundry Photos.

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COMPLETE OUTFITS FOR HOME OR ABROAD.
,, NAVAL AND YACHTING OUTFITS.

82 TO 96 JAMAICA STREET, GLASGOW.

TECHNICAL EDUCATION.

No. 1.—This Exhibit is placed in the South Saloon, on the Second Floor of the Art Galleries. The space allotted has been divided into three large bays, one of which provides for the Exhibit from the Glasgow and West of Scotland Technical College. The second contains the London Exhibit, organised by Principal C. T. Millis of the Borough Polytechnic Institute. The third is occupied by the Exhibits from the Heriot-Watt College, Edinburgh; the Durham College of Science, Newcastle-upon-Tyne, and other Institutions.

No. 2.—**The Glasgow and West of Scotland Technical College.**—Exhibits illustrating the work of the College in the Departments of Natural Philosophy; Chemistry; Botany; Civil, Mechanical, Electrical, Mining, and Chemical Engineering; Naval Architecture; Metallurgy; Architecture and Building Construction; Sanitation and Plumbing; Industrial Arts; Sheet Metal Work; etc., etc. Medallion of Professor John Anderson, founder of Anderson's College (1796), which Institution now forms part of the Glasgow and West of Scotland Technical College. Charts showing the numbers and ages of students, and the districts from which they are drawn. Calendars, Prospectuses, etc.

No. 3.—**West of Scotland Agricultural College.**—Calendars, Reports, and Plans.

No. 4.—**The Incorporated Weaving, Dyeing, and Printing College of Glasgow.**—Illustrations of the methods of teaching in the Designing, Weaving, and Dyeing Departments; Specimens of the work of students; Diploma of the College woven in silk.

No. 5.—**The School Board of Glasgow.**—Drawings and Specimens of Work in Building and Machine Construction.

No. 6.—**The Heriot-Watt College, Edinburgh.**—Photographs of the College, internally and externally; Diagrams of Experimental Engine and Engine Tests; Electrical Appliances, etc.; Architectural Drawing; various Electrical and Magnetic Instruments; Laboratory Instruction Forms, etc.

No. 7.—**The Scottish Industrial Art Association,** 18 Morningside Park, Edinburgh.—Poker and Repoussee Work, Unique Wood Work, Carving, Bookbinding, Artistic example of Marquetry, Lantern Slides, etc.

No. 8.—**The Durham College of Science, Newcastle-upon-Tyne.**—Photograph of the College Buildings. Specimens, Photographs, Reports, etc., illustrating the work of the Departments of Physics, Chemistry, Agriculture, Botany, Engineering, and Mining.

No. 9.—**Municipal Technical School, Manchester.**—Drawings and Plans of the New Buildings of the School; Diagram showing Organisation of Technical Education in Manchester.

HAY'S VICTORIA SPECIALITIES.

ESTABLISHED 1854.

Victoria Laundry Blue Powder.
Powder Inks (Five Colours).
Baking and Egg Powder.
Sanitary Powder. Insect Powder.

IN 1d. PACKETS AND TINS.

Health Salts.
Concentrated Powder Drinks.
Starch Glaze for Linen.
Marking Inks.

N.B.—We are the Pioneers of Perfectly Soluble Powder Blue for Laundry.

We beg to call attention particularly to THREE of our SPECIALITIES, namely:—

VICTORIA POWDER BLUE.

VICTORIA POWDER INKS.

VICTORIA CONCENTRATED POWDER DRINKS.

See our new Sanitary Speciality in Powder and Liquid, in 1d. packets and Quart Bottles.

WILLIAM HAY & CO., Manufacturing Chemists and Drysalters, **8 BRUNSWICK LANE, GLASGOW.**

[See Opposite Side

No. 10.—London Technical Exhibit.—This Exhibit is arranged by Mr. C. T. Millis, Principal of the Borough Polytechnic Institute. It is typical, as far as possible, of the Evening Technical Students' work done in London. Most of the Exhibit is from the Borough Polytechnic Institute and its Branch (Herold's Institute) at Bermondsey. Some of the subjects in which work is exhibited are peculiar to the Borough Polytechnic, as, for example, the subjects (Leather Tanning, Dyeing and Finishing) taught at its Herold's Institute Branch. The Principal of the Northampton Institute, Clerkenwell (Dr. R. M. Walmsley), sends work which is mainly special to that Institute. A few of the articles of Section 1 are not Evening Work, but are by boys of the Borough Polytechnic Technical Day School.

Sections—(1) Engineers' Work, (2) Metal Plate Work, (3) Plumbers' Work, (4) Carpentry, (5) Wheelwrights' Work, (6) Bookbinding, (7) Letter-press Printing, (8) Boot and Shoe Work, (9) Chemistry, (10) Oils and Fats, Soaps and Candles, (11) Painters' Oils, Colours, and Varnishes, (12) Bakery and Confectionery, (13) Leathers (work of Herold's Institute, Bermondsey), (14) Silversmiths' and other work (from Northampton Institute, Clerkenwell). The whole of the work exhibited is executed under the superintendence of teachers who are specialists in their subjects. The Teacher of Borough Polytechnic Institute Class of "Painters' Oils, Colours, and Varnishes," Mr. C. Harrison, is practically engaged in that business. The Teacher of the Class in "Oils and Fats, Soaps and Candles," Mr. J. Wilson, is a Chemist in Soap Works. Bakery and Confectionery, "National School," is a Special Department of Borough Polytechnic work. The School is supported by the National Association of Master Bakers and Confectioners, the London Master Bakers Protection Society, and the Scottish Association of Master Bakers, these bodies subscribing annually up to £500. The management is by the Governing Body of the Borough Polytechnic through an Advisory Committee appointed by the National Association. The Head of the School and Teacher in Confectionery is Mr. C. Norwak; the Teacher in Bakery is Mr. G. H. Vass. The work of Herold's Institute is under the direction of Dr. J. Gordon Parker and Mr. M. Chas. Lamb, F.C.S., who, besides being chemists, are practically trained in Leather-Tanning, Dyeing, and Finishing.

No. 11.—A Set of "Science Abstracts—Physics and Electrical Engineering," issued under the direction of the Institute of Electrical Engineers and the Physical Society, London.

No. 12.—The Goldsmiths' Company's Technical and Recreative Institute, London, S.E.—Revolving Case of Photographs illustrating the entire work of this large Polytechnic School.

HAY'S SPECIALITIES—(*Continued*).

THE FIRST.—Our Blue does not require a cloth like all other Blues, it being perfectly soluble. *There is no sediment;* does not flake or cloud the Fabric. Put up in **1d.** Packets, **1/-** Boxes and Tins.

THE NEXT.—Our Inks put up in **Five Colours—Black, Blue, Red, Green, and Violet.** They can be used for Rubber Stamping, Copying, Type-Writing, Shop Window Ticket-Writing, as well as ordinary Writing. Suitable for Home or Export. Put up in **1d.** Packets, **1/-** Boxes and Tins.

AND LAST, "not least," our NEWEST SPECIALITY, viz., **Concentrated Fruit Drinks in Powder.** Guaranteed to contain only **pure ingredients,** and is therefore harmless. Is effervescing, and non-effervescing. We are putting it on the Market in a suitable form, namely, in **4d.** Tins (Lever Lids), same way as our Health Salts; also in 1lb., 2lb., 4lb., 7lb., 14lb., and 28lb. Tins.

THIS FRUIT EXTRACT WILL BE FOUND CONVENIENT FOR MAKING A COOLING OR HOT BEVERAGE FOR SUMMER OR WINTER USE.

It is put up in a portable form, which obviates the necessity of bottle drinks and syrups, and for this reason can be carried about by **Tourists, Cyclists,** and **Pic-Nic Parties** with little trouble, as it takes up practically no space. This article is manufactured in several Flavours, viz., **Lemon, Kola, Pine-Apple, Strawberry, Raspberry, Orange,** and **Black Currant,** and from which, by the addition of Water, can be made a delicious Effervescing and Non-Effervescing Lemonade, etc., in a few minutes, with no expense or bother.

WILLIAM HAY & CO., Manufacturing Chemists and Drysalters, **8 BRUNSWICK LANE, GLASGOW.**
(Near Candleriggs.)

HOME AND EXPORT. **SAMPLES AND QUOTATIONS TO THE TRADE ON APPLICATION.**

CLASS VIII.

SPORTS AND SPORTING APPLIANCES.

MAIN AVENUE.

960 **Nobel's Explosives Co., Ltd.**, Nobel House, West George Street, Glasgow.—Dummy Models of Explosives for Blasting, Sub-Marine Mining, Military and Naval Purposes; Blasting Gelatine, Dynamite, etc.; Sporting Ballistite, Cordite, Detonators, Safety Fuse; Military and Naval Ammunition, Shells, Cartridges, Machine Guns, Q.-F. Guns. (See Advt., page 338.)

GRAND AVENUE.

961 **Robertson, William**, 27 Wellington Street, Glasgow.—Fishing Tackle, including Rods, Reels, Lines, Flies, Gut Casts, Baskets, Fly-Books, Baits, etc.

962 **Macleay, W. A., & Son**, 65 Church Street, and 1 Fraser Street, Inverness.—Two Scotch Stags (stuffed) in Deadly Combat; Stuffed Heads and Skins of Stags, Roes, Rams, and Goats; Fishing Tackle, etc.

963 **Ingram, Charles**, 18b Renfield Street, Glasgow.—Gun and Rifle Maker.
J. D. Dougall & Son, 23 Gordon Street, Glasgow.—Gun, Rifle, and Fishing-Tackle Makers.
The Sportsman Emporium, 99 St. Vincent Street, Glasgow.—Golf-Club and Ball Makers, Athletic and Gymnastic Outfitters. (See Advt., page 339.)

964 **Lancaster, Chas.**, Gun Maker to H.M. the Queen, the late H.R.H. Prince Consort, H.R.H. the Prince of Wales, H.I.M. the Emperor of Germany, H.R.H. Prince Christian, etc., 151 New Bond Street, London, W.—Breech-Loading Hammer Guns, Hammerless and Hammerless-Ejector Guns, "Single Trigger" B.L. Hammerless-Ejector Guns, Pigeon Shooting Guns, Adjustable "Try Gun," Single and Double Barrel, Large Bore, and Express Rifles; Rook and Rabbit Rifles (fitted with Charles Lancaster's Celebrated Non-Fouling Smooth Oval-Bore Rifling) for Smokeless Powders, and Nickel-Covered, Solid, and Expanding Bullets, for Deer Stalking and Big Game Shooting; Telescope Rifle Sights; Sir Charles Ross's Patent Straight-Pull Magazine Repeating, Military and Sporting Rifles in ·256, ·303, and ·370 bore; Mannlicher-Schönauer, Mauser, and Lee-Speed Magazine Repeating Rifles, and the Harris Rifle Magazines for Deerstalking; Mauser and Bergmann Magazine Automatic Repeating Pistols; Webley, Colt, and other Revolvers; Clay Pigeons and Traps. "The Art of Shooting," by Charles Lancaster. Gold Medal, also Special Silver Medal, International Exhibition, Paris, 1900, etc.

965 **Kynoch Ltd.**, Birmingham.—All kinds of Military Small-arm and Quick-firing Ammunition; Sporting Ammunition, Cordite, Lyddite, High Explosives, and Black and Smokeless Gunpowder.

ALEXANDER DUNCAN,

Diamond Merchant, Watch Manufacturer, Jeweller, and Silversmith,

One Stair up. **75 BUCHANAN STREET,** *One Stair up.*

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Established to Supply the Public Direct from the Manufacturers at Wholesale Prices for Cash.

Holds one of the largest and most comprehensive Stocks in the trade.
Visitors to Glasgow are respectfully invited to view our Stock.
Specialties in Wedding Presents, Presentations, etc., etc. **TELEPHONE 3850.**

PATRONISED BY THE GROSVENOR RESTAURANT AND EXHIBITION RESTAURANTS FOR THEIR TABLE APPOINTMENTS.

AVENUE BRIDGE.

966 **Horton, W.**, 98 Buchanan Street, Glasgow.—Sporting Guns, Rifles, and their Accessories; Fishing Rods and Tackle. (See Advt., page 6.)

967 **Eley Bros., Ltd.**, 254 Gray's Inn Road, London.—Sporting and Military Ammunition.

968 **Martin, Alexander**, 20 Exchange Square, Glasgow, and 128 Union Street, Aberdeen.—Guns, Rifles, Pistols, and Ammunition, Fishing Rods and Tackle. Fly-tying in operation.

969 **Buchanan, James**, 58-62 Dale Street, Tradeston, Glasgow.—Patterns of Fish-hooks of various shapes and sizes, as supplied to different countries; manufactured from Best Quality Cast and Spring Steel Wire. (See Advt., page 378.)

GRAND AVENUE.

970 **Burroughes & Watts, Ltd.**, 304 Sauchiehall Street, Glasgow, and Branches. Head Office: 19 Soho Square, London, W.—Billiard Tables, Cabinets, Cue Stands, Electrolier, etc.

971 **Nelmes, Henry, & Co.**, 121 to 123 Wellington Street, Glasgow.—Full-sized Billiard Table, Marking Boards, Ivory and Bonzoline Billiard Balls, Cues, Patent Gas Pendant, etc.

972 **Norval & Sons**, Billiard Table Makers, 85 Bothwell Street, Glasgow.—Full-sized Standard 12′ × 6′ Billiard Table, fitted with "Sanspareil" Low Pitch, Frost Proof, Solid-built India Rubber Cushions, Invisible Pocket Plates, Automatic Ball Returner, Combined Marking Board and Cabinet *en suite*, Incandescent Gas Pendant, the "Popular" combined Billiard and Dining Table. "Bonzoline" and Ivory Billiard Balls, Ivory Tusks, etc, and other Billiard Requisites. (See Advt., page 346.)

AVENUE BRIDGE.

973 **Nettleship & Co.**, Alnwick.—Fishing Rods and Tackle. Speciality—Cane-built, Steel Centre, and Green-heart Rods for Salmon, Trout, etc. Specimens of Rods in various stages of construction from the raw material to the finished article. Reels, Lines, Flies, Cut Casts, Fishing Baskets, etc. Patent Life-saving or Swimming Belt. Special Trout and Salmon Rods, etc.

The following Exhibitors in this Class have their exhibits described under the numbers indicated:—

Dunlop Pneumatic Tyre Company, 14 Regent Street, London. See No. 813.

Eglinton Chrome Tanning Company, Ltd., 8 Firhill Road, Glasgow. See No. 263.

Isidor Frankenberg, Greengate, Salford, Manchester. See No. 261 and 402.

MacNaughton, James, & Rankin, 110 Bath Street, Glasgow. See No. 808.

Preston Davies Tyre and Valve Company, Ltd., Broad Street, Bridgeton. See No. 803.

Wallach Bros., 57 Gracechurch Street, London. See No. 385.

THE CLYDESIDE TUBE Co., Ltd.,

Office: 53 Bothwell St., Glasgow.

Telegraphic Address—"CLYDESIDE, GLASGOW."

Wrought-Iron Tubes and Fittings, for Gas, Water, and Steam.

Iron and Steel Boiler Tubes.

Hot Water Tubes. Line Pipe. Casing Tubes.

Blast Furnace Tuyere Coils, and Coils of all Kinds.

PHOTOGRAPHIC SECTION.

980 **Smith, G. Comrie,** The Studio, Giffnock, near Glasgow.—Specimens of Photographic Portraiture and Miniature Painting on Ivory.

981 **Warneuke, H. M.,** 4 Blythswood Square, Glasgow.—Photographs, Portraits, and Miniatures.

982 **Lafayette Ltd.,** 15 Gordon Street, Glasgow.—Photographic Portraits.

983 **Turnbull & Sons,** 10 Jamaica Street, Glasgow.—Portraits, Machinery, Architecture, and Engineering Work. Photographed by various processes. Photographs of Locomotive Engines, etc.

984 **Langfier Ltd.,** 158 Sauchiehall Street, Glasgow, and 23A Old Bond Street, London, W.—Portraits.

985 **Monapenny, M.,** 243 Sauchiehall Street, Glasgow.—Photographs.

986 **Romney, George,** Albany Photo Studio, 534 Sauchiehall Street, Glasgow.—Photographic Portraiture.

987 **Stuart, John, Ltd.,** 120 Buchanan Street, Glasgow.—Photos.

988 **Brinkley, R., & Son,** Photographic Artists, The Regent Gallery, 141 Sauchiehall Street, Glasgow.—Photographic Portraiture. Specimens of Photographs Enlarged in Monochrome and in Colour.

989 **Elsmore, William,** Windsor Studio, 19 West Garden Street, New City Road, Glasgow.—Photographs.

990 **Elliott & Sons, Ltd.,** Barnet, Herts.—Framed Photographic Enlargements by the "Barnet" Photographic Plate and Paper System.

991 **Fergus, John,** Blackdales, Largs.—Photographs.

992 **Anderson, Willie,** The Studio, 364 Hamilton Place, Partick.—Portraiture and Studies. Scenes in Burmah.

ALEXANDER DUNCAN,

Diamond Merchant, Watch Manufacturer, Jeweller, and Silversmith,

One Stair up. **75 BUCHANAN STREET,** *One Stair up.*

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THE WOMEN'S SECTION.

1100 **The Scottish Home Industries Association, Ltd.**, 12 Woodstock Street, London, W.—Working Exhibit. Natives from Harris, Sutherland, and The Highlands, illustrating complete process of making Home-spuns.

1101 **Pintner, W. J.**, 122A George Street, Edinburgh.—Real Lace, Modern and Antique; Specialities in Crochet Work.

1102 **The Decoration Needlework Society**, 17 Sloane Street, London. Directors: The Countess of Leven, The Countess of Erne, The Lady Mary Leslie, The Hon. Mrs. Lyon, The Hon. Mrs. Lawrence, Miss Meinertz Nagen, Miss Elizabeth Gemmell, Sir Sydney H. Waterlow, Bart.—Exhibit of Embroideries executed by Ladies.

1103 **Dunlop, Hugh, & Sons**, 528 to 532 Sauchiehall Street, Charing Cross, Glasgow.—An Infant's Trimmed Cot and Basket, and other articles of Ladies' and Children's Outfitting.

1104 **M'Lachlan & Brown**, Murray Place, Stirling.—Hand-sewn Trousseaux and Layettes.

1105 **Crawford & MacGillivary, Misses**, Scottish School of Art Needlework, 180 Sauchiehall Street, Glasgow.—Glass Case containing specimens of Fine Silk and Ribbon Embroidery on White and Yellow Satin Cushions; specimens of Fine Silk Embroidery on Gauze Night-dress Sachet; and specimen of Fine Wool Embroidery on Art Linen Blotter and Casket.

1105a **Armenian Exhibit.**

1106 **Exhibit of C. Andreasen**, Peter Bangsvey, 42, Copenhagen.

1107 **Gilmour, Miss M.**, 179 West George Street, Glasgow.—Exhibit of Arts and Crafts.

1108 **Douglas, C. & J.**, 268 Sauchiehall Street, Glasgow.—Shawl and Wool Industry of Shetland, practically illustrated by natives; Fancy Goods and Embroidery.

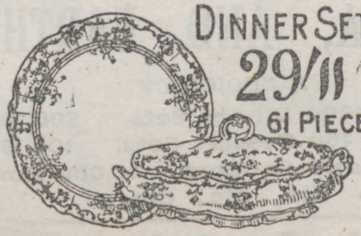
1109 **Pettigrew & Stephens**, 191 Sauchiehall Street, Glasgow.—The Manufacture of Duchesse, Brussels, and Point Laces, etc. (See Advt., page 5, and first page after Index.)

1110 **The Old Bleach Linen Company, Ltd.**, Randalstown, Ireland.—Exhibit of Prize-winning Specimens of Embroideries and Drawn Work; also Grass-bleached Towels, Linens, Diapers, and Huckabacks.

CAULFIELD & CO. FOR DINNER SET.

A PERFECT **Dinner Set** FOR **16/11.** 61 Pieces.

CAULFIELD'S ALL GILT DINNER SET. **29/11** 61 PIECES.



Rare Selection at 21/, 25/, 29/11, 35/, to 47/6, For 61 Pieces.

50/, 55/, 63/, 70/, 84/ Upwards For 78 Pieces.

CAULFIELD & CO., 21 JAMAICA STREET, GLASGOW, and Branches.

1111 **Tremlett, Washington,** 13 Rue Auber, Paris, and 41 Conduit Street, London, W.—Shirts, Cravats, Handkerchiefs, etc. Working exhibit. Gold Medal, Paris Exhibition, 1900.

1112 **The Scottish Co-operative Wholesale Society, Ltd.,** 95 Morrison Street, Glasgow, S.S.—Working Exhibit. One Automatic Sock Knitting Machine, Two Ready-made Clothing Machines, One Shirt-making Machine, One Underclothing Making Machine. (See Advt., page 369.)

1113 **Hood, Miss,** Photographic Exhibit Studios, 202 Hope Street, corner of Sauchiehall Street, Glasgow; and High Street, Johnstone, N.B.—Photographic Exhibit.

1114 **Schoor, Mrs. Muir, & Co.,** Esplanade, Lerwick.—Shetland Shawls, Hand-knitted, in Silk and Real Lace. Wrap Shawls in Natural Wools. Undyed Veils, Scarfs, Clouds, and Underclothing, etc.

1115 **EXHIBITS OF WORKING HANDICRAFTS—**

A. **Miss Clive Bagley.**—Tapestry Weaving.

B. **Mrs. Anstruther Mackay.**—Woodcarving.

C. **Glasgow School of Art.**—Bookbinding.

D. **Mrs. Greaves.**—Honiton Lace.

E. **Miss Firth.**—Basket Work.

1116 **Schoch, H., & Cie.,** St. Gallen, Switzerland.—Exhibit of Embroideries.

1117 **Irish Household Linen Company,** Ballymena, Antrim.—Hand Embroidered Tray Cloths, Pillow Shams, Bed Spreads, Afternoon Teacloths; Drawn Thread Work and Fancy Stitched Goods, Household Linens and Damasks; Shirts, Collars, and Cuffs; Handkerchiefs—Hemstitched, Scalloped, Embroidered, Revered, Diced, etc.; Hand-embroidered Crests, Monograms, Initials, etc., suitable for Handkerchiefs, Sheets, Table Linen, etc.

1118 **Society of Artists,** 53 New Bond Street, London, W.—Nursery Furniture, Decoration, and Fittings.

Caulfield's for Variety

IN

GLASS, CHINA, AND EARTHENWARE.

A CHOICE OF

4000 Tea Sets. 1000 Dinner Sets. 500 Toilet Sets.
500 Trinket Sets. 160 Dessert Sets. 100 Breakfast Sets.
600 Doz. of Cups and Saucers. 10,000 Doz. Tumblers.
Etc., etc., etc.

Caulfield & Co., 21 Jamaica Street, Glasgow, and Branches.

1119 EDUCATION DIVISION.

Exhibit by the Frœbel Society.

Case I.—School Board of Glasgow.
Free Church Training College.
Evening Continuation Schools.

Case II.—Govan Parish School Board.
Edinburgh School Board.
Glasgow School of Domestic Economy.

Case III.—The Royal Hungarian State Schools.
Lycées et Colleges de Jeunes Filles.
Exhibit of Flowers, Fashion Plates, Sweets, Models by Miss Prince Brown, Victoria Street, London.
Exhibit from the Lycée Lamartine.
School Board of London.
Normal State Schools, United States.

Exhibits from the Horticultural College, Swanley, Kent.

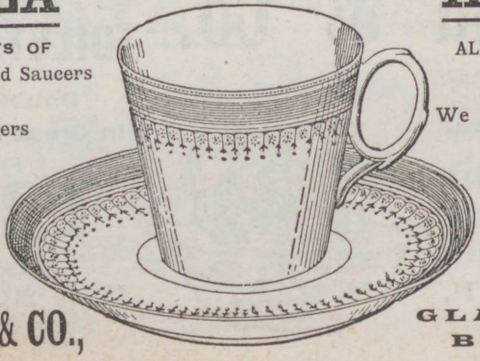
Case IV.—School Board of Leith.
Logan and Johnston School of Domestic Economy.
Craigie Public School.
Cherrybank Public School.
Perth Public School.
Kinnoull Public School.
Carbrook Street School, Paisley.

Exhibit by the Yorkshire Ladies' Council of Education.

Exhibit by the Girls' Public Day School Company.

GUINEA

No. 6 CONSISTS OF
6 Breakfast Cups and Saucers
6 Breakfast Plates
6 Tea Cups and Saucers
6 Tea Plates
2 B. and B. Plates
2 Butter Plates
1 Slop, 1 Cream Jug
12 Egg Cups



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ALL "VESTA" PATTERN.
IN ADDITION TO THESE
We make you a PRESENT of
A Black and Gold Teapot
Hot Water Jug and Teapot Stand

CAULFIELD & CO., GLASGOW, and BRANCHES.

PHILANTHROPIC DIVISION.

1120
1121 } Glasgow Houses of Shelter for Women.

1122 Queen Victoria's Jubilee Institute for Nurses (Scottish Branch).—Miss Guthrie Wright, 2 Lansdowne Crescent, Edinburgh.

1123 Exhibit from Royal Glasgow Asylum for the Blind.

1124 Royal Repository for the Sale of Gentlewomen's Work, 32 Frederick Street, Edinburgh.

1125 Exhibit of the British Women's Temperance Association, 1 Belmar Terrace, Pollokshields.

1126 Brabazon Society, Govan Branch, 9 Lorraine Gardens.

1127 Exhibit by the Glasgow Parish Branch of the Brabazon Employment Society, 38 Cochrane Street.

1128 Exhibit by Girls of the Deaf and Dumb Institution, Glasgow.—Addison.

1129 Exhibit from the Home of Industry for Indigent Females.—Brodie.

1130 Young Abstainers' League, Mrs. Simpson, 3 Hughenden Terrace, Kelvinside.

1131 LITERATURE AND MUSIC DIVISION.

Photographs and Autographs of Authoresses, living and deceased.

GLASS CASE A.—MSS. of Authoresses, living and deceased.

Prints and Photographs of Lady Musicians.

GLASS CASE B.—MSS. of Lady Composers.

1132 Watts, Mrs G. F.—Exhibit of Hand-modelled Terra Cotta Spandril, executed by amateur workers at Aldounie, Inverness-shire, "The Garment of Praise," Isaiah lxi. 3; two Sun dials; various Garden Vases.

1133 Exhibit of Russian Peasant Industries.

Caulfield & Co.

FOR

TOILET SETS.

Large Size. Single Set.

FROM

4/5½

ALSO AT

6/11, 7/11, 8/11, 9/11, to 15/6.



Double Sets in Great Profusion,

FROM

12/11

ALSO AT

16/11, 21/, 25/, 30/, 35/, 42/, etc.

1134 APPLIED ART DIVISION.

Loan Collection of Art Objects, Antique and Modern, of different countries, contributed by the following :—

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Mlle. DE BROMKERE
Miss PAXTON BROWN
Miss EDITH BELL
Madam BERTH
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Mrs. A. GASKIN
Miss MARGARET GILES
Miss GILBERT
Madam FRIDA HANSEN
THE ART UNION OF LONDON
Miss HELEN LANGLEY
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Miss MOLLER
Mrs. ALFRED MORRISON
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THE BAZERISCHER KUNSTGEWERBE
Miss CAYLEY ROBINSON
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The Honourable Mrs. PERCY WYNDHAM.
Miss UNA TAYLOR
Miss UNDERHILL
Miss VIRTUE
Miss VAN WART
The Countess of MAYO, for the Irish School of Needlework.
Miss E. R. CONSTABLE.

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CRYSTAL
FROM OUR OWN WORKS,
CANAL STREET, S.S., GLASGOW.

60 Pieces for 21/
12 Dinner Tumblers
12 Sherry Glasses
12 Claret Tumblers
6 Soda Tumblers
1 Decanter
1 Jug
2 Goblets to match



CAULFIELD'S GUINEA HAMPER
60 PIECES
21/-

60 Pieces for 21/
2 Carafes and Tops
2 Tall Jellies
2 Handled Jellies
All beautifully Etched
ALSO
2 Fine Cut Salts
2 Oval Moulded Dishes
2 Oval Plain Crystal Dishes

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PERCY NOBLE, Esq.
Mrs. OLIVERSEN
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Etc., Etc.

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Illustrated
PRICE LIST
enables
LADIES
to do their
SHOPPING
AT HOME.
Post free on Application.



CAULFIELD'S
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is
Illustrated with
COLOURS
exactly as in
THE SETS
REPRESENTED.

IN THE GROUNDS.

EAST GARDENS.

1000 **M'Dowall, Steven, & Co.**, Milton Iron Works, Glasgow.—Band Stand, similar to the Band Stands erected for the London County Council on Thames embankment, and at Battersea Park and Manchester Corporation. Electric Light Pillars for Arc Lamps similar to those supplied to Buxton, Exeter, Aberdeen, Motherwell, etc. (See Advt., page 266.)

1001 **Bon Accord Acetylene Gas Company**, 283 King Street, Aberdeen.—Gas Plant, Gas Brackets, and 220 Burners for Band Stand No. 2 and No. 7 Restaurant and Press Pavilion.

1002 **Spiers & Co.**, 125 West Regent Street, Glasgow.—Model Farm Steading buildings built of Composite Wood and Iron including Bungalow Living House, Cattle Sheds, Granary, Working Dairy, Mixing House, Gig House, Engine Room and Boiler House, Cow House, Calf Pens, Stables, Harness Room, Cart and Implement Sheds, etc. (See Advt. pages 64 and 65.)

1003 **Boyd, James, & Sons**, Paisley.—Conservatory constructed of Wood and Glass, erected against gable of Museum ; also Heating Apparatus.

1004 **Lewis & Co., Ltd.**, 3 Lothbury, London, E.C.—Grand Concert Organ in the Concert Hall with Triple Key-board, consisting of Choir, Great, and Swell Organ, having 48 speaking stops and 2889 pipes.

1005 **Veritys, Ltd.**, 40 Bath Street, Glasgow.—Two Lundell Motors, 3 H.P. each, for Organ in Concert Hall, with Speed-reduction Gear and Regulating Apparatus.

1006 **British Schuckert Electric Company, Ltd.**, Clun House, Surrey Street, Strand, London, W.C.—Searchlight Tower, having a Schuckert Searchlight with Glass Parabolic Mirror 5′ diameter, throwing a beam of light equal to 180 million normal candles, or 22 million ordinary incandescent lamps. (See Advt., page 298.)

1007 **IRISH PAVILION.** (For particulars, see page 169.)

1008 }
1009 }
1010 } **RUSSIAN BUILDINGS.** (For particulars, see page 192.)
1011 }

1012 **St. Mungo Poultry Co.**, 784 Gallowgate, Glasgow.—Poultry Farm.

SOUTH GARDENS.

1013 **Main, A. & J., & Co., Ltd.**, Clydesdale Iron Works, Possilpark, Glasgow.—Exhibitors' Club House.

1020 **Templeton, James, & Co.**, Glasgow.—Seamless Axminster Carpets, Brussels, Wilton, and Axminster Carpeting, Stair Carpets, Hearth and Corridor Rugs, Furniture Coverings, etc.

THE GLOBE COMPANY'S

GOLD MEDAL

MINERAL WATERS.

200 COMMERCIAL ROAD, GLASGOW.

AWARDED—PARIS, 1885.

Telegraphic Address—"Vitadone." **Telephone No. 4432.**

1021 **General Accident Assurance Company, Ltd.,** 100 West Regent Street, Glasgow. Chief Offices: Perth and London.—Collection of Fire Plates and Old Policies, Tracing the Development of Fire, Personal Accident, Fidelity, Burglary, Vehicle, Workmen's Compensation, Cycle and other Insurances.

1022 **Pollock, Alexander,** Daisy Bank, Tarbolton.—Rustic Pavilion, Furnished Rustic Summer and Tea Houses, Tables, Seats, Chairs, Flower Stands, Gates, Arches, Porches, The Royal Rustic Swing Cot, etc.

1023 **Main, A. & J., & Co., Ltd.,** Clydesdale Iron Works, Possilpark, Glasgow.—Railings round Park and Grass Plots.

1024 **Shand, Mason & Co.,** 75 Upper Ground Street, Blackfriars Road, London.—Fire Engines. (See Complimentary List.)

1025 **Red Cross Society,** Bath Street, Glasgow.—Red Cross Exhibit, including all the most approved forms of Huts and Tents, fully furnished and equipped for work in the field.

NORTH GARDENS.

1031 **Pintsch's Patent Lighting Company,** 38 Leadenhall Street, London.—Welded Gas and Automatic Bell Buoy, as used on the Clyde, Forth, Thames, and other rivers.

1032 **Peters, G. D., & Co.,** Moorgate Works, Moorfields, London, E.C. Branch Works: Dockley Road, Bermondsey, London, S.E. Affiliated Works: The Consolidated Engineering Company, Ltd., Slough, Bucks; Walton, F., & Co., Ltd., Sunbury-on-Thames; and The Patent Impermeable Millboard Company, Ltd., Sunbury-on-Thames. — Blinds, Spring Seats, Heating Apparatus, Lincrusta, Millboards, and all Materials and Furnishings in connection with the Fitting of Railway Carriages, Tram Cars, Steamships, etc. (See Advt., page 16.)

1033 **CANADIAN BUILDING.** (For particulars, see page 180.)

1034 **Barclay, Andrew, Sons & Co., Ltd.,** Caledonia Works, Kilmarnock.—Ventilating Fan for Collieries, Mines, and Tunnels.

1035 **Ince Forge Co., Ltd.,** Wigan.—Connecting Rod Forged and Machined in the Firm's Premises, weighing 15 tons. One of a Pair of Vertical Engines, 10,000 h.p., constructed by Messrs. Hick, Hargreaves & Co., Bolton.

1036 **Seamless Steel Boat Co., Ltd.,** Caldervale Road, Wakefield.—Galvanized Pressed Seamless Steel Life Boat.

1038 **The Machinery Trust, Ltd.,** 189 Fleet Street, London, E.C.

1. No. 1 "Miehle" Press, size of bed, 39″ × 53″, size of forme, 34″ × 49″, complete with printed side up delivery, guaranteed speed, 1900 sheets per hour. Specially adapted for half tone and three-colour work.
2. No. 2 "Century" Press, size of bed, 36″ × 48″, size of forme, 31″ × 44″, Guaranteed speed, 2400 sheets per hour. Specially adapted for jobbing work. Suitable for half-tone and three-colour work at very high speeds.
3. Alumographic Rotary Press, to take a sheet 33″ × 46″, capable of printing high-class Litho. work from Aluminium plates, at from 1400 to 1800 per hour.
4. Quad-crown Wharfedale Machine, by David Payne & Co., Ltd., of Otley, fitted with all the latest improvements.
5. Two Duplex Linotype Composing Machines, with all latest improvements. Fully equipped for newspaper and book work.

   The above Machines are each driven by one of The Machinery Trust's specially designed Electric Motor Outfits.

6. Two "Johnston" Die Presses, one type "A" taking any size copper or steel plate, or steel die, up to 3½″ × 6½″ (from 1 inch square). One type "B" taking any size Copper or Steel Plate or Steel Die up to 8½″ × 5″.

   Both the above Presses are designed and built specially for printing direct from Copper and Steel Plates; now used for transferring and lithographing Bank Notes, Cheques, Insets or Frontispieces for Book illustration and all high-class stationery, or from plates now printed by old hand process. Rapid change from either copper plate to steel plate or steel die. Speed, 1500 and 1300 impressions per hour respectively. Both Presses ink, wipe, and print automatically, by power.

   The above Machines are driven by an Electric Motor belted to Shafting.

7. One "Coe's" Patent Collotype Machine, to take a sheet 25″ × 20″. This machine is the first exhibited, and owing to its unique inking arrangements, has a much greater output than any other machine of its kind.

8. "Hepworth" Patent Ruling Machine, complete with square and round tables, with wavy action, for plain or intricate Ruling, fancy and poster borders for Litho. or other designs.

9. "Harris" Automatic Press, capable of printing Cards and Envelopes, etc., at 15,000 per hour, automatically fed, and ordinary commercial work fed by hand, at speeds exceeding those obtained on ordinary job presses by 1,000 sheets per hour on any kind of stock.

10. "Otley" Self-clamp 42″ Guillotine, by David Payne & Co., Ltd., of Otley.

The last four Machines are driven by one Electric Motor, driving on to a Line Shaft.

11. "Success" Automatic Proof Press, fed by web and self-inked. (See Advt., pages 303 to 310.)

1039 **Bullard Machine Tool Company**, Bridgeport, Conn., U.S.A.—Vertical Boring and Turning Mills and Vertical Turret Lathe. Machines shown in operation. Agents: Loewe, Ludw., & Co., Ltd., of London. Offices, Show Rooms, and Stores: 30 and 32 Farringdon Road, London, E.C. (H. F. L. Orcutt, Managing Director); Agents for Great Britain and the Colonies of Ludw. Loewe & Co., Berlin.—Small Tools and Gauges, Chucks, Parallel Vices, Arbors, Milling Cutters of all descriptions, Reamers, solid and adjustable, Boring Bars, Gauges, standard and limit, etc. (See Advt., pages 116, 117, and 290.)

1040 **British Westinghouse Electric and Manufacturing Co.**, Norfolk Street, Strand, London, W.C.—One 500 H.P. Steam Engine, with Electric Generator. One 125 H.P. Gas Engine, with Electric Generator. Electric Tram Car with Motors and Equipment as supplied to the Glasgow Corporation. Sundry Motors, both direct and polyphase types, and other Electric Appliances.

1041 **Selig, Sonnenthal & Co.**, 85 Queen Victoria Street, and Lambeth Hill, London, E.C.—Machine Tools and Appliances, specially suitable for Shipbuilding, Railway, Electrical, Motor Car, and General Engineering Shops, etc. (See Advt. page 101.)

1042 **Lever Bros., Ltd.**, Port Sunlight, Cheshire.—Port Sunlight Cottages, showing in Upper Rooms a large Model of the Port Sunlight Village and Works, including Buildings, Roads, Railways, etc., etc.

1043 **The Ingersoll Sergeant Drill Co.**, 114a Queen Victoria Street, London, E.C.—Three Rock Drills working on Granite. (See Advt., page 108.)

1044 **Cousland, Alexander, & Son**, 3 Mitchell Street, Glasgow.—Ornamental Wire Work, Rosary and Arbour. (See Advt., page 347.)

1045 **MacLellan, P. & W., Ltd.**, Clutha Works, Glasgow.—Steel Framed Goods Waggons, Fireproof Flooring, Samples of Couplings, Forgings, Steel Sections, etc. (See Advt., page 227.)

1046 **Thornycroft, John J., & Co.**, London and **Hawthorn, R. & W., Leslie & Co.**, Newcastle-on-Tyne.—Water Tube Boiler, Models of Ships, Electric Light Engines, Photographs, etc.

1047 **Notkin Syndicate, Ltd.**, 13 George Street, Edinburgh.—The Notkin System and Portable Apparatus for Generating Gas from Petroleum in its applications to street, table, pendant, lighthouse, ship, and other lamps, stoves, and motor appliances.

1048 **Macdonald, Alex., & Co., Ltd.**, Aberdeen Granite Works, Aberdeen.—Specimen of a Doric Column in Granite; Carved Runic Cross; Square Granite Monument; Two Headstones; Drinking Fountain, and a variety of Granite Pillars.

1049 **Davies & Sneade**, Vauxhall, Liverpool. Established 1817.—French and English Millstone Makers; Flour and Rice Mill Engineers. Quarries: Derbyshire, Yorkshire, and France.—French Burr Millstones specially adapted for Indian Corn Grinding. Stones for Barley and Oat Grinding; also for Pearling and Decorticating and Shelling Grain; also French Burr Stones for Cement, Coprolite, and Mineral Grinding.

1050 **International Pneumatic Tool Company, Ltd**, Palace Chambers, 9 Bridge Street, Westminster, London, S.W.—"Little Giant" Long stroke Hammers. Caulking Hammers, and a large Assortment of Reversible and Non-Reversible "Little Giant" Piston Air Drills shewn in action, pneumatically driven. (See Advt., page 283.)

1051 **Green, E. & Son, Ltd.**, 2 Exchange Street, Manchester.—Green's Improved Patent Fuel Economiser—192 Tubes arranged in three groups with scraper Mechanism and 5-inch Double-ram Feed Pump coupled to Economiser. (See Advt., pages 110 and 111.)

1052 **Halford, H. S.**, 37 Nevern Square, London, S.W.—Working Model of Halford's Gradient Railway—a new Method of Propelling Railway Carriages without Locomotives by Hydraulically Raising Successive Sections, so as to form a continuous incline.

1053 **The Patent Paraffin Gas Lighting Company, Ltd**, 40 Houldsworth Street, Glasgow.—Oil Gas Machinery in operation, to produce rich, pure gas for Lighting and Cooking, with practical demonstrations of the Light. (See Advt., page 339.)

1054 **Finlay, John, & Co., Ltd**, 18 Renfield Street, Glasgow.—Apparatus for making Acetylene Gas shewn at work.

1055 **Bon-Accord Acetylene Gas Company**, 283 King Street, Aberdeen.—Pavilion containing the following Bon-Accord Acetylene Gas Plant:—Five House Generators (80 Lights); Two House Generators (20 Lights); House Generator (10 Lights); Ship Generator, with Deck Lamps, Search Light, and Masthead Lamp, etc.; Two Portable Contractors' Lamps (100 c.p.); Stage Reflector; Generators for Optical Lanterns; Micro-Photography, etc. Acetylene shewn in comparison with Electric Light, Coal Gas, Paraffin, etc.

1056 **The Manchester Acetylene Gas Company, Ltd.**, St. Simon Street, Salford, Manchester. Sole Agents: Moyes & Sons, 277 Maxwell Road, Glasgow.—Automatic and Portable Generators for Lighting Towns, Villages, Churches, Railways, Docks, Quarries, Plantations, Shipyards, Brick Works, etc.

1057 **The New Taite Howard Pneumatic Tool Company, Ltd.**, 63 Queen Victoria Street, London, E.C.—Pneumatic Labour Saving Appliances for use in Engineering Workshops, Shipbuilding, etc.

1058 **Darlington Forge Company, Ltd.**, Darlington.—Full sized Models of Ships' Stern and Rudder Frames. Propeller Shaft Brackets. Cast Steel Stern Frame submitted to Special Bending Tests, etc.

1059 **Skoda Works, Pilsen, Ltd.**, Bohemia, Austria, per Alfred Brown, 9 Lawson Street, Barrow-in-Furness. Sole Agent for Scotland: Fred. G. Willock, 109 Hope Street, Glasgow.—Cast Steel Marine Engine Bedplate and Standard Propellers, etc. Steel Castings as supplied for Electrical Engineering, etc. Test pieces and Samples of Steel used in manufacturing Skoda Castings. Photographs of Steel Castings, as supplied by the Skoda Works.

1061 **British Schuckert Electric Co., Ltd.**, Clun House, Surrey Street, Strand, London, W.C.—Schuckert Pavilion having the following exhibits:—500 H.P. C.C., Motor coupled direct to Ehrhardt & Sehmer's (Schleifmuehle, near Saarbrücken) High-speed Pump running at 146-165 revolutions per minute, with an output of 750 gallons per minute, and a head of 1700 feet, supplying fountain near Pavilion. One 100 Kw. Motor-Generator, consisting of 500 volt C.C. Motor, coupled to a 500 volts 3-phase Generator, 3-phase Transformer, 500/10,000 volts. Schuckert's Patent High-Tension Switch for 25,000 volts, shown at work at 10,000 volts pressure, and 100 Kw. load. Complete Electric Travelling Crane for 20 Tons, mechanical portion of Messrs. Joseph Adamson & Co., Hyde. Tramway Equipment and Accessories for Overhead Conduit, and Schuckert's Patent Surface-Contact System. Electric Mining Locomotives, with Overhead and Storage Battery Supply. Electric Rock Drills, Electric Capstans, Hauling Machines of Friedr. Schmiedel, Niederwuerschnitz. Portable Radial Drilling and Thread-cutting Machines of Messrs. Collet & Engelhard, Offenbach-on-Maine. Everything shown at work and controlled from a main switchboard. (See advt., page 298.)

1062 **Churchill, Chas., & Co., Ltd.**, 52 Bothwell Street, Glasgow.—American Machine Tools for Engineers and Mechanics' Fine Tools. (See Advt., page 289.)

1063 **Annan, T. & R., & Sons**, 230 Sauchiehall Street, Glasgow.—Photographic Kiosk. (See Advt., page 32.)

1064 **Messrs. Steven & Struthers**, Eastvale Place, Kelvinhaugh. Glasgow.—A complete Lighthouse Installation, showing a Revolving Light of the first order with Lantern, Dioptric Apparatus and Machinery complete, and in full working order, exactly as it will be fitted up at the Bell Rock Lighthouse after close of the Exhibition. (See Advt., page 260.)

1065 **Van Houten's Cocoa Kiosk (Alex. Leckie)**, St. George's House, Eastcheap, London, E.C.—Building erected in old English style for the sale of Van Houten's Cocoa and Eating Chocolate. Visitors are invited to taste the quality of Van Houten's Cocoa, for which a charge of 1d per cup, including biscuit, is made.

1066 **FRENCH PAVILION.** (For particulars, see page 195.)

1067 **Benson, W. A. S., & Co.**, 82-83 New Bond Street, London, W.—Decorated Pavilion constructed on a Newly Patented Principle. Artistic Metal Work and Electric Fittings exhibited inside. Also Blown Glass for Domestic and Decorative Use, Leaded Glass for Windows, Glass Tiles for Wall Decoration (Opus Sectile), from the Glass Works of James Powell & Sons, White Friars, London, E.C.

1068 **The WESTERN AUSTRALIAN EXHIBIT.** (For particulars, see page 188.)

1069 **Macfarlane, Walter, & Co.**, Saracen Foundry, Glasgow.—Classic Cast Iron Spray Fountain, rising to a height of 37 feet from a Concrete Basin of 40 feet in diameter. The Central Pedestal contains Twelve Panels, illustrating, by Zodiacal signs and appropriate flora, the months of the year. Surrounding the Pedestal are life sized Allegorical Figures of Art, Science, Literature, and Commerce, modelled by D. W. Stevenson, Esq., R.S.A.., supporting the Upper Basin from which eight sea urchins around the rim spout water from the mouths of fishes. Rising from this level is a Terminal Basin held aloft by four entwined dolphins. (See Advt., page 265.)

1070 **Water Motor and Automatic Liquid Elevator Co., Ltd.**, James Keith, A.M.I.C.E. (Managing Director), 27 Farringdon Avenue, London, E.C.—Keith's Patent Duplex Automatic Gas Compressors (worked by the City Water Service), supplying Compressed or High Pressure Gas (12 000 cubic feet per hour), for lighting the grounds in connection with the Welsbach Gas Light Co. Special Gas Burners, Large Lantern, 1200 C.P., etc.

The Tudor Accumulator Co., Ltd.,

16 Victoria Street, London, S.W.

Works: DUKINFIELD, near MANCHESTER.

Contractors to the War Department and Admiralty.

Sole Agents for SCOTLAND and ULSTER—

MORRIS WARDEN & CO.,

Stand No. 405. 25 GORDON STREET, GLASGOW.

1071 British Schuckert Electric Co., Ltd., Clun House, Surrey Street, Strand, London, W.C.—20 H.P. D.C. Series Motor with Controller Driving Passenger Car Winch at Water Chute. (See Advt., page 298).

1072 Ross, R. G., & Son, Greenhead Engine Works, Glasgow.—Speed Reducing Gear in connection with Motor at Water Chute. (See Advt., page 230).

1073 Acme Manufacturing Company Ltd., 153 Queen Street, Glasgow.—Acme Gas Engine at Water Chute.

NORTH GARDENS.

1074 Ruston, Proctor & Co., Ltd., Engineers, Lincoln.—Photographs shewing their Patent Steam Navvy at Work in various Railway Cuttings, and illustrative of other Engines and Machines of their manufacture.

TELEGRAPH ADDRESS, "CUMBERLAND, GLASGOW." TELEPHONE No. 4729.

MOSES M'CULLOCH & Co.,

CUMBERLAND FOUNDRY,

168 GALLOWGATE, GLASGOW.

Manufacturers of all kinds of Ironwork for Home and Export Sale.

Makers of Bakers' Oven Mountings,

and Stable Fittings; Lamp Pillars and Brackets; Gates, Railings and Stairs; Wall Windows and Roof Lights; Prismatic Pavement Lights; Tanks and Boilers; Rain-Water Goods; Mail. Iron Doors; Columns and Beams; and all Kinds of Builders' Castings.

INDIAN THEATRE.

THIS unique attraction is situated in the East Gardens, and during the run of the Exhibition varied programmes, illustrative of Indian life, Snake Charming, Juggling, etc., will be given at intervals every afternoon and evening.

WATER CHUTE.

WHO has not heard of the Water Chute that took London by storm last year? It formed the sensation of the Earl's Court Exhibition, and the proprietors have, at the invitation of the Management, erected a similar structure in the Kelvin, down which the visitor must travel before it can be said that he has "done" the Exhibition.

SWITCHBACK RAILWAY.

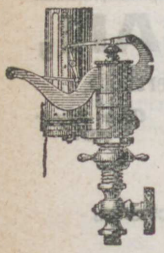
OUR old friend the Switchback Railway is situated in the North Gardens, and should prove as great an attraction as when it was first started in 1888. During the last twelve years many novelties have blossomed and died, whilst the sensation created by a ride on a switchback car retains its invigorating attractiveness.

MILITARY RIFLE RANGE.

THE lesson which has been taught the nation in South Africa—that men who can shoot straight can hold a disciplined army in check—has inspired the Management to grant space to the School of Musketry, 330 Sauchiehall Street, Glasgow, for the erection of a Military Rifle Range in the North Gardens. Here the military aspirant, or shall we say "Burgher?" can practise shooting with small bore rifles at Paterson's patent electric and self-indicating targets.

SHOOTING JUNGLE.

AND the sportsman has not been forgotten, for a large and well-arranged Shooting Jungle, combining all the latest devices to give life-like representations of animals in their natural state, has been erected in the North Gardens by the London Shooting Accessories Company.



National Telephone, No. 06582.

RICHARD'S PATENT

STEAM ENGINE INDICATOR.

MANUFACTURERS:

HANNAN & BUCHANAN,

75 ROBERTSON STREET, GLASGOW.

Also Makers of Bourdon's Patent Pressure Vacuum and Compound Gauges, Buchanan's and Harding's Patent Engine Counters, Reducing Gear for Indicating Engines, Salinometers, Thermometers. Lever Clocks, etc.

REPAIRS PROMPTLY EXECUTED.

REFRESHMENT ROOMS AND KIOSKS.

No. 1.—"THE GROSVENOR."

M'Killop, J. & W., & Mackenzie, Sole Licensed Contractors to the Glasgow International Exhibition, 1901.

No. 2.—"THE ROYAL BUNGALOW."

M'Killop, J. & W., & Mackenzie, Sole Licensed Refreshment Contractors to the Glasgow International Exhibition, 1901.

No. 3.—"THE GRAND AVENUE BUFFET."

M'Killop, J. & W., & Mackenzie, Sole Licensed Refreshment Contractors to the Glasgow International Exhibition, 1901.

No. 4.—"THE PRINCE'S RESTAURANT AND TEA ROOMS."

The Cabin, Ltd., 214 Piccadilly, London, W.—Table d'hote and A-la-carte Dinners and Luncheons. Afternoon and High Teas.

No. 5.—"THE PALACE RESTAURANT AND TEA ROOMS."

Jenkins, Thos., & Co., Restaurateurs, 27 Pitt Street, Glasgow.—Tea, Dining, and Refreshment Rooms.

No. 6.—"TEA HOUSE AND TERRACE GARDENS."

Miss Cranston's Tea Rooms, at Bandstand, facing Art Galleries.—Tea, Luncheons, Afternoon Teas, High Teas, etc.

No. 7.—"FLINT'S TEA ROOMS."

Flint, Thos. W. W., a few minutes' walk from Queen Street and Central Stations, 106 West George Street, Glasgow.—Tea, Luncheon, and Refreshment Rooms.

No. 8.—"TOBACCO KIOSK."

Marcovitch & Co., 11 Air Street, Regent Street, London, W.—Cigarettes, Cigars, Tobacco, and Smokers' Fancy Goods; and Cups of Coffee on the Verandah.

No. 9.—"FRUIT AND FLOWERS KIOSK."

Malcolm Campbell, Ltd., The City Fruit Warehouse, 18 Gordon Street, Glasgow.—Flowers, Fruit, Chocolates, Confections; also Ærated Waters, Tea, Coffee, Ices, etc.

No. 10.—VAN HOUTEN'S "KIOSK."

Leckie, Alex., St. George's House, Eastcheap, London, E.C.—Van Houten's Cocoa and Eating Chocolate.

ALEXANDER DUNCAN,

Diamond Merchant, Watch Manufacturer, Jeweller, and Silversmith,

One Stair up. 75 BUCHANAN STREET, *One Stair up.*

GLASGOW.

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Holds one of the largest and most comprehensive Stocks in the trade.
Visitors to Glasgow are respectfully invited to view our Stock.
Specialties in Wedding Presents, Presentations, etc., etc. **TELEPHONE 3850.**

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IN THE GROUNDS.

IRISH PAVILION.

(Near STEWART MEMORIAL FOUNTAIN.)

Organized by the Department of Agriculture and Technical Instruction, With the Assistance of the Congested Districts Board.

HALL.

1 **Ward & Partners,** Belfast.—Coloured and Leaded Panels in Porch Door, representing St. Patrick and St. Bridget.

2 **Ward & Partners,** Belfast.—Stained Glass Panel, in Office Door, suitable to Domestic purposes. Screen in Leaded Glass, representative of Industry.

3 **Musgrave & Co., Ltd.,** Belfast.—Musgrave's Patent Slow Combustion Ventilating Stove.

4 **Brooke, Sir Douglas, Bart.,** Colebrooke, Brookeboro.—Heads of Irish Red Deer.

5 **Adair, Mrs.**—Head of Deer from Glenveagh Forest, Co. Donegal.

6 **Anketell Jones, P. W.,** Curravagh, Oughterard.—Trout.

7 **Anketell Jones, Capt.,** Innishamboo, Oughterard.—Pike from Lough Corrib.

8 **Thomas, W. J.,** Mullingar.—Specimen Trout from Loch Ennell.

ROOM No. 1.

9 **Collective Exhibit of Cottage Industries** as applied to Linen Fabrics, from the counties of Armagh, Antrim, Down, Donegal, and Londonderry.—Kindly contributed to by (Belfast Linen Merchants' Association) York Street Flax Spinning Company, Ltd.; Richardson, Sons, & Owden; John Shaw, Brown, & Sons; Henry Matier & Co., Ltd.; Lindsay, Thompson, & Co., Ltd.

10 **Hicks, Bullick, & Co.,** Belfast.—Sewing Cottons, Crochet Cottons, Threads, including Shamrock, Harp, and Round Tower Brands.

11 **Walpole Bros.,** Dublin.—Hand-Embroidered Linen Bedspreads, Tray Cloths, Tea Cloths, D'Oyleys, etc. Hand Loom Double Damask Table Cloths and Napkins.

12 **Ward & Partners,** Belfast.—Coloured Window, subject—"Christ at Carpenter's Bench."

Department of Agriculture and Technical Instruction for Ireland.—Handkerchief Embroiderer.

ROOM No. 2.

13 **Letterfrack Basket Industry,** Letterfrack, Co. Galway.—All kinds of Basket Work, including the Shamrock and Spinning Chair Patterns, as supplied to Her Late Majesty Queen Victoria.

14 **Reeves, Miss,** Tramore, Douglas, Co. Cork.—Baskets.

15 **Nash, Mrs.,** Beaufort, R.S.O., Co. Kerry.—Wicker Covered Bottles.

16 **Castlecomer Basket Industry,** Castlecomer.—All kinds of Basket Work.

17 **Hamilton & Co.,** White House, Portrush.—Bog Oak Carving.

18 **Millar & Beatty**, Dublin.—Donegal Carpet.

19 **Do**, do., —Section of Carpet as supplied to Her Late Majesty, Queen Victoria (both specimens made at Killybegs, Co. Donegal).

20 **Killarney Furniture Industry**, Killarney, Co. Kerry.—Furniture, including Bedstead, Dressing Table, Chairs, Fire Screen, Brackets, Hand Glass, Table, Candlesticks.

21 **Fry & Co.**, Dublin.—Poplin Curtains.

22 **Royal Irish School of Art Needlework**, 20 Lincoln Place, Dublin.—Bed Spread on Bed.

23 **Hamilton & Co.**, White House, Portrush.—Hand Painted Toilet Set in Belleek Ware.

24 **Montgomery, Mrs.**, Blessingbourne, Fivemiletown.—3 Panels for Mantel Piece, Coal Scuttle and Fender, 2 Copper Sconces.

25 **Shaw, Miss Alice**, Mount Saville, Terenure, Co. Dublin.—Panels in Green Wood (Celtic Carving).

26 **Coates, William, & Son**, Belfast.—Electro-plated Standards.

27 **Inglis, J. Johnston, R.H.A.**, Montrose, Donnybrook.—Views of Irish Scenery.

28 **Taddei, E. & L.**, Cork.—Irish Marble Ornaments.

29 **Hogg, Alex.**, 13 Trinity Street, Belfast.—Flash Light Photograph.

30 **Vinycomb, John**, Hollywood, Co. Down.—Engravings of Book Plates.

31 **Hamilton & Co.**, White House, Portrush.—Selected Specimens Fine Belleek Pottery.

32 **Power, Mrs. G. B.**, Kilfane Glebe, Thomastown, Kilkenny.—Carved Coal Box and Tray.

33 **Curry, Edmund**, Abbeyleix, Queen's County.—Marriage Chest Copied from original in Victoria and Albert Museum.

34 **Shaw, Miss**, Mount Saville, Terenure, Co. Dublin.—Carved Spinning Chair, Walnut Cupboard, 3 Panels for Dado in Mahogany.

35 **Dillon, T.**, Galway.—Connemara Marble Ornaments.

ROOM No. 3.

36 **Irish Lace Depot, Ltd.**, 76 Grafton Street, Dublin.—Representative Exhibit of Irish Lace and Crochet from twenty counties.

37 **Presentation Convent**, Killarney.—Specimens of Carrickmacross and Limerick Lace.

37A **Crawford Municipal School of Art**, Cork.—Crochet and Limerick Lace.

37B **Castle Bellingham Home Industries Society**, Castle Bellingham Co. Louth, Carrickmacross.—Appliquè and Guipure.

38 **Holland, Michael**, 20 Myrtle Hill Terrace, Cork.—Crochet Collarettes, Crochet Frontal in Silk and Gold, specimens of Insertion and Lace designed by exhibitor and worked under his supervision.

39 **Meath Home Industries**, Navan, Co. Meath.—Crochet Sleeves.

40 **Convent of Mercy**, Queenstown, Co. Cork.—Specimens of Carrickmacross Lace and Crochet.

41 **Swords Lace Class**, Swords, Co. Dublin.—Carrickmacross Lace.

42 **Irish Needlework Depôt.**—Crochet Collars.

36A **Ward & Partners**, Belfast.—Stained Glass Window, representing Monasterboice Cross, with Arms of the Four Provinces and Cities of Dublin, Belfast, Cork, and Galway.

ROOM No. 4.

43A **Ward & Partners,** Belfast.—Stained Glass Window, "Peacock" Design.

43 **Garryhill Cottage Industry,** County Carlow.—Selected specimens of White and Coloured Embroidery.

43A **Fry & Co.,** Cook Street, Dublin.—Poplin, Terry, Brocatelle, and Carriage Trimmings.

44 **Meath Home Industries,** Navan, Co. Meath.—Embroidery.

45 **Knox, Mrs.,** Creagh, Ballinrobe.—Embroidery.

46 **Hamilton, Mrs.,** Brownhall, Donegal.—Embroidery, including Banners for Irish Pipes.

47 **Turbotstown Cottage Industry,** Coole, Westmeath.—Embroidery.

48 **Crawford Municipal School of Art,** Cork.—Art Embroidery.

49 **Ardara Drawn Work Class,** Ardara, Co. Donegal.—Drawn Work and Embroidery.

50 **Convent of Mercy,** Ennis, Co. Clare.—Embroidery.

51 **Dalkey Co-operative Needlework Society,** Dalkey, Co. Dublin.—Gold Embroidery and Worker.

52 **Irish Industries Association,** 21 Lincoln Place, Dublin.—Embroidery.

53 **Reeves, Miss,** Tramore, Douglas, Cork.—Silk.

54 **Davidson, W. J.,** Grey Abbey, Co. Down.—Silk.

55 **Convent of Mercy,** Queenstown, Co. Cork.—Linen.

56 **Convent of Mercy,** Roscarberry, Co. Cork.—Linen and Cambric.

57A **Convent of Mercy,** Skibbereen, Co. Cork.—Linen and Cambric.

57B **Dunloe Co-operative Flax Society,** Dunloe, near Coleraine.—Flax Trophy.

COURT.

Photographs.

58 **Great Northern Railway Company (Ireland),** Dublin.—Photographs of Scenery on Company's System.

59 **Great Southern-Western Railway Company,** Dublin.—Photographs of Scenery on Company's System.

60 **Midland Great Western Railway Company,** Dublin.—Photographs of Scenery on Company's System.

61 **Belfast and Northern Counties Railway Company,** Belfast.—Photographs of Scenery on Company's System; also types of Engines and Carriages used on the System.

62 **Cork, Bandon & South Coast Railway Company,** Cork.—Photographic Views of Scenery in Co. Cork.

63 **Dublin, Wicklow & Wexford Railway Company,** Dublin.—Photographs of Scenery on Company's System.

Models.

64 **Ismay, Imrie & Co.** (White Star Line), Liverpool.—Model of Twin-Screw S.S. "Georgic."

65 **London & North-Western Railway Company,** London.—Full Model S.S. "Anglia" (Dublin and Holyhead), speed 21½ knots.

66 **London & North-Western Railway Company,** London.—Full Model S.S. "Galtee More" (Holyhead and Greenore), speed 18¾ knots.

67 **The Barrow Steam Navigation Company,** Barrow-in-Furness. — Full Model S.S. "Duchess of Devonshire." (Cross Channel.)

68 **Burns, G. & J.,** Glasgow.—Full Model R.M.S. "Adder," tonnage 981, speed 19 knots. (Belfast and Glasgow Daylight Service).

69 **City of Dublin Steam Packet Company,** Dublin.—Model of Mail Steamers, "Ulster," "Leinster," "Munster," and "Connaught," each with a tonnage 3000, speed 24 knots. (Holyhead and Kingston.)

70 **City of Dublin Steam Packet Company,** Dublin.—Model S.S. "Louth," Passenger and Cargo, tonnage about 1,270, speed 15 knots. (Dublin and Liverpool.)

71 **Dublin & Glasgow Steam Packet Company** ("Duke" Line), Dublin.—Model S.S. "Duke of Rothesay," tonnage 1,225, speed 16 knots. (Dublin and Glasgow.)

72 **Dublin & Glasgow Steam Packet Company** ("Duke" Line), Dublin.—Model S.S. "Duke of Fife," tonnage 1,110. (Dublin and Glasgow.)

73 **City of Cork Steam Packet Company,** Cork.—Full Model S.S. "Innisfallen." (Cork and Milford.)

74 **Lancashire & Yorkshire Railway Company,** Manchester.—Full Model Mail S.S. "Duke of Cornwall." (Fleetwood and Belfast.)

75 **Larne & Stranraer Joint Steamship Company,** Belfast. — Full Model Paddle S.S. "Princess Victoria." (Larne and Stranraer.)

76 **Cork Steamship Co., Ltd.,** Cork.—Half Model S.S. "Cormorant," tonnage 1,591, speed 11½ knots. (Liverpool and Antwerp).

77 **Laird, Alex. A., & Co.,** Glasgow.—Half Model S.S. "Fern," tonnage 510, speed 12 knots. (Dublin, Londonderry, Coleraine, and Glasgow.)

78 **British & Irish Steam Packet Company,** Dublin.—Half Model S.S. "Lady Roberts," tonnage 1,642, speed 13 knots. (Dublin and Plymouth.)

Various.

79 **Power & Son, Sir John,** Distillers, Dublin.—Manufacture of Whiskey—Material and Process.

79B **M'Carthy, T.,** Angler's Rest, Waterville.—Salmon and Trout Flies, suitable to all localities.

80 **Musgrave & Co.,** Belfast.—Model of Musgrave's Stable, consisting of three stalls and two loose boxes.

81 **Musgrave & Co.,** Belfast.—"Ulster" Ventilating Fan.

82 **Ward & Partners,** Belfast.—Window in Leaded Glass.

83 **Irish Agricultural Organisation Society,** Dublin.—Map, showing Co-operative Societies, Agricultural Banks, and Home Industries Societies affiliated to the I.A.O.S.

Stones and Minerals.

84 **Glanville, E. S.,** Dublin.—Polished Specimens of 14 different Irish Marbles (slabs and colmns).

85 **Congested Districts Board for Ireland,** Dublin. — Copper, Lead, Iron, Sulphur, Marble, Granite.

85B **Department of Agriculture and Technical Instruction for Ireland.**—Casts of Gold Nuggets from Co. Wicklow.

86 **Prior Wandesforde, R. H.,** Castlecomer.—Two Specimens of Anthracite Coal.

87 **Lieutenant-Colonel B. Gaele Humfrey,** Cavanacor, Ballindrait, Co. Donegal.—Granite, rough and polished.

88 **Grant, J. & F.,** Kieselguhr Mines, Toome Bridge, Co. Antrim.—Diatomite (Non-conducting material).

89 **Watson, G. A., & Co., Ltd.,** Liverpool.—Paving Materials and Bricks from Co. Clare. (See Flags and Curbstones at Entrance.)

90 **The Earl of Leitrim,** Mulroy, Milford, Co. Donegal.—Specimens of Grey Granite and Plumbago.

91 **Quinn, Patrick,** Mount Charles, Co. Donegal.—Specimens of Freestone and Granite.

92 **Lord Monteagle of Brandon.**—Specimens of Limestone from Foynes, Co. Limerick.

93 **Antrim Iron Ore Company Ltd.,** Belfast.—Specimens of Broughshane, Parkmore, and Glenarm Iron Ores; and Aluminous Ore.

94 **Magheramorne Lime Company,** Magheramorne, *via* Belfast.—Specimen of White Limestone for Quicklime; Flint used for Pottery.

95 **The Arigna Mining Company Ltd.,** Ballinamore, Co. Leitrim.—Specimens of Coal, Ironstone and Ore, Fire Clay, Flag Stones and Building Stone.

96 **The Granite Quarries Company Ltd.,** Black Sod Point, Co. Mayo.—Granite Kerbs and Sets.

97 **M'Auliffe, J.,** Rathmullen, Co. Donegal.—Oxide of Iron for Gas Purifying.

98 **Donegal Soap Stone Syndicate, Ltd.,** Manchester.—Samples of Soap-stone, as mined at Crohy Head Mines, Co. Donegal.

99 **Woodside, James C.,** Ballycastle, Co. Antrim.—Limestone and Square Sets.

100 **Benduff Slate Company,** Roscarberry, Co. Cork.—Slates.

101 **Valencia Slate & Slab Quarries,** Valencia Island, Co. Kerry.—Slate Slabs, Roofing, and School Slates.

102 **Madranna Slate Co.,** Cork.

103 **The National Industries of Ireland Corporation, Ltd.,** 13 Abchurch Lane, London.—Flag Stones, Paving Sets, Kerb Stones, Building Stones, Coal and Iron Stones.

104 **Courtenay, Colonel.**—Columns and Slabs of Galway Granite.

105 **Bracken, John,** Cashel Lodge, Lanesboro.—Building Stone.

106 **Department of Agriculture and Technical Instruction for Ireland,** Dublin.—Fisheries.

107 **The Congested Districts Board for Ireland.**—Models, etc.

108 **The Earl of Leitrim.**—Photographs of Donegal Scenery.

ANNEXE No. 1.

COSTUME CLOTHS, TWEEDS, HOMESPUNS, FRIEZES, RUGS, BLANKETS.

109 **M'Keown, R. H.,** Leenane, Killary Bay, Co. Galway.

110 **Spamount Woollen Company,** Castlederg, Co. Tyrone.

111 **Cogan, J., & Son,** Midleton, Co. Cork.

112 **Hamilton & Co.,** White House, Portrush.

113 **Convoy Woollen Mills,** Convoy, Co. Donegal.

114 **Heaton, S., & Sons,** Lough Mills, Athlone.

115 **Sheehan, C. J., & Sons,** Dungarvan, Co. Waterford.

116 **Cormick, Cannon,** Glenties, Co. Donegal.

117 **Timony, James, & Co.,** Donegal.

118 **M'Nelis, Neil,** Ardara, Co. Donegal.

119 **Magee, John, & Co.,** Donegal.

120 **Heekin, Andrew,** Carrick, Co. Donegal.

121 **Dunne, Nicholas,** Avoca, Co. Wicklow.

122 **Irish Industries Association,** 21 Lincoln Place, Dublin.

123 **Hanly, John,** Ballyartella Mills, Nenagh, Co. Tipperary.

124 **Mulcahy, Redmond & Co.,** Ardfinnan, *via* Cahir.

125 **Gort Home Industries,** Gort, Co. Galway.

126 **Providence Woollen Mills,** Foxford, Co. Mayo.

ANNEXE No. 2.

127 **Roberts, Miss,** Kincasslough, Belcruit, Co. Donegal.—Hosiery.

128 **M'Devitt, D. & H.,** Glenties, Donegal.—Hand Knit Hosiery and Gloves.

129 **Kerry Knitting Company,** Tralee, Co. Kerry.—Hosiery and Underclothing.

130 **Walpole Bros.,** Dublin.—Damask Loom weaving Napkins.

131 **Hamilton & Co.,** White House, Portrush.—Spinner, and Hand Loom weaving Homespuns.

132 **Department of Agriculture & Technical Instruction for Ireland.**—Specimens of Kelp and Tobacco.

133 **Westerman, C.,** Caledon, Co. Tyrone.—Carpets, Rugs, etc.

133A **Ward & Partners,** Belfast.—Stained Glass Window, "Peacock" Design.

133B **Department of Agriculture and Technical Instruction for Ireland.**—Hand Loom weaving Damask Tablecloth. (Specimens of similar goods on walls).

133C **M'Creery & Son,** Albert Bridge Road, Belfast.—Spinning Wheels.

OFFICE.

134 **Millar & Beatty,** Dublin.—Furniture, including Tables, Chairs, and Donegal Rugs.

GROUNDS.

Smith, T., Daisy Hill Nurseries, Newry.—Laying out of Grounds, and Creepers against Walls of Pavilion and Cut Flowers in Hall.

GLASGOW EXHIBITION HOTEL,

Clyde Street, ANDERSTON CROSS.



3 Minutes to Exhibition Entrances by Rail and Car.

Lift. Electric Light. Reading, Billiard and Recreation Rooms. Dining Room and Restaurant.

Turkish, Spray, Hot and Cold Baths.

Single Bedrooms with all requisites from 1/- per night.

Bed and Breakfast from 1/6.

Special terms to weekly men and large parties visiting the Exhibition.

T. GORDON, *Proprietor.*

BRITISH DOMINIONS AND COLONIES.

INDIAN EMPIRE AND CEYLON.

INDUSTRIAL HALL—NORTH-EAST COURTS.

INDIA, the brightest Jewel of the King's Dominions, is represented by a number of well-known merchants, who display the unique Embroideries in Satin and Cloth of Central India; Furniture, artistically designed and carved in the hard woods for which the North is celebrated; the Metal and Brass Ware of Benares and the Copper Ware of Cashmere. Curry Powder, Chutney, Guava Jelly and the Indian Cheroot also, naturally, find a prominent place amongst the native productions.

The Government of Travancore, a portion of the Indian Empire little known to fame, seek publicity by a unique show of Lace Cloths, Musical Instruments and Forest Produce.

Ceylon, the centre of the Tea Industry, is fittingly represented by a handsome and appropriate Kiosk in the form of a bungalow, erected by Messrs. Geo. Payne & Co., Ltd., London, near the Gray Street entrance. The verandah, foliage, decorations, and native attendants are realistic of Oriental life, and are well worth a visit. H.R.H. The Duchess of Fife graciously partook of a cup of "Government" Tea while passing this Section.

1 **Framjee P. Bhumgara & Co.,** 135 London Wall, London, E.C.—Indian Carpets, Printed Curtains, Embroideries in Satin and Cloth, Wood Carving, Furniture, Silverware, Potteries, Ivory Work, Metal Ware (including Benares Brass Ware), Cashmere Copper Ware, and other Indian Art Manufactured Goods. (See Advt., page 215.)

2 **Ardeshir & Byramji,** 22 Oxford Street, London, W.C.—Indian Art Manufactures, including Jewellery, Silver-ware, Sandalwood, Carved Boxes, Embroideries, Cotton Printed Curtains, Bedspreads, Blackwood Carved Furniture, Pottery, Arms, Art Metal Ware, Carved Ivory, Indian Carpets, etc. (See Advt., page 324.)

3 **Oakes & Co., Ltd.,** Madras, Southern India, per **Oakes Bros. & Co.,** London.—Oakes' Indian Cigars.

4 **Sharwood, J. A., & Co., Ltd.,** St. George's House, Eastcheap, London; 4 Bankshall Street, Calcutta.—Indian Chutneys, Curry Powder, Curry Paste, Pickles, Guava Jelly. Jams and Models of Fruit used in their production. Gold Medal, Paris, 1900.

5 **Sharwood, J. A., & Co., Ltd.,** St. George's House, Eastcheap, London.—"White Label" Worcestershire Sauce. Gold Medals—Newcastle, 1899, and Paris, 1900.

6 **Payne, George, & Co., Ltd.,** 31 Minories, London, E.C.—Blended Teas, Coffees, and Cocoas. Working Model of Patent Weighing Machine, showing "Government" Tea weighed and packed.

7 **Government of Travancore, Trivandrum.**—Travancore Musical Instruments and Collection of Travancore Forest Produce, Lace Cloths, etc.

8 **Jarrett Bros.** (Spencer & Co., Madras), 70 and 71 Bishopsgate Street, (within), London, E.C.—Indian Cigars.

THE DOMINION OF CANADA.

INDUSTRIAL HALL, NORTH-WEST COURTS, AND PAVILION IN THE GROUNDS.

WITHIN about a week's sail from the shores of the Mother Country, lies in the Western Hemisphere, the Dominion of Canada—Britain's greatest Colony.

It is a country so vast that to cross it from its eastern boundary, the Atlantic, to its western, the Pacific Ocean, necessitates a continuous journey by a fast train of nearly six days and nights.

On the north it is bounded by the Arctic Ocean, and on the south by the United States and the Great Lakes. There are many fine harbours on the West Coast, the best known being Esquimalt, the station of the North Pacific Squadron of the British Navy; Vancouver, the terminus of the Canadian Pacific Railway and the starting point of steamers for Australia and Japan; and Victoria, the capital of British Columbia, situated on Vancouver Island.

On the East Coast are the well-known harbours, Halifax and St. John, and the Gulf and River St. Lawrence for seven or eight months in the year open a splendid waterway for ocean steamers to reach the ports of Quebec and Montreal, and on the North-Eastern Coast is Hudson Bay, the centre of the great fur industry, a land-locked sea, as large in area as France, Germany, and Britain combined.

The Canadian rivers, plains, and mountains are on a very large scale, and along the southern edge of Ontario, from the head of the St. Lawrence River, stretches the most wonderful chain of fresh water lakes in the world. They extend for over a thousand miles westward, and it is possible to sail the whole distance in a large vessel. Lake Ontario is as large as Wales, and Lake Erie a little larger. Lake Huron is equal in size to Belgium and Holland put together, while if Scotland were put in the centre of Lake Superior, the largest of all, there would be only a few mountain peaks visible from the shore. In the North-West are lakes like Winnipeg, Manitoba, Great Slave, and Great Bear, each of which is as large as lake Ontario.

Thanks to a system of canals to overcome the rapids, a continuous waterway is open for steamers drawing fourteen feet, from the Atlantic Ocean to the head of Lake Superior, a distance of over two thousand miles. In the near future these connecting links will be deepened, so as to admit of an ocean steamer from Liverpool sailing into the heart of the country and discharging her cargo at Fort-William to reload with grain, cattle, horses, or dairy products for the British markets.

Into the basin of the Great Lakes run hundreds of rivers, not only draining the country round, but supplying water power which only requires the electrician to take in hand, to become a very valuable asset.

It will be surmised from the above particulars that a country so well watered has an exceptionally prolific soil. It is an alluvial black loam, with an average depth of twenty inches, resting on a subsoil of clay, and yielding an average in wheat of twenty bushels to the acre. The cereal yield in 1899, was 51,000,000 bushels, of which 28,000,000 were wheat. From this it may be gathered that Canada is destined to take a very high place among the world's grain-growers. In 1900 the area sown in wheat was double that of 1890. And the same increase has taken place in other industries, proving beyond a doubt that the Government of Canada, in arranging notable exhibits of the National Products, Agriculture and Horticulture, Industries and Manufactures

of the Colony, such as may be witnessed in the Industrial Hall and Canadian Pavilion, in the grounds, of the Glasgow International Exhibition, are slowly but surely overcoming the prejudice that pervaded, and in a minor sense still pervades, the minds of unthinking persons in this country, that Canada is essentially a land of ice and snow—a land where tobogganing, skating, and snow-shoe walking is the only national pastime: in other words where the winter is of the longest and the summer the shortest in the Western Hemisphere.

How far this prejudice is removed from the actual truth can be fully realised by merely a cursory glance at the many specimens displayed in the Canadian Section.

Perhaps there is no country in the world where the climatic conditions are so varied. In the extreme north the cold is Arctic in its intensity, whilst in the south the summer heat is tropical. As the Horticultural Exhibit in the Canadian Pavilion will show, between these two extremes of heat and cold, there lies a huge tract of country which offers to the agriculturist an ideal opening to farm on the best possible conditions, where millions of acres of virgin soil lie ready for the hardy and industrious settler.

The Dominion lands are laid out in quadrilateral townships, each containing thirty-six sections of one square mile, or 640 acres. Each separate section is also sub-divided into quarter sections of 160 acres. All the even-numbered sections except eight and twenty-six are free homesteads and can be obtained from the Local Agent of the District on payment of 10 dollars entrance fee. After three years, the settler, provided he has to the best of his ability cultivated a portion of the land granted to him, and resided upon it for six months of each year for those years, receives a patent from the crown for the same. In the event of his death his legal representatives succeed to the homestead right, on the understanding that they or some of them must complete the necessary duties.

In townships which consist partly of prairie and partly of timber lands, the timber lands are divided into wood lots of not more than twenty acres and not less than ten acres. Settlers will, however, experience no difficulty in obtaining a sufficient supply of fuel, for in those portions of Manitoba and the North-West Territories where wood is not found to any great extent, nature has furnished coal as a substitute.

In Southern Manitoba wood may be obtained from the Turtle Mountains, Brandon Hills and along the banks of the Souris River; and the Manitoba and South-Western Railway, a part of the Canadian Pacific Railway system, furnishes the best possible access to the Souris coal field, from which a considerable percentage of the fuel used in the southern portion of the province, and at many points on the main line of the Canadian Pacific Railway as far east as Winnipeg, and westward to Moose Jaw, coal is also obtained.

In Northern Alberta and for some distance to the east of the Rocky Mountains and along the rivers in Southern Alberta, an abundant supply of timber for fuel is obtainable and throughout the whole of the district there is an abundance of coal. So great is the supply that it is calculated there is sufficient to provide for the wants of the whole world, if need be, for centuries.

In the Province of Ontario it is provided that public lands which have been surveyed and are considered suitable for settlement and cultivation, may be appropriated as free grants. Two hundred acres is the limit of the Act regulating the disposal of free land, and the conditions specified by the Government are far from onerous.

In what is known as the Rainy River district, to the west of Lake Superior, and along the line of the Canadian Northern Railway which is now being constructed, free grants are made of one hundred and sixty acres to a head of a family; or to a single or married man without children, of one hundred and twenty acres. Each person obtaining a free grant has the additional privilege of purchasing eighty acres, at the rate of

1·00 doll. per acre, payable in four equal annual instalments. The soil of this district is a deep loam, and for an area of nearly a million acres is very fertile. Outside of the free grant townships uncleared land varies in price from two shillings to forty shillings an acre, according to situation and soil. Cleared and improved farms can be bought at prices ranging from £4 to £10 an acre, and the money can nearly always be paid in instalments covering several years.

In the Province of Quebec the Government have surveyed about seven million acres of Crown lands. These lands can be purchased at from 1s. 5d. to 2s. 5d. per acre, on the following easy terms, viz.: One-fifth of the purchase money to be paid on the day of sale, and the remainder in four equal annual instalments, bearing interest at 6 per cent. In addition, the settler is required to build a habitable house, 16 feet by 20 feet.

New Brunswick possesses 7,000,000 acres of ungranted land. One hundred acres are given to any settler not owning other land, for 20 dollars cash, or he must perform 10 dollars work per annum for three years, on the public roads. Nova Scotia and the Province of British Columbia also grant land on similar conditions to the above.

From this brief summary it will be seen that Canada offers exceptional facilities to the farmer. The soil is fertile, the climate good, and the methods of transportation easy, and year by year improving. Apart from the growth of cereals and hay, cattle and sheep are easily reared, and find a ready market not only in the principal towns of the Dominion, but, thanks to the ever-increasing carrying facilities offered by the large shipping companies in Europe, and especially the Mother Country, huge quantities of meat are annually canned, packed, or frozen for the European markets. Fruit and dairy produce are also being exported in large quantities.

Tobacco forms a very important crop in the Province of Quebec, which has an area of 222,000,000 of acres, one half of which is in forest and woodland.

Next to agriculture, one of the most attractive industries is the fisheries. These are the largest in the world, embracing over 5600 miles of the sea coast, in addition to the inland seas, innumerable lakes, and a great number of rivers.

With regard to their value, statistics prove that the home consumption last year was 15,000,000 dollars alone, and when the supply shipped to the foreign markets is taken into account, it probably totalled thirty-seven to thirty-eight million dollars.

The third great industry of Canada is timbering, for the Dominion possesses a wealth of forests, which annually yield upwards of 33,538,000 standard logs, each having 100 feet board measure. The total value of the raw products of the forests in the census year was over 80,000,000 dollars, or about 16 dollars per head of the population. Lately there has been a great demand for wood pulp, and mills are now in full operation turning out over 1200 tons per day. The pulp is crushed from the spruce trees, which cover a vast area. Pine, hemlock, oak, elm, maple, beech, birch, butternut, hickory, basswood, and cherry are also found in the forests, which occupy 33 per cent. of the whole area of Canada.

The fourth great industry is mining, and so vast is the value of the mineral wealth of the Dominion, that every year there is witnessed a substantial increase in the mining population. We have already referred to the enormous fields of coal that await the miner, and it will be sufficient to add that the annual return shows an output of no less in value than 9,040,000 dollars. Gold exceeds 22,000,000 dollars, Silver 1,834,371 dollars; Copper 2,655,319 dollars; Lead, 1,200,000 dollars; Nickel 2 500,000 dollars. It would be difficult in a brief summary of Canada's natural resources to adequately particularise her mineral wealth, but even a cursory inspection of the many specimens displayed in the Canadian Section will convince the visitor that the miner need have no fear;—that he will find at once lucrative employment on his arrival. Numerous Companies have been formed to develop the Iron industry.

And it has been found that the ore is particularly suitable for the manufacture of steel plates.

Gold has been found in almost all the Provinces and Territories of Canada, but its working has, practically speaking, been confined to the Provinces of Nova Scotia, Quebec, Ontario, and British Columbia and the new district of Yukon, better known as the Klondyke region. In the Province of Nova Scotia gold mining has been a very steady industry, the average annual output since its discovery in 1862 having grown from 366,000 dollars to 550,500 dollars in 1900.

In the Yukon District of the North-West Territories, the output in 1897 was 300,000 dollars, to-day it exceeds 20,000,000 dollars.

Though manufactures do not occupy so important a place as in the mother country, there are, however, many great manufacturing firms in the Dominion, and the number is rapidly increasing. There are a dozen large factories making agricultural machinery of all sorts; the value of the annual exports of agricultural implements to Australia alone amounts to over half a million dollars, or one hundred thousand pounds sterling. There are important bicycle factories which do a large export business. The pulp and paper mills are rapidly increasing, and there are also a number of large cotton, woollen, and flour mills. Pianos and organs are extensively manufactured, and Canadian furniture has a wide sale on British markets. Other articles are manufactured of every description for home consumption.

We cannot conclude this brief description better than by quoting the words of Sir John G. Bourinot, who, in his book "Canada under British Rule," says:—"At the present time a population of probably five million four hundred thousand souls inhabit a Dominion of seven regularly organised provinces, and of an immense fertile territory, stretching from Manitoba to British Columbia.

"No country in the world gives more conclusive evidences of substantial development and prosperity than the Dominion, under the beneficial influences of Federal Union and the progressive measures of Government for many years. The total trade of the country has grown from over 131,000,000 dollars in the first year of confederation, to over 321,000,000 dollars in 1899, while the national revenue has risen during the same period from 14,000,000 dollars to 47,000,000 dollars, and will probably be 60,000 000 dollars in 1901.

"The railways whose expansion so closely depends on the material conditions of the whole country, stretch for 17,250 miles compared with 2,278 miles in 1868; while the remarkable system of canals, which extend from the great lakes to Montreal, has been enlarged so as to give admirable facilities for the growing trade of the West. The natural resources of the country are inexhaustible, from the fisheries of Nova Scotia to the wheatfields of Manitoba and the North-West, from the coal mines of Cape Breton to the gold deposits of the country through which the Yukon and its tributaries flow."

CANADIAN EXHIBIT.

INDUSTRIAL HALL.

The very complete and comprehensive exhibit from Canada is distributed as under :—

Department of Public Instruction, Province of Quebec, Quebec.—Photographs of Schools and Colleges in the Province.

Province of Ontario, Toronto.—Photographs of Schools and Colleges in the Province.

Province of Manitoba, Winnipeg, Manitoba.—Photographs of Schools and Colleges.

Province of British Columbia, Victoria, B.C.—Photographs of Schools and Colleges.

Province of Nova Scotia, Halifax, Nova Scotia.—Photographs of Schools and Colleges.

University of Ottawa, Ottawa, Ontario.—Photographs of the University, etc.

Victoria University, Toronto.—Photographs of the Exterior and Interior of the University.

Wycliffe College, Toronto, Ontario.—Photographs of the College, etc.

Queen's University, Kingston, Ontario.—Photographs of the University, etc.

Trinity University, Toronto.—Photographs of the University, etc.

St. Michael's College, Toronto.—Photographs of the College, etc.

Toronto Conservatory of Music, Toronto.—Photographs of the Building.

Ontario College of Pharmacy.—Photographs of the College, etc.

Ontario Medical College for Women, Toronto.—Photographs of the College, etc.

Presbyterian Ladies' College, Toronto.—Calendar, Curriculum, etc.

Royal College of Dental Surgeons, Toronto, Ontario.—Photographs of the College, etc.

Bishop Strachan Ladies' College, Toronto, Ontario.—Calendars, Reports, etc.

M'Gill University, Montreal, Quebec.—Photographs of the Interior and Exterior of the University.

The Canadian Office & School Furniture Company Ltd., Preston, Ontario.—Adjustable School Desks.

Paquet & Godbout, St. Hyacinthe, Quebec.—School Desks.

The Wm. Weld Company, Ltd., London, Ontario.—Wood Engravings.

The Canadian Composing Company, 589 Beaudry Street, Montreal, Quebec.—Monoline Composing Machines (Shown in Operation).

Jackson, John Francis, Barry, Ontario.—Photographs of Scenery.

Cochran, Chas. S., Hamilton, Ontario.—Portrait and Landscape Photographs.

Rowley, E. J., Toronto, Ontario.—Photographs of Canadian Scenery.

Sherk, W. B., Waterloo, Ontario.—Photographic Scenes.

Quebec and Lake St. John Railway Co., Quebec.—Photographs and Pictures along the line of their railway.

Canadian Pacific Railway Company, Montreal, Quebec.—Biogens showing moving scenes along the line of their railway. Scottish Agent: Thos. Russell, 67 St. Vincent Street, Glasgow.

John Parker, Souris, Manitoba.—Form of Election Ballot.

Harbour Commissioners of Montreal, Montreal, Quebec.—Plan of Harbour.

Harbour Commissioners of Quebec. Quebec.—Plan of Harbour.

Wilson, C., & Sons, Toronto, Ontario.—Scales.

Linde British Refrigeration Company, Montreal.—Cold Storage Plant, in Operation.

Maclaren, A. F., Imperial Cheese Company, Ltd., Toronto, Ontario.—Narlborough & Sons, Ltd., Leith. Agents for G. B. Maclaren's Imperial Cheese.

Butter & Cheese Association of Eastern Ontario, Elgin, Ontario.—Cheese.

Butter & Cheese Association of Western Canada, Brantford, Ontario.—Cheese.

Manitoba Dairy Association, Winnipeg, Manitoba.—Cheese.

The Quebec Dairyman's Association, St. Hyacinthe, Quebec.—Cheese.

The Dairyman's Association of Prince Edward Island, Charlottetown, Prince Edward Island.—Cheese.

The British Columbia Dairyman's Association, Duncan, British Columbia—Cheese.

Anglo-Canadian Produce, Ltd., 70 Victoria Street, Liverpool.—Cheese.

The Brome County Cheese Association, Knowlton, Quebec.—Cheese.

The Ontario Bee Keepers' Association, Streetsville, Ontario.—Extracted and Comb Honey.

Cummer, D. N., Florence, Ontario.—Honey.

Hall, J. B., Woodstock, Ontario.—Honey.

Wood, George, Erasmus, Ontario.—Honey.

Sibbald, N. G., Cooksville, Ontario.—Honey.

Miller, F. G., London, Ontario—Honey.

Calder, John W., Lancaster, Ontario.—Honey.

Gemmill, F. A., Stratford, Ontario.—Honey.

Harris, George, & Son, Dungannon, Ontario.—Honey.

Gauvreau, Dr. L., Charlesbourg, Quebec.—Honey.

Dominion of Canada, Hon. Sydney Fisher, Minister of Agriculture, Ottawa.—Honey.

Experimental Farm, Brandon, Manitoba.—Honey.

Gatley, Josiah, Austin, Manitoba.—Honey.

M'Evoy, Wm., Woodburn, Ontario.—Honey.

Peloquin, C. N., St. Hyacinthe, Ontario.—Honey.

Star Manufacturing Company, Ltd., Halifax, Nova Scotia.—Ice Skates.

The Lake of the Woods Milling Co., Ltd., Winnipeg, Manitoba.—Flour.

Steinmiller, Jacob, Walkerton, Ontario.—Flour.

Vogan, Son & Co., Walkerton, Ontario.—Flour.

Innes, James, Hartney, Manitoba.—Flour.

Martin Bros., Mount Forest, Ontario.—Oatmeal.

Thomson, Walter, Mitchell, Ontario (M'Kinnon & M'Donald, Agents, Glasgow).—Oatmeal.

Simcoe Canning Co., Simcoe, Ontario.—Canned Goods.

St. Charles Condensing Co., Ingersoll, Ontario (Hannan, Watson, & Co., Agents, Glasgow).—Evaporated Cream.

Miller & Co., Trenton, Ontario.—Canned Goods.

Truro Condensed Milk and Canning Company, Truro, Nova Scotia.—Condensed Milk.

Boulter, W., & Sons, Picton, Ontario.—Canned Goods.

Brown Bros. & Co., Little Lepreaux, New Brunswick.—Canned Clams.

The British Columbia Salmon Association.—Canned Salmon.

Scott, D., Liverpool.—British Columbia Canned Salmon.

Ludwig Wurtzburg & Co., Halifax, Nova Scotia.—Preserved Lobster Meat.

Davies, The William, Company Ltd., Toronto, Ontario. English Address J. Wheeler Bennett & Co., Hibernia Chambers, London Bridge, London, S.E.—Canned Meats and Bacon. M. O. White, Agent, Glasgow.

Hamilton, J. S., & Co. Brantford, Ontario.—Wines.

Dominion of Canada, Geological Survey Department, Ottawa, Ontario.—Mineral products of Canada generally. Geological maps, reports and other publications. Photos, Models, Mining Machinery, and processes connected with Mining and Metallurgy.

Bureau of Mines of the Province of Ontario, A. Blue, Esq., Director, Toronto, Ontario.—Minerals of Ontario, etc.

Department of Colonization and Mines of the Province of Quebec, Hon. A. Turgeon, Minister. J. Obalski, Inspector, Quebec, Ontario.—Minerals of Quebec, etc.

Department of Mines of British Columbia, Hon. J. Fred Hume, Minister. W. F. Robertson, Mineralogist, Victoria, British Columbia.—Minerals of British Columbia, etc.

Department of Public Works and Mines of Nova Scotia, Hon. C. E. Church, Commissioner. E. Gilpin, Department Commissioner, Halifax, Nova Scotia.—Minerals of Nova Scotia, etc.

The Canadian Smelting Works, Trail, British Columbia.—Matte and Furnace Products.

The Hall Mines, Ltd., Nelson, British Columbia.—Matte, Bullion, and Furnace Products.

The Lake Superior Power Company, Sault Ste. Marie, Ontario.—Nickel Ore and Products.

The Union Colliery Company of British Columbia, Ltd.—Coal and Coke.

The Canada Paint Company, Montreal, Quebec.—Powdered Ores and Paints.

The Crow's Nest Pass Coal Company, Fernie, British Columbia.—Coal and Coke.

Bell's Asbestos Company, Thetford, Quebec.—Asbestos and Asbestic.

The Mica Boiler Covering Company, Toronto, Ontario.—Mica Boiler and Pipe Covering.

The Walker Mining Company, Buckingham, Quebec.—Graphite and Manufactures of Graphite.

Milton Pressed Brick Company, Ltd., Milton, Ontario.—Pressed Brick and Terra Cotta.

M'Donald, Wm., Dawson City.—Klondike Gold Nugget.

Treadgold, A. N. C., Dawson City.—Klondike Gold Nuggets.

Canadian Bank of Commerce, Toronto.—Thirty-eight Specimens Placer Gold from Yukon and Atlin Goldfields.

Brunette, Joseph, Notre Dames des Neiges, Montreal, Quebec.—Graphite Statue.

Milne, Coutts & Co. Ltd., St. George, New Brunswick.—Red Granite Monument.

M'Corkle, Fred T., Welsford, New Brunswick.—Red Granite.

The Windsor Salt Company, Ltd., Windsor, Ontario.—Salt.

The Canada Iron Furnace Company, Ltd., of Montreal, Montreal, Quebec.—Canadian Charcoal, Ores, and Metals.

Albert Manufacturing Company, Hillsborough, New Brunswick.—Gypsum Plaster.

The Mac Machine Company, Ltd., Belleville, Ontario.—Peerless Rock Drill.

Keystone Graphite Company, Grenville, Quebec.—Graphite.

Imperial Oil Company, Ltd., Sarnia, Ontario.—52 Specimens of Crude and Refined Oil, also Specimens of Wax.

Blackburn Brothers, 62 Sussex Street, Ottawa, Ontario.—Mica, Crystal and Cut, Thumb and Knife Trimmer, samples of Mica and associated Phosphate of Felspar.

The Canada Copper Co., Sudbury, Ontario.—Specimens of Nickel Ores, and samples of Standard Bessemer Matter.

Tait, W. G., Pictou, Nova Scotia.—Manganese Ore.

Nova Scotia Steel Company, Pictou, Nova Scotia.—Iron Ore, Pig Iron, Steel, etc.

Crow's Nest Pass Coal Company, Fernie, B.C.—Coal and Coke.

Owen Sound Portland Cement Company, Shallow Lake, Ontario.—Cement.

Lunehouse Cement Works, Toronto Lime Company, Toronto, Ontario.—Cement.

Thorold Cement Company, Thorold, Ontario.—Cement.

Queenstown Cement Works, Queenstown, Ontario.—Cement.

Portland Cement Company, British Columbia, Vancouver, B.C.—Portland Cement.

Read, Joseph, & Company, Stonehaven, B.C.—Grindstones.

Van Anda Copper and Gold Company, Texada, B.C.—Copper Ore and Smelter products.

Monitor and Ajax Fraction, Ltd., 3 King Street, Cheapside, London, E.C.—Specimens of Silver and Lead Ore.

Canada Corundum Company, Ltd., Toronto, Ontario.—Corundum.

Davidson, Thos., Manufacturing Company, Ltd., Montreal, Quebec.—Enamelled Steel Ware.

M'Clary Manufacturing Company, Ltd., London, Ontario.—Enamelled Ware and Tinned Ware.

Dominion Safe and Steel Range Works, Montreal, Quebec.—Fireproof Safes.

The Watson Foster Company, Ltd., Montreal, Quebec.—Wall Paper.

Preston Furniture Company, Preston, Ontario (English Agent—J. A. Nones, 5 Bradford Avenue, Redcross Street, London, E.C.).—Office Furniture.

Canada Furniture Manufacturers, Ltd., Toronto, Ontario.—Household Furniture.

Malcolm, Andrew, Kincardine, Ontario.—Household and Office Furniture.

The Globe Furniture Company, Ltd., Walkerville, Ontario.—Office and Church Furniture, Mantels, etc.

Ives, H. R., & Co., Montreal, Quebec.—Iron and Brass Beds.

Rogers, The Chas., & Sons Company, Ltd., Toronto.—Dining-Room Furniture.

The North American Bent Chair Company, Ltd., Owen Sound, Ontario (T. A. Lightbody & Co., Agents, 8 Gordon Street, Glasgow).—Chairs.

Snider, John B., Waterloo, Ontario.—Office Desks.

Doherty, W., & Co., Clinton, Ontario (W. W. Clarry. Liscard, Cheshire, Agent).—Organs and Pianos.

Bell Organ & Piano Company, Ltd., Guelph, Ontario.—Organs and Pianos.

Goderich Organ Company, Goderich, Ontario (C. E. Hale, St. Bedes, Broughton, Peebleshire, Agent).—Organs and Pianos.

Thomas Organ & Piano Company, Woodstock, Ontario.—Pianos, Organs, and Stools.

Stevenson, Blackadder & Co., Montreal, Quebec.—Cotton Goods.

Rosamond Woollen Company, Almonte, Ontario.—Woollen Goods.

The Merchants' Dyeing & Finishing Company, Toronto, Ontario.—Specimens of Dress Fabrics and Japanese Silks.

Agnes B. Brodie, Quebec.—Art Needlework and Lace.

The Corticelli Silk Company, St Johns, Quebec.—Silk Goods.

The Canadian Fur Company, Montreal, Quebec.—Raw Fur and Fur Garments.

Marsh, Wm. A., & Co., Ltd., Quebec.—Boots and Shoes.

King, J. D., & Co., Ltd., Toronto, Ontario.—Boots and Shoes.

Bell, J. & T., Montreal, Quebec.—Boots and Shoes.

The Berlin Rubber Manufacturing Co., Berlin, Ontario.—Rubber Foot Wear.

Canadian Rubber Company, Rubber Foot Wear.

National Council of Women—Books entitled, "Women of Canada."

M'Laren, D. K., & Co., Montreal, Quebec.—Leather Belting.

Lamontagne, H., & Co., Montreal, Quebec.—Harness, Trunks, Valises, etc.

Bickell & Wickett, Toronto, Ontario.—Upper Leathers.

Breithaupt Leather Company, Ltd., Berlin, Ontario.—Sole Leathers.

Hamilton Oak-Tanning Company, Ltd., Hamilton, Ontario.—Oak-Tanned Sole and Belting Leather, etc.

Lyman, Sons, & Co., Montreal, Quebec.—Perfumes and Toilet Preparations.

CANADIAN BUILDINGS.

Central Experimental Farm, Ottawa.—Tobacco Leaf, Wool, Flax, etc.

Canadian Pacific Railway Company, Montreal, Quebec.—Photographs and Pictures along the Line of their Railway.

Grand Trunk Railway Company, Montreal, Quebec.—Photographs and Pictures along the line of their Railway.

Dodge Manufacturing Company of Toronto, Ltd., Toronto, Ontario (G. W. Fletcher, Queen Street, Glasgow, Agent).—Pulleys.

Canada Carriage Company, Brockville, Ontario.—Carriages.

Scott, R., & Sons, Galt, Ontario.—Wheels, Spokes and Hubs.

M'Laughlin Carriage Company, Oshawa, Ontario.—Carriages.

Armstrong, J. B., Manufacturing Company, Ltd., Guelph, Ontario.—Carriages.

Clarksburg Wood Rim Company, Ltd., Clarksburg, Ontario.—Wood Rims for Bicycles.

R. W. Sampson, Quebec.—Patent Ball-Bearing Puncture Closer.

The Boston Wood Rim Company, Toronto, Ontario.—Wood Rims for Bicycles.

Peterboro' Canoe Company, Peterboro', Ontario.—Canoes.

Strickland & Co., Lakefield, Ontario. (English Agent—G. Strickland, West Drayton, Middlesex).—Canoes.

English, William, Canoe Company, Peterboro', Ontario.—Canoes.

Massey Harris Company, Ltd., Toronto, Ontario, and 35 Bundhill Row, London, E.C., England.—Agricultural Implements.

Cockshutt Plow Co., Ltd., Brantford, Ontario.—Ploughs.

Maxwell, David, & Sons, St. Mary's, Ontario.—Agricultural Implements.

The Verity Plow Co., Ltd., Brantford, Ontario.—Ploughs.

Noxon Co., Ltd., Ingersoll, Ontario, and 81 Bunhill Row, London, E.C.—Agricultural Machinery.

The Frost & Wood Co., Ltd., Smith's Falls, Ontario.—Agricultural Implements.

James Bros. Foundry Co., Perth, Ontario.—Ploughs.

The Dominion of Canada.—A collective exhibit of Cereals and Forage Plants, contributed by 250 farmers of Canada.

Maxwell, David, & Sons, St. Mary, Ontario.—Lawn Mowers.

Smart, The Jas., Manufacturing Company, Ltd., Brockville, Ontario.—Lawn Mowers, Carpet Sweepers, Ice Boxes, Heating Appliances, Edge Tools, etc.

Dominion of Canada, Central Experimental Farm.—Samples of Vegetables in Solution.

Dominion of Canada, Hon. S. A. Fisher, Minister of Agriculture.—Exhibits of Fruit in Solution, and Fresh Fruit preserved in cold storage, contributed by 150 Fruit Growers in Canada.

Dominion of Canada, Geological Survey, Ottawa.—Photographs of Trees, 60 Specimens Cut and Polished Wood.

Province of British Columbia, Victoria, British Columbia.—Specimens of Timber.

Province of Manitoba, Winnipeg, Manitoba.—Specimens of Timber.

Province of Quebec, Quebec.—Specimen of Timber.

Edwards, W. C., Company, Ltd., Ottawa, Ontario.—Parqueterie Flooring, Deals, and Materials for Sashes and Doors, Mantels, etc.

The Canadian Office & School Furniture Company, Ltd., Preston, Ontario.—Polished Hard Wood Panels.

Marcon, W. H., Parry Sound, Ontario.—Cloth Boards and Veneers.

Ker & Harcourt, Parry Sound, Ontario.—Spools, Bobbins, Turned Boxes, etc.

Groat, John H., & Co., Grimsby, Ontario.—Fruit Baskets, Boxes, and Walnut Veneer.

Lachute Shuttle Company, Lachute, Quebec.—Spools, Bobbins, etc.

The British American Timber & Manufacturing Company, Kearney, Ontario.—Birch Deals.

Joly de Lotbiniere, Sir Henry, Quebec.—Sections of Walnut Trees, polished.

Beck, Adam, London, Ontario.—Cigar Boxes and Cigar Box Stock, also Oak Flooring.

The Columbia Handle & Lumber Company, St. Thomas, Ontario (Lindsay & Campbell, Broomielaw, Glasgow, Agents).—Hockey Sticks, Golf Clubs, and Wood Specialties.

Harrison, John, & Co., Owen Sound, Ontario.—Butchers' Skewers, etc.

Hawkesbury Lumber Company, Ltd., Hawkesbury, Ontario.—Square Timbers, Deals, Section Sawlogs.

Reid, Colin, Jr., & Bros., Bothwell, Ontario.—Lumber and Turned Goods.

Still, J. H., St. Thomas, Ontario.—Handles and Whiffle Tins.

Dominion of Canada, Ottawa, Ontario.—Collection of Woods of Canada.

North American Bent Chair Company, Owen Sound, Ontario.—Products of the Forest and Forest Industries.

Findlay, J. S., Owen Sound, Ontario.—Wood Specialties; Maple Rollers and Blocks.

The Sutherland Innes Company, Ltd., Chatham, Ontario.—Staves, Hoops, Beadings.

Taylor, Scott & Co., Toronto, Ontario.—Brooms, Whisks, Washboards, etc.

Simms, T. S., & Co., Ltd., St. John, New Brunswick.—Corn Brooms.

Dobell, Beckett & Co., Quebec.—Specimens of Canadian Timber.

Heard, John, & Co., St. Thomas, Ontario.—Specimens of Canadian Timber.

Gilmour & Co., Canoe Lake Mills, Ontario.—Specimens of Canadian Timber.

Menier, Henri, Paris, France.—Sections of Trees and Deals from Anticosti.

Dominion of Canada, Department of Marine Fisheries, Hon. L. H. Davies, Minister of Marine Fisheries, Ottawa.—Mammals, Birds and Water Birds' Eggs.

Perrett, John, Sherbrooke, Quebec.—Collection of Birds and Mammals, Mounted.

Egan, Thos. E., P.O. Box 145, Halifax, N.S.—Mounted Canadian Birds.

Atkinson, George E., Portage La Prairie, Manitoba—Mounted Birds and Heads.

Province of Quebec, Department of Agriculture, Hon. F. G. M. Dechene, Minister, Quebec.—Mounted Mammals.

Calder, Alexander, 660 Main Street, Winnipeg, Manitoba.—Mounted Birds and Mammal Heads.

Dominion of Canada, Hon. L. H. Davies, Minister of Marine Fisheries, Ottawa.—Mounted Fishes and Crustaceans; Marine Vertebrates and Small Fishes, displayed in a series of trays; Shells of Lamellibranchs; Echinoderms, etc.; Models of Canoes and Fishing Gear.

Metallic Roofing Company of Canada, Dufferin Street, Toronto.—Embossed Steel Ceiling and Wall Plates.

Paquette, Joseph, Montreal, Quebec.—Ornamental Joinery.

The M'Clary Manufacturing Company, London, Ontario.—Stoves and Ranges.

Nova Scotia Wood Pulp and Paper Co., Halifax, N.S.—Wood Pulp.

Sault Ste. Marie Pulp & Paper Company, Saulte Ste. Marie, Ontario.—Paper and Pulp.

Lake Megantic Pulp Company, Lake Megantic, Quebec.—Pulp.

Laurentide Pulp Company, Ltd., Grande-Mere, Quebec.—Paper and Pulp.

Toronto Lithographic Company, Toronto, Ontario.—Specimens of Lithographic Work.

Ewing, Wm., & Co., Montreal, Quebec.—Horticultural Tools and Seeds.

Spramotor Company, Ltd., Ontario.—Fruit Tree Sprayers.

Montreal Rolling Mills Company, Montreal, Quebec.—Nuts, Bolts, Pipe, Nails, etc.

IN THE GROUNDS.

Ontario Wind Engine & Pump Company, Ltd., Toronto, Ontario.—Wind Mills.

Goold, Shapely & Muir Company, Ltd., Brantford, Ontario.—Wind Mills and Flag Staffs.

QUEENSLAND MINERAL COURT.

INDUSTRIAL HALL—SOUTH-EAST COURTS.

SUMMARY OF PRINCIPAL EXHIBITS.

THIS Court has been erected by the Department of Mines, State of Queensland, Australia, and is intended to show bulk exhibits of the varied mineral products of this young State.

It is situated in the south-east corner of the Industrial Hall, and runs parallel with Gray Street and Sandyford Street, occupying over 6000 feet of space, and having, as warranted by the Exhibition authorities, a frontage on all sides to four main passages.

Visitors alighting from the electric cars proceeding by Sandyford Street will find this prettily designed and tastefully decorated Court most readily from the Gray Street entrance. From this point it is approached in a few feet from the turnstiles, and is immediately noticeable on the left by the large and handsome gold columns and arches that completely surround the Court.

From the main entrance in Sandyford Street visitors will at once discover it by turning to the right and walking down the main avenue nearest to and parallel with Sandyford Street, where, in front of them, in large letters, may be seen the word "Queensland."

As may naturally be looked for in almost a purely mineral Court, the principal exhibits are specimens or samples in bulk of almost all the royal and base metals and minerals won from the land in the State of Queensland. These are shown in a variety of glass cases and stands, especially designed to demonstrate not only the richness and beauty of the samples themselves but by the order in which the matrix of all the metals are classified to be a valuable educational exhibit especially to the young of Glasgow.

The cases themselves, situated as they are in various parts of the Court, and placed with artistic taste on red carpet, and surrounded by palms indigenous to the State of Queensland, present a pretty sight; and when in addition visitors inspect the contents, they must be impressed not only with their beauty, richness, and value, bnt also with the great variety of minerals this particular State is capable of producing.

There are gold specimens, alluvial and quartz, and samples of rich gold-bearing quartz, estimated to be worth at least £15,000 sterling. Then there are precious stones, consisting of opals, sapphires, zircons, topazes, and crystals, worth £2000, and at the end of the Court nearest the dome of the Industrial Hall will be found a lapidary at work on the precious stones, fitting them for the jewellery of commerce. On the opposite corner the working of Queensland Crystals is being carried on by an expert in that art.

In other cases will be found the replicas of cakes of retorted gold and bars of melted and refined gold, the originals of which weighed almost 17,000 ounces, and were recently sold in London for about £60,000, after a long exhibition there.

In the centre of the Court is a golden obelisk which contains 864 cubic feet, and represents the output of this one State of the new Commonwealth, of the value of over fifty millions sterling. On this obelisk are shown the principal gold-producing

fields—Charters Towers, Gympie, Rockhampton (which includes the world-famed mountain of gold, Mount Morgan), Croydon, Etheridge, Ravenswood, Palmer, and Clermont.

There are, in addition, four minor obelisks, to indicate the productive power of Queensland in base metals. All these obelisks have at their bases samples in bulk of the ores of the various metals.

A special mineral attraction is the uniquely designed Mercury Fountain, which being supplied with a charge of three tons of quicksilver, largely produced from the Cinnabar Mines of Queensland, shows to the wondering gaze a metal flowing like water, and yet withal so heavy in itself as to carry on its surface large pieces or weights of iron, which may be seen floating in the basin of the fountain.

Close to this is an interesting model of a complete crushing plant. This, driven by electricity, and with its tiny stampers pounding away at the hard quartz, and with its silver-lined plates saving and amalgamating the gold, may be found carrying on its work just as the larger sized plant does in actual mining. Again, on the other side of the Court, may be seen in full work a pithead frame with all safety gear appliances, in fact, everything as used in any mine, but on a smaller scale.

Both these last exhibits come from Messrs. Edward Chester & Co., of Renfrew. The three are a great attraction. There is also a fine display of tools used in mining, including rock drills and working models of mining machinery.

A pearl shell trophy is erected at the west exit of the Court, to illustrate the value and importance of this product. An interesting and unique exhibit will be found in another shell made of cedar and intended for presentation to General Baden-Powell. It contains a look-out door, and in a recess has a bar of pure gold, sent by the gold miners of Croydon to indicate their opinion of the distinguished service to the Empire of this brave soldier.

Two enormous pieces of pure metallic copper, weighing over a ton each, and won from the earth in their present form, are objects of interest to the curious, and also a scientific curiosity in the shape of the door of a pump as it now appears after twenty years' submersion in a copper mine.

There are some articles as well evidencing the other principal products of Queensland, especially wool and timber, and a model of a newly designed suction dredger, the "Samson" (designed by Mr. Lindon Bates), lately erected at Newcastle-on-Tyne, tried in the Suez Canal successfully, and now, with its 5000 H.P., pursuing its regular work in the harbours and rivers of Queensland.

A detailed descriptive Catalogue of the several exhibits of this Court is being prepared, and may shortly be obtained gratis from the attendants.

The Court is under the direct management of a Queensland Government officer, Mr. George Randall, who has for his assistant Mr. George W. Cornish, of London.

For the information of all who desire to know more about the products and prospects of Queensland, either the official representative of the Government of Queensland in London, the Hon. Sir Horace Tozer, K.C.M.G., or in his necessary absence, Mr. C. S. Dicken, C.M.G., Secretary for Queensland, will remain in Glasgow, and may be found in the offices attached to this Court.

WESTERN AUSTRALIA.

INDUSTRIAL HALL—NORTH-WEST COURTS.

FOUNDED in the year 1829, comprising about one-third of the whole Continent, or, approximately, 624 million acres, it must be left to those who wish to follow the chequered existence of the Colony through her early career to do so from the works and writings of such men as Sir George Grey, Sir John Eyre, Sir John Forrest, and others. Suffice it to say that the incidents in the lives of the early settlers are a history of the pluck, endurance, and pertinacity of the race, comprised as Western Australia was, in her infancy, of colonists drawn from the best stock which could be found in Scotland, England, and Ireland; a fact which the names of the sons and grandsons of the early settlers testify to the present day. What chiefly concerns us for the moment, in a short retrospect such as the present, is the natural development which places Western Australia in the position in which we find her to-day. A comparison of the statistics for the years 1889 and 1899 shews that during the intervening 11 years the population had nearly quadrupled. The revenue increased from less than half a million sterling in the first mentioned year to over two and a-half millions in 1899. The imports and exports (combined) in 1889 stood at £1,579,519, whilst the total in 1899 was £11,459,174. Speaking generally, the upward course began with the finding of gold in the Kimberley district in the year 1884. Following history's precedent in Australia generally, mineral discoveries have been the means of bringing Western Australia into prominence before the world. The discovery above referred to drew to her shores some thousands of men whose lives had been spent in searching and mining for the precious minerals. In the far-off region of Kimberley, surrounded by almost insuperable difficulties, and far removed from the base of operations, these early gold seekers, in a then unexplored region, scattered themselves throughout the southern districts of the colony in search of gold. In rapid succession fresh fields were found by them and others, following in their steps, until to-day there are no less than 19 distinct goldfields, including those at Coolgardie, Kalgoorlie, Menzies, Peak Hill, and Murchison; while the exhibits in the Mineral Court at this great Exhibition bear eloquent witness to the richness of her ores and the diverse forms in which nature sees fit to deposit her riches.

It may not be out of place to say here that 180 tons of gold, representing a money value of £22,487,000, have already been unearthed. At the same time it may be added that the present average monthly product amounts to about 4½ tons avoirdupois; this, when minted, would make sovereigns which, if they could only be placed in a pile one on top of another, would reach two-thirds as high as Ben Nevis, or over 2,700 feet. Much might be said of the almost unlimited area over which gold is found, the excitement of the search for fresh deposits, and of the sensational nature of the discoveries made in the past—which are in every case the absolute property of the lucky finder, the only charge being a Government fee of 10s. for a permit, or Miner's Right—but limited space admits only of a bare statement of facts.

Another great inheritance the colonist possesses is the huge forests of timbers, which for certain purposes are perhaps the best that are known to the world. Jarrah and Karri (and again the enquirer is asked to satisfy himself by personal observation at the Timber Section of the Court) are suitable for a multiplicity of purposes. Wagons, wheels, and wood-carving represent but instances of the many purposes to which they can be put.

For street paving blocks, it is claimed that these timbers have no rival, while for work where endurance and resistance against the attacks of destructive insects are matters of first importance, such as jetties, wharves, and dock-work, Jarrah stands out pre eminently.

Agriculture should have a special interest for the thrifty Scotch farmer, and to him the advice is given to go to the Court and see for himself if better cereals can be grown than those which won a grand prize in Paris, and which, to be raised in huge quantities, only require willing hands and a moderate amount of capital.

Pearls and Pearl Shell, Copper, Tin, Diamonds, and many of the valuable lesser known minerals, as well as Wool and Wine, all are represented among the Western Australian products in the colony's Court.

The Western Australian exhibits are arranged in four groups, three in the south-western corner of the Industrial Hall, and one outside on the western bank of the Kelvin. Throghout the Court in the Industrial Hall are hung seven hundred large photographs illustrating the various industries and depicting views of the towns, with the principal public buildings, and representative country scenes.

GROUP A.

is devoted to Minerals, and comprises a magnificent collection of alluvial gold and nuggets found by the lucky prospectors. There are also very valuable collections lent by all the larger and more important mining companies in the colony, showing many thousands of pounds worth of telluride of gold and reef gold in all its variety of form. These are exhibited in cases made of the celebrated Karri and Jarrah woods, of which more hereafter. A gilded globe represents the total amount of gold produced in the colony from the year 1886 to 31st December, 1900, viz., 181 tons, of the value of £22,491,994. There are also samples showing the wealth of the State in Copper, Tin, Iron, Lead, Antimony, etc. ; while magnificent blocks of Coal prove that in this valuable mineral alone Western Australia has a store of wealth.

Maps and photographs of the different mines and mining centres throughout the colony adorn the walls throughout.

GROUP B.

is principally devoted to Agricultural, Viticultural, and various other Products. The Wheat, Oats. Barley, Rye, Maize, Peas, etc., which grow to such perfection in the Midland and South-Western districts of the colony, are displayed in sheaf and bulk and in small open troughs for close inspection. With these are grouped samples of soils from the different districts, with analyses made by the Department of Agriculture. Bulk samples of Guano from the Abrolhos Islands are also shown.

Manufactured or prepared food stuffs, such as Dried Fruits, Preserves, Flour, and Honey, are in this group, while Olive and Eucalyptus Oils, Soaps, and Candles, and by no means the least valuable of the colony's products, Wool, are also well displayed. In this group too is a large exhibit of Wines produced in the colony, as well as a trophy representing the Pearl Shell Fisheries and the by-products pertaining to the same.

A room has been fitted up in this portion of the Court for visitors wishing to see the various Australian papers.

GROUP C.

is devoted to Forestry and the various products of the timber industries. Joiners' and Cabinetmakers' Work, such as Staircase Material, Inlaid Work, Parquetry, Specimens of Wood-Carving, Flooring, and samples of the various woods put to their industrial uses. Some striking examples of the great durability of the woods are shown where damp and destructive insects have been encountered. Paintings and a large collection of photographs illustrate the wild flowers of Western Australia, which are renowned for their beauty and variety.

GROUP D.

is situated in the grounds, and is also devoted to Forestry. Here are exhibited several immense tree trunks (ranging from 8′ in diameter to 2′ 6″) of gigantic trees, from which the immense timber resources of the colony are derived. A section of a railway bridge in Jarrah, three railway waggons in Karri, railway sleepers for various gauges, large sizes of timber for harbour and bridgework, and blocks for street paving in Jarrah and Karri. Not the least interesting exhibit here is an Ornamental Pavilion or Summer House, artistically designed, constructed of Jarrah.

In conclusion it may be added seeing is believing, and should the reader enquire of the attendants at the Western Australian Section he will be supplied not only with optical demonstration which should convince even the most sceptical that Western Australia is a land of great possibilities, he will further be handed, gratis, statistical matter and illustrated books which will shew him that, as regards climate, scenery, comfort in living, etc., there are few more favoured places than the colony of Western Australia.

RHODESIA.

INDUSTRIAL HALL—SOUTH-EAST COURTS.

RHODESIA comprises an area of 750,000 square miles, and is under the administration of The British South Africa Company. Northern Rhodesia includes the territories north of the Zambesi and south of Lake Tanganyika, which lie between Portuguese, Congo Free State, and German East Africa. Southern Rhodesia includes Mashonaland and Matabeleland, which lie to the north of the Transvaal Colony.

In 1855 Dr. Livingstone discovered the Victoria Falls on the Zambesi River. In 1888 Lobengula, King of the Matabele, entered into a treaty of peace with the British Government, and later granted mineral rights in Mashonaland to Messrs. Rudd, Maguire, and Thompson, acting on behalf of Mr. Rhodes; and, in 1889, the British South Africa Company was granted a Royal Charter entrusting it with the development of the extensive regions lying to the south of the Zambesi, and then known as Mashonaland, and the Pioneer Expedition took possession in 1890. Owing to the murderous raids of the Matabele their capital at Bulawayo was occupied by the Company's forces on the 4th Nov., 1893, and in January, 1894, Matabeleland came under the civil government of the Company. In 1896 the Matabele and Mashonas broke into rebellion, and, after a long struggle, order was established.

The railway from Cape Town to Bulawayo was opened on the 4th Nov., 1897, while the line from the port of Beira to Salisbury was opened on the 1st May, 1899. Further lines of railway are now under construction, *i.e.*, Bulawayo to Gwelo and Salisbury; Bulawayo to Gwanda; and Bulawayo to Victoria Falls. These lines, and others under consideration, will connect the gold mines with the coal areas, tap valuable timber districts, and open up for settlement extensive tracts of country.

Rhodesia has been proved to be very rich in mineral resources, especially gold, copper, iron, and coal, which are found in many parts of the country.

GOLD MINING.

Gold Mining Companies actually milling,	16
Stamps erected,	269
Stamps in course of erection and on order,	240
Cyanide Plants erected and on order,	12
Total Gold Claims pegged and registered (September, 1900),	114,814
Number of Gold Mining Companies,	224
Amount of Gold won to March, 1901, in ounces,	218,832

PROGRESSIVE GOLD OUTPUT.

	Ozs.	Dwts.
November, 1891—July, 1898,	6,470	13
July, 1898—December, 1898,	18,112	4
January, 1899—December, 1899,	65,303	13
January, 1900—December, 1900,	91,640	1

	Ozs.
January, 1901,	10,787
February, "	12,237
March, "	14,289
April, "	14,998

Total for Four Months of 1901, 52,311 ounces.

COAL IN RHODESIA.

Very extensive Coal Fields are in the Valleys of the Zambesi. In 1902-3 these immense Coal areas will be connected with the Gold Fields by a Railway now under construction, the supply of Coal considerably reducing the expenses of working the Gold Mines. The Coal from Wankie's District is of proved good quality, and adapted for steam purposes. Coal is also found in large areas at Tuli, which are now being tapped by a Railway far advanced in construction, also in Mafungabusi, also to be tapped by another Railway now under construction; and in Sebungwe, and also west of Victoria, and in other localities of Rhodesia.

GOLD MINING EXHIBITS.

1 Case of Quartz, shewing visible Gold from the following properties in Rhodesia:—

GLOBE AND PHOENIX GOLD MINE.
REZENDE GOLD MINE.
DOBIE MINE.
TIGER REEF.
GOLDEN WEST.

Also Gold obtained from Rhodesia by the British South Africa Company. (*a*), Amalgam; (*b*), Retorted Gold, and (*c*), Bar of Gold.

2 Case of Model Gold Ingots, shewing in bulk the progressive gold output—218,832 ounces to March, 1901.

3 Case of Gold Quartz, some shewing gold, exhibited by Rhodesia, Limited, Bulawayo.

SABIWA GOLD MINE.
NORTHALLERTON GOLD MINE.
ENDOPIE REEF.
UNKNOWN REEF.
RHINO REEF.
ROYAL SOMERSET REEF.
COMING EVENT REEF.
PEREGRINE REEF.

4 Case of Gold Quartz, from the AYRSHIRE MINE, exhibited by the Ayrshire Gold Mine & Lomaghunda Railway Company, Ltd.

5 Case of Gold Quartz, exhibited by the MATABELE MINES, Ltd., from the

EAGLE-VULTURE GOLD MINE.
WEST NICHOLSON GOLD MINE.
GEELONG GOLD MINE.
ANTENIOR GOLD MINE.

6 Case of Gold Quartz (from the GLOBE AND PHOENIX GOLD MINE) exhibited by the Globe and Phoenix Gold Mining Company, Ltd.

7 Gold Quartz, from the DUNRAVEN GOLD MINE, Selukwe (Dunraven Gold Mining Company, Ltd.).

8 Gold Quartz, from the SURPRISE GOLD MINE, Selukwe (Surprise Gold Mining Company, Ltd.).

9 Gold Quartz from the BONSOR GOLD MINE, Selukwe (Bonsor Gold Mining Company, Ltd.).

10 Gold Quartz, from the TEBEKWE GOLD MINE (Selukwe Gold Mining Company, Ltd.).

11 Gold Quartz from the ANTENIOR GOLD MINE, Gwanda, exhibited by the Antenior (Matabele) Gold Mines, Ltd.

12 Gold Quartz, from the REZENDE GOLD MINE, Manicaland, exhibited by the Rezende, Ltd.

13 Gold Quartz, from the OLD NICK GOLD MINE, Bulawayo District, exhibited by The Charterland Goldfields, Ltd.

14 Gold Quartz, from the MATABELE SHEBA GOLD MINE, Makukukupane, exhibited by The Matabele Sheba Gold Mining Company, Ltd.

15 Gold Quartz, from the MORVEN GOLD MINE, Bembesi, exhibited by the Morven Gold Mining Company, Ltd.

16 Gold Quartz, from the IMANI GOLD MINE, Gwanda, exhibited by the V. V. Gwanda Syndicate, Ltd.

17 Gold Quartz, from the KAMEEL GOLD MINE, Gwanda, exhibited by the V. V. Gwanda Syndicate, Ltd.

18 Gold Quartz, from the JACKAL GOLD MINE, Gwanda, exhibited by the V. V. Gwanda, Syndicate, Ltd.

19 Gold Quartz, from the AUSTRALIAN REEF, Gwanda, exhibited by the V. V. Gwanda, Syndicate.

20 Gold Quartz, from GATLING HILL MINE, Belingwe, exhibited by Rhodesia Exploration and Development Company, Ltd.

21 Gold Quartz, from CHICAGO GAIKA GOLD MINE, Gwelo District, exhibited by Chicago Gaika Development Company, Ltd.

22 Gold Quartz, from KILLARNEY, FILABUSI, exhibited by Killarney and Hibernia Development Company, Ltd.

23 Gold Quartz, from HIBERNIA, Filabusi, exhibited by Killarney and Hibernia Development Company, Ltd.

24 Gold Quartz, from the NELLIE AND PIONEER. Insiza, exhibited by the Nelly and Pioneer Reef Gold Mining Company, Ltd.

25 Gold Quartz, from the MOONIE CREEK, Selukwe, exhibited by the Moonie Creek Development Company, Ltd.

26 Gold Quartz, from the CONFIDENCE, Belingwe, exhibited by the Confidence Reef Development Company, Ltd.

27 Gold Quartz from WANDERERS' REST, Belingwe, exhibited by Consolidated Belingwe Development Company, Ltd.

28 Gold Quartz, from RED AND WHITE ROSE GOLD MINE, exhibited by Red and White Rose Gold Mining Company, Ltd.

29 Gold Quartz, from MAZEPPA MINE, Gwanda, exhibited by Gwanda Mines, Ltd.

30 Gold Quartz, from GLOW-WORM, Selukwe, exhibited by the Matabele Proprietary Mines, Ltd.

31 Gold Quartz, from CAMPERDOWN, Selukwe, exhibited by the Matabele Proprietary Mines, Ltd.

32 Gold Quartz, from LITTLE WANDERER GOLD MINE, Selukwe, exhibited by Wanderer (Selukwe) Gold Mining Company, Ltd.

33 Gold Quartz, from PIPER'S REEF, Bulawayo District, exhibited by Rhodesia Mining and Finance Company, Ltd.

34 Gold Quartz, from the MARLBOROUGH, Bulawayo District, exhibited by Rhodesia Mining and Finance Company, Ltd.

35 Gold Quartz, from BUSHMAN REEF, Bulawayo District, exhibited by Bulawayo Consolidated Goldfields, Ltd.

FACTORIES—
DUBLIN AND BELFAST.

SCOTCH DEPOT—
SURREY ST., GLASGOW.

CANTRELL & COCHRANE

HAVE BEEN AWARDED
THIRTY-TWO GOLD AND PRIZE MEDALS
FOR THE PURITY AND EXCELLENCE OF THEIR
Royal Belfast Table Waters.
Families will please Order through their GROCERS, CHEMISTS, or WINE MERCHANTS.
SAME AS SUPPLIED TO H.R.H. THE PRINCE OF WALES.
F 2

36 Gold Quartz, from ELECTRIC REEF, Bulawayo, exhibited by the Bulawayo Exploration Company, Ltd.

37 Gold Quartz, from CHRISTMAS REEF, Bulawayo District, exhibited by The Goldfields of Victoria, Ltd.

38 Gold Quartz, from the CARELESS REEF, Bembesi, exhibited by the Bulawayo Consolidated Goldfields, Ltd.

39 Gold Quartz, from the BARBERTON REEF, Bembesi, exhibited by the Rhodesia and Finance Company, Ltd.

40 Gold Quartz, B.P. REEF and JUNO REEF Filabusi and Insiza Development Company, Ltd.

41 Gold Quartz, from GERTIE REEF, exhibited by Trevor's Exploration Company, Ltd.

42 Gold Quartz, from NAMAQUAH REEF, Ramaquaban, exhibited by Trevor's Exploration Company, Limited.

43 Gold Quartz, from VOUCHER REEF, Selukwe, exhibited by Rhodesia, Ltd.

44 Gold Quartz, from VERACITY GOLD MINE, Gwelo, exhibited by Crescens (Matabele) Mines and Land Company, Ltd.

45 Gold Quartz from SABI REEF, Belingwe, exhibited by Sabi (Rhodesia) Gold Mining Company, Limited.

46 Gold Quartz, from UNIT REEF, Sebakwe, exhibited by Empress Rhodesia Mines, Ltd.

47 Gold Quartz, from ADVENTURER'S REEF, Insiza, exhibited by Rhodesia Mining and Finance Company, Ltd.

48 Gold Quartz, from TRILBY REEF, Insiza, exhibited by Bulawayo Consolidated Goldfields, Ltd.

49 Gold Quartz, from GOLDEN WEST REEF, Bulawayo, exhibited by Mr. Advocate Russell.

50 Gold Quartz, from MONARCH GOLD MINE, Tati, exhibited by Tati Concessions.

51 Gold Quartz, from NEW PROSPECT REEF, Tati, exhibited by Tati Concessions.

52 Gold Quartz, from SELKIRK REEF, Tati, exhibited by Blue Jacket Syndicate.

53 Gold Quartz, from MAIN REEF. Umtali, exhibited by Scotia Syndicate, Ltd.

54 Gold Quartz, from BODLONFA GOLD MINE, Manicaland, exhibited by Vaughan-Williams Rhodesia Development Company, Ltd.

55 Gold Quartz, from ENTERPRISE REEF, Umfuli, exhibited by the Enterprise Gold Mining Company, Ltd.

Daily Record,

PUBLISHED IN

GLASGOW, EDINBURGH, GREENOCK, and PAISLEY.

LARGER CIRCULATION THROUGHOUT SCOTLAND THAN ANY OTHER MORNING OR EVENING NEWSPAPER.

CHARTERED ACCOUNTANTS' CERTIFICATE.

64 WEST REGENT STREET,

To the Proprietors of the Daily Record. *GLASGOW, 25th January, 1901.*

GENTLEMEN,—We have examined the books of the Daily Record for the years 1896, 1897, 1898, 1899, and 1900, and find that the Increase in Circulation in 1897 over that of 1896 was 2,890,308 Copies, that the Increase of 1898 over that of 1897 was 4,538,711 Copies, that the Increase of 1899 over that of 1898 was 3,361,188 Copies, and that the Increase of 1900 over that of 1899 was 4,101,969 Copies; the Increase of 1900 over that of 1896 thus being 14,892,176 Copies.

J. L. & T. L. SELKIRK, *Chartered Accountants.*

"DAILY RECORD" BUILDINGS, GLASGOW.

56 Gold Quartz, from GLANDARA REEF, Umfuli, exhibited by the Mashonaland Consolidated Development Company, Ltd.

57 Gold Quartz, from INEZ REEF, Hartley Hill, exhibited by the United Rhodesia Goldfields, Ltd.

58 Gold Quartz, from GRAND REEF, exhibited by Grand Reef, Ltd.

59 Gold Quartz, from ALICE PROPRIETARY GOLD MINE, exhibited by Alice Proprietary Mines (Rhodesia) Company, Ltd.

60 Case containing specimens of Gold Quartz, from over Sixty Gold Mining Properties in Rhodesia.

61 Plans of Gold Mines, Assay Charts, Assay Certificates, and Photographs of Mining Machinery, and Mining Camps.

COAL EXHIBITS.

62 Wankie's District, Matabeleland, per the Wankie (Rhodesia) Coal, Railway and Exploration Company, Ltd.

63 Assay Certificate of Wankie Coal.

64 Tuli, Matabeleland, per the Tuli Consolidated Coal Fields Company, Ltd.

65 Assay Certificates of Tuli Coal.

66 Sebungwe, Matabeleland, per Rhodesia Mining and Finance Co., Ltd.

67 Assay Certificate of Sebungwe Coal.

68 Coal from West of Victoria, Mashonaland.

COPPER EXHIBITS.

69 Case of Copper Ore from Kafukwe, Northern Rhodesia, exhibited by the Northern Copper (B.S.A.) Company, Ltd.

70 Case of Copper Ore from Mafungabusi, exhibited by Colenbrander's Matabeleland Development Company.

71 Copper Bar worked by natives; also Copper Articles made from Ore mined by natives in Southern Rhodesia.

OTHER MINERAL EXHIBITS.

72 Case of Iron Ore from ancient iron working on Seafield Farms, Matabeleland, exhibited by Rhodesia Mining and Finance Company, Ltd.

73 Magnetic Ironstone from Tuli, exhibited by Mr. A. J. C. Molyneux, Bulawayo.

THE CHICAGO TYPEWRITER.

AWARDED GOLD MEDAL PARIS EXHIBITION, 1900.



For Simplicity of Design, Excellence of Construction and Durability, it is without a Rival.

Price, £10 : 10 Nett Cash.

WM. LORIMER, 95 St. Vincent St., Glasgow.

74 Iron Ore from Bala-Bala, exhibited by Rhodesia Mining and Finance Company, Ltd.

75 Opal Matrix from Hardy Reef, near Bulawayo, exhibited by Mr. Hardy, Bulawayo.

PRODUCE EXHIBITS.

76 Tobacco (Leaf), grown near Bulawayo.

77 Tobacco (Cakes), grown at Inyoka.

78 Cotton grown near Bulawayo.

79 Rubber in Cakes and Balls.

80 Rubber Vine.

81 Root Rubber.

82 Tree Rubber.

83 Oats (Bundles), grown at Insiza.

84 Fibres (Matabeleland).

85 Amabele Corn.

86 Amabele Meal.

87 White Mealies.

88 Mealie Meal.

89 Inyauti Corn.

90 Inyauti Meal.

91 Mahogany Seeds and Pods.

92 Bags, Sacks, Blankets, Game Snares made of native fibres.

93 Photographs of growing crops, fruits, &c.

TIMBER EXHIBITS.

94 Sideboard, made of native timber. Also Occasional Table, Dumb-bells

95 Mahogany Planks, Sections, and Baulks.

96 Mopani and Hardwoods, in planks, sections and baulks.

The Glasgow Citizen

IS PAR EXCELLENCE THE EVENING PAPER OF SCOTLAND.

In addition to its great house-to-house delivery and City circulation, over **2,000** Parcels are daily sent to all parts of the Country.

THE UNDERNOTED STATISTICS OF ADVERTISEMENTS FOR YEAR 1900, ARE SELECTED AS BEING REPRESENTATIVE:—

Situations Vacant,	**113,650**	**Vehicles and Cycles,**	**19,564**
Houses and Premises,	**91,660**	**Lost and Found,**	**8,080**
Lodgings to Let,	**22,655**	**Church Notices,**	**8,099**

Cheap Prepaid Advertisements { 12 WORDS 6D., AND ½D. PER WORD THEREAFTER. 4 CONSECUTIVE INSERTIONS FOR THE PRICE OF 3.

IF YOU lose or find belongings, report to the police, and try a "Sixpenny Advt." The "CITIZEN" is the principal medium for these.

"Citizen" Buildings, St. Vincent Place, Glasgow, or District Branches.

STONE EXHIBITS.

97 Red and White Stone, variously dressed, from Quarries near Bulawayo. Exhibited by Messrs. Sherriff, and Messrs. Plowman, and Mr. S. Nicholson, Stone Masons, Bulawayo.

98 Block of Granite, with polished face, from near Bulawayo.

99 Case of Ancient Relics, from Ancient Ruins in Rhodesia, including—Gold Crucibles, Gold-plated Spear Head, Stone Hammers, Gold Beads and Wire, beaten Gold, Pottery Whorls, Flint.

100 Case of Mediæval Kafir Relics, found in Ancient Ruins in Rhodesia, including Copper Crucibles, Smelted Copper, Fused Arrow Heads, Pottery, Human Bones with Copper Bangles, Ivory and Pottery Heads, Copper and Brass Wire Work.

101 Large Collection of Photographs, representing Buildings, Victoria Falls, Native Life, Scenery.

102 Elephant's Skull, with Tusks, exhibited by Messrs. Looseley, Bulawayo.

103 Hippopotamus Skull, exhibited by Messrs. Looseley, Bulawayo.

104 Case of Birds from Southern Rhodesia—Cow Herons, Wood Peckers, Kingfisher, Strikes, Turtle Dove, Blue Jay, Finch, Barn Owl, Cuckoos, Starlings. Exhibited by Messrs. Looseley, Bulawayo.

105 Skins from Matabeleland.—Bin'gis Monkey, Otter, Golden Jackal, Sepa Wild Cat, Lynx, Ape, Tebie Wild Cat, Python. Exhibited by Messrs. Looseley, Bulawayo.

106 Karooses—Red Cat and Leopard, Silver Jackal, Tebie Cat, Hyaena, Rock Rabbit, Black Monkey.

107 Crocodile Skins.

108 Leopard Skins.

109 Lions' Skulls.

110 Cases of Beetles, Locusts, Spiders, and other Insects, exhibited by Mr. Attorney Webb and Messrs. Looseley, Bulawayo.

111 Cases of Native Curios, from Tanganyika, Angoniland, Barotseland, Matabeleland, Mashonaland. Exhibited by Mr. Chesney, Mr. Marshall Hole, and Messrs. Looseley.

112 Heads and Horns of Rhodesian Game, shot by Mr. R. T. Coryndon in Barotseland, and mounted by Mr. Rowland Ward, London:—Water Buck, Sable Antelope, Greater Koo-doo, Lichenstein's Hartebeeste, Lichi, Reed Buck, Sassaby, Roan Antelope, Klipspringer, Impala, Eland, Situtunga, Lion, Lioness, Baboon, Hyæna, Stein Buck, Duiker, Jackal, Zebra, Wildebeeste, Oribe, Spotted Hyæna, Wart Hog.

Important Notice to Architects.

FREE STONE FOR BUILDINGS.

The RED STONE for the FINE ART GALLERIES

WAS SUPPLIED BY

BAIRD & STEVENSON,

13 CARLTON PLACE, GLASGOW,

from their Locharbriggs Quarries, Dumfriesshire, and the WHITE STONE for Inside Masonry, from their Giffnock Quarries (near Glasgow).

FOREIGN COUNTRIES.

RUSSIA.

INDUSTRIAL HALL—SOUTH-EAST COURTS—AND IN THE GROUNDS.

THE Imperial Government of Russia has spent a considerable sum of money with a view to making the Russian Exhibit worthy of the Empire. It will be found to be a thoroughly characteristic one, and such as to give visitors a better estimate of the vast resources of the country than is to be had from even the best of the many recent publications, magazine articles, etc., on the subject.

Of late years, great importance has been attached to the development of the industrial resources of this, comparatively, sealed up European State. Much British Capital has been attracted thither; and Glasgow Engineers, Shipbuilders, etc., have had a big proportion of the orders for machinery, or other implements, resulting from this commercial awakening of the Slavonic race.

The pavilions are in themselves delightful examples of Russian carpentry and design; within are a typical display of agricultural products, minerals, chemicals, and craftsmanship. Details of these exhibits and their location follow:—

AGRICULTURAL SECTION.

Grains of all sorts—Wheat, Rye, Oats, Barley, Maize, Peas, etc.
Oil Seeds—Flax, Hemp, Poppy, etc.
Seeds of Herbs that are used for Feeding Animals (Clover, etc.).
Seeds of Vegetables, Garden and Medical Plants.
Hop.
Compressed Hay.
Wheat Flour, Rye Flour, Maize Flour, and Peas Flour.
Different sorts of Groats.
Different sorts of Bran.
Different sorts of Oil (made from Sun-Flowers, Hemp, Poppy, etc.).
Samples of above Plants (compressed) after the Oil is extracted from them.
Starch (Wheat and Potato).
Spirit of Wine (Rye), Spirits, Liqueurs, etc.
Wine, all sorts.
Tobacco—Leaves, Smoking Tobacco, Cigars, Cigarettes.
Flax, Hemp, Cotton.
Silk.
Wool—Bristles and Hair.
Fresh Beef.
Meat Preserves.
Fish Preserves.
Preserved Vegetables.
Fresh Fruit.
Preserved Fruit, Jam, Marmalade, etc.
Biscuits, Ginger-Bread, etc.
Cheese (Cream).
Butter.
Poultry, Fowl, etc.
Feathers and Down.
Eggs.
Fish Oil (Cod-liver Oil, etc.), Train Oil.
Isinglass.
Whale Bones.
Sugar of all kinds.
Honey, Wax, and Beverages made of Honey.
Ærated Waters.
Diagrams, Pamphlets, Maps, etc., relating to Commerce.

MINING INDUSTRIES.

Ore.
Coal.
Turf.
Salt.
Naphtha.
Building Stones, etc.
Different sorts of Clay.
Mineral Colours.
Mineral Manures.
Brimstone.
Precious Stones.
Metals, in bars, straps, sheets, etc.
Metallic Ware (Machines and Engines excepted).
Products of Naphtha.
Mineral Waters.
Russian Inventions concerning Mining Industries, etc.
Pamphlets, Diagrams etc., concerning Mining Industries, etc.

FORESTRY SECTION.

Timber—Planks, Battens, etc.
Products of ———
Paper Preparations.
Furniture, etc., Inlaid Floors.
Carvers' and Turners' Wares.
Products of Cottage Industries.
Bark-strings, Mats, etc.
Coopers' Wares.
Collections of Timber; Pamphlets, Diagrams, etc.

MANUFACTURING INDUSTRIES.

Furs.
Cotton Yarn and Cloths, Woollen Cloths, Silk Cloths, etc.
Brocade, Tinsel, etc.
Lace, Press-point, etc.
Carpets, etc.
Strings, Twines, and Ropes; Nets.
Tanned Leather.
Leather Ware—Straps, Trunks, etc.
Shoes (Leather and Felt), Boots, etc.
Brushes, Sieves, etc.
Horn Ware.
India-rubber Ware.
Paper, Tapestry, etc.
China, Porcelain, and Crockery.
Glass and Crystal.
Silver and Gold Ware, Jewellery, etc.
Bronze Ware, etc.
Musical Instruments, Music.
Perfumery.
Matches.
Artificial Manures.

ALEXANDER DUNCAN,
Diamond Merchant, Watch Manufacturer, Jeweller, and Silversmith,
One Stair up. 75 BUCHANAN STREET, *One Stair up.*
GLASGOW.
Established to Supply the Public Direct from the Manufacturers at Wholesale Prices for Cash.
Holds one of the largest and most comprehensive Stocks in the trade.
Visitors to Glasgow are respectfully invited to view our Stock.
Specialties in Wedding Presents, Presentations, etc., etc. TELEPHONE 3850.
PATRONISED BY THE GROSVENOR RESTAURANT AND EXHIBITION RESTAURANTS FOR THEIR TABLE APPOINTMENTS.

AGRICULTURE.

FOOD STUFFS.

Blandof, Brs.—Cheese and Butter.
Charikov.—Rye Flour.
Doobinine.—Fish Conserves.
Frolof.—Grain.
Haritoneuko.—Grains, Sugar, Honey.
Imperial Appanages, etc.—Wines.
Ministry of Agriculture and State Domains.—Collection of Grains.
Ministry of Finance.—Collection of Grains.
Steingel, Baron.—Grain, Honey.
Trust of Millers.—Collection of Flour Samples.
Weinstein.—Wheat Flour.
Zinoviev.—Grain.

MATCHES.

Lapshin.—Samples of Matches.

TEA.

Popof, K. S.—Tea Grown in Russia.
Perlof, S. V.—Tea.

TEXTILES.

Bostov Section of The Imperial Moscow Agricultural Society.—Collection of Wools.
Imperial Appanages.—Cotton.
Imperial Moscow Agricultural Society.—Collection of Wools.
Ministry of Finance.—Collection of Flax.
Pehovshy.—Wool.
Pskof Agricultural Society.—Collection of Flax.
Steingel, Baron.—Wool.
Telegine, A.—Wool.

TOBACCO.

Asmolof, W. J. & C.—Cigarettes and Tobacco.
Saatchi & Maagoobi.—Cigarettes.

WINES AND SPIRITS, ETC.

Glebof.—Wines.
Kalashnikof.—Spirits, Vodka.
Schtal.—Wines.
Shoustof.—Spirits and Vodka.
Smiruop.—Spirits, Vodka, Wines.
Steingel, Baron.—Wines, Spirits.

FORESTRY.

Imperial Appanages.—Samples of Woods, Chemical Wood Products.
Ministry of Agriculture and State Domains.—Collection of Woods and Wood Articles.
Kabanof.—Painted Wooden Articles for House Decoration.
Ministry of Ways and Communications.—Sample of a Thick-set Hedge to Prevent Sand Covering Railroads.

INDUSTRIAL.

FURS.

Gruemvald, P. M.—Furs.

GLASS WARE.

Diootfooa.—Glass.
Moscow Glass Co.—Glass.
North Glass Co.—Glass.

GOLD AND SILVER.

Lioobavine.—Golden and Silver Enamelled Ware.
Hodzheian.—(Caucasian Carpets, Tissues) Gold and Silver Ware.
Ovchinnkov.—Golden and Silver Enamelled Ware.

JEWELLERY.

Bock.—Jewellery.
Fuerst.—Jewellery.
Kehli.—Jewellery.
Sosnovshy.—Jewellery.

INDUSTRIAL—*(Continued).*

LEATHER WARE.

Broosnitzyne.—Leather.
Mechanical Boot and Shoe Co.—Boots and Shoes.
Savin.—Leather.
Stepanof.—Boots and Shoes.
Pogrebof & Jegoro.—Boots and Shoes.
Vininshy.—Leather Articles.
Ysakova.—Leather Articles.
Weiss.—Boots and Shoes.

WOVEN GOODS.

Alexandrof.—Red Cotton Goods.
Alexandrof, T. A.—Woollen Shawls.
Borodine Bros.—Fancy Wool.
Dorodnof.—Tea Table Linen.
Gnebner Co.—Fancy Cotton Goods.
Jeero.—Silk Goods.
Krimov, E. S.—Table Napkins.
Meendovsky & Bakakine.—Half Linen.
Nikitine, V. M.—Fancy Wool.
New Kostromskaia Co.—Linen.
Pavlov, S. P.—Red Cotton Goods.
Savva Morosof Sons.—Cotton.
Sapozhinkow.—Brocades.
Sokolikof, E. A.—Silk Shawls.
Tasuniusky.—Cotton Goods.
Zaglodine—Brocades.

MISCELLANEOUS.

Bernshtein.—Amber.
Boolkovshy.—Optical Instruments.
Dioderichs.—Pianos.
Gilonsky.—Plate Ware.
Kohotzinsky.—Optical Instruments.
Koosnetzof, M. S., & Co.—Croquerie.
Poel, Prof.—Medical Preparations.
Reischardt.—Pianos.
Stone Burning Company.—Chemical Products.
Veninshy.—Celluloid and Tortoiseshell Articles.

WOMEN'S SECTION.

1. M. V. Zelenine.
2. A. M. Milaieff.
3. E. I. Lapine.
4. N. N. Safonoff.
5. T. V. Koriakine.
6. M. I. Podkolzine.
7. I. V. Zarkoff.
8. I. I. Tchooikine.
9. M. M. Doolneff.
10. V. D. Borodkine.
11. A. I. Poltarihine.
12. M. I. Astahoff.
13. E. V. Astahoff.
14. E. M. Doolneff.
15. A. J. Klenikoff.
16. A. N. Firsoff.
17. P. V. Filkowsky.
18. P. A. Hodakoff.
19. E. K. Lavrooshkine.
20. P. F. Netchaieff.
21. Bogoroditzk District County Office.
22. M. N. Paltchikoff.
23. M. G. Kamensky.
24. School of Handiwork and Home-Industry Works.
25. E. V. Arboosoff.
26. Mtzensk School of Lace Work.
27. A. G. Ermoloff.
28. Store of Home-Industry Articles of the Penza County Office.
29. A. M. Milovidoff.
30. Vologda Home-Industry Articles Exhibition.
31. Nicholas Children Asylum in Taganrog.
32. Children's Asylum in Tver.
33. House of Anatole, Demidof.
34. Alexandra Children's Asylum in Szkutsh.
35. Children's Asylum of Stiglitz.
36. Cossack's Children's Asylum in Kouban District.
37. Alexandra Middle School in St. Petersburgh.

AUSTRIA.

INDUSTRIAL HALL—SOUTH-EAST COURTS.

AUSTRIAN COMMISSION.

Delegated by the Imperial and Royal Ministry of Commerce.

Dr. RITTER VON THAA, K.K., Sectionschef.
Dr. RUDOLPH SCHINDLER, K.K., Ministerial Vice-Secretiar (*Assistant*).

PRESIDENT.

Mr. FRIEDRICH MAUTHNER, M.P., President of the Vienna Chamber of Trade and Commerce.

VICE-PRESIDENT.

Mr. FRIEDRICH SUESS, Imp. Roy. Counsellor.

SECRETARY.

Dr. WITZ, Secretary of the Vienna Chamber of Trade and Commerce.

ARCHITECT.

Mr. LUDWIG BAUMANN, Imp. Roy. Architect-Counsellor.

Commercial Agent—Mr. ADOLPHE TAUSSIG.

LIST OF AUSTRIAN EXHIBITORS.

Adler, Michael, Vienna, VII. Kandlergasse 22.—Steel and Iron.
Bosek, Carl Franz, Haida, Bohemia.—Porcelain.
Blühdorn, B., Freiwaldau, Silesia.—Gloves.
Cerovaz, Anton, Bruck-a-d-Mur, Austria.—Wines and Champagnes.
Collective Exhibit of the Vienna Art Locksmiths:—
Augustin Cep., V. Zentagasse 38.
Jul. Domonkos, V. Kohlgasse 36.
Joh. Hofman, VII. Neubaugasse 21.
Carl Janetchek, VI. Mariahilferstrasse 113.
Rud. Kern, V. Untere Bräuhausgasse 55.
Franz Krumpholz, V. Schwarzhorngasse 2.
Ignaz Navratil, XVII. Kastergasse 11.
Alex. Nehr, IX. Spitellauergasse 4.
Andr. Ruschka, IV. Alleegasse 40.
Math. Schuster's Wwe, VIII. Bennogasse 8.
Anton Schwarz Wwe, VI. Esterhazygasse 3.
Ed. Wessely, V. Wildemanngasse 3A.
Adolf Zamecnick, V. Herthergasse 17.
Vincenz Zemen, IV. Freundgasse 3.
Rudolf Knotz, VIII. Wickenburggasse 3.
Karl Jahn, III. Hauptstrasse 109.
Dörfel, Franz, Vienna, V. Hofgasse 4.—Royal Vienna Porcelain.
Goldberg, Karl, Haida, Bohemia.—Bohemian Glass.
Hacker, Moritz, Vienna, V. Thorusplatz 7.—Reproductions of Antique Art Pewter.
Kohn, Jacob and Josef, Vienna, I. Elisabethstrasse 24.—Bentwood Furniture.
Lötz, John Wittwe, Klostermuhle, Bohemia.—Bohemian Glassworks.
Mayer, Sigmund, Vienna, VII. Dreilaufergasse 6.—Tortoiseshell Goods.
Politzer, Ludwig, Vienna, IV. Papagenogasse 4.—Royal Vienna Enamels.
Rachmann Bros., Haida, Bohemia.—Bohemian Glass.
Rosenbaum. Bros., Vienna, Josefstädterstrasse 31.—High-class Stationery and Kindergarten goods.
Ruff & Besserdich, Vienna, VII. Zieglergasse 80.—Artistic Bronzes.
Rubinstein, Arthur, Vienna, VII. Stolzenthalerg.—New Art Bronzes.
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Grande Société Lebrou et Cie, à Roquefort-sur-Soulzon (Aveyron).—Roquefort Cheese.

Grandin (Alfred), 32, rue La Boëtie, à Paris.—Sparkling Wines.

Hartmann (G.) et Cie., 21, boulevard Morland, à Paris, Distillateurs.—Liqueurs.

Havy (A. L. G.), 1, rue Villersexel, à Paris.—Wines of various brands.

Karcher (H.) et Cie., 139, rue des Pyrénées, à Paris, Brewers.—Bock Beer.

Lanoire (A.) et Cie., à Bordeaux (Gironde).—Clarets.

Lapouge (E. P.), Fils, à Sarlat (Dordogne), Distillateur.—Various Liqueurs.

Legouey et Delbergue, 75, 77, 79 rue de Réaumur, à Paris.—Distillateurs.—"La Trappistine."

Lehucher (Victor), 36, rue du Chemin-Vert, à Paris.—Preserved Provisions.

Lemariey, 33, rue du Chateau, à Neuilly-s-Seine, Négociant.—Bottled Cider.

Les Fils de Ch. Teyssonneau Jeune, 3 à 13, rue St. Siméon, à Bordeaux, et à Concarneau (Finistère).—Provisions and Preserved Fruit, Preserved Meat, Vegetables, Cheese, Sardines, Tunny Fish, Fruit in Juice and Brandy, Plum-pudding, etc.

Malesset (J.) et Chouanard (E.), 148, rue du faubourg St. Denis, à Paris.—All colours and sizes of Syphons; Gazogenes of various sizes.

Marnier-Lapostolle, 67, boulevard Haussmamm, à Paris, Distillateur.—"Liqueur Grand-Marnier."

Millot (Armand), à St. Quentin (Aisne).—Flour, Oatmeal, "Fromentine," Mixture for wholesome and rational food for cattle.

Moquet-Lesage, 7, rue St. Gilles, à Paris (Confiturerie de St. James). — Preserves and Chestnuts in Juice.

Moreau-Barbou (Felix), à Entrains (Nièvre).—1867 Burgundy Brandy.

Petitjean Fils, 3 rue Pierre Lescot, à Paris.—Provisions.

Pollet (Emile), 7, rue de Hambourg, à Paris.—Wine from the Château-Peyrat at Béguey, near Cadillac, Gironde.

Prevet (Ch.) et Cie., 48, rue des Ptes Ecuries, à Paris.—Provisions.

Requier Frères, à Perigueux (Dordogne), Distillateurs.—"La Gauloise," Hygienique Liqueur.

Saintier (Paul), 11 rue St. Gilles, à Rouen (Seine Inférieure).—Sparkling Cider in Bottles.

Société Anonyme des Amidonnerie et Rizerie de France (E. Verley, Administrateur-délégué), à Marquette-lès-Lille.—Rice Starch.

Du-Sanit Raphael-Quinquina, 18, Avenue Parmentier, à Paris. — Le "Saint-Raphael-Quinquina."

Tantot (M.), à Bonnebosc (Calvados)—(Régisseur au Château de Bonnebosc).—Sparkling Cider and Cider Brandy.

GROUPE C.—MOBILIERS et ACCESSOIRES. PAPIERS PEINTS et de FANTAISIE. PORCELAINES et CRISTAUX.

PRÉSIDENT.

M. LEROY (ISDIORE), Fabricant de Papiers peints, Président honoraire de la Société de protection des Enfants du Papier peint, Vice-Président des Comités d'admission et d'installation, Grand Prix, Paris 1900, classe 68, groupe XII., 11, rue de Chateau-Landon, à Paris.

VICE-PRÉSIDENTS.

M. CORNILLE (GEORGES), Fabricant de Soieries et Velours pour ameublement, Juge au Tribunal de Commerce de la Seine, Membre des Comités d'admission et d'installation, Membre du Jury, Paris 1900, classe 70, groupe XII., 21, boulevard Montmartre, à Paris.

M. JANSEN, Tapissier, Membre des Comités d'admission et d'installation, Grand Prix, Paris 1900, classe 71, groupe XII., 9, rue Royale, à Paris.

SECRÉTAIRES.

M. GERMAIN (GASTON), Manufacturier, Grand Prix de Collaborateur, Paris 1900, classe 88, groupe XIV., 243, rue Saint-Martin, à Paris.

M. SOUBRIER (FRANÇOIS), Fabricant de Meubles, Médaille d'argent, Paris 1900, classe 69, groupe XII , 14, rue de Reuilly, à Paris.

EXPOSANTS.

Bricard Frères, 39, rue de Richelieu, à Paris.—High-class Ironmongery.

Brot (Ch.), 89, rue du Faubourg Saint-Denis, à Paris.—Mirrors, Looking-Glasses, and Brackets.

Charpentier (A.) et Van Roye (Ch.), 9, rue St. Ambroise, à Paris —Furniture and Art Bronzes.

Chevrel (G.) et Pied-Chevrel, 11, rue de la Cerisaie, à Paris.—Marquetery, Mosaics, Artistic Sanitary Plates.

Clair (Maxime), 148, faubourg Poissonnière, à Paris.—Furniture in Classical and Art Nouveau Style and Artistic Embroideries.

Colin et Cie., 17, rue des Tournelles, à Paris.—Bronzes d'art, and Electric Lighting Apparatus.

Cornille frères, 21, boulevard Montmartre, à Paris.—Materials, Silks, Plain and Fancy Velvets for Upholstering.

Daum frères, à Nancy (Meurthe-et-Moselle).—Furniture and Crystal Ornaments.

Evette et Germain, 243, rue St. Martin, à Paris.—Papiers de Fantaisie, etc.

Hollande (Jean) Fils, 114, rue de Charenton, à Paris.—Colonial Timber.

Jansen, 6, rue Royale, à Paris.—Furniture.

Lainé et Cie., à Beauvais (Oise).—Carpets and Rugs.

Lefebvre (Paul), 54, avenue Bosquet, à Paris.—Sketches for Architecture.

Leroy (Isidore), 11, rue de Château-Landon, à Paris.—Wall Paper.

Massy (Mme. Henriette), 1, rue de Fleurus, à Paris.—Furniture and Embossed or Fancy Leather.

Meier-Graefe, 2, rue de la Paix, à Paris.—Furniture, Bronze, Jewellery.

Mercier (H.), 100, faubourg St.-Antoine, à Paris.—Furniture.

Parison et Cie., 122, rue de Rivoli, à Paris.—Velvets for Upholstery.

Porte (Leon), 6, Place de l'Ecole, à Paris.—Garden Tents and Umbrellas.

Putois et le Mahieu, 3, rue de Turbigo, à Paris.—Fancy Papers for Bookbinding, etc.

Rachet, 32, avenue Phillippe-Auguste, à Paris.—French Timber and Colonial Timber.

Rémon (P.H.), 17, rue Caumartin, à Paris.—Furniture and Chairs.

Simon (Henri), 13, rue du Mail, à Paris.—Silks, Tapestries, and Furnishing Material.

Soleau (Eugène), 127, rue de Turenne, à Paris.—Electric Friezes, Bronze and Marble Candelabras.

Soubrier (F. et P.), 14, rue de Reuilly, à Paris.—Furniture and Chairs.

Thierry et Studd, 29, rue des Petites-Écuries, à Paris.—Designs for Wall Paper and for Cretonnes.

GROUPE D.—TISSUS, VÊTEMENTS et ACCESSOIRES.

PRÉSIDENT.

M. SIMONNOT-GODARD (VICTOR), Fabricant de Batistes et Toiles fines, Président de la Chambre Syndicale des Batistes, Membre de la Commission permanente des valeurs en douane, President de la Chambre Syndicale de la Batiste et des Boiles Fines, Membre des Comités d'admission et d'installation, Grand Prix, Paris 1900, classe 81, groupe XIII., 33, rue du Sentier, à Paris.

VICE-PRÉSIDENTS.

M. KAHN (PAUL), Manufacturier, Membre des Comités d'admission et d'installation, Membre du Jury, Paris 1900, classe 85, groupe XIII., 130, rue Réaumur, à Paris.

SECRÉTAIRE.

M. STOCKMAN (OSCAR), Bustes et Mannequins, Membre des Comités d'admission et d'installation, Membre du Jury, Paris, 1900, classe 79, groupe XIII., 150, rue Legendre, à Paris.

EXPOSANTS.

Ancelot (A.), 12, rue de Hanovre, à Paris.—Laces and Embroideries.

Banès (Jacques), 6, rue des Colonnes, à Paris.—Embroideries.

Bar (Jean), à Rautigny (Oise).—Metallic Spangles.

Bequet (H), 2, rue du Quatre-Septembre, à Paris.—Embroideries for Dresses and Mantles.

Beraud (Etienne), 122, rue Réaumur, à Paris.—Embroideries and Embroidered Materials.

Bertout et Got, 20, rue des Bourdonnais, à Paris.—Jerseys and Sporting Costumes.

Blais-Mousseron et Villeminot (L.), 50, rue Croix-des-Petits-Champs, à Paris.—Jerseys and Tissus Pyrénées.

Blin et Blin, à Elbeuf (Seine-Inferièure).—Heavy Woollen Goods.

Blondet (Louis), 2, rue du Faubourg-Poissonnière, à Paris.—Upholstery Materials.

Brossard (Georges) Jeune, 49, Faubourg Saint-Martin, à Paris.—Ostrich Feather Dyer (Noir de Paris).

Bullot et Cornuel, 17, rue de la Monnaie, à Paris.—Hosiery in Silk and Silk and Wool.

Carette, 121, Boulevard Haussmann, á Paris.—Clothier; Liveries.

Charles Jeune, 117 rue Réaumur, à Paris.—Flowers, Feathers, and Millinery Ornaments.

Chedville, à Saint-Pierre-les-Elbeuf (Seine-Inférieure).—Products of Asbestos.

Dheilly, à Villers-Bretonneux (Somme).—Costumes.

Donkèle, Doll et Cie., 2 Place des Victoires, à Paris (Ancienne Maison Klotz Jeune).—Scarfs, Ties, and Mufflers; Sticks.

Ducarin, à Comines (Nord).—Dress Goods.

Dufayel, 11, 13 et 15, Boulevard Barbès, à Paris.—Graphiques.

Fraenkel-Blin, à Elbeuf (Seine-Inférieure).—Heavy Woollen Goods.

Gaitz-Hocky (J.), 67, rue Réaumur, à Paris.—Ostrich Feathers and Boas.

Giraud (Mme. Julie), Villa des Arts, à Meudon (Seine).—Embroideries.

Giraudeau et Rochet, 30, rue Saint-Augustin, à Paris.—Fine Flowers.

Gorse (Jean et Jules), 57, rue Servient, à Lyon.—Men's Clothing.

Halimbourg et Fils, 4, rue Vide-Gousset.—Men's Clothing.

Henry (à la Pensée), 5, Faubourg Saint-Honoré, à Paris.—Needlework and Sachets.

Hubinet (Louis), à Glageon (Nord).—Fancy Carded Wool Yarns.

Jalla (E.), 7, rue d'Uzès, à Paris.—Tissu éponge.

Jouget (S.), 1, rue d'Hauteville, à Paris.—Fine Flowers and Foliages.

Kahn (Paul), 130, rue Réaumur, à Paris.—Children's Clothing.

Laloue (A.), 43, rue du Caire, à Paris.—Flowers and Feathers for Trimming.

La Samaritaine (E. Cognacq), 1, rue du Pont Neuf, à Paris.—Dress Goods.

Lavanoux frères, 226, rue Saint-Denis, à Paris.—Flowers and Feathers for Millinery.

Ledreux (Florent), 17, rue de l'Entrepôt, à Paris.—Passementeries.

Leprince, 44, boulevard Sébastopol, à Paris.—Corsets.

Lere, 27, rue du Mail, à Paris.—Laces.

Lescure (A.), 31, rue Saint-Augustin, à Paris.—Laces and Embroideries.

Les Fils de A. Guillaumet et E. Chappat, à Suresnes (Seine).—Dyed and Finished Dress Goods.

Levallois et Cie., 24, rue du Sentier, à Paris.—General Dress Goods.

Loliot (A.), 4, rue Martel, à Paris.—Ostrich and Fancy Feathers, Boas and Fans.

Lurot, 13, rue du Quatre-Septembre, à Paris.—Ostrich and Fancy Feathers for Trimming.

Macdonald, 17, rue des Petites-Écuries, à Paris.—Ostrich Feathers and Boas.

Marescot, 4, rue Saint-Augustin, à Paris.—Laces.

Marquis (Eugène), 92, boulevard Sébastopol, à Paris.—Buttons, Buckles and Clasps.

Morin-Hielard, 21, rue d'Antin, à Paris.—Ostrich and Fancy Feathers for Millinery.

Mouilbau et Chevreau, 100, rue Saint-Denis, à Paris.—Elastics, Dress Preservers, Braces, Garters and Belts.

Neyret, Vallée et Cie., 17, rue d'Uzès, à Paris.—Dresses and Mantles for Ladies and Children.

Parent Fils et Bouchard, 103, rue Réaumur, à Paris.—Buttons.

Richardière et Gérard, 4, rue Paul-Lelong, à Paris.—Feathers, Flowers and Fancy Articles for Millinery.

Roshem (R.), 121, rue d'Aboukir, à Paris.—Artificial Fruits for Millinery.

Schorestène Frères, 168, rue Saint-Maur, à Paris.—Raw Material and Accessories for Gent.'s Hat Manufacturing.

Simonnot-Godard et Fils, 33, rue du Sentier, à Paris.—Cambrics and Lawns, Fancy Handkerchiefs and Cloth of the Latest Fashion.

Stockman Fréres, 150, rue Legendre, à Paris (Maison fondée en 1869).—Busts and Dress Stands for Dressmakers and Tailors and Shop Fittings.

GROUPE E.—PRODUITS CHIMIQUES et PHARMACEUTIQUES, PARFUMERIE.

PRÉSIDENT.

M. CHALMEL (GUSTAVE), Fabricant de Vernis et Couleurs, Vice-Président de la Chambre syndicale des Produits chimiques, Conseiller du Commerce exterieur. Membre du Comité d'admission, Médaille d'or, Paris 1900, classe 87, groupe XIV., 36, avenue Daumesnil, à Paris.

VICE-PRÉSIDENT.

M. PAGÈS (ALBERT), Industriel, Juge au Tribunal de Commerce, Membre du Comité d'installation, Membre du Jury, Paris 1900, classe 50, groupe IX., 34, boulevard Henri IV., à Paris.

SECRÉTAIRE.

M. PLASSARD (LOUIS), Parfumeur, Membre du Comité d'admission, Medaille d'or, Paris 1900, classe 90, groupe XIV., 71, rue Saint-Martin, à Paris.

EXPOSANTS.

Chalmel (Gustave) fils et gendre, 36, Avenue Daumesnil, à Paris.—Improved Alcohol Varnish; Alkolumine et Alkomoteur, products prepared for lighting and power.

Chevrier (Dr. G.) et Helouis, 21, rue du Faubourg Montmartre, à Paris.—La Vanadine; Vin de Coca de Chevrier; Rectified Cod Liver Oil.

Le Générale d'Eaux Minérales et de Bains de Mer (Ch. Hanoteau, Administrateur Délégué), 13, rue Taitbout, à Paris.—Mineral Waters from various Mineral Wells; Views of various Hydropathics.

Couturieux (Ch.), 3, rue Washington, à Paris.—Levurine; Panglandine, etc.

Klotz (Victor), 18, place Vendôme, à Paris.—Perfumery.

Moussaud (Fernand), 26, rue St. Claude, à Paris.—Armenian and Eastern Papers of the highest quality.

Pagès, Camus et Cie, 8, rue Barbette, à Paris.—Acétates et Pyrolignites ; Acetic Acid ; Méthylène ; Sulphate of Copper ; Litharge ; Acétones ; Phosphates of Lime.

Paquier (Marc), 7, boulevard de Sébastopol, à Paris.—Artificial Rubies scientifically Manufactured ; Raw Material for their Manufacture ; Aluminium in Powder and Oxide of Chrome.

Plassard (Louis), 17, rue du Quatre-Septembre, à Paris.—Soaps and Perfumery.

Simon (J.), 13, rue Grange-Batelière, à Paris.—Cream and Powder "Simon," and "Simon" Cream Soap.

GROUPE F.—MAROQUINERIE, ARTICLES DE PARIS, PAPETERIE, PAPIERS.

PRÉSIDENT.

M. PITET (AINÉ), Fabricant de Brosses et Pinceaux pour la peinture, Secrétaire des Comités d'admission et d'installation Rapporteur du Jury, Paris 1900, classe 98, groupe XV., 51, rue du Faubourg-Poissonnière, à Paris.

VICE PRÉSIDENT.

M. QUENTIN (AIMÉ-LOUIS), Pipes et Articles de fumeurs, Président de la Chambre syndicale de la Tabletterie et de l'Eventail, Vice-Président des Comités d'admission et d'installation, Membre du Jury, Paris 1900, classe 98, groupe XV., 22, rue de Bondy, à Paris.

SECRÉTAIRE.

M. MAUNOURY (PAUL), Fabricant de papiers, Président de la Chambre syndicale des papiers en gros, Hors concours, Paris 1900, classe 92, groupe XV., rue Saint-Martin, à Paris.

EXPOSANTS.

Amson Frères, 68, rue de la Folie-Méricourt, à Paris.—Leather Goods.

Baignol et Farjon, 13, rue du Faubourg Poissonnière, à Paris.—Steel Pens, Pen-Holders and Pencils.

Barrault Frères, 67, rue des Archives, à Paris.—Papers.

Baudry (H.) Fils, 97, boulevard Sébastopol, à Paris.—Feathers Dressed and Undressed.

Baum (Henri), 7, rue Réaumur, à Paris —Fancy Bronzes.

Bourgeois Ainé, 18, rue Croix-des-Petits-Champs, à Paris.—Colours and Artists' Accessories.

Bertrand (René), boulevard des Batignolles, à Paris.—Art Leathers.

Blaise (Mme), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Catel et Farcy, 40, rue Saint-Merri, à Paris.—Cardboards, Drawing Papers, Ruled and Tracing Papers.

Cauvy (Léon), 86, boulevard des Batignolles, à Paris.—Art Leather.

Chailley-Bert (Mme), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Chalin (L.), 12, rue Crussol, à Paris.—Fancy Jewellery, Medals, Jewel Boxes, and Religious Articles.

Devrainne (Melle. Marie), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Dupont (E.) et Cie., 44, rue Turbigo, à Paris et à Beaauvais (Oise).—Brushes, Buttons, and Nick Nacks.

Duranton (Melle. Jeanne), 86, boulevard des Batignolles, à Paris.—Art Leather.

Durif (Antoine), 97, boulevard Haussmann, à Paris.—Papers.

Ettlinger Frères, 9, rue St. Anastase, à Paris.—Bronzes and Fancy Bronzes.

Faillot Fils Ainé, 37, rue Ste Croixe de la Bretonnerie, à Paris.—Papers and Pasteboards.

Genty (Louis-Achille), 17, rue du Temple, à Paris.—All kinds of Brushes.

Gillot (Mme. Paul), 86, boulevard des Batignolles, à Paris.—Art Leather.

Hénin Ainé, 5, Cité du Petit-Thouars, à Paris.—Ivory Goods for Billiards and Sculpture.

Houlet (E.), 36, rue Meslay, à Paris.—Fancy Bronzes.

Joannot (Emile) Fils, 89, boulevard Sébastopol, à Paris.—Horn and Celluloid Combs.

Keller frères, 22, rue Joubert, à Paris.—Leather Goods, Silver Ware, Bags and Fittings.

Latouche (G.), Jeune, 21, rue Saint-Augustin, à Paris.—Fancy Goods, Brush Ware, and Tortoise-shell Combs.

Leloir frères, 14, rue de Commines, à Paris.—Brushes and Camel Hair Brushes.

Leven (Mme. Emile), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Maréchal Ruchon (A.), et Cie, 15, 17, rue des Balkans, à Paris.—Fancy Goods for Tobacconists.

Maunoury, Wolff et Cie, 110, rue Saint-Martin, à Paris.—Papers, Pasteboards, and Paper Bags.

Meyer (Guillaume), 70, rue Turbigo, à Paris.—Leather Goods.

Pitet Ainé et Cie, 51, rue du Fabourg-Poissonnière, à Paris.—Brushes, Paint Brushes, and Artists' Materials.

Proffit (E.), 31, Avenue de la République, à Paris.—Fancy Leather Goods, Jewel Boxes, and Cabinet Work.

Quentin et Cie, 22, rue de Bondy, à Paris.—Fancy Goods for Tobacconists.

Radigois (Mme. Sophie), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Ridel (E.), 15, place du Marché Saint-Honore, à Paris.—Leather Goods.

Rosenwald (Edmond-Salomon), 55, rue de Bretagne, à Paris.—Church articles; Ivory Sculptures; Frames for Photographs.

St. André de Lignereux (Mme.), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Sauernheimer, 9 rue Saint-Merri, à Paris.—Artists' Paint Brushes.

Société Nationale du Cuir d'Art Francais (St. André de Lignereux, President), 86, boulevard des Batignolles, à Paris.—Art Leathers.

Société l'Oyonnithe (Charles Bernadac, Administrateur, Délégue), 11 rue Meslay, à Paris.—Celluloid Goods.

Thomas (François), 8, rue Reneta, à Paris.—Fine Brush Ware.

Vuillard et Strauss, à St. Claude (Jura).—Tobacconist's Fancy Goods and Pipes.

GROUPE G.—BIJOUTERIE, ORFÈVRERIE BRONZES D'ART ET D'ÉCLAIRAGE-HORLOGERIE.

PRÉSIDENT.

M. AUCOC (LOUIS) FILS, Bijoutier-Joailler, ancien Juge au Tribunal de Commerce, Président de la Chambre Syndicale de la Bijouterie, de la Joaillerie et de l'Orfèvrerie, Président des Comités d'admission et d'installation, Président du Jury, Paris 1900, classe 95, groupe XV., 9, rue du Quatre-Septembre, à Paris.

VICE-PRÉSIDENTS.

M. GAILLARD (LUCIEN), Bijoutier-Orfèvre, Grand Prix, Paris 1900, classe 95, groupe XV., 107, rue de la Boëtie, à Paris.

M. HANOTEAU (CHARLES), ancien Juge au Tribunal de Commerce, Président du Conseil d'administration des Forges et Aciéries de Commerce, Administrateur délégué de la Compagnie générale d'eaux minérales et de bains de mer, Médaille d'or, Paris 1900, classe 64, groupe XI., 58 boulevard Voltaire, à Paris.

SECRÉTAIRE.

M. FONTAINE, Fabricant de Serrurerie de Luxe, Membre du Jury, Paris 1900, classe 65, groupe XI., 181, rue Saint-Honoré, à Paris.

EXPOSANTS.

Aucoc (L.) fils, 9, rue du Quatre Septembre, à Paris.—Jewellery.

Bergeotte (L.), 44, avenue de la Grande-Armée, à Paris.—Polished Iron Work and Chased and Gilt Copper Work.

Braut (Georges), 27, rue Notre-Dame de Nazareth, à Paris.—Fancy Gold-Plated Jewellery and Fancy Imitation Diamond Jewellery.

Brunet (Georges), 26, rue de Rambuteau, à Paris.—Fancy Jewellery.

Charguéraud (N.), 39, boulevard du Temple, à Paris.—Fancy Jewellery, Silver and Steel.

Charlot frères, 5, rue de Montmorency, à Paris.—Art Enamels.

Charpentier, 43 bis, rue Boileau, à Paris.—Bronzes, Bas-Reliefs, Medallions.

Christofle et Cie., 56, rue de Bondy, à Paris.—Jewellery in Gold and Silver.

Daubrée, 12, boulevard de Strasbourg, à Paris.—Bronzes and Objets d'Art.

Delarbre (Ch.), 247, rue de Martin, à Paris.—Real Gold and Silver mounted Jewellery, Imitation Stones.

Debain (A.), 79, rue de Temple, à Paris.—Silverware and "Objets d'Art."

Depoilly et Fleury, à Escarbotin (Somme).—Ironmongery.

Feuillâtre (E.), 3, rue Villedo, à Paris.—Art Enamels.

Fontaine Frères et Vaillant, 181, rue St.-Honoré, à Paris.—Decorative Ironmongery in Chased Bronze, Antique and Modern Style.

Foy (R.), 12, rue Legendre, à Paris.—Jewels, Laces, Ceramic Ware.

Gaillard (Lucien), 107, rue la Boetie, à Paris.—Jewels, Silverware.

Gross, Langoulant, et Cie., 79, rue du Temple, à Paris.—Jewellery in Gold.

Huet (L.) et Ligier (E.), 118, rue de Turenne, à Paris.—Steel Ornaments, Key Rings, Button-hooks, etc.

Jean (A.), 17, rue Réaumur, à Paris.—Artistic Enamelled Articles on Copper, Silver and Gold.

Lamaille (Geo.), et Cie, 40, rue de l'Échiquier, à Paris.—Clocks.

Malécot (Jules), 153, rue du Temple, à Paris.—Imitation Jewellery.

Moche et Cie., 46, rue Poissonnière, à Paris.—Gold Chain Purses, Dressing Chain Fittings and Chains.

Mossand (Ch.), 55, rue de Bretagne, à Paris.—Imitation Jewellery.

Paisseau-Feil, 66, rue Taitbout, à Paris.—Imitation Stones and Pearls, Mounted Articles, etc.

Plumet (Paul), 7 rue Chapon, à Paris.—Gold-plated Jewellery.

Plumet (Ch.) et Selmersheim (Tony), 1, place Boieldieu, à Paris.—Modern Furniture.

Poussielgue-Rusand, 3, rue Cassette, à Paris.—Silverware and Bronzes.

Roye (A.) et Cie., 29, rue le Peletier, à Paris.—Imitation Stones.

Rozet (René), 6, rue Aumout-Thiéville, à Paris, Statuaire.—Massive Silver Looking Glass, "La Métamorphose de Narcisse," manufactured by Christofle & Co.

Ruteau (L.), 31, rue Chapon, à Paris.—Imitation Pearls.

Sandoz (Gustave-Roger Sandoz, fils et successeur), 10, rue Royale, à Paris (anciennement au Palais-Royal).—Precious Stones, Objets d'Art, and Time Pieces.

Selmersheim (Tony), 1, place Boileau, à Paris.—Bronze Fittings for Houses and Furniture.

Schlesinger (Jules), 3, rue Rossini, à Paris.—Pierres fines.

Soye (De), 19, rue Chapon, à Paris.—Real and Imitation Pearls.

Templier (Paul), 3, place des Victoires, à Paris.—Jewels.

Vachet (R.), 13, boulevard du Temple, à Paris.—Time Pieces.

Vuillermoz (L.), 63, rue Turbigo, à Paris.—Imitation Jewellery and Gold Settings.

GROUPE H.—CUIRS ET PEAUX, CHAUSSURES, MACHINES, CERAMIQUE ET CRISTAUX, INDUSTRIES DIVERSES.

PRÉSIDENT.

M. MULLER (VICTOR), Constructeur de Petit Materiel et de Mobilier de Chemin de fer, Vice-President de la Chambre Syndicale de l'Ameublement, Membre du Comité d'admission, Médaille d'Or, Paris 1900, classe 69, groupe XII., 50, rue de Châteaudun, à Paris.

VICE-PRÉSIDENT.

M. PINET (MAURICE), Fabricant de chaussures, 42 et 44, rue de Paradis, à Paris.

SECRÉTAIRE.

M. HANNOYER, (LÉON), Ingénieur des Arts et Manufactures, Membre du Comite d'admission, Mèdaille d'Or Paris, 1900, classe 30, groupe VI., 39, rue Albouy, à Paris.

EXPOSANTS.

Amos fréres et Cie, à la Neuville-les-Raon (Vosges).—Knitted List—Shoes.

Barbier, Benard et Turenne, 82, rue Curial, à Paris—Carriage Lamps.

Boutmy et Cie, à Messempré-Carignan (Ardennes).—Polished Sheet-Irons.

Caen frères, 34, rue Greneta, à Paris.—Sheep Skins, for Lining.

Carue (Ph.), 269, rue Saint-Denis, à Paris.—Usine Masurel et Caen, à Croise Nord. Chains and Ropes.

Compagnie Générale Transatlantique (E. Pereire, President du Conseil d'administration), 6, rue Auber, à Paris.—Model of Steam-packet "La Lorraine."

Compagnie des Wagons-Réservoirs (Rotival, Président du Conseil d'administration) 83, rue Lafayette, à Paris.—Drawings of Waggons.

Déon (Ulysee) et fils, à Sens (Yonne).—Dressed Rabbit Skins.

Djamal (Ahmet), à Tunis (Tunisie).—Cloth, Embroideries, etc.

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Macquart et Vesuan, à Montgeron (Seine-et-Oise).—Motor Bicycle.

Massier (Clément), 36, avenue de l'Opera, à Paris.—Art China.

Massier (Delphin), à Vallauris (Alpes-Maritimes).—Art China.

Muller et Fils, 50, rue de Chateaudun, à Paris.—Office Furniture, and Furniture for Railways.

Plateau (Jean) 5, rue des Minimes, à Paris.—Writing, Printing, and Copying Inks.

Rosemann, 64, rue Saint-Honoré, à Paris.—Small Metalware.

Rousset Frères, 5, avenue Victor-Hugo, à Blois (Loir-et-Cher).—Boots and Shoes.

Savoy (Jean), et Cie., 42, rue de Paradis, à Paris.—Leather.

Savy (A.) et Cie., 162, rue de Charenton, à Paris.—Soap-making Machinery.

Société Anonyme des Chaussures F. Pinet, 42 et 44, rue de Paradis, à Paris.—Boots and Shoes.

Société des Appontements de Pauillac, 5, rue des Mathurins, à Paris.—Plans and Drawings, and Panoramic Views.

Stumpf, Touvier, Viollet et Cie, 66, rue d'Hauteville, à Paris.—Glass and Crystal Ware.

Vincent (R.), à Berny (Seine).—Plated Fancy Goods.

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Foods, etc.

Yamamoto Shozo, Osaka.—Starches.
Kawazoye Riuhei, Nagasaki.—Table Salt.
Takahashi Gihei, Hokkaido.—Smoked Salmon.
Nagata Daisuke, Kobe.—Bamboos.
Morita & Co., Aichi-Ken.—Soy (Japanese Sauce).

Ceramic Industries.

Watano Kichiji (Yokohama), Inouye Jihei (Tokyo), Takemoto Kōichi (Toyo), and Murakami Tsuyoshi (Kyoto).—Porcelains.
Matsumoto Sahei and Sanyeigumi, Ishikawa-Ken.—Kutani Porcelains.
Miyagawa Kōzan and Watanabe Kintaro, Yokohama.—Porcelains and Fayences.
Hiochiyen, Tokyo.—Paintings on Porcelains and Fayences.
Itō Tōzan (Kyoto), Suzuki Hachizo (Yokohama).—Fayences.
Kinkozan Sobei, Kyoto.—Awata Fayences.
Chinjukan, Kagoshima-Ken.—Satsuma Fayences.
Yamanaka & Co., Osaka.—Kyoto Porcelains and Fayences.
Suya Kiuhei, Taniguchi Kichijiro, Tominaga Jinshiro, Kawajiri Kihei, Yamamoto Isaburo, Akiyama Komajiro, Watano Gentaro, and Matsumoto Sataro, all of Ishikawa-Ken.—Kutani Porcelains.

Art Metal Industries.

Okazaki Sessei (Tokyo), Shima Sahei (Osaka), Yamanaka & Co. (Osaka), Sanyeigumi (Ishikawa-Ken), Watanabe Kintaro (Yokohama).—Art Bronzes.
Shimozeki Kahei, Tokyo.—Art Bronzes, combined with Metal Inlaid Working.
Namekawa Teisho, Unno Yoshimori, and the Tokyo Carving Art Association.—Metal Carvings.
Hirano Kichibei, Kyoto.—Art Bronzes, Enamelled.
Kutsutani Takijiro, Tokyo.—Carving on Precious Metals.
Suzuki Kichigoro, Tokyo.—Antimony Wares.
Kitajiina Kojiro, Tokyo.—Art Bronzes and Carvings on Silver.

Cloisonne and Enamel Industries.

Ando Jiubei, Suzuki Honda, Bros. & Co., Kawade Shibataro, Kawaguchi Bunzayemon, and Gonda Hirosuke of Nagoya and Inaba Nanaho (Kyoto), Hayashi Kodenji and Hattori Kichibei (Toshima).—Cloisonnes.

Ivory and Wood Carvings.

Kaneda Kanejiro, Yotsugi Tomigoro, Toyama Chōzo, Kato Toyoshichi, Kitajima Kojiro, Kitamura Shikai (all of Tokyo), and Yamanaka & Co. (Osaka).—Ivory Carvings.
Murakami Tsuyoshi (Kyoto), Horikawa Jukichiro and Murakami Kurosaku, of Ishikawa-Ken.—Wood Carvings.

Lacquered Works.

Shibakawa Matayemon (Osaka), Makiye Seizo Kwaisha (Hamamatsu), Shidzuoka Shikk-Kumiai (Shidzuoka), and Shinjo Inokichi (Wakamatsu).—Lacquered Wares.
Kawamoto Kihei, Mikami Kozaburo, Mikami Jisaburo, and Murakami Tsuyoshi, of Kyoto.—Lacquer Works.
Sanyeigumi (Ishikawa-Ken).—Gold Makiye Works.

Cotton and Mixed Fabrics.

Aichi Bussangumi (Nagoya), Abe Kosuke (Tokyo),, Kyoto Aisomegio Kumiai, Naito Koshiro, and Fujimoto Iwajiro (Kyoto).—Cotton Fabrics.

Raw Silk, Silk Thread, etc.

Kyoto Itomono Kumiai (Kyoto), Domio Shimbei (Tokyo).—Silk Cords and Braids.

Silk Fabrics.

Kawashima Jimbei (Kyoto), Abe Kosuke (Tokyo), and Aichi Bussangumi (Nagoya).—Silk Fabrics.
O-ya Hikojiro (Toyama-Ken), Kitahama Sanjuro (Kanazawa), Matsubara Sakaye (Fukui).—Habutaye Silk.

Embroideries and Yuzen Dyed Stuffs.

Nishimura Sozayemon, Tanaka Rishichi, and Tanaka Seishichi, of Kyoto.—Embroideries and Yuzen Dyed Stuffs.
Kawagoye Masakatsu (Kanazawa), Murakami Tsuyoshi (Kyoto).—Embroideries.
Hayashi Tadamasa, Tokyo.—Embroidered Curtains.
Tsuruta Nao, Tokyo.—Embroidered Screens.
Nishimura Jihei, and Hiro-oka Ihei, Kyoto.—Yuzen Dyed Stuffs.

Other Trades and Manufactures.

Fujimoto Shotaro, and Mitani Iwazo, Sakai.—Carpets.
Kutsutani Takijiro (Tokyo).—Purses, Card-Cases, and other Fancy Articles.
Ishizumi Kisaburo (Kyoto), Miyawaki Shimbei (Kyoto), Nagoya Fan Manufacturing Co. (Nagoya), Teshigawara Naojiro (Gifu).—Fans.
Takei Sukejemon (Gifu), Ohta Genzayemon (Shidzuoka-Ken), Inouye Denjuro (Kochi-Ken Niphon Kami Shokwai (Kobe), Teshigawara Naojiro (Gifu).—Papers.
Teshigawara Naojiro, Ozeki Rishichi (Gifu).—Paper Lanterns.
Kawamoto Matakichi (Kyoto), Watanabe Kintaro (Yokohama).—Paper Panels.
Murakami Masanojo, Kyoto.—Toys.
Matsumoto Sahei (Ishikawa-Ken), Murakami Atsushi (Kyoto).—Pictures and Books.
Seiran Simidzu, Kobe.—Furnitures.
Hayami Kichihei, Kyoto.—Wicker Basket, etc.
Niwa Keisuke, Kyoto.—Collective Exhibits of Old Japanese Ceramics.

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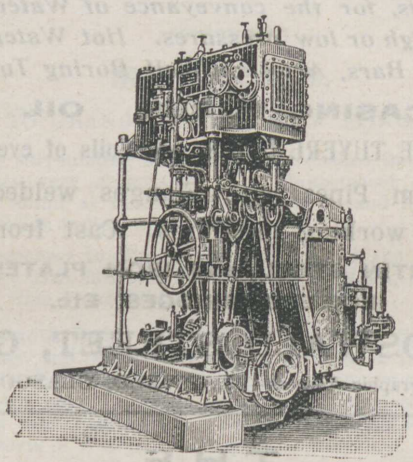

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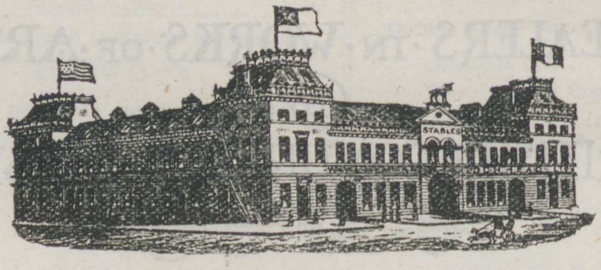

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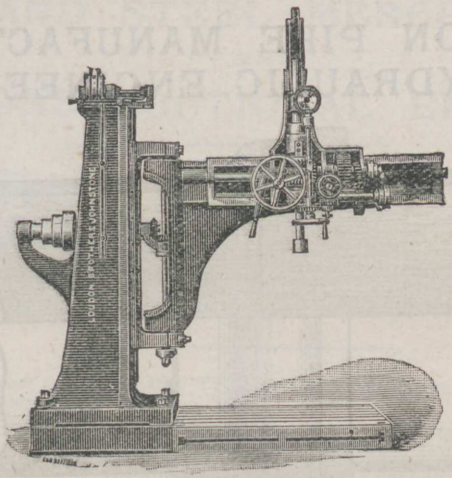

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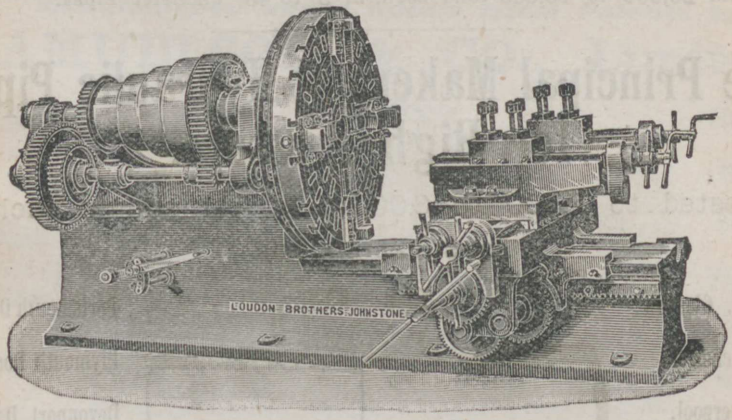

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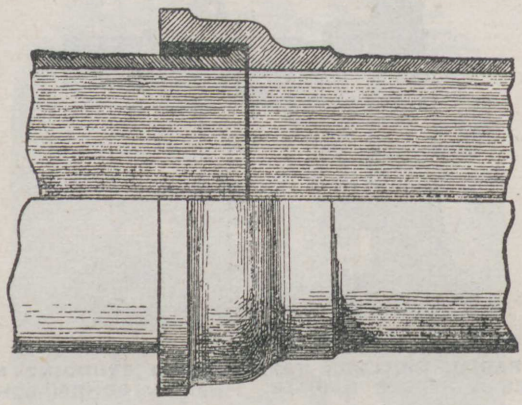

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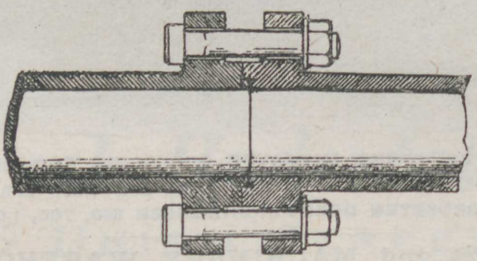

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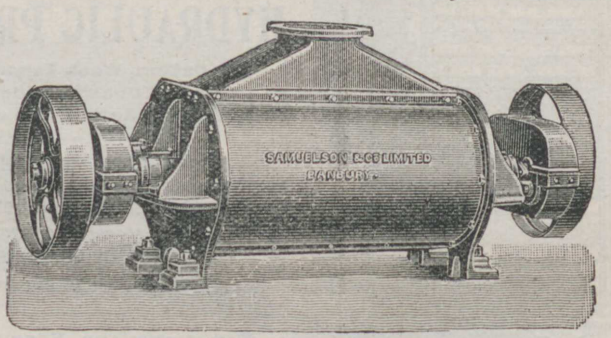

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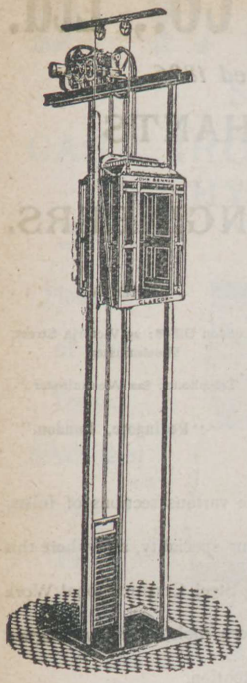

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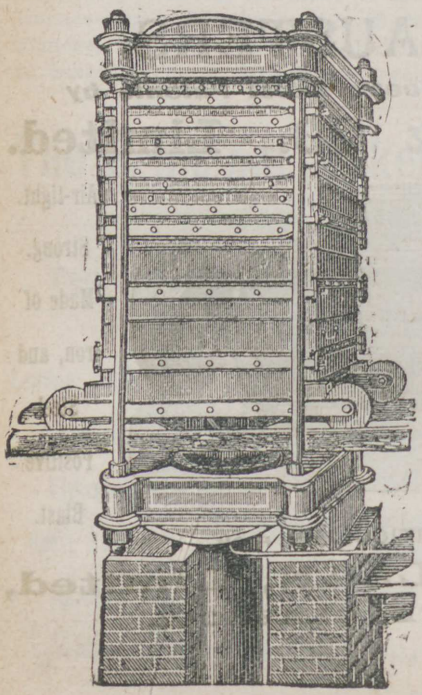

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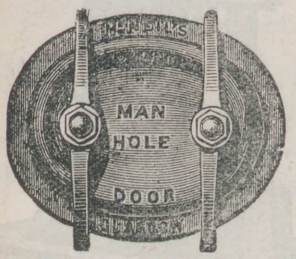

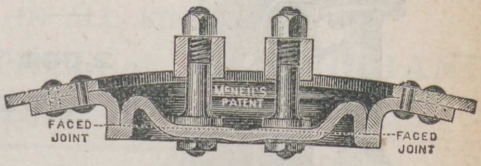

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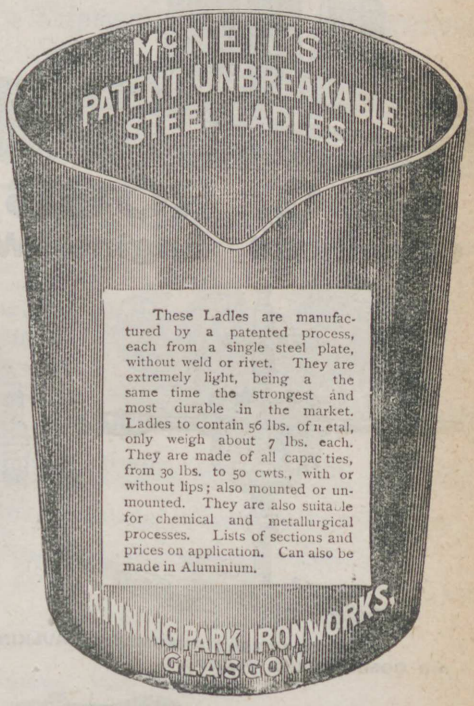



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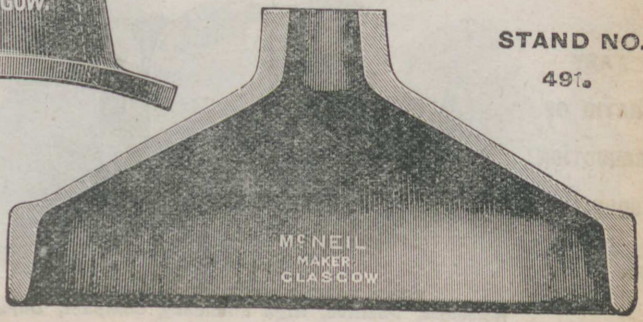
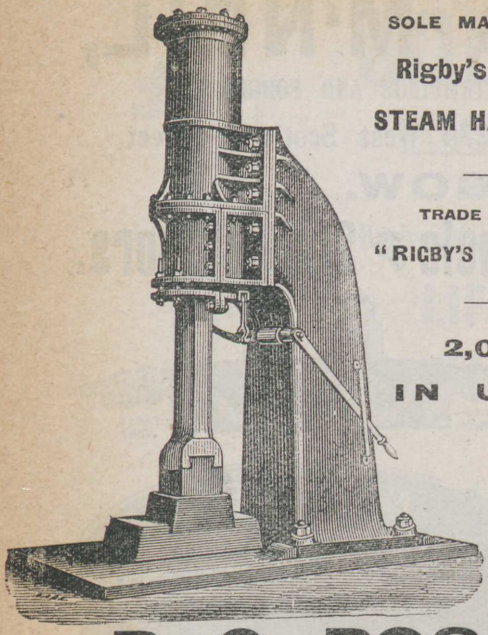


STAND NO. 491.



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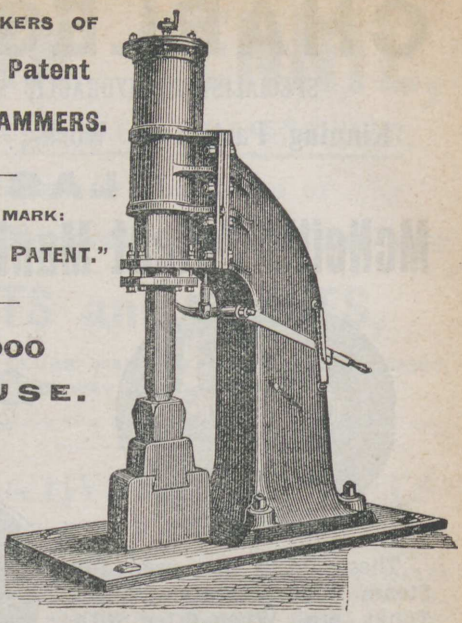

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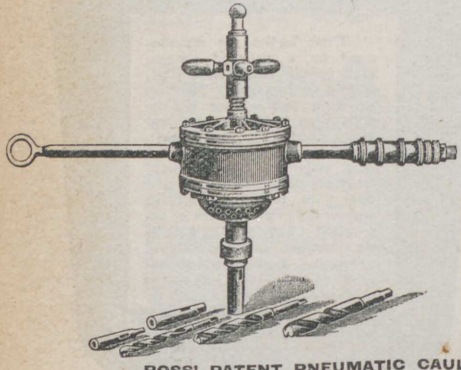

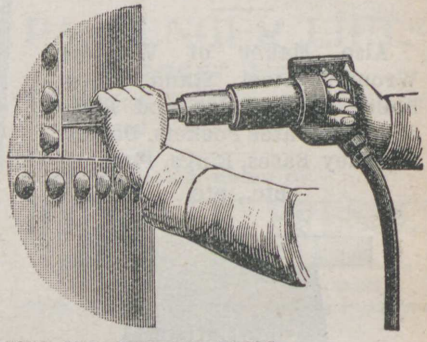

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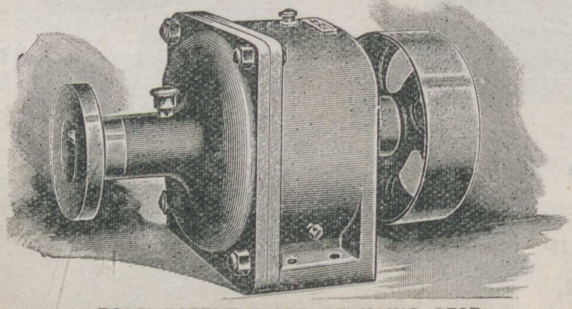

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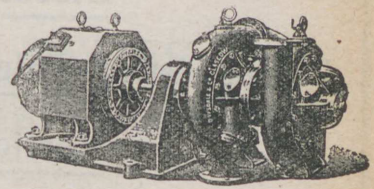

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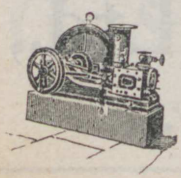

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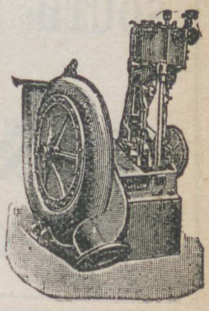

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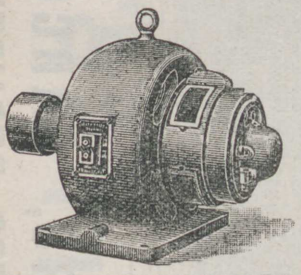

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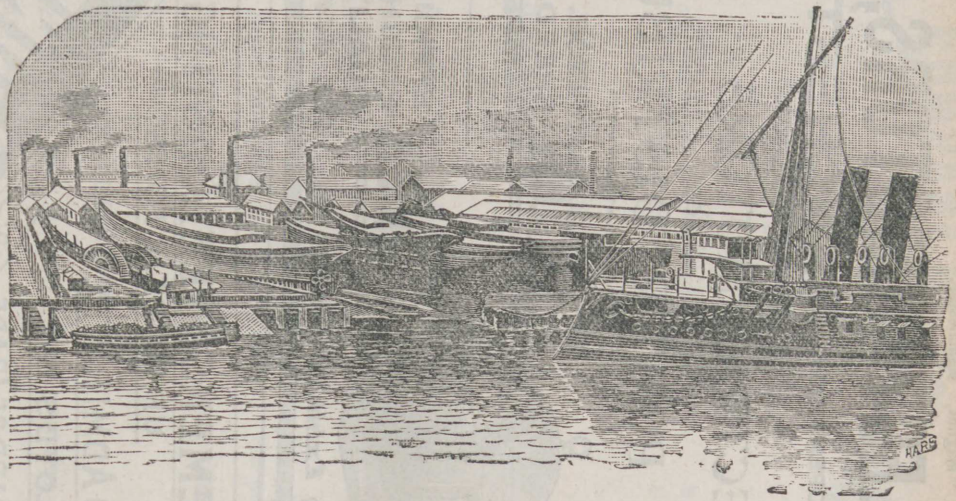

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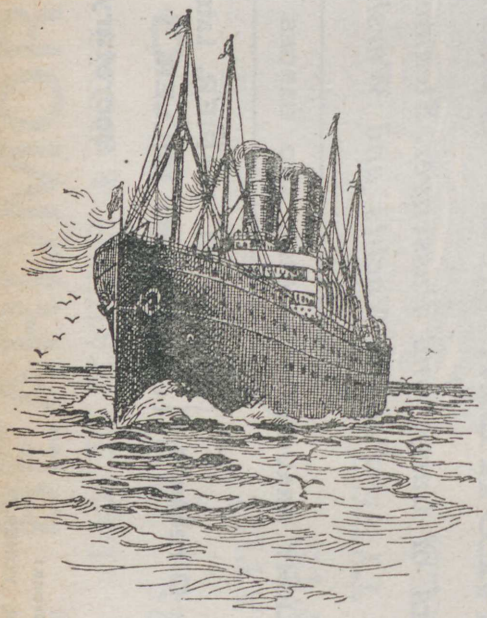

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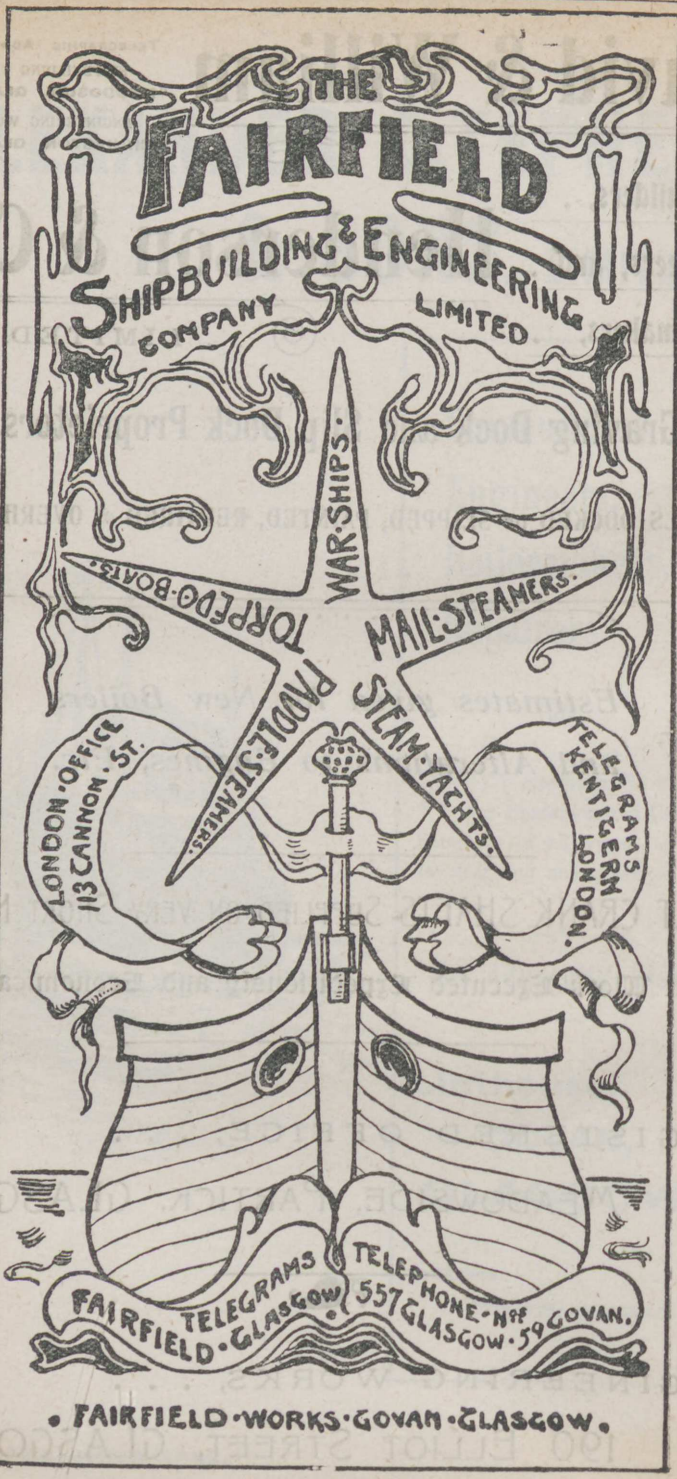
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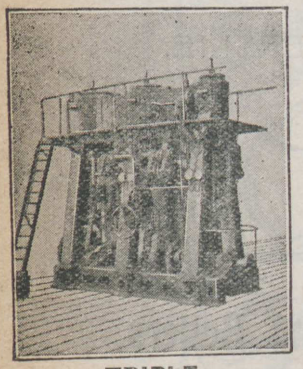

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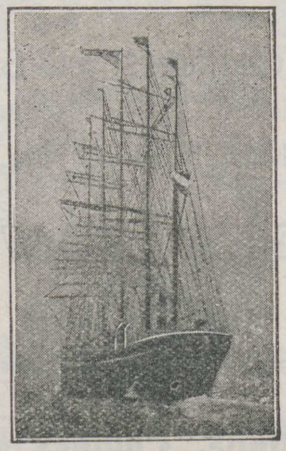

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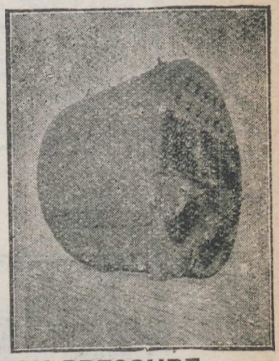

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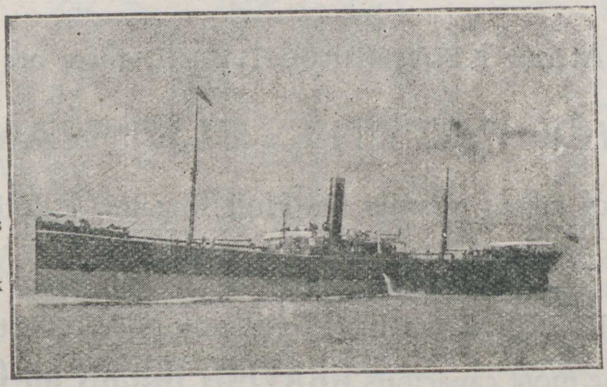

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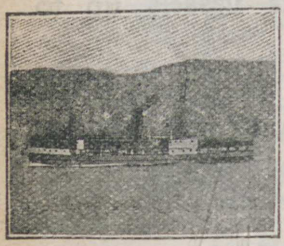
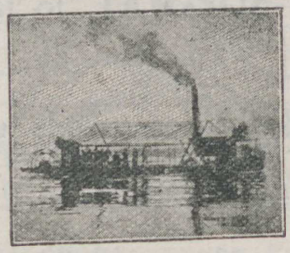


TWIN SCREW.



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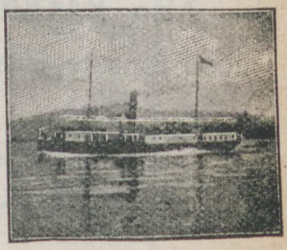

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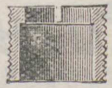

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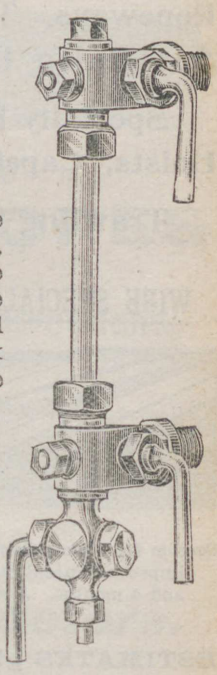



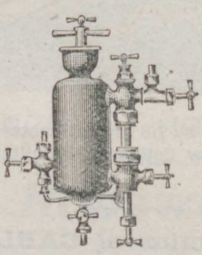

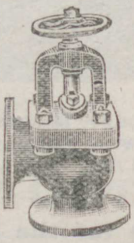

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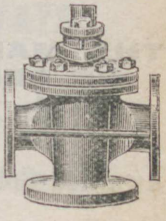

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RUTHERGLEN, GLASGOW.

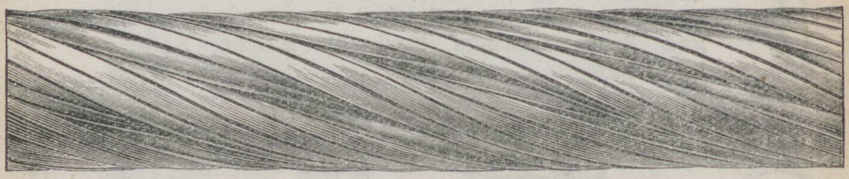
Telegrams: "ROPERY, RUTHERGLEN." Telephone No. 2673.

Manufacturers of all Descriptions of WIRE ROPES for Collieries, Mines, Cableways, Aerial Ropeways, Tramways, Transmission of Power, Suspension Bridges, Ploughing Tackle, etc.

Specially FLEXIBLE WIRE ROPES for Cranes, Hoists, Capstans, Winches, etc.

Trawling Tackle, Hawsers, Ships' Rigging, etc.

WIRE SPECIALLY SELECTED FOR OUR OWN REQUIREMENTS.



Section from worn Band Rope 600 fathoms long by 7/8 inch diameter, Galvanized Special Improved Patent Steel, which ran at Cadzow Collieries, Hamilton, N.B., for 2 years and 4 months. A record life!

ESTIMATES given for the Erection of CABLEWAYS and AERIAL TRAMWAYS.

THE MANUFACTURE OF WIRE ROPES CAN BE SEEN AT OUR STAND IN MACHINERY HALL, No. 430.

Awarded Gold Medal Certificate at Queensland Exhibition, 1897.

CONTRACTORS TO THE LORDS OF ADMIRALTY.

TELEGRAMS: "CALEDONIAN AIRDRIE."

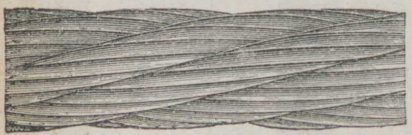
TELEPHONE No 18, AIRDRIE.

CALEDONIAN WIRE ROPE CO., LIMITED.

AIRDRIE BY GLASGOW.

LONDON OFFICE: 3 VICTORIA ST., WESTMINSTER, S.W.

Stand No. 4 in Grand Avenue.





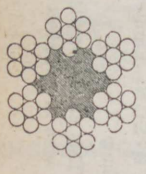
MANUFACTURERS OF

STEEL WIRE ROPES

OF

Highest Quality and Suitable Constructions,

FOR



MINES, COLLIERIES, RAILWAYS,
CABLE TRAMWAYS, SUSPENSION BRIDGES,
SHIPPING, TRAWLING, WELL-BORING,
CRANES, HOISTS, ETC., ETC.

Aerial Ropeway Contractors.

BLONDINS OR SINGLE SPAN ROPEWAYS,

For Lifting and Transporting Material at

QUARRIES, BRICKWORKS, BRIDGE BUILDING, etc., etc.

AERIAL TRAMWAYS on various Systems.

R. S. NEWALL & SON, Limited

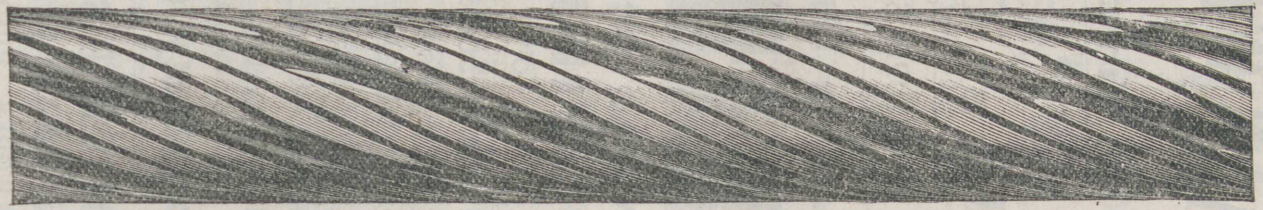
(FOUNDED BY R. S. NEWALL, ORIGINAL PATENTEE).

Wire Rope Works—Washington, County Durham, England.

GLASGOW: - - 19 EXCHANGE SQUARE and 68 ANDERSTON QUAY.

LONDON: - - 11 QUEEN VICTORIA STREET, E.C.

LONDON COUNTY COUNCIL TRAMWAYS BEST RECORD.



MANUFACTURED BY R. S. NEWALL & SON, LIMITED, MAKERS OF ALL DESCRIPTIONS OF WIRE ROPE.

"LONDON COUNTY COUNCIL TRAMWAYS,
"19th December, 1899.

"To Messrs. R. S. NEWALL & SON, Limited,
"Washington, Co. Durham.

"Dear Sirs,—This cable was taken out 10th October, 1899, on account of an accident to one of our 'dummy' Cars, which badly damaged the Cable, otherwise it was in excellent condition, and bar accident would undoubtedly have run six months longer.

"I am, Dear Sirs, Yours faithfully,

"A. BAKER, Manager."

THE NICKEL COMPANY.

(LA SOCIETE ANONYME "LE NICKEL.")

CAPITAL, - £400,000.

MANUFACTURERS OF NICKEL AND COBALT.

REGISTERED OFFICES:
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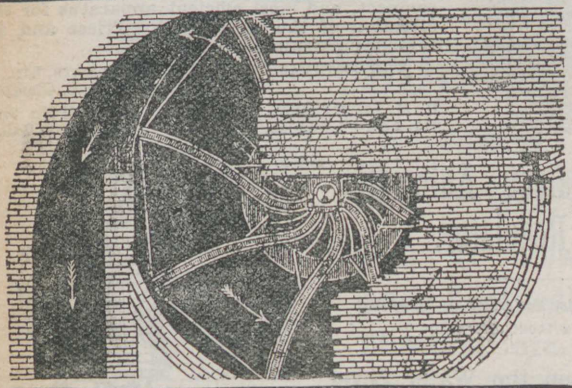
13 RUE LAFAYETTE, PARIS.

MINES AND SMELTING WORKS:
NEW CALEDONIA.

REFINERIES:
ERDINGTON, near BIRMINGHAM.
KIRKINTILLOCH, near GLASGOW.
LE HAVRE, FRANCE.
ISERLOHN, GERMANY.



KESSON
COLLIERY FAN.

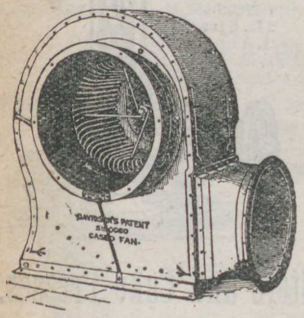
THE BEST IN THE MARKET.
GIVES BETTER CURRENT THAN ANY OTHER TWICE ITS SIZE.

KESSON'S FEED WATER FILTER and OIL EXTRACTOR for MARINE and OTHER ENGINES.

Machinery, Plant, Building and Ground Valued, and Fire Loss Assessed.

Plans for Machinery, Steam Ships, and Buildings, Prepared and Erection Superintended.

A. KESSON,
Consulting Engineer,
45 HOPE STREET, GLASGOW.



DAVIDSON'S PATENT
"SIROCCO"
CENTRIFUGAL
FAN.

DISCHARGES THREE TIMES MORE AIR PER REVOLUTION
than any other Centrifugal Fan of same diameter

DAVIDSON & CO., Ltd.,

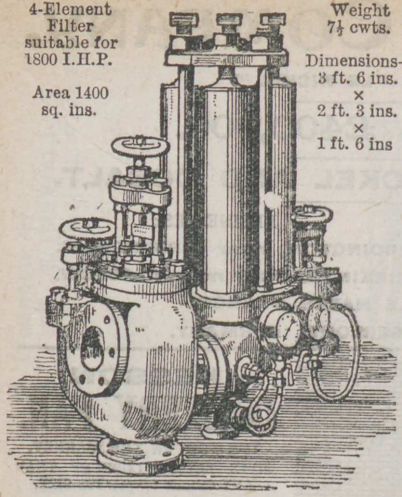
HEAD OFFICE AND WORKS, - - SIROCCO ENGINEERING WORKS,

. . BELFAST. . .

Branch for Scotland, 115 HOPE STREET, GLASGOW.

4-Element Filter suitable for 1800 I.H.P.

Area 1400 sq. ins.



Weight 7½ cwts.

Dimensions—
3 ft. 6 ins.
×
2 ft. 3 ins.
×
1 ft. 6 ins

Boothman's Patent Tubular Feed Filters.

PRINCIPAL ADVANTAGES.

I. Great Accessibility of Filtering Medium.
II. The only Filter with a Combined Automatic Bye-pass and Outlet Valve (actuated by a differential arrangement of areas).
III. The Lightest Filter on the Market.
(30 per cent. less Weight than any of the other best known types.)

First cost moderate. Upkeep trifling. A large number already fitted and under order. Now acknowledged to be the handiest, most compact, and most efficient apparatus for the filtration of the boiler feed. Prices and all further particulars from

THE BOOTHMAN PATENT FILTER SYNDICATE, LTD.,
105 West George Street, Glasgow.

H. M. STEELE, C.A., *Secy.*
Tel. Add. "Forenoon," Glasgow.

See Stall No. 376, Machinery Hall.

The "Reliance" Patent Automatic Feed Water Regulator.

It is applicable to Land and Marine Boilers of all Types and works at any pressure without alteration.

This Apparatus will keep the Water Level within HALF AN INCH of any given Point.

IT IS PERFECTLY AUTOMATIC.

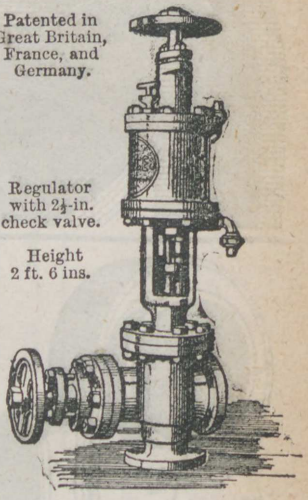
A number can be seen in the Glasgow neighbourhood in actual operation on applying to the Manufacturers, viz.:—

THE "RELIANCE" PATENT FEED WATER REGULATOR CO.,
105 West George Street, Glasgow.

H. M. STEELE, C.A., Secy.
Tel. Add. "Forenoon," Glasgow.

See Stall No. 376, Machinery Hall.

Patented in Great Britain, France, and Germany.



Regulator with 2½-in. check valve.

Height 2 ft. 6 ins.

The Endless Easily Cleth Cleansed Patent Filters and Cake Presses.

A Revolution in Filtration Methods.

Suitable for Sugar Growers and Refiners, Chemical Manufacturers, Paper Makers, Gold Extractors, Brewers, Distillers, Water and Sewage Commissioners, and all Filter and Cake Press Users.

WE MAKE THE FOLLOWING CLAIMS, viz.:—

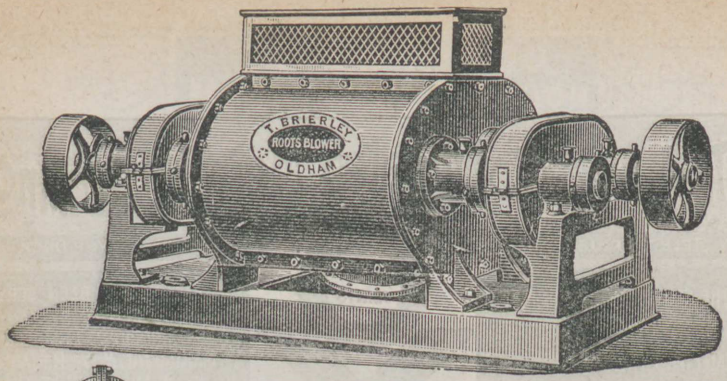
1. One "E.C." Filter can do the work of Five Filters of the old type.
2. It economises time—can be thoroughly cleaned in five minutes.
3. It saves labour—one man can attend to a series of "E.C." Filters.
4. It readily deals with liquids which have previously defied economical treatment.
5. It effects a large saving in Filter Cloth.

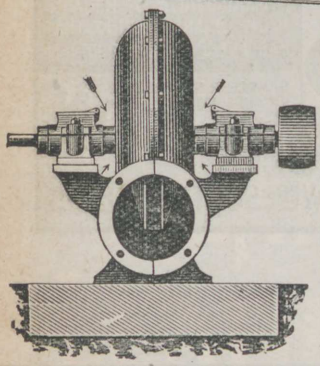
Enquiries Solicited. A Filter (100 Square Feet) can be seen in operation on applying to

THE WILSON FILTER SYNDICATE, LIMITED,
105 West George Street, Glasgow.

H. M. STEELE, C.A., *Secy.*
Telephone No. 5083.

Telegraphic Address, "Forenoon, Glasgow."





THOMAS BRIERLEY,

ENGINEER,

OLDHAM, England,

Maker of Blowing, Exhausting, and Ventilating Fans, Root's Blowers, etc.

Contractors to H.M. Covernment. In use in British and Foreign War Vessels.

Auld's Patent Steam-Reducing Valves

For supplying steam of uniform pressure for any purpose where steam is required at a lower pressure than that in the Steam Boiler.



THESE **HIGH-CLASS VALVES** ARE IN OPERATION ON EXHIBITION MAIN STEAM PIPES FOR DRIVING ELECTRICAL MACHINERY IN MACHINERY HALL.

Thousands of these Valves in use in all parts of the World

Made in all sizes from half inch upwards.

Makers of 20 inch and 24 inch Reducing Valves, the largest in the World.

Applicable for reducing the pressure of Steam, Water, or Air.
Available for all pressures.

Can reduce at one operation through One Reducing Valve from 300 lbs. per square inch to 1 lb. per square inch.

A steady uniform reduced pressure maintained irrespective of fluctuation of Boiler pressure.

Also Makers of Surplus Steam Valves, Steam Traps, Automatic Damper Apparatus, etc., etc.

PATENTEES AND MAKERS,

DAVID AULD & SONS,

Telephone No. 2612.
Telegraphic Address: "REDUCING, GLASGOW."

Whitevale Foundry,

ROCHESTER STREET, GLASGOW.

Taylor's Patent Corrugated Metallic Packing

TELEGRAPHIC ADDRESS "CORRUGATE" TYNE DOCK



THE ATTENTION OF ENGINEERS AND OTHERS IS SPECIALLY CALLED TO THE PRINCIPLE OF THIS CORRUGATED PACKING

THIS PACKING HAS BEEN VERY HIGHLY SPOKEN OF BY MANY OF THE PRINCIPAL ENGINEERS AS MAKING THE MOST RELIABLE JOINT OF ANY PACKING THAT HAS EVER COME BEFORE THEM

CONTRACTORS TO THE ADMIRALTY

SAMPLE RING FREE ON APPLICATION

SOLE MAKERS

NEWTON & NICHOLSON

Tyne Dock Corrugated Packing Wks SOUTH SHIELDS

. . THE . .

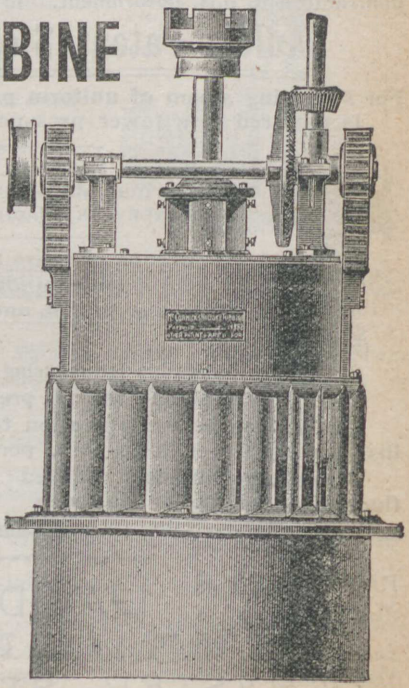
"ACHILLES" TURBINE

FOR

WATER-POWER USERS.

Working successfully in Spinning and Weaving Factories, Paper Mills, Flour Mills, etc.

Drawings and Specifications prepared and Estimates given.



APPLY TO

John MacDonald & Co.,

Hydraulic and General Engineers,

BRIDGE TURBINE WORKS,

POLLOKSHAWS.

Office, 146 WEST REGENT ST., GLASGOW.

Telegraphic Address: "CONSULTING," GLASGOW. Telephone No. 298.

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Telegraphic Address
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THE SECRET OF THE SUCCESS

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FOR DYNAMO AND MOTOR DRIVING

IS ITS

CONSTRUCTION,

Through which it has proved itself to be the MOST PERFECT TRANSMITTER OF POWER, Unequalled for MAIN, PLANE, LATHE and all kinds of HEAVY DRIVING.

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LAMINATED LEATHER WORKS,
252 Main Street, *BRIDGETON.* GLASGOW.

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THE CELEBRATED ENGLISH SPA AND HEALTH RESORT.

The most varied and handsomely appointed Bathing Establishment in Great Britain, recently erected at a cost of £120,000. THE HARROGATE MASSAGE DOUCHE—IMPROVED system of AIR DOUCHE treatment, with English and specially retained Foreign Masseurs and Masseuses.

NATURAL SULPHUR WATER BATHS in all forms; superb Turkish, Russian, and Vapour Baths; Needle Baths; Hot, Cold, and Special Douches, Inhalation and Pulverisation Rooms, and every modern method, with latest improved appliances. The CORPORATION have recently added Electrical Treatment in its varied phases—Constant and Alternating Currents, Greville Electro-Thermic Baths, Dowsing Radiant Heat Baths, and the Electro-Chromopathic Sun Bath.

DRY AND BRACING CLIMATE. PALATIAL HOTELS AND HYDROS, etc.; EXCELLENT DRAINAGE, 200 acres of open green sward. Upwards of 30 miles of flagged and asphalted footpaths. Covered promenade for water-drinkers, etc. Lovely drives, Municipal Orchestra and Military Band, golf links and tennis lawns, theatre, Concert rooms, and select amusements. Splendid train service to and from London and all important centres.

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Hamilton Caldwell & Sons,

SCOTIA LEATHER WORKS,

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SPECIALTIES. **Satin, Glove and Levant Kips, in all classes and Weights. "Scotch" Chrome for Football Boots and Balls. Crup Butts in all weights. Coloured Goods. Rolled Insole Kips, Shoulders, and Bellies, Etc., Etc.**

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H. HENDERSON & SONS,

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SPECIALTIES:—

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Harness Leathers

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LOCKWOOD & CARLISLE, Ltd.,

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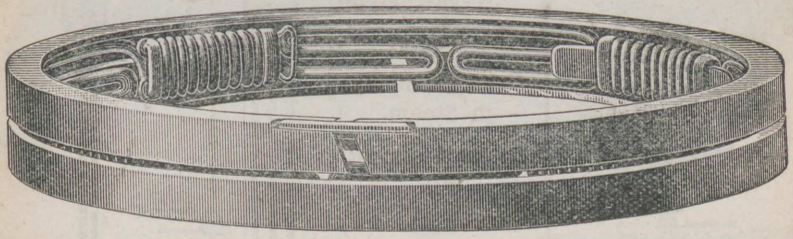
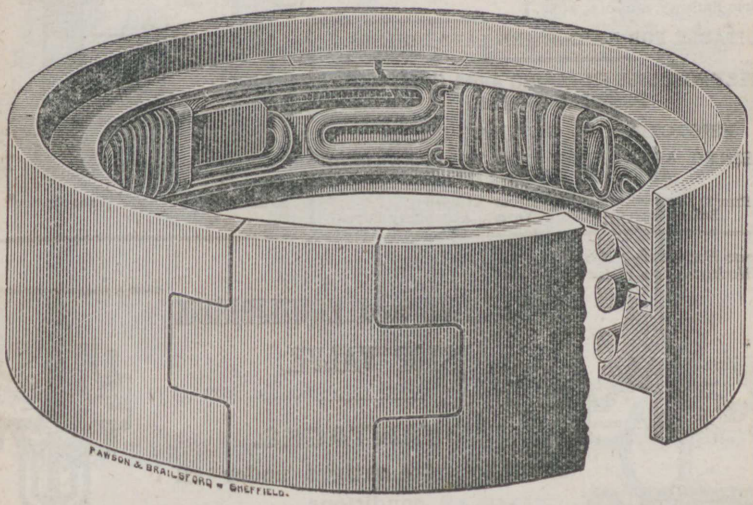
PISTON PACKING RINGS AND SPRING.



PISTON VALVE PACKING RINGS AND SPRING.



We guarantee our PATENT PISTON and PISTON VALVE RINGS and SPRINGS to give complete satisfaction.

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DANIEL FERGUSON, 27 Oswald St., GLASGOW.

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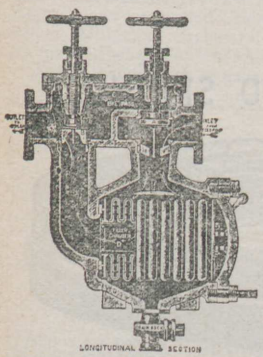
PATENT CORRUGATED AND RINGED FEED-WATER FILTER, EXPANSIVE AND EQUILIBRIUM STOP VALVE, . . . AND . . . SILENT ASH HOIST.

Patent Corrugated and Ringed Feed-Water Filters.



As fitted to S.S. "OCEANIC," S.S. "DEUTSCHLAND," etc., etc., etc.
As fitted to Glasgow Corporation Electric Power Station, Liverpool Overhead Electric Railway, etc., etc., etc.

ADVANTAGES.

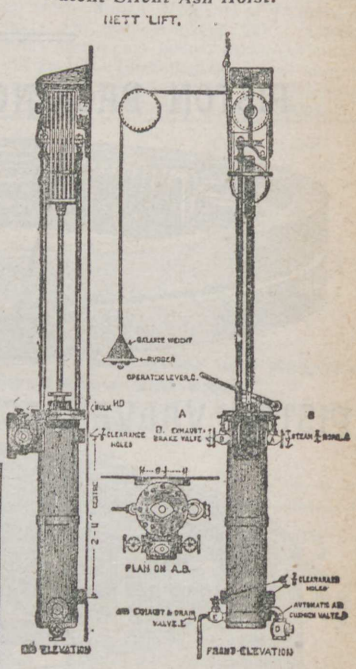
Simplicity in Construction.

Absolutely Silent.

Great Economy in Steam.

Up-keep almost nil.

Patent Silent Ash Hoist.



SUITABLE FOR MARINE AND LAND BOILERS.

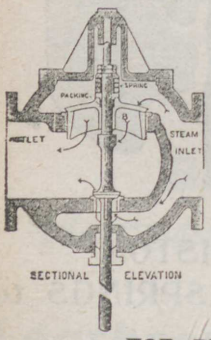
LARGEST POSSIBLE FILTERING AREA IN SMALLEST POSSIBLE SPACE.

EFFICIENCY GUARANTEED.

FILTERING AREA FROM 200 TO 1000 TIMES AREA OF FEED PIPE.

Will Run 20 Days without Cleaning or Attention.
Boiler Water at end of Voyage Absolutely Pure.

Patent Expansive and Equilibrium Stop Valves.

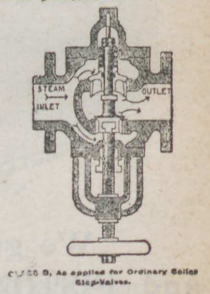


EXPANSIVE and EQUILIBRIUM STOP VALVE.

ADVANTAGES.

Absolutely Steamtight under all conditions.

Easily Opened and Shut without any Resistance.



FOR PRICES AND PARTICULARS APPLY TO

FRED. G. WILLOCK, 109 Hope Street, GLASGOW.

Stand No. 576, Machinery Section, Glasgow International Exhibition, 1901.

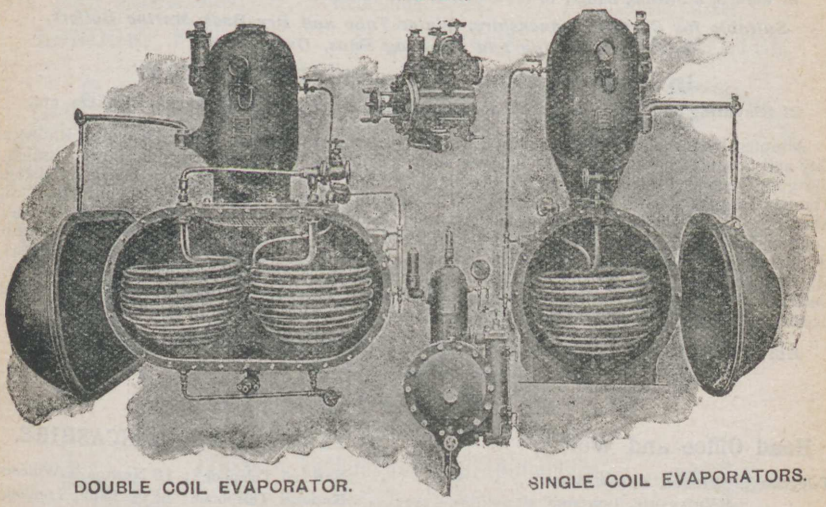
Telegraphic Address—
"ZYNKARA, GLASGOW."

EXHIBITION TELEPHONE,
28 Corporation.

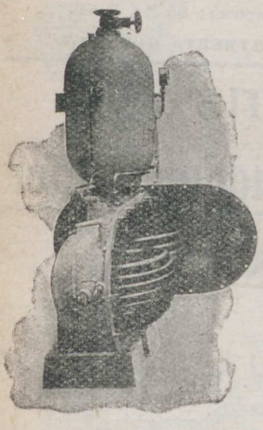
OFFICE TELEPHONE, No. 4832 National.
" " No. 103 Corporation.

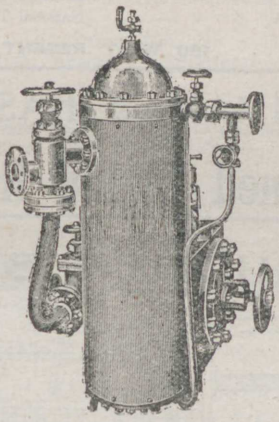
The "DAVIE" Patent Filter, Heater, and Evaporator.

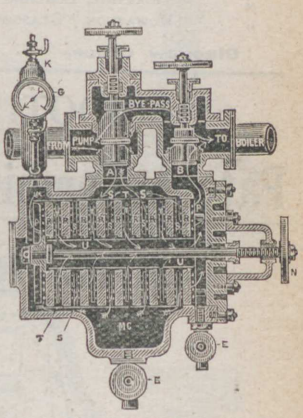
FILTER.



DOUBLE COIL EVAPORATOR. SINGLE COIL EVAPORATORS.







DOUBLE COIL EVAPORATOR. COMBINED HEATER & FILTER. SECTION OF FILTER.

JAMES DAVIE, Patentee and Sole Manufacturer.

Telegraphic Address:—
"EVAPORATOR, GLASGOW."

TELEPHONE No. 5757.
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45 HOPE STREET, GLASGOW.

Also, The DAVIE-WEIR SHIP DERRICK SLEWING GEAR, Marine and Land Engines and Boilers; Stop, Safety, and Change Valves; Pressure Reducing Valves; Steam-Feed, Ballast and Centrifugal Pumps; Light Draft Steamers and their Machinery; also, Launches and Propellers a Speciality.

Agents for DE VOS' System of SWINGING OUT GEAR for LIFE BOATS.

PRICES AND PARTICULARS ON APPLICATION.

SEE OUR EXHIBIT,
STALL No. 556.

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VICARS'

NEW AND IMPROVED, PATENT, ECONOMICAL AND SMOKELESS FURNACES,

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Suitable for Cornish, Lancashire, Water-Tube and Dry-Back Marine Boilers, Evaporating and Roasting Pans, Ovens, Etc.

In combination with VICARS' SYSTEM

Of Elevating and Conveying Coal to the Hoppers, and Conveying Ashes, Clinkers, etc.

Adopted by Largest Manufacturers, Liverpool Overhead Railway; Central London Railway; City and South London Railway; Glasgow District Subway; Glasgow Hydraulic Power Station; Glasgow General Post Office; A. F. Stoddard & Co., Elderslie; Bell's Dye Works, Paisley; Thomas Biggart & Co., Dalry; Morningside Asylum; Gartlock Asylum; Ruchill Hospital; Aberdeen Royal Infirmary; Montrose Asylum; Edinburgh Cable Trams; Dublin, Bristol, London United, Glasgow, Stockton and Middlesbrough, Hull, Dudley, Newcastle, Plymouth, Huddersfield, Nottingham, Cardiff, Chatham, Barnsley, Fulham, etc., Electric Trams; Manchester, Liverpool, Bristol, Portsmouth, Southampton, Bedford, Doncaster, Coatbridge, Derby, Rathmines and Rathgar, Birmingham, Paisley, City of London, Metropolitan, South London, St. Luke's, Wandsworth, Ealing, Newington, etc., Electric Lighting Stations.

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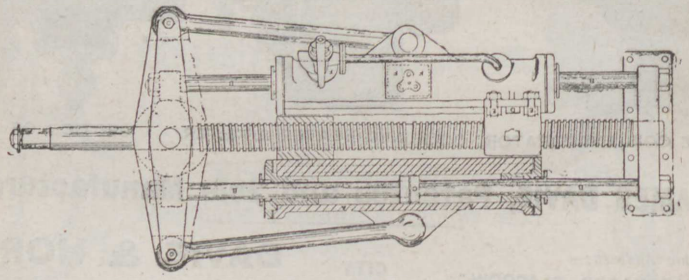
" "VICARSHIP, LONDON." - - - - National Telephone: 5211 Bank, London.
" "HOWATSON," GLASGOW. - - - - National Telephone: 65 XI, Royal.

Glasgow Office, - - 180 WEST REGENT STREET, GLASGOW.

BOOTHMAN & HASTIE'S

Patent Combined Liquid Rudder Buffer

AND RUDDER BRAKE.



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JOHN HASTIE & CO., LIMITED,

Engineers, GREENOCK.

Makers of all kinds of Steering Apparatus.

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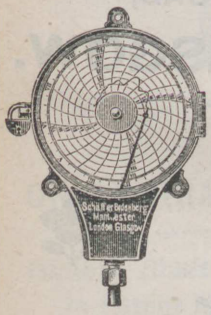

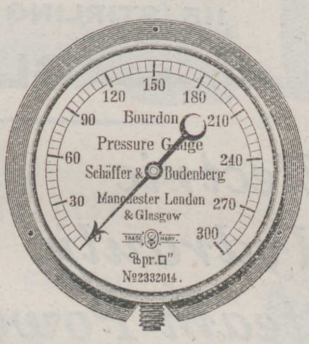

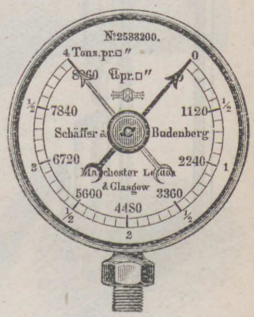

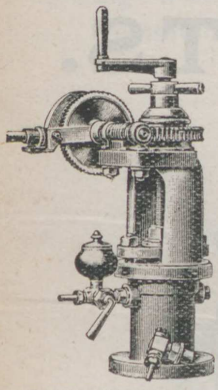

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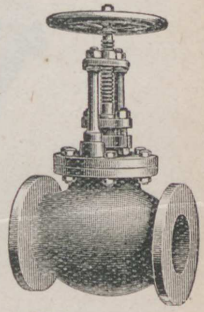

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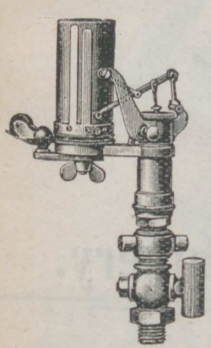

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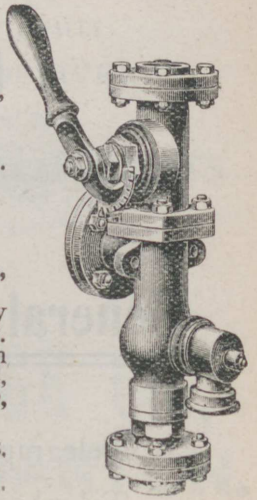

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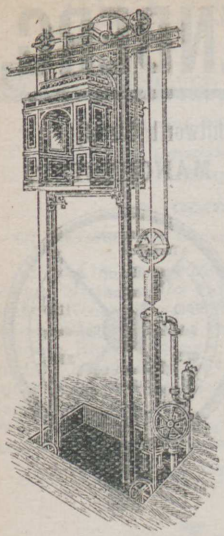

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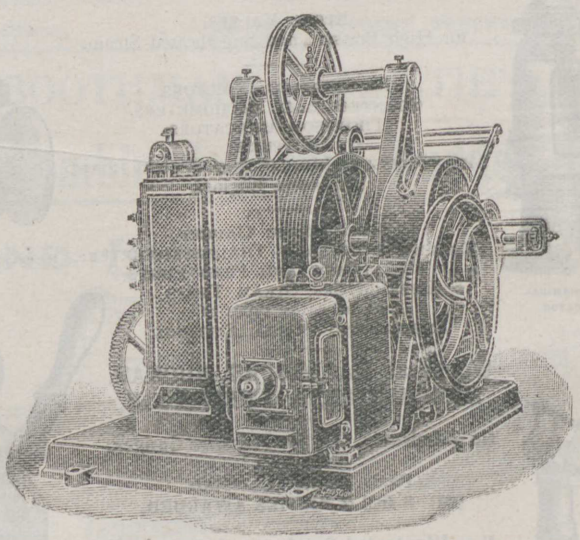

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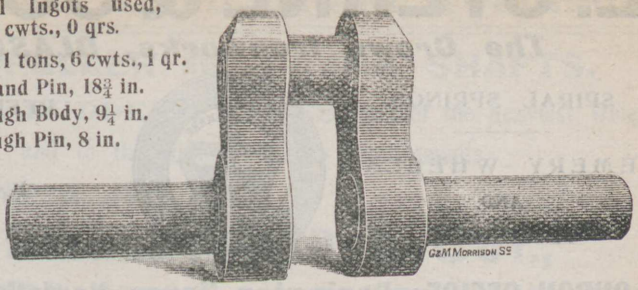

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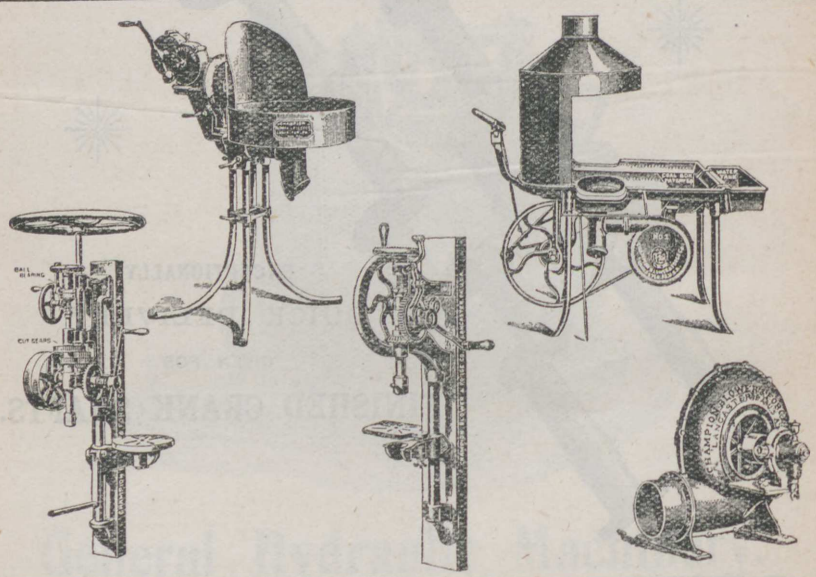

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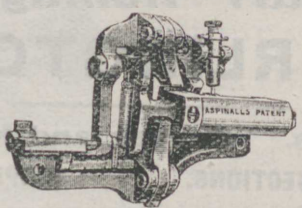

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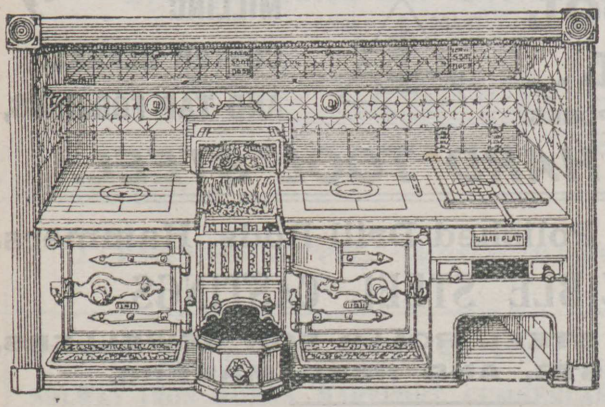

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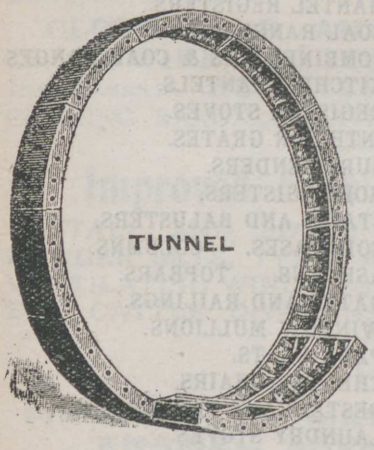



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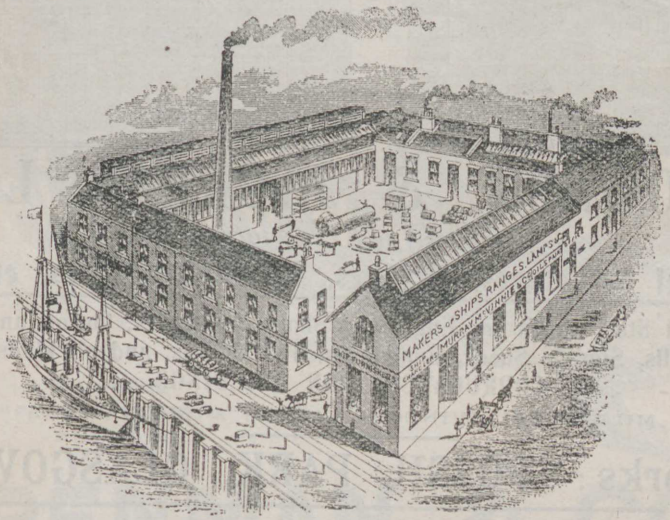

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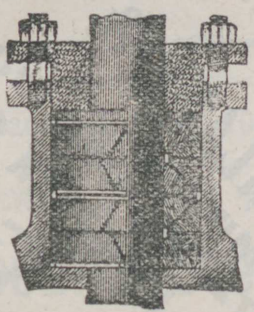

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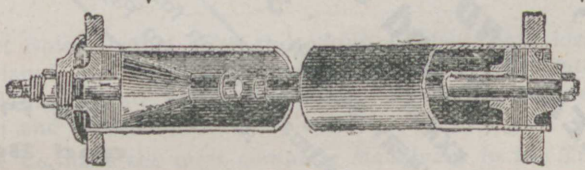

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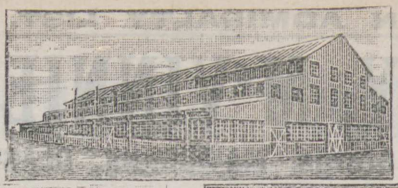

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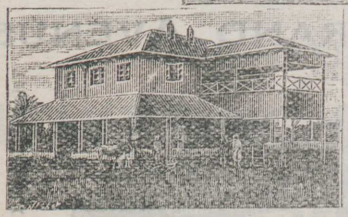

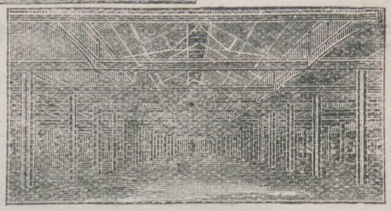

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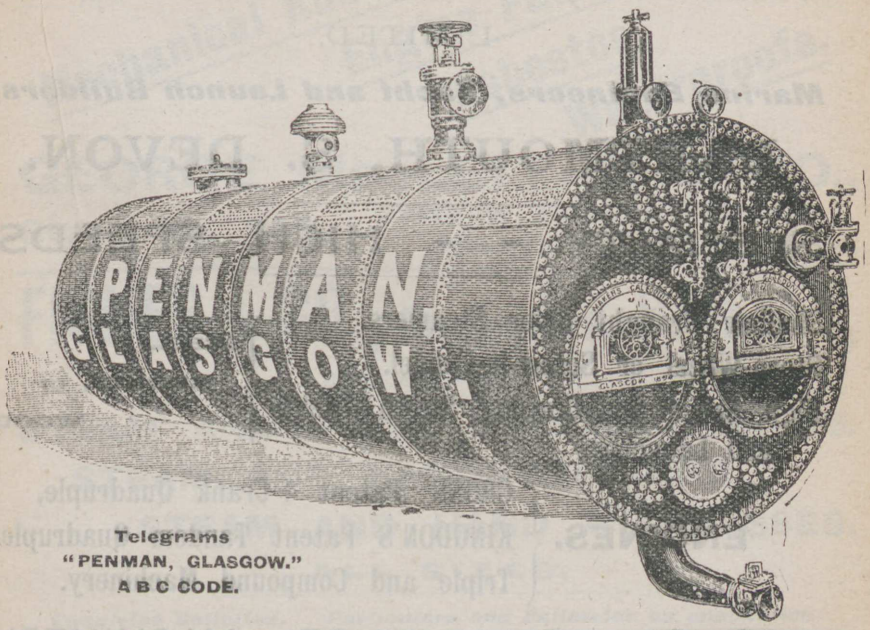
See EXHIBIT in . . . 387. MACHINERY SECTION.

Estimates given for all Classes of Boiler and Steam Pipe Covering.

All Pipes and Boilers in Exhibition covered by us.

P. & CO. have 4 large Lancashire Boilers working in the Exhibition, supplying Steam to the heavy Machinery.



Telegrams
"PENMAN, GLASGOW."
A B C CODE.

PENMAN & CO.,

Caledonian Boiler Works,

GLASGOW.

LONDON OFFICE: Leadenhall House, 101 Leadenhall Street, E.C.

MAKERS OF ALL TYPES OF

High-Pressure Steam Boilers,

IN IRON AND STEEL.

Rivet Holes Drilled after the plates are bent into form. Edges of Plates planed and corners thinned by means of our Patent Machine, thus avoiding fracture by local heating. Holes in end plates for flues bored out and turned up on outer edge.

P. & Co. have the most complete Machinery in the Trade.

Always a number of New Steam Boilers ready for IMMEDIATE DELIVERY.

SIMPSON, STRICKLAND & CO.,

LIMITED,

Marine Engineers, Yacht and Launch Builders,

DARTMOUTH, S. DEVON.

SPECIALTY, - - HIGH SPEEDS.

Shallow Draught River Steamers.
Stern-Wheel or Screw-in-Tunnel.
High Speed and Cruising Steam Yachts and Launches.

STEEL, BRONZE, or WOOD.

ENGINES. CROSS' Patent 4-Crank Quadruple, KINGDON'S Patent Tandem Quadruple, Triple and Compound Machinery.

SIDE OR STERN WHEEL MACHINERY.

Water Tube Boilers,

SIMPSON, STRICKLAND & CO. PATENTS,
And THORNYCROFT-CROSS PATENTS.

S. S. & CO.'S Pat. BRASS LINED TUBES,

FOR WATER TUBE BOILERS.

Absolutely Prevent Pitting.

SPECIAL LIGHT HIGH-SPEED ENGINES,

For Forced Draught and Electric Light.

. . REVOLUTIONS UP TO 5,000 PER MINUTE. . .

SEE OUR STAND, No. 507.

Telephone: No. 2, DARTMOUTH.

Telegraphic Address: "ENGINEERS, DARTMOUTH."

Telegrams: "CAOUTCHOUC, GLASGOW." Telephones 891 and 6212.

Mechanical Rubbers. Engine Packings. Asbestos. Waterproofs.

GEORGE MacLELLAN & CO.,

Stand No. 262. Glasgow Rubber Works, MARYHILL, GLASGOW.

FISHER & CO., Engineers, PAISLEY,

Makers of

STEAM AND HAND STEERING GEARS.
STEAM AND HAND CAPSTANS.
STEAM AND HAND WINDLASSES.
ALL SIZES.

Enquiries Solicited. Particulars and Estimates on application.

"EUREKA"

GAUGE GLASSES.

TO ENGINEERS AND USERS OF STEAM POWER GENERALLY.

We beg to draw your attention to our EUREKA GAUGE GLASSES. Their Specialities are their GREAT DURABILITY. They bear any VARIATION OF TEMPERATURE, and do NOT CHANGE COLOUR.

Our Glasses have lately been tested by an Inspector for the Indian State Railways to the extraordinary pressure of 6,800 lbs. per square inch. We are satisfied that anyone after giving them a trial will use no other.

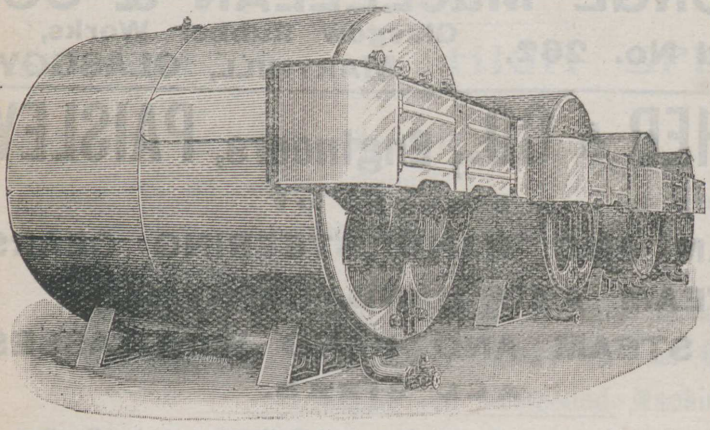
TOMEY & SONS, Tay Glass Works, PERTH.

LINDSAY BURNET & CO.,

Moore Park BOILER Works,

Govan, GLASGOW.

Supply and erect Steam Generating Plant and Accessories for all kinds of Installations.



GROUP OF DRY-BACK BOILERS.

Boilers

Feed-Heaters

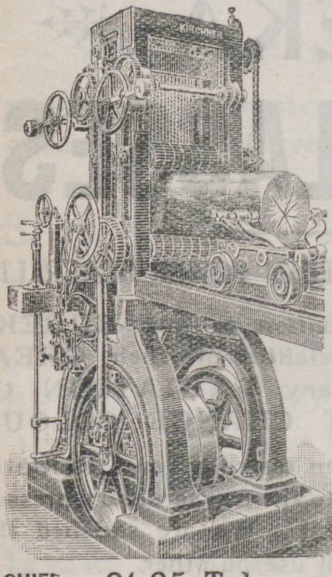
Super-Heaters

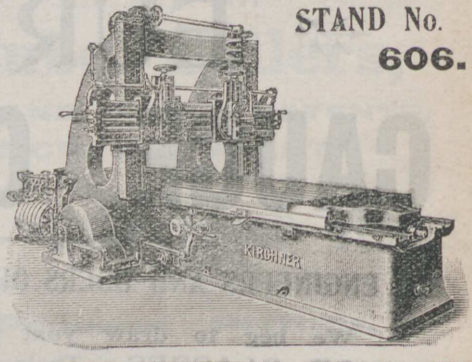
Piping

Valves

☞ **See our Stand in the Machinery Hall.** ☜

STAND No. 606.





EHK. KIRCHNER'S NEW PATENT HIGH-SPEED METAL PLANING MACHINE, will turn out more work than the best American and European Iron Planers.

Can be seen at work in the Exhibition.

KIRCHNER & CO.,

CHIEF OFFICES: 21-25 Tabernacle Street, LONDON, E.C.

THE LARGEST MAKERS IN THE WORLD OF

Sawing and Woodworking Machinery.

Over 70 Highest Distinctions. | ***Paris, 1900: "GRAND PRIX."***

TELEGRAPHIC ADDRESSES, - - { "HALLFORD, LONDON." "HALLFORD, DARTFORD."

A1 AND ABC (4TH EDITION) CODES USED.

J. & E. HALL'S

Patent Refrigerating and Ice-making Machinery

(PATENT DRY AIR CARBONIC SYSTEM).

800 MACHINES FITTED ON BOARD SHIP

For the Frozen Meat Trade, Chilled Meat Trade, Preserving Passengers' Provisions, Fruit and Butter Importation, etc., and many HUNDREDS SUPPLIED on Land for all PURPOSES connected with REFRIGERATION AND ICE-MAKING.

80 MACHINES NOW FITTING ON BOARD SHIP.

THESE MACHINES are EXTREMELY SIMPLE. Use a material having no NOXIOUS or POISONOUS FUMES, and the Machines are THEREFORE PLACED IN THE MAIN ENGINE ROOM ON BOARD SHIP, WHERE THEY COME UNDER THE ATTENTION OF THE ENGINEER ON WATCH. Being fitted with a SAFETY VALVE, no neglect or ignorance can cause an Accident.

Fruit Cold Storage and Transport a Speciality.

SEE MACHINE IN MOTION, STAND No. 580.

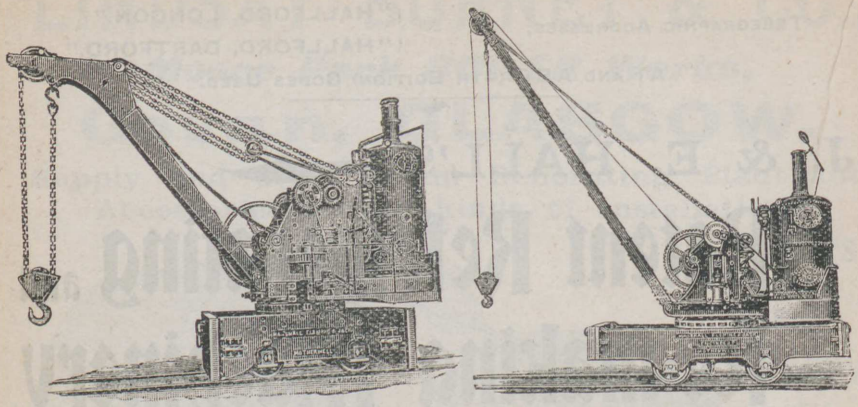
J. & E. HALL, LIMITED,

DARTFORD IRONWORKS, KENT,

And 23 ST. SWITHIN'S LANE, LONDON, E.C.

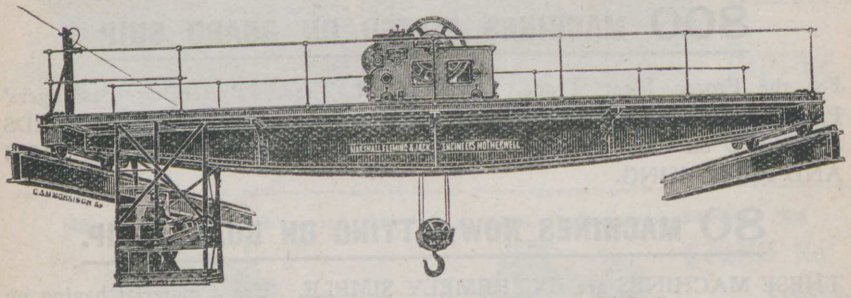
Sole Agents for Scotland—

MORRIS, WARDEN & CO., 25 Gordon St., GLASGOW (Stand No. 580)



LOCO. and PORTABLE STEAM CRANE

For Contractors, Steel Works, Wharves, etc.

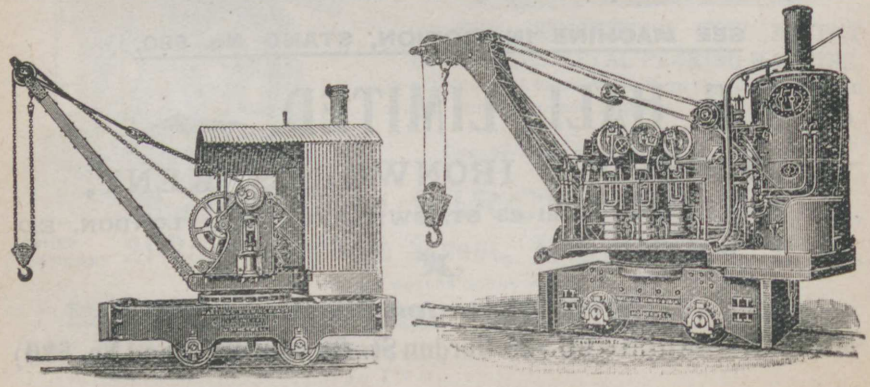


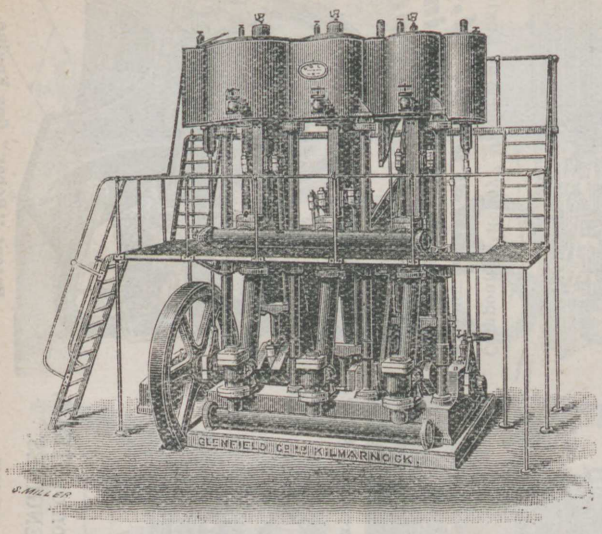
OVERHEAD TRAVELLERS,

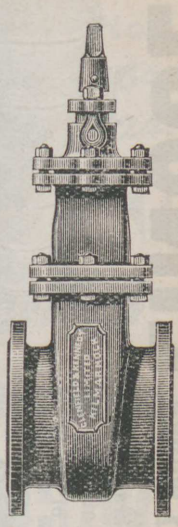
Hand, Rope, Steam or Electric, up to 100 tons.

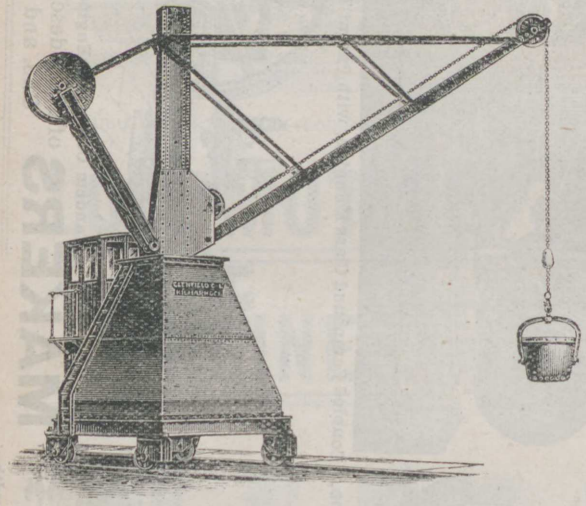
MARSHALL, FLEMING & JACK,

Motherwell, Scotland.











Glenfield & Kennedy, Ltd.,

HYDRAULIC ENGINEERS,

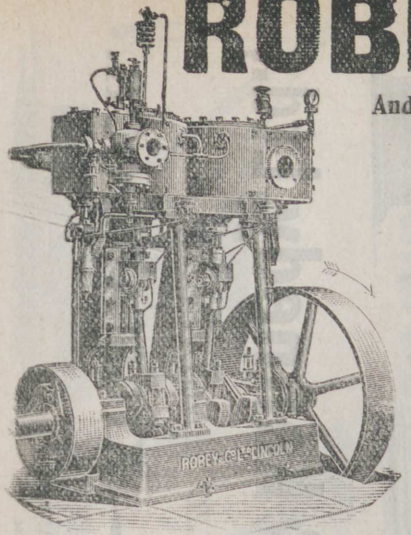
KILMARNOCK.

Telegrams:—"GLENFIELD, KILMARNOCK."
Telephone No. 88, KILMARNOCK.

ROBEY & CO., Ltd., GLOBE WORKS, LINCOLN

And 79 QUEEN VICTORIA ST., LONDON, E.C.

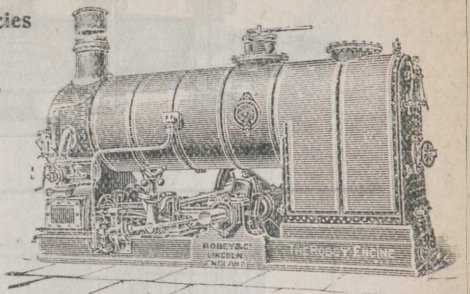
Branches and Agencies in all parts of the World.



Compound Vertical High-Speed Engine.

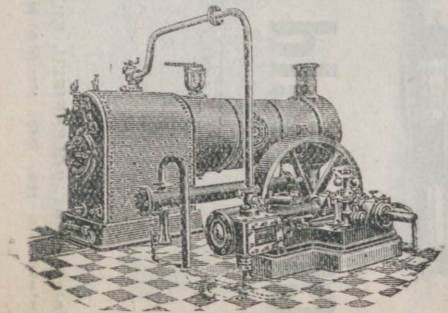


Coupled Compound Class E Engine, with Patent Trip Expansion Gear.

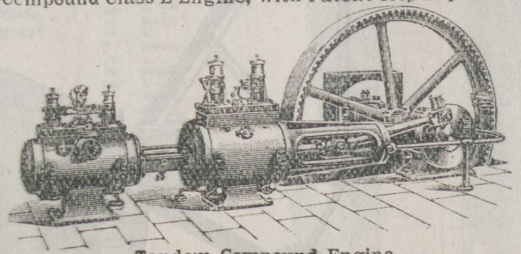


Compound "Robey" Undertype Engines.

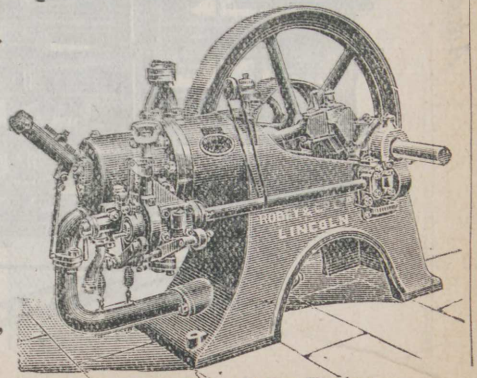
N.B.—Upwards of 21,000 Engines at Work in all parts of the World.



Medium Stroke Horizontal Engine, with Separate Locomotive Boiler.



Tandem Compound Engine.

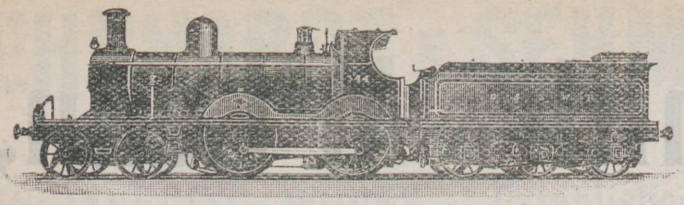


Patent "Robey" Gas Engine.

MAKERS of every description of STEAM, GAS, and OIL ENGINES.

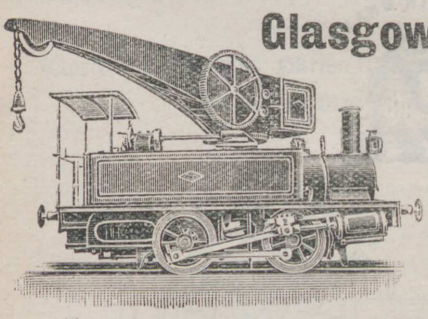
ILLUSTRATED CATALOGUES POST FREE.

N.B.—Awarded GOLD MEDAL, Paris Exhibition, 1900.



STAND Nos. 364, 524.

DŬBS & Co.



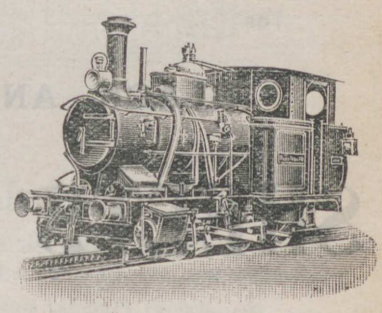
DŬBS' PATENT CRANE-LOCOMOTIVE.

Glasgow Locomotive Works,

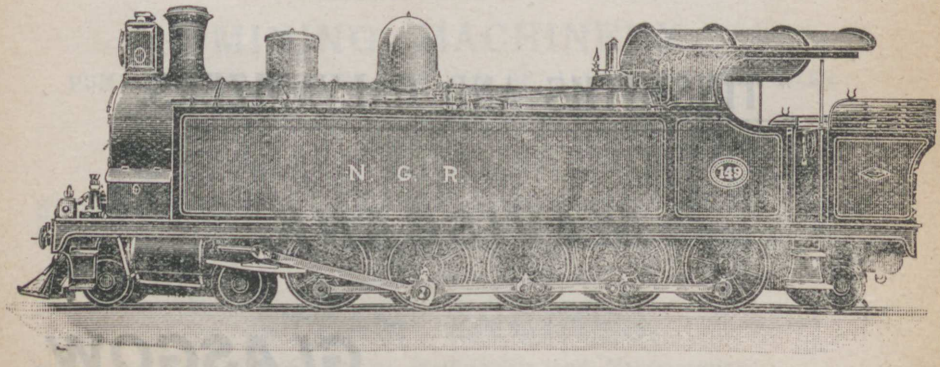
GLASGOW,

MANUFACTURERS OF

LOCOMOTIVE ENGINES.



"ABT" MOUNTAIN CLIMBER.



LONDON ADDRESS: 16 VICTORIA STREET, WESTMINSTER.

Smith & McLean,

Limited.



MANUFACTURERS

OF

BLACK AND GALVANIZED

SHEETS AND BARS.

TINSMITHS AND GALVANIZERS.

MAVISBANK,

GLASGOW.

EHRHARDT & SEHMER,

Gesellschaft mit beschränkter Haftung,

ENGINEERING WORKS. Established 1876.

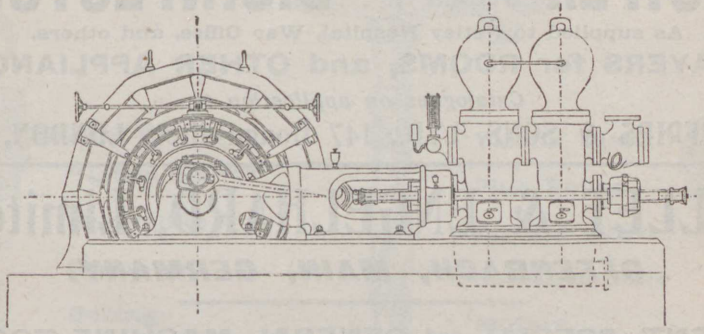
SCHLEIFMÜHLE, POST SAARBRÜCKEN,

GERMANY.

Telegraphic Address: MASCHINENFABRIK SCHLEIFMÜHLE, SAARBRÜCKEN.

World's Exhibition, Paris, 1900: Grand Prix and Gold Medal.

HIGHEST AWARDS.



"Expresspumpe Schleifmühle" Patent.

High speed pump, specially adapted to be driven by Electromotor.
146 revolutions, 650 gallons per minute. Pressure 750 lbs. per square inch.

Exhibited at the British Schuckert Electric Company's Pavilion.

MINING MACHINERY.

PUMPING AND HOISTING ENGINES OF ALL TYPES AND SIZES.

METALLURGIC MACHINERY.

High-Class Engines for Rolling Mills of all types and sizes.

Blowing Engines of all types and sizes.

STEAM ENGINES.

With distribution by Piston-valve and Valve-motion.

PURE WATER.

The Pasteur Chamberland Filter

Was awarded the only Grand Prix, Paris, 1900.

EQUIFEX SATURATED STEAM . . DISINFECTORS

As supplied to Netley Hospital, War Office, and others.

SPRAYERS for ROOMS, and OTHER APPLIANCES.

Catalogues on application to

J. DEFRIES & SONS, LTD., 147 Houndsditch, LONDON, E.C.

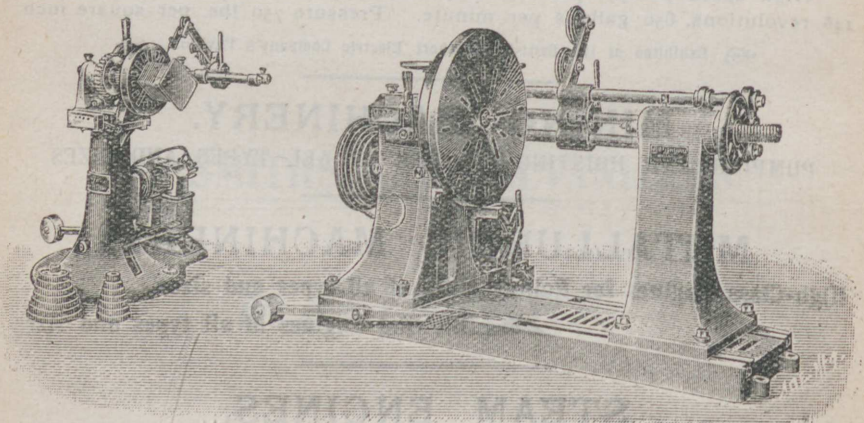
COLLET & ENGELHARD, Limited,

OFFENBACH, MAIN, GERMANY.

PATENT, SPECIAL and GENERAL MACHINE TOOLS.

Portable Universal Radial Drilling Machine. *DRIVEN BY ELECTRIC MOTOR.*

Portable Universal Drilling and Tapping Machine.



Winding Machines for Winding Field Coils.

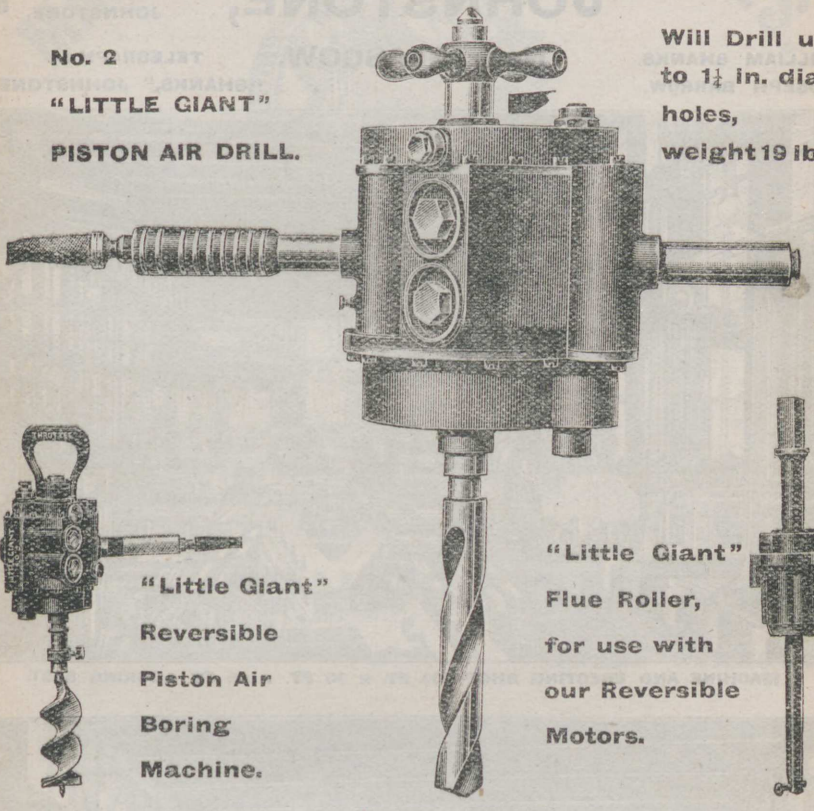
"Little Giant" Pneumatic Tools,

MANUFACTURED IN ENGLAND.

Send for our Catalogue of Pneumatic Tools.

No. 2 "LITTLE GIANT" PISTON AIR DRILL.

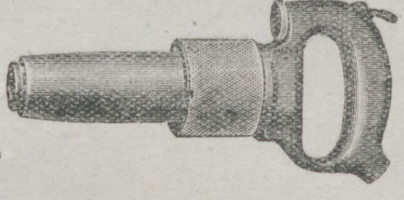
Will Drill up to 1¼ in. dia. holes, weight 19 lbs.



"Little Giant" Reversible Piston Air Boring Machine.

"Little Giant" Flue Roller, for use with our Reversible Motors.

"Little Giant" Hammers.



Chipping, Caulking, Riveting, etc.

The International Pneumatic Tool Co., Ld.

Works: CHIPPENHAM, WILTS, ENGLAND.

Main Offices: **PALACE CHAMBERS, 9 Bridge St., WESTMINSTER, S.W.**

THOS. W. FORD, *Manager.*

STAND No. 441, Machinery Hall, and 1050 in Grounds.

Agents for Scotland – JAMES McILWRAITH & CO., 92 West Regent Street, Glasgow.

THOMAS SHANKS & CO.,

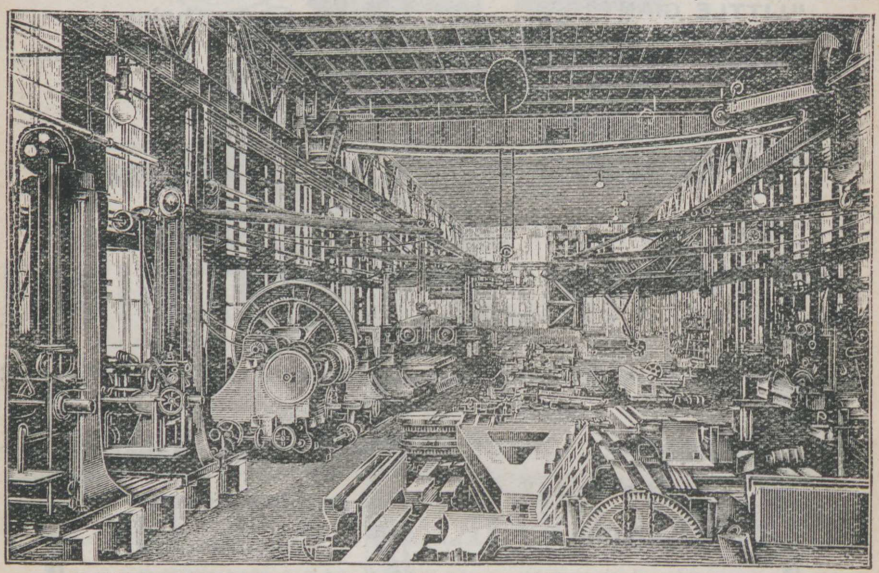
HEAVY MACHINE TOOL MAKERS,

JOHNSTONE, Near GLASGOW.

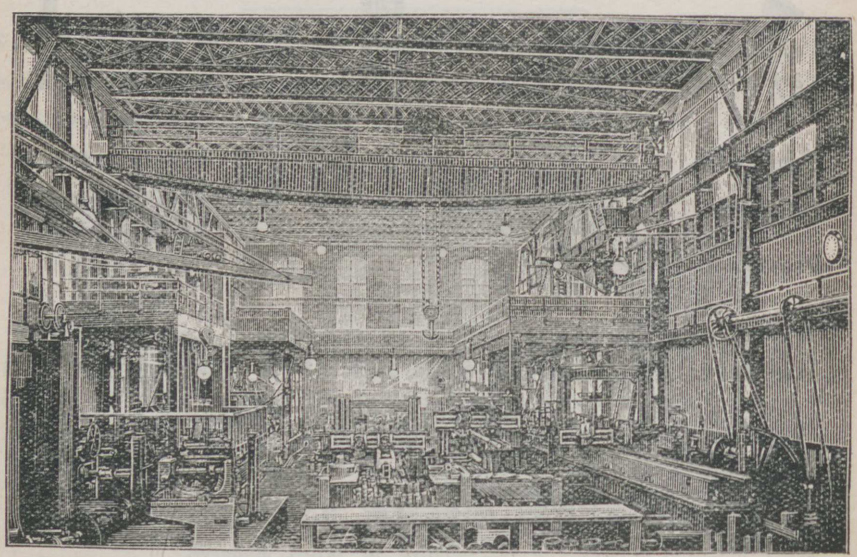
TELEPHONE: JOHNSTONE, 5

WILLIAM SHANKS.
JOSEPH BARROW.

TELEGRAPH: "SHANKS," JOHNSTONE.

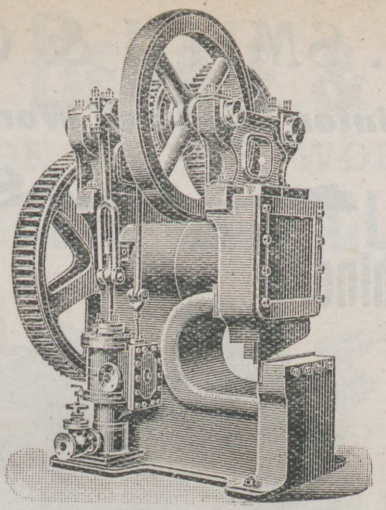


MACHINE AND ERECTING SHOP 500 FT. x 70 FT. x 45 FT. LOOKING EAST.



MACHINE AND ERECTING SHOP 500 FT. x 70 FT. x 45 FT. LOOKING WEST.

MACHINE TOOLS.



CRAIG & DONALD, Ltd.,

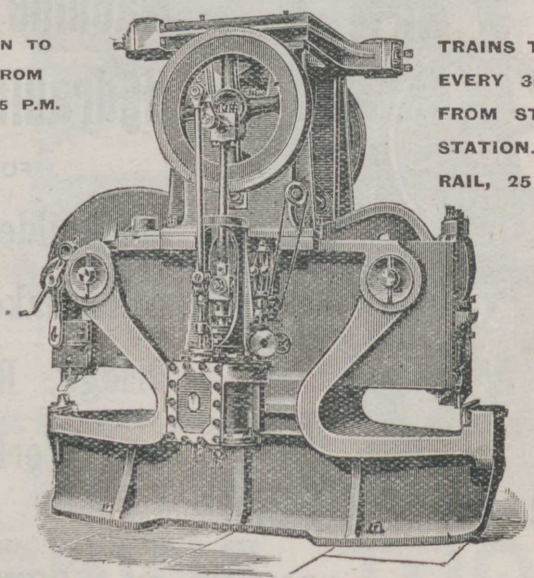
Manufacturers,

JOHNSTONE

(Near GLASGOW).

WORKS OPEN TO VISITORS FROM 10 A.M. TO 5 P.M.

TRAINS TO JOHNSTONE EVERY 30 MINUTES . . FROM ST. ENOCH . . . STATION. JOURNEY BY RAIL, 25 MINUTES. . .



A. & W. SMITH & Co., Ltd.,

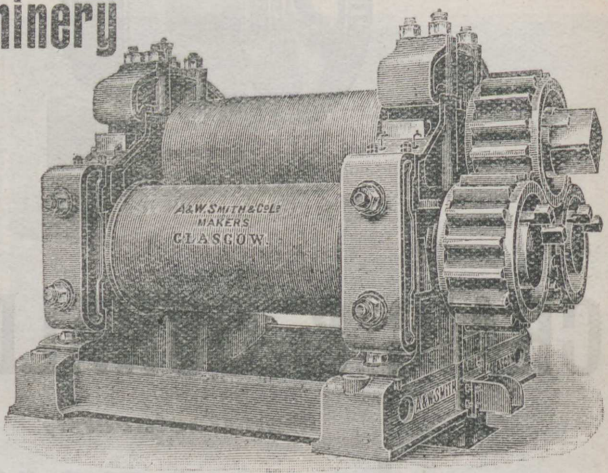
Eglinton Engine Works,

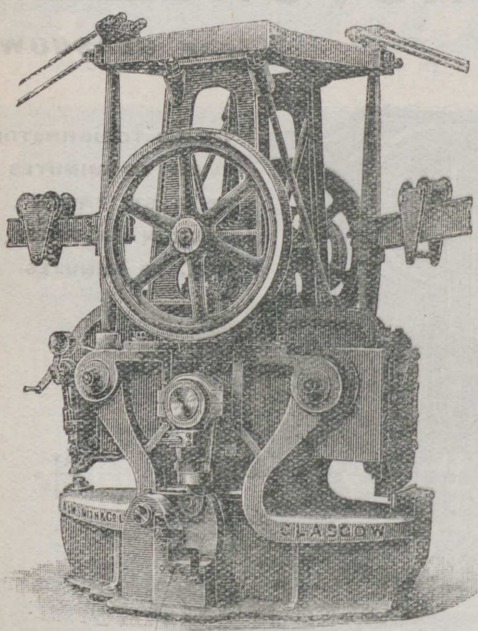
GLASGOW.

Sugar Machinery

Mills,
Triple Effets
Vacuum Pans,
Vacuum Pumps

Complete Installations.





Machine and Hydraulic Tools

FOR

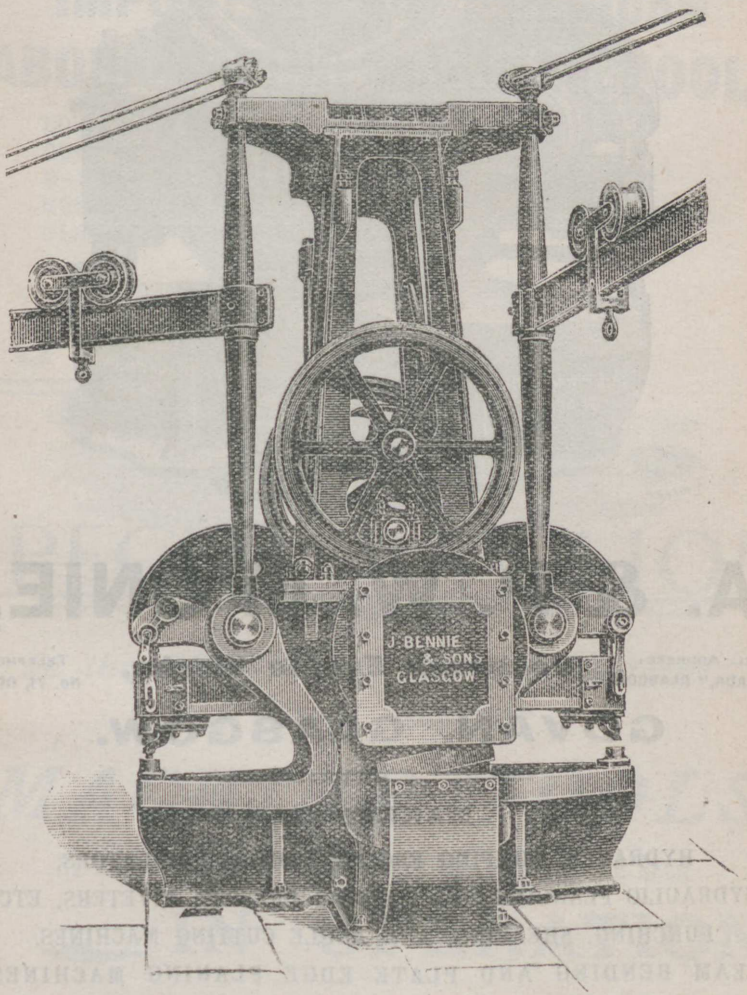
Shipbuilders,
Boilermakers,
Bridge, Roof, and
Iron Works.

Telegrams, "ENGINE, GLASGOW."

JAMES BENNIE & SONS,

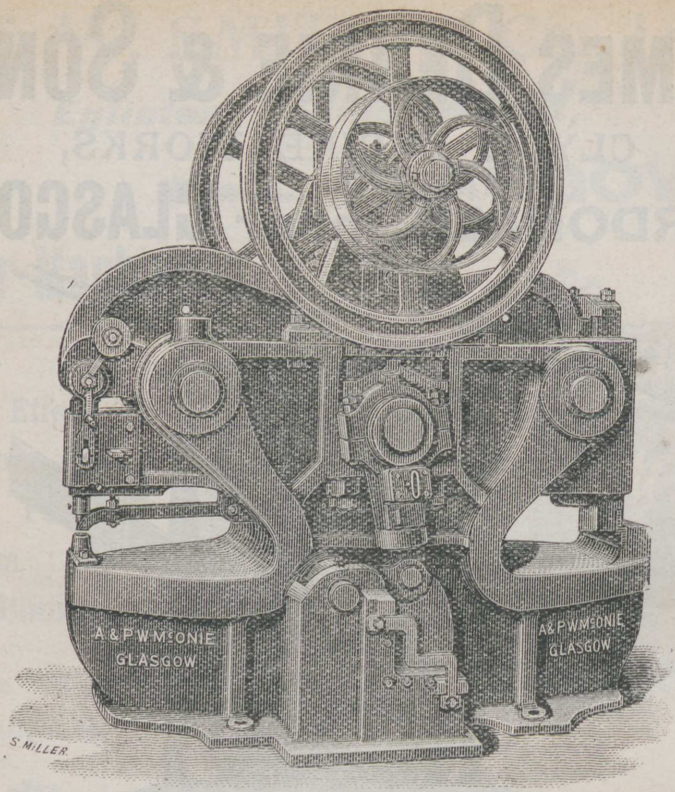
CLYDE ENGINE WORKS,

CARDONALD, near GLASGOW.



MAKERS OF

SHIPYARD MACHINE TOOLS.



A. & P. W. M'ONIE,

TEL. ADDRESS: "MELADA," GLASGOW.

Cessnock Engine Works,

TELEPHONE: No. 71, GOVAN.

GOVAN, GLASGOW.

MAKERS OF

HYDRAULIC PUMPING ENGINES AND ACCUMULATORS.
HYDRAULIC FLANGING AND FORGING PRESSES, RIVETERS, ETC.
PUNCHING, SHEARING, AND ANGLE CUTTING MACHINES.
BEAM BENDING AND PLATE EDGE PLANING MACHINES.
HYDRAULIC CRANES, STEAM ENGINES AND BOILERS, ETC.

NOTE.

VARIOUS MACHINES ALWAYS IN STOCK OR PROGRESS.

CATALOGUES AND PRICES ON APPLICATION.

CHARLES CHURCHILL & CO., L^D.

ESTABLISHED 1865,

IMPORTERS OF AMERICAN LABOUR-SAVING MACHINE TOOLS.

LONDON: 9 to 15 Leonard Street. E.C.
BIRMINGHAM: 2 to 10 Albion Street.
MANCHESTER: 2 Charlotte Street, Mosley Street.
NEWCASTLE-ON-TYNE: Albion Buildings, St. James Street.
GLASGOW: 52 Bothwell Street.

NOTICE!

PARTICULAR ATTENTION
IS CALLED TO OUR . . .

SPECIAL PAVILION

In the GROUNDS of the EXHIBITION,

Where a LARGE ASSORTMENT of

MACHINE TOOLS

BY THE FOLLOWING WELL-KNOWN MAKERS, CAN BE SEEN

IN OPERATION.

AMERICAN GAS FURNACE CO.
BAKER BROTHERS.
W. F. & JOHN BARNES.
BICKFORD DRILL CO.
BRADFORD MILL CO.
BROWN & SHARPE MFG. CO.
CINCINNATI MILLING MACHINE CO.
CLEVELAND MACHINE SCREW CO.
FLATHER & CO.
G. A. GRAY CO
NORTON EMERY WHEEL CO.
REEVES PULLEY CO.
L. S. STARRETT & CO.
WARNER & SWASEY, Etc., Etc.

American Engineering Competition.

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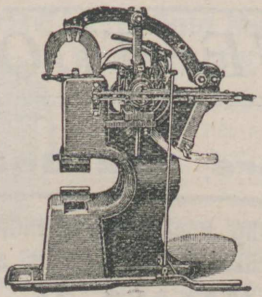

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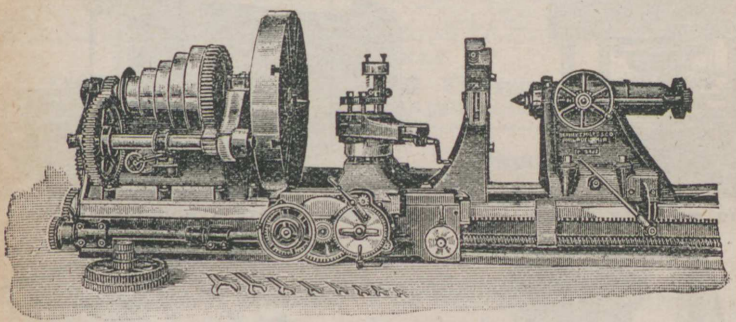



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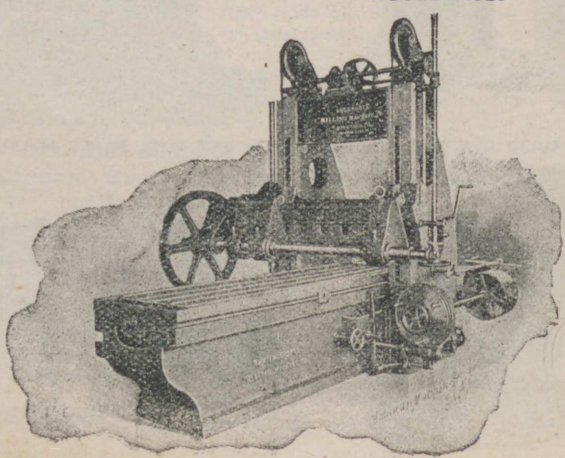

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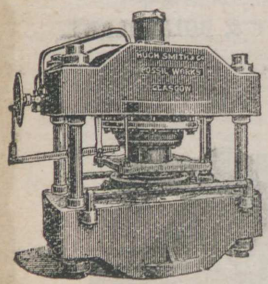

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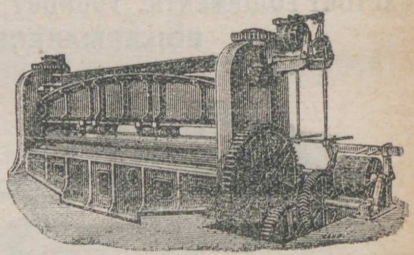

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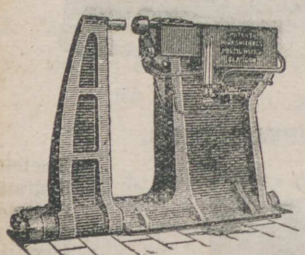

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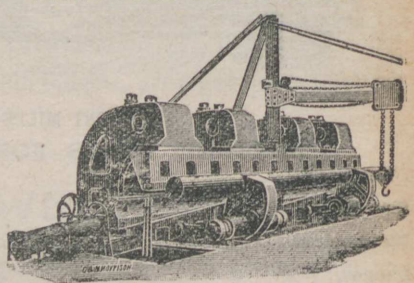

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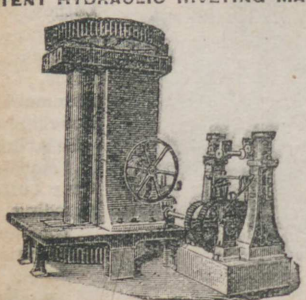

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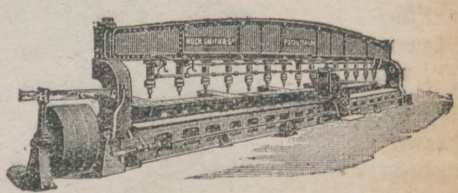

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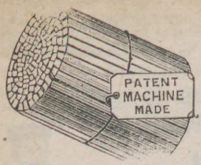

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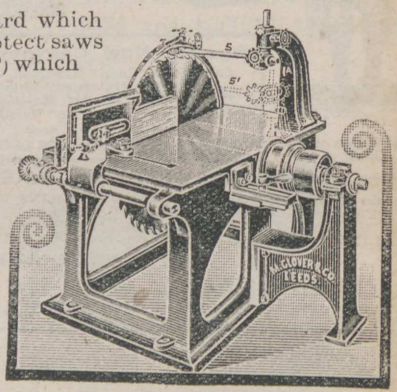

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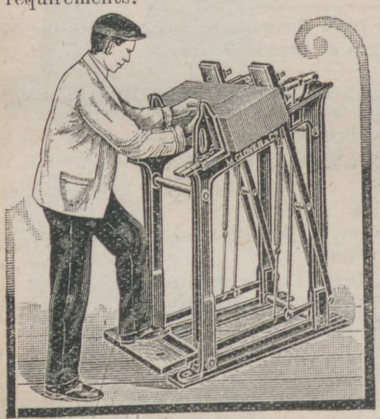

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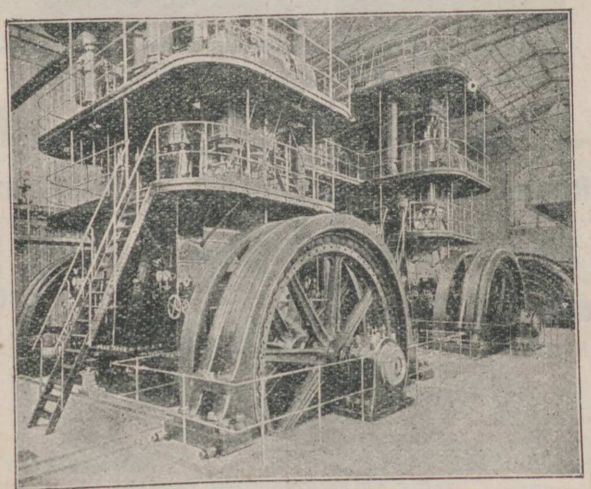

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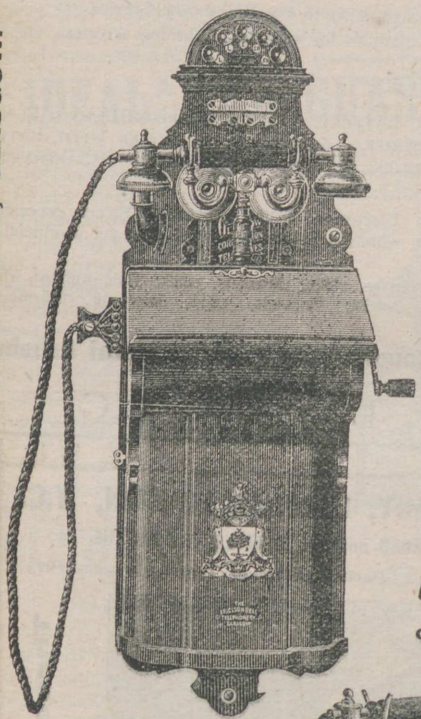

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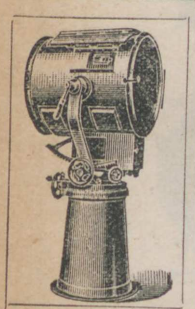

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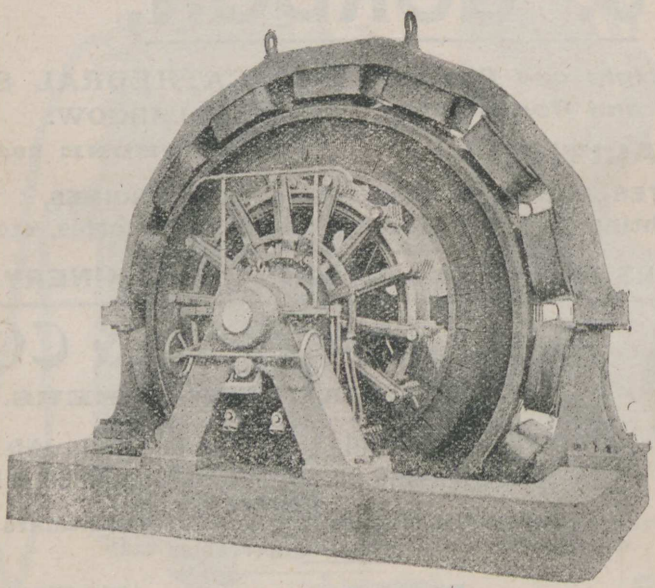

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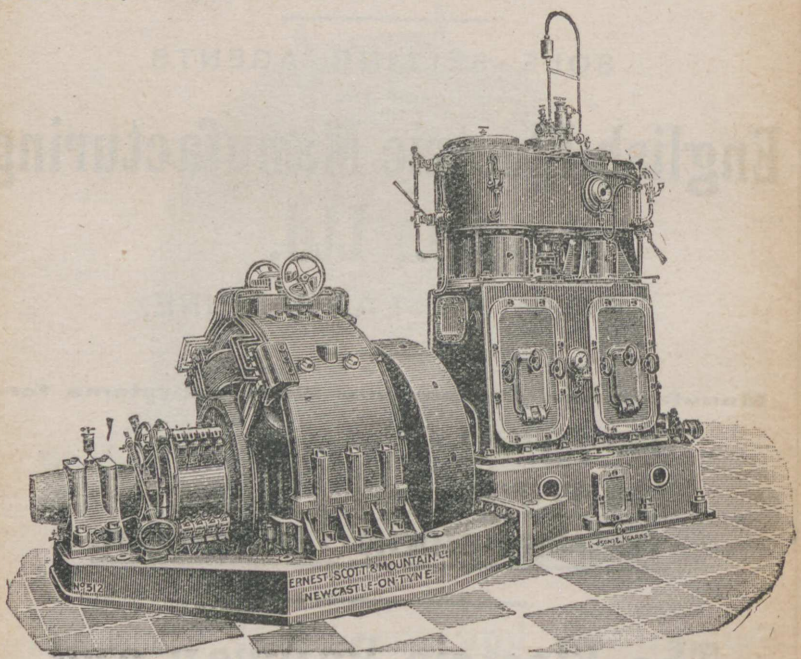

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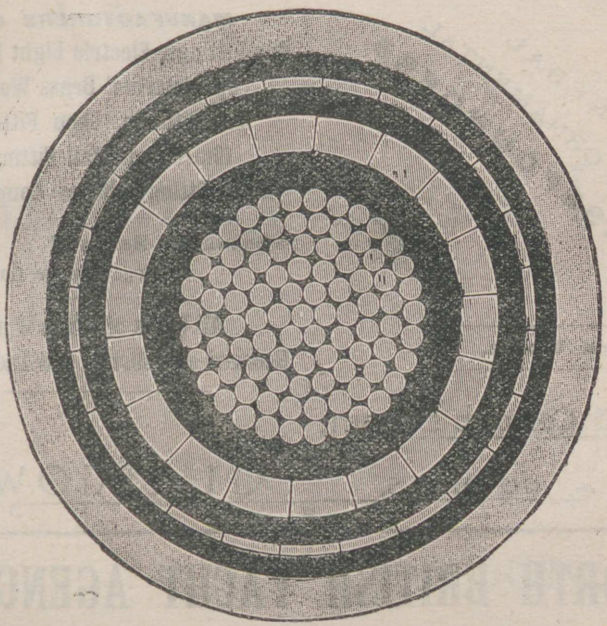

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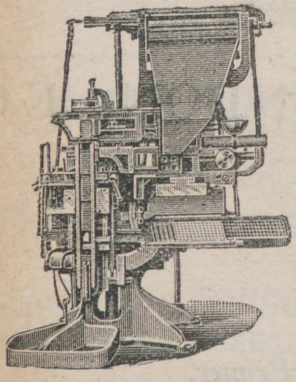

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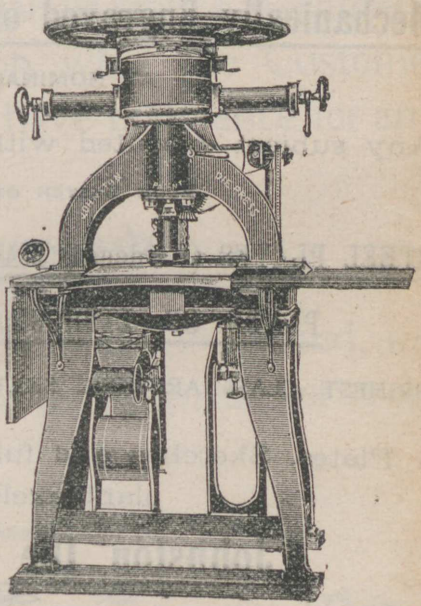

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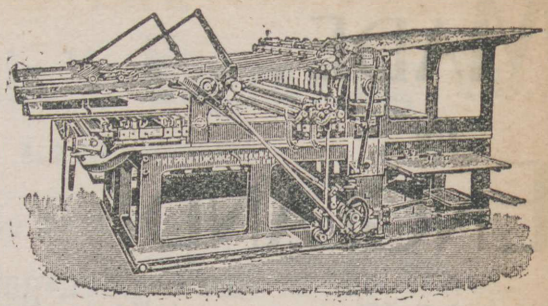

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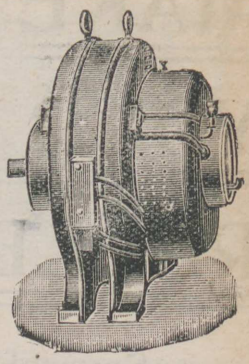

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THE Court of the above Australian State will be found immediately to the left of the Gray Street Entrance in the Industrial Hall of the Exhibition. Its design and purpose is to bring under the notice of the British public its rich and very varied

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and give some idea of the vast field for mining enterprise awaiting development in this favoured portion of the Australian continent.

A Summary of the Principal Exhibits will be found under the heading "QUEENSLAND COURT" in this Catalogue, but

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supplying information of every EXHIBIT can be obtained by interested visitors gratis.

Official Reports connected with the various

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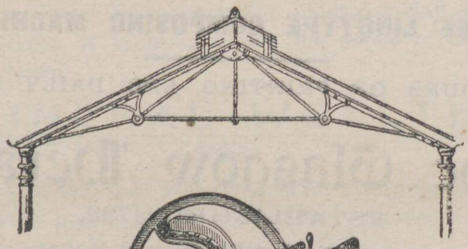

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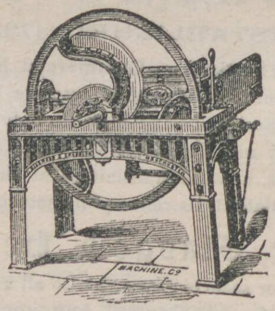

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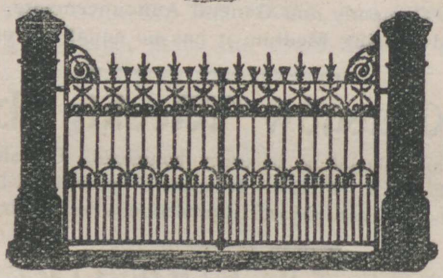

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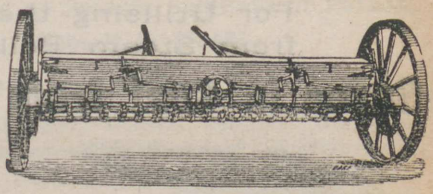

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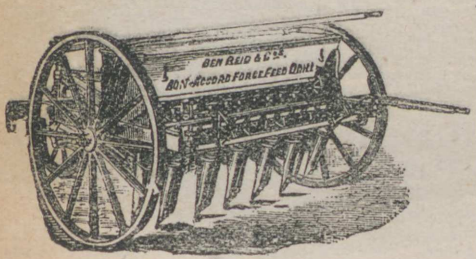

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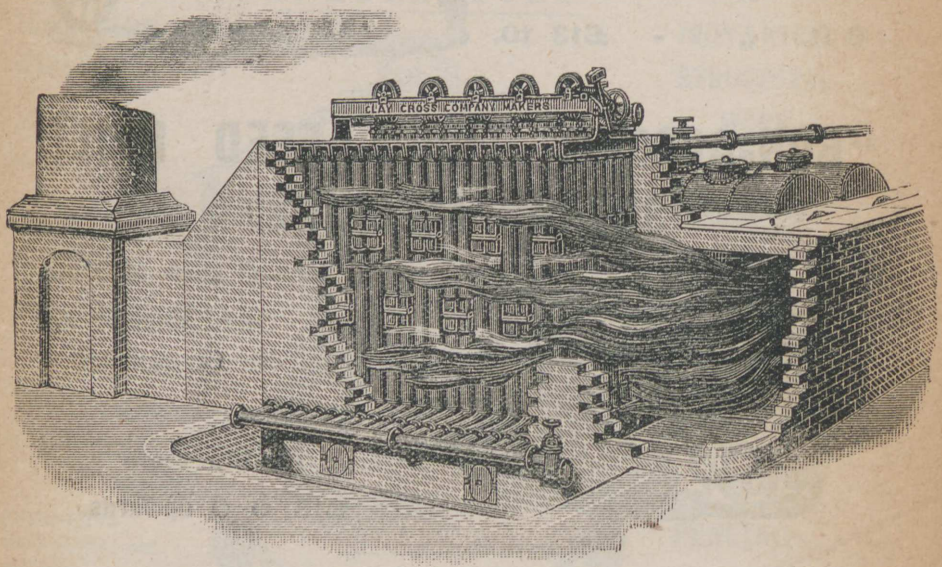

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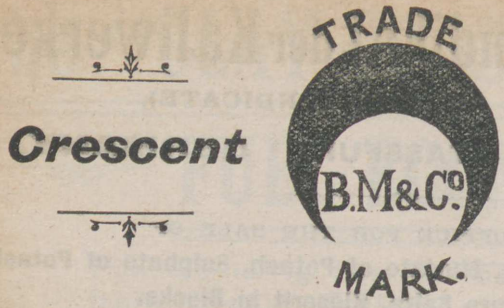

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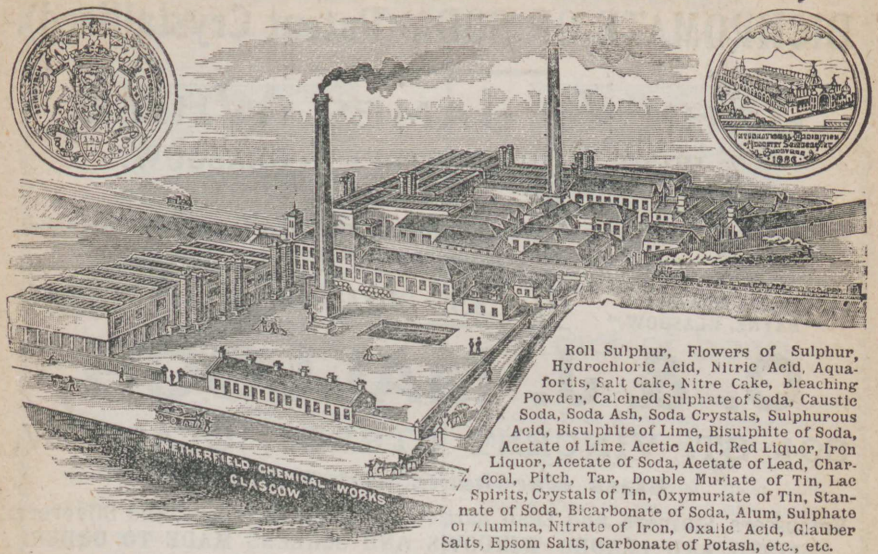

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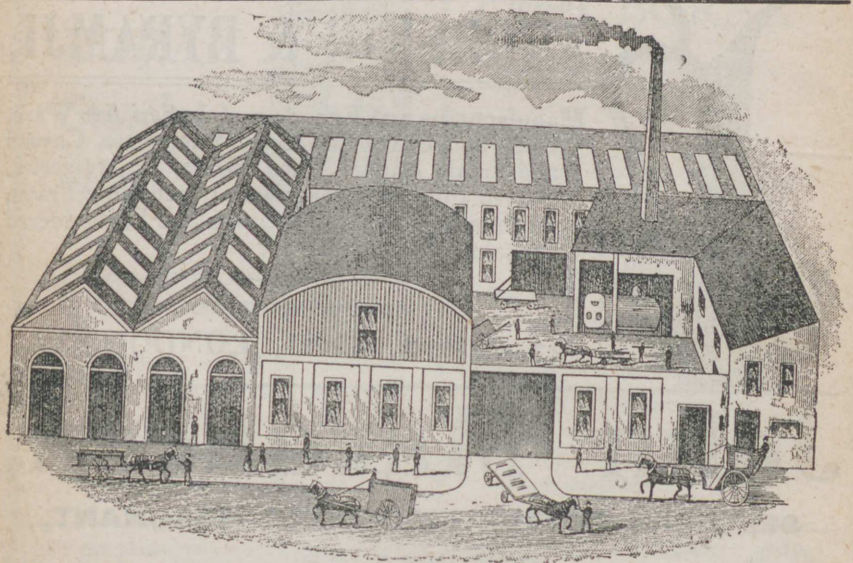

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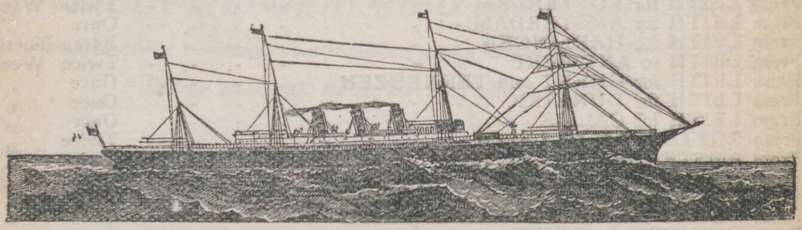

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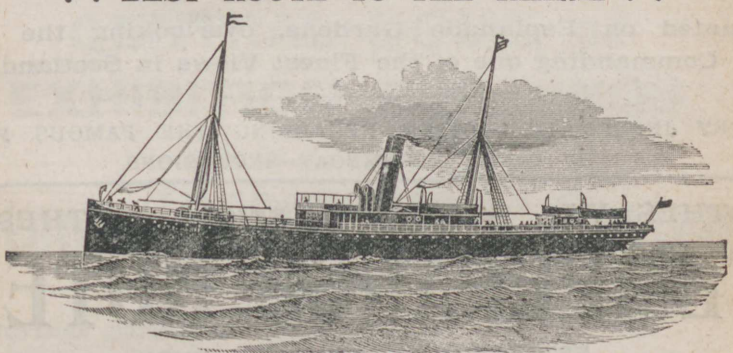

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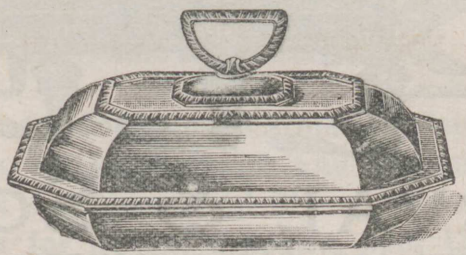

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Queen's Plate will last Half-a-Century and still retain its Splendid Appearance.

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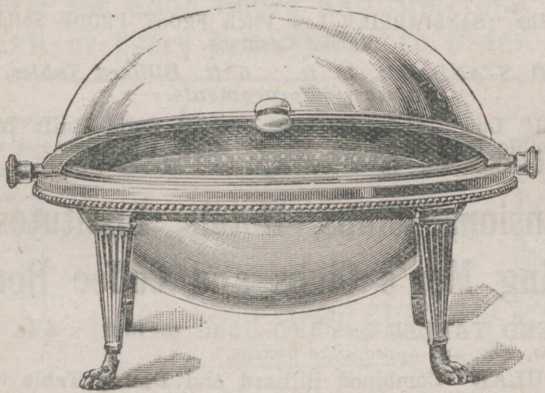

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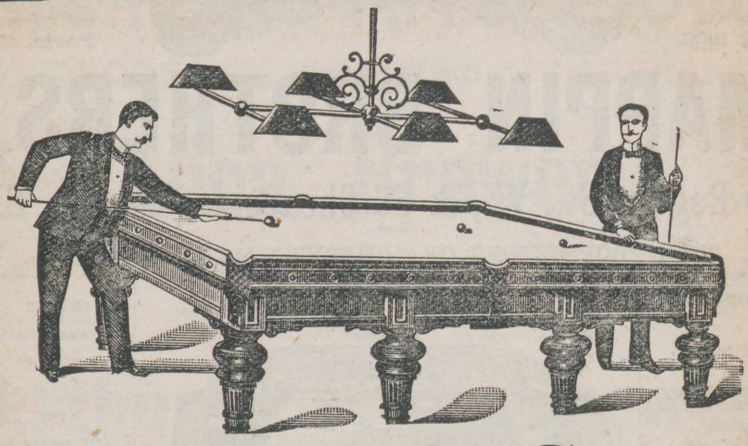

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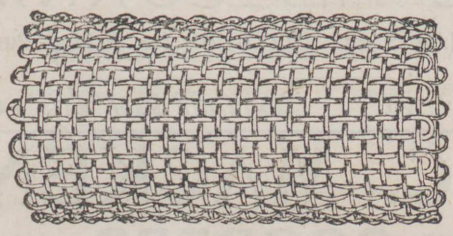

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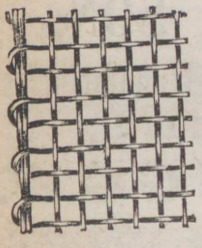

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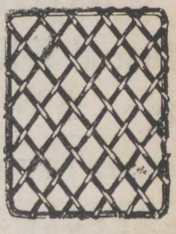

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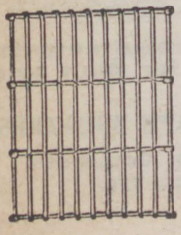

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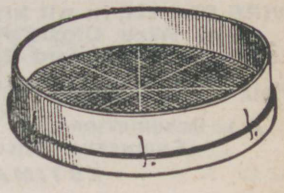

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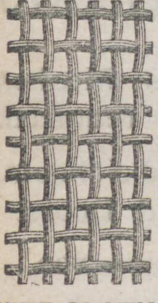

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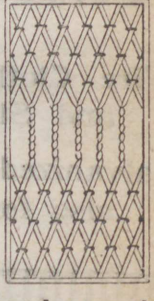

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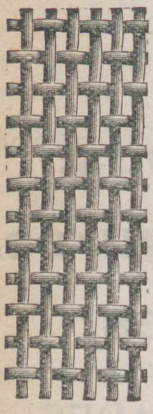

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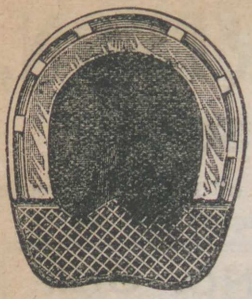

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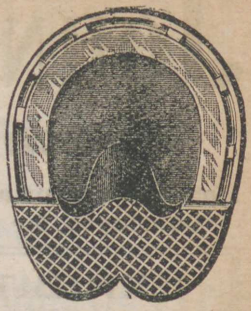

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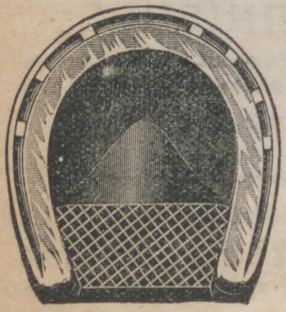

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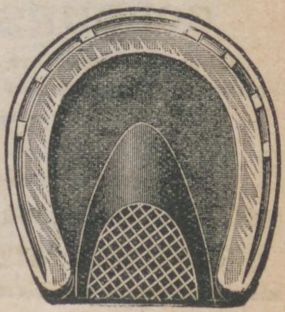

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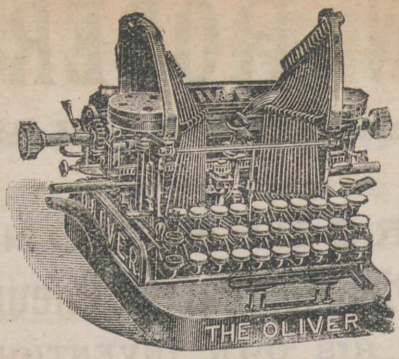

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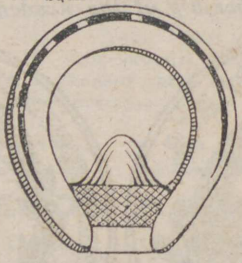

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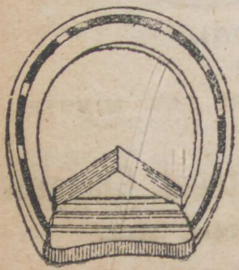
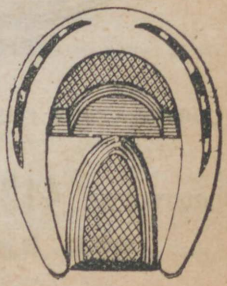


RIM PAD.



TOE PAD.



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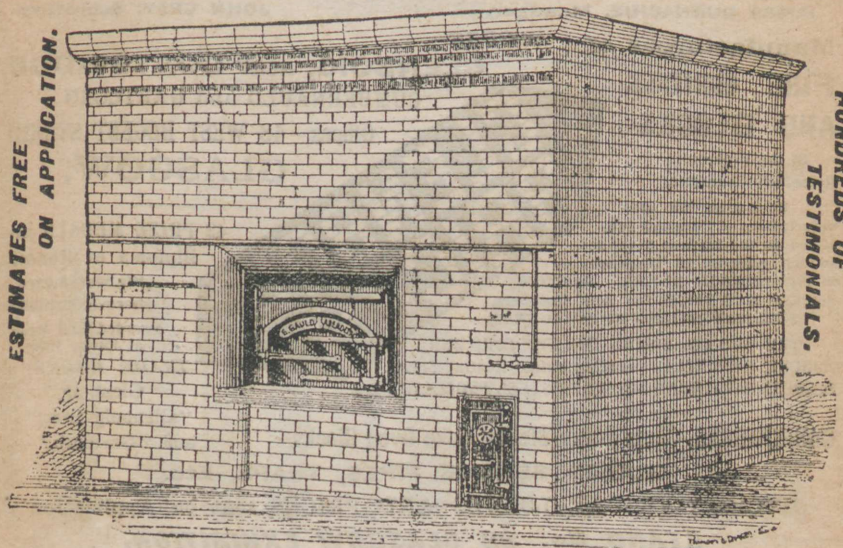

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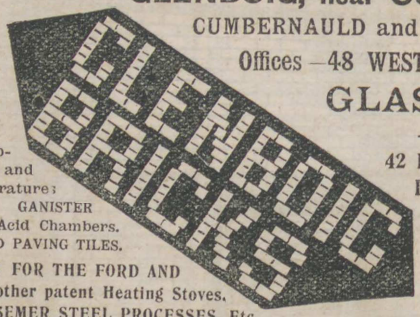

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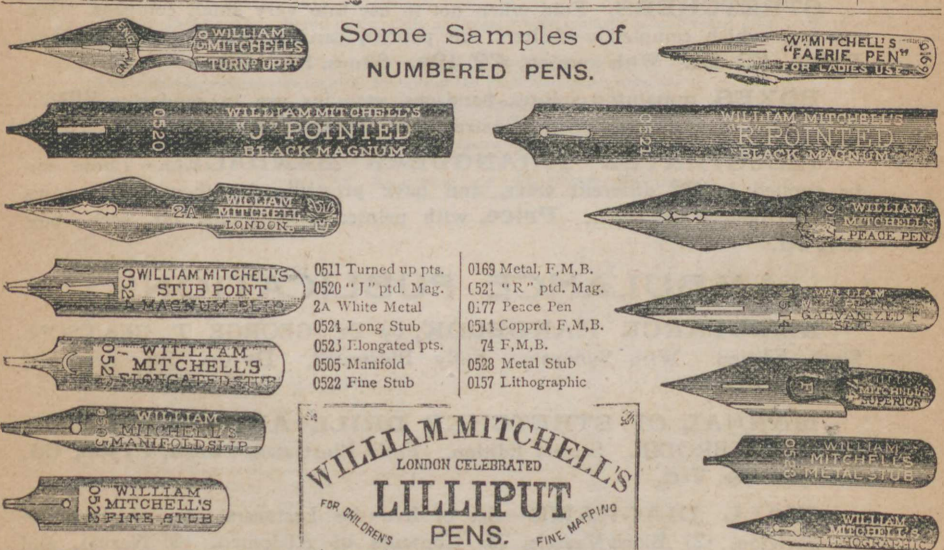

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We now know that all foods owe their nourishing properties to the presence of a material called "proteid"; indeed, this substance is now regarded as indispensable to the maintenance of life.

Protene is a natural food, like cheese and butter, being the unalloyed yield of pure fresh milk.

Protene is a most nutritious, sustaining, and digestible food for invalid or healthy.

The advantages which Protene is claimed to possess over and above all other forms of food may be thus briefly summarized :—

Protene consists of practically pure proteid, or nourishing nitrogenous material.

Protene will keep for any length of time, and is not affected by climate or temperature.

Protene is the most concentrated form of food known.

Protene can be added to any food, without altering the taste, but increasing the nutritive value to any desired extent.

Protene is a food that is palatable for diabetic subjects.

Protene is the best food for invalids and children.

Protene is invaluable to travellers, explorers, and athletes.

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Protene the food for those requiring nourishment in small bulk.

Protene the food that may be taken as an addition to ordinary diet, or as a substitute for such, with green vegetables or fruit.

Besides Protene in its pure state, *i.e.*, powder, it is made into a variety of Biscuits, Breads, Chocolates Jellies, etc.—See "Protene:" its History, Value, and Use (32 pages), which contains full Medical and Scientific Reports.

Protene, numerous unsolicited testimonials and reports from eminent scientific and other authorities who vouch for the benefits derived from its use.

Six Gold Medals and many other prizes awarded for Purity, Nutrition, and Excellence.

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COMPLETE ANALYSIS OF PROTENE PRODUCTS.

Reference No.	NAME OF PRODUCT.	PERCENTAGE COMPOSITION. Nitrogenous Matter (Proteids).	Carbo-hydrates (Starch, Sugar).	Mineral Salts.	Non-nitrogenous Matter* (Fats, etc.).	Moisture.
3	Protene Wheat Flour,	25	60	3	1	11
6	Protene Household Bread (White),	25	43	2	0	30
6	" " (Brown),	25	30	3	0	42
7	†Protene Diabetic Bread,	65	a trace	4	15	16
8	†Protene Almond Bread,	60	0	4	11	25
9	Protene Gingerbread,	25	54	2	5	14
11	†Pure Protene Biscuits,	60	a trace	4	28	8
12	†Protene Medical Biscuits,	50	19	3	29	8
13	Protene Training Biscuits,	50	20	2	22	6
14	Protene Luncheon Biscuits,	40	26	2	21	11
15	Protene Oatmeal Biscuits,	45	25	2	23	5
18	†Protene Fancy Biscuits (Diabetic),	40	16	2	36	6
19	Protene Victoria Biscuits,	30	37	2	20	11
21	Protene Sponge Cakes,	25	56	1	0	18
23	Protene Salt Sticks,	35	40	3	18	4
24	Protene Rusks,	30	42	2	18	8
25	†Protene Diabetic Rusks,	50	16	2	27	5
26	Protene Sponge Rusks,	25	59	1	0	15

* This non-nitrogenous matter is not convertible into sugar. † Products suitable in diabetes.

(For Analysis of Pure Protene, see "Lancet" Report.)

PLASMON.

This new food preparation is one which contains, in the minimum of bulk, the maximum of nourishment.

Plasmon is obtained from pure fresh milk. It consists of the albumen or proteids of the milk, together with salts (phosphates), in the form of a dry granular powder, soluble in water.

All life depends on albumen in a soluble form; every tissue in the human body requires to be fed with albumen in order to maintain the vital functions. Milk is known to be the natural source of this albumen for mankind, and in Plasmon this albumen is found—as Dr. VIRCHOW states—in its natural unaltered condition, being soluble in water without the aid of chemicals.

The albumen of Plasmon is entirely available for the building up of the human system, whether it be run down by disease and sickness or by hard work—mental or physical. It supplies all the elements which go to form muscle, bone, nerve, and brain. Plasmon imparts tone and energy to the entire muscular system, and also acts as a stimulant. In itself, it supplies the very nutriment in which many foods are deficient, and others lack entirely.

Plasmon, in the granulated form, may be added to all kinds of food with most beneficial results. Combined with Cocoa in the form of Plasmon Cocoa, a perfect food is obtained.

PLASMON COCOA is the most nutritious, easily digested, and palatable Cocoa on the market. It is free from an excess of fat and entirely free from sugar, and can be used with perfect safety by all.

PLASMON CHOCOLATE is a most compact form of nourishment, and forms a perfect food for Travellers, Huntsmen, Cyclists, and Athletes.

BEEF PLASMON contains Plasmon to the extent of 80 per cent. with 20 per cent. of Meat Extract. This forms what Baron Liebig would call a perfect meat preparation, as it contains more albumen than any other meat preparation.

PLASMON BISCUITS (sweet and unsweetened) are prepared with flour; they contain 20 per cent. Plasmon. Wholemeal Biscuits are also made, and prove a most valuable article of diet to persons with feeble digestion.

PLASMON DIABETIC BISCUITS are absolutely free from sugar and starch, and form a most palatable article of diet.

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(Each packet contains full directions how to use Plasmon).

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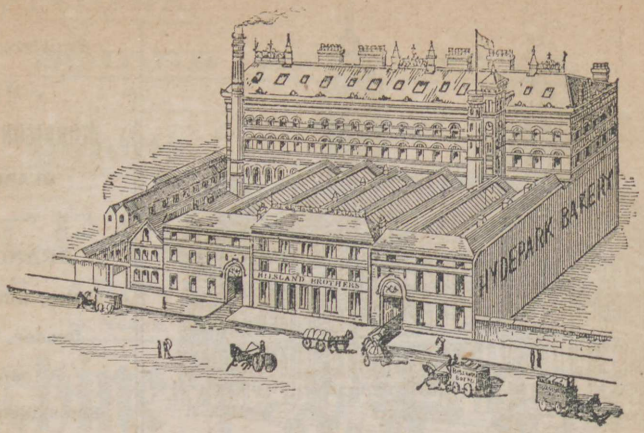
Capital of the Society at 29th December, 1900. - - -	£1,676,765
Reserve and Insurance Funds (included in above), at 29th December, 1900, - - - - - - - - - -	213,425
Value of Goods sold for year ending 29th December, 1900,	5,463,631
Value of Goods produced at the various Factories for year ended 29th December, 1900, - - - - - - - -	1,620,323



BILSLAND'S BREAD.

Manufactured on the most approved principles of fermentation, from a careful selection of the Choicest

HOME-MADE AND FOREIGN FLOURS.

Retains its full flavour and moistness for a great length of time.

Sold by Retailers of Bread in all parts of the City and Suburbs, and in various Country Districts.

Hydepark Bakery,

GLASGOW.

Telegraphic Address: "CONSERVES," GLASGOW.

THOMSON BROWN & Co.,

. . . Wholesale . . .
Italian Warehousemen,

OFFICE:
25a ST. VINCENT PLACE.

STORES:
20/22 NORTH COURT LANE.

Canned and Bottled Goods and Dried Fruits.

Saddles and Harness.

A. OGILVIE & Co.
(JAS. SPEIR),
130 HOPE STREET,
GLASGOW.



SPECIALITIES MADE ON PREMISES:—
Ladies' and Gent.'s Saddles.
Carriage and Tandem Harness.
Light Show Harness.

Material and Workmanship best possible.

WM. WARNE & CO., LTD.,



INVENTIONS, 1885.

TRADE MARKS.

PATENT. MINERALIZED.



PARIS, 1867.



VIENNA, 1873.



AMSTERDAM, 1883.

India Rubber Manufacturers,

SHEETS, VALVES, BUFFERS, WASHERS, HOSE TUBING, CORD, STEAM PACKING. WATERPROOF GARMENTS.

Airproof, Surgical, Chemical, and Domestic Articles; Gas Bags, Water Beds, Cushions, Elastic Bands. Tyres for Bicycles, Airholders for Pneumatic Bells, etc.

PATENTEES AND SOLE MANUFACTURERS OF

THE MAGNETIC-CUT INDIA RUBBER THREAD. THE MARVELLOUS TOOTH BRUSH. THE PRINCE OF WALES SELF-CLOSING TOBACCO POUCH and JAR. THE ROYAL ARABESQUE RUBBER TOBACCO POUCHES. THE "OMINIUM GATHERUM," "MINERALISED CORRUGATED," "PREMIER" and "CROCODILE" TOBACCO POUCHES. NEW PATENT MOULDED SEAMLESS HOSE. THE RED MINERALISED INDIA RUBBER HOSE PIPES, specially prepared for Tropical Climates. RED MINERALISED INDIA RUBBER, for Valves, Washers, etc. "JUNCTION" INDIA RUBBER for Mechanical Purposes. NEW SANITARY MATS and MATTING.

The Hand Emollient and the Sultan's Bath Brush.

THE IMPROVED MINERALISED INDIA RUBBER CELLULAR MAT, CORRUGATED MAT AND MATTING.

THE NEW MOULDED ENEMA AND THE NEW PATENT "SAFETY FILLING WATER" BOTTLE.

THE ELASTIC COMPO BRAKE BLOCKS, for Carriages, Omnibuses, Bicycles, etc. THE ULTIMATUM INKING ROLLERS, for Litho, Typo, and every description of Printing.

N.B.—Manufacturers of India Rubber for all purposes to which it is applicable.



LONDON, 1862.

29 Gresham St., London, E.C.

WORKS:—

TOTTENHAM and BARKING.

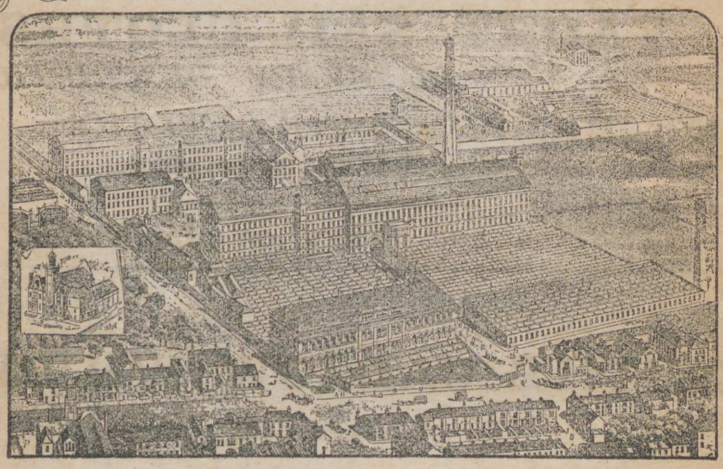


AMSTERDAM, 1869.

Telegraphic Address: "Caoutchouc," London.

GRAND PRIX. PARIS 1900

LONDON 1851. PARIS 1878. PARIS 1889 S. AFRICA 1886



John Foster & Son, Ltd.

Spinners & Manufacturers of

ALPACA, MOHAIR & WORSTED

Silk Seals and Plushes

Black Dike Mills,
QUEENSBURY, BRADFORD.

THOMSON'S YACHT CANVAS.

M. C. THOMSON & CO.,

Sail-Cloth Manufacturers,

25 HOPE STREET and 98 HOLM STREET,

GLASGOW.

WORKS: WARDMILL, ARBROATH.

MAKE A SPECIALITY OF

YACHT SAIL-CLOTHS

OF EVERY DESCRIPTION.

FLAX. EGYPTIAN AND AMERICAN COTTON. SILK.

In 12, 15, 18, 24, and 36 inch widths.

Patterns and Prices on Application.

KEITH'S CADZOW WHISKY,

10 YEARS OLD,

IS THE FINEST IN SCOTLAND.

KEITH'S CLARETS AND BURGUNDIES,

AND **KEITH'S PORTS**

ARE THE BEST VALUE OBTAINABLE ANYWHERE.

JAMES KEITH, Wine Merchant, HAMILTON, N.B.

ALEX. FINDLAY & CO.,

Limited,

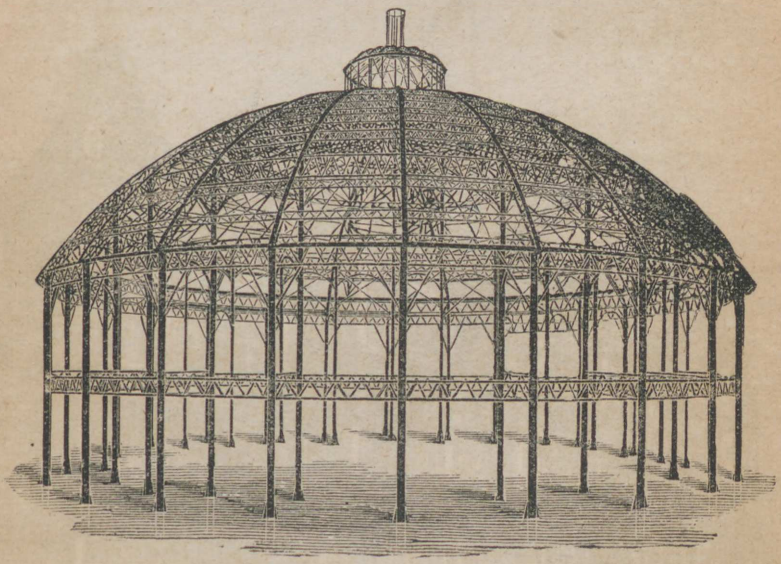
Steel, Roof and Bridge Builders,

PARKNEUK WORKS,

MOTHERWELL.

Estimates given for

BRIDGES, GIRDERS, ROOFS, TANKS, and GENERAL STRUCTURAL and SMITHWORK.



STEEL FRAMEWORK OF CONCERT HALL, GLASGOW EXHIBITION, SUPPLIED AND ERECTED BY ALEX. FINDLAY & CO., LTD.

Special Hydraulic Plant fitted up in the Works for the Manufacture of STEEL TROUGH FLOORING for Road and Railway Bridges, Fire-Proof Buildings, etc.

These Troughs are manufactured from one plate, and can be made up to 36 ft. in length by 16 inches deep and ¾ inches thick.

Telegraphic Address—"FINDLAY, MOTHERWELL."
Telephone, No. 19.

THE GLASGOW INTERNATIONAL EXHIBITION FIRST!

THE GRAND COLOSSEUM WAREHOUSE SECOND!!

English, Colonial, Continental, and American Visitors to the City of Glasgow

Should not fail to call at the **GRAND COLOSSEUM.**

THIS Warehouse was represented by numerous Important Exhibits at the last Glasgow International Exhibition in 1888, but do not exhibit in the 1901 Exhibition. The Proprietors solicit the favour of a visit of inspection of their vast stock of Elegant Merchandise. The Colosseum has an established connection, all over the world, of 32 years' standing, and is favourably known as the

BEST HOUSE for SCOTCH PRODUCTIONS in the Country.

Enormous stocks of CLAN TARTANS in Dress Stuffs, Silks, Plaids, Shawls, Silk Handkerchiefs, Silk Neckerchiefs, and genuine Clan Tartan products of every description.

Sole Partners and Proprietors, Mr. WALTER WILSON and Mr. ROBERT BINNIE.



THE HIGHEST CLASS GOODS AT LOWEST WHOLESALE PRICES.

MILLINERS, SILK MERCERS, COSTUMIERS, GENERAL DRAPERS.

At the Colosseum may be seen the Largest, Most Artistic, Newest, Freshest, Most Varied, and Most Valuable Stock of MILLINERY HATS and BONNETS in the Empire.

Ladies are respectfully invited to walk through the great Saloons of the Colosseum. There is no pressure to buy in any Section of this Model Warehouse.

WALTER WILSON & CO., The Colosseum Warehouse,

60, 62, 64, 66, 68, and 70 JAMAICA STREET, GLASGOW.

SIMPSON, HUNTER & YOUNG,

Silk Mercers and General Warehousemen,

Beg to call attention to the following Departments, which are always replete with all

THE LATEST NOVELTIES FOR THE SEASON:—

SILKS, VELVETS, BLACK AND COLOURED DRESS MATERIALS.

MANTLES, COSTUMES, MILLINERY, LACES, HOSIERY.

GLOVES, PRINTS, FURS, RIBBONS, FLOWERS, FANCY GOODS.

LADIES' AND GENTLEMEN'S UNDERCLOTHING.

S. H. & Y. call Special Attention to their NAPERY, FLANNEL, and BLANKET DEPARTMENTS.

DRESSMAKING

In all its . . .

. . . . Branches.

Competent and Experienced Dressmakers, Mantlemakers, and Milliners, sent to take Orders in any part of the country free of charge. Patterns of Dress Materials, etc., sent post free on application.

FAMILY MOURNING.

GENTLEMEN'S, YOUTHS', AND BOYS' CLOTHING.

LADIES' RIDING HABITS, LIVERIES,

EXPERIENCED CUTTERS SENT TO TAKE ORDERS.

S. H. & Y., having Agents in London, Paris, Lyons, Roubaix, and the German Centres, are continually adding all the Latest Novelties for the Season as they are produced.

The aim of S. H. & Y. has always been to combine QUALITY with CHEAPNESS and they highly recommend their Goods to purchasers wishing a

GOOD ARTICLE at a MODERATE PRICE.

59 BUCHANAN STREET, GLASGOW.

Highland Costumes

FOR

BOYS, YOUTHS, and GENTLEMEN.

CLAN . .
TARTANS

And all Accessories in Special Qualities and Richness of Colouring.

Our EXHIBITION STALL is No. 224, situated in the Industrial Hall.

Illustrated Catalogue, Price List, and all particulars on Application.



ROWAN & CO.'S

SHOW ROOMS,
104 Argyle Street, GLASGOW, N.B.
Telephone Nos.—Warehouse, 5325; Exhibition, 73.

GREAT ENTERPRISE.

THE MOST POPULAR

Fancy Goods and General Drapery Warehouse

In the vicinity of the GLASGOW INTERNATIONAL EXHIBITION.

For Latest Novelties visit

JOHN SHAW, 335 Dumbarton Road,

Opposite RADNOR STREET, GRAND ENTRANCE TO EXHIBITION.

James Buchanan,

Manufacturer.

Sea and River Fish Hooks,

Machine Springs to Pattern, Heckle Pins, Cycle Springs, Points, Heddles, Tent Ventilator Wires, Etc.

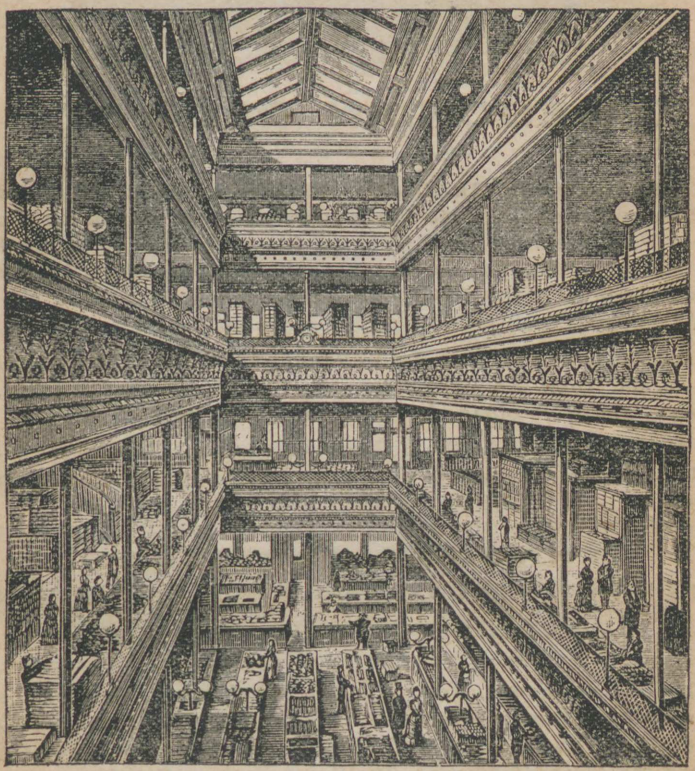
Wire Works: 58/62 Dale Street, Glasgow.

Exhibit Stand No. **969.**

Wilson, Matheson, & Co.,

GLASGOW,

Manufacturers and Warehousemen.



DEPARTMENTS.

UMBRELLAS AND SUNSHADES.	HOSIERY.	BOOTS AND SHOES.	GENT.'S SCARFS.
SHIRTS.	HATS.	WATERPROOF GARMENTS	DUCKS AND SLOPS.
	CAPS.	COLLARS AND CUFFS.	FLOOR CLOTHS AND HEARTHRUGS.
	CORSETS.		

MANUFACTURERS OF UMBRELLAS
For Home and all Foreign Markets.

WATERPROOF GARMENTS
For Home and Colonial Trade, all Textures.

SCOTCH HOSIERY.

"GLASFORDE" SHIRTS snd PANTS, Registered.

PORTMANTEAUS.

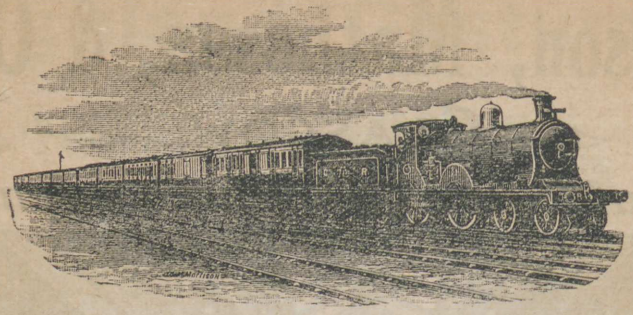
BAGS, PURSES, ETC.
All Shapes and Makes.

HANDKERCHIEFS
For all Markets. COTTON, LINEN, and SILK.

MUFFLERS.

SHIRTS AND SHIRTINGS, every Make and Material.

Price Lists on Application.



CALEDONIAN RAILWAY.

THE GLASGOW CENTRAL LOW LEVEL LINE of the Caledonian Railway passes under the Glasgow International Exhibition Grounds, and by it Passengers for the Exhibition can be carried to either Kelvin Bridge Station or Partick Central Station, both of which are situated close to Entrances to the Exhibition. There will be a covered way from Partick Central Station to the Exhibition Grounds.

The Company will have Trains running from Glasgow (Central Low Level) to and from Kelvin Bridge and Partick Central ***every few Minutes,*** *and from other places at convenient hours.*

EXCURSION TRAINS *at Cheap Fares will be run to the Glasgow Exhibition by the Caledonian Company, from all parts of Scotland and England.*

THROUGH SERVICES.

SLEEPING SALOONS AND RESTAURANT CARS.

CORRIDOR TRAINS ***DE LUXE.***

The Trains from London (Euston) to Glasgow (Central) perform the journey in ***8*** *hours. Visitors to the Exhibition will do well to plan an extension of their Tour to Callander, The Trossachs, Loch Lomond, Oban and the West Highlands. The Route to these Districts is the finest in Scotland, through a Country full of Beautiful Scenery and Historical Associations. The Caledonian Company also afford Passengers every facility for visiting Carlisle, Moffat, Peebles, Dumfries, Edinburgh, Stirling, Perth, Dundee, Aberdeen, Inverness, Falls of Clyde, Arran, Crieff, Comrie, etc., etc., etc., while numerous interesting Sails on the Clyde will also be available in connection with the Company's Train Service.*

FULL PARTICULARS IN COMPANY'S TIME TABLES.

Central Station Hotel, Glasgow,

Under the Management of the Company.

ACCESS FROM THE PLATFORMS.

R. MILLAR, *Int. General Manager.*

GENERAL MANAGERS' OFFICE,
GLASGOW 1901.

NORTH BRITISH RAILWAY.

INTERNATIONAL EXHIBITION AT GLASGOW.—The North British Company's Station, Finnieston, on the Glasgow City and District Railway, is the nearest to the Grand Entrance to the Exhibition. For the convenience of the Public the Company have provided a Booking-Office within the Exhibition, in the Industrial Hall, to the East Side of the Piazza, and Passengers can be booked at the Exhibition Office to all parts of Scotland, England, Wales, and Ireland.

GLASGOW AND EDINBURGH AND ENGLAND,

Via THE EAST COAST ROYAL MAIL EXPRESS ROUTE.

EXPRESS TRAINS are run daily from GLASGOW (Queen Street) and EDINBURGH (Waverley) to BERWICK, NEWCASTLE, SUNDERLAND, TYNEMOUTH, SCARBOROUGH, HARROGATE, YORK, LEEDS, NOTTINGHAM, PETERBOROUGH, LONDON (King's Cross), etc., etc., and *vice versa*.

Dining and Luncheon Corridor Car Trains.—First and Third Class Corridor Dining and Luncheon Cars are run daily between Edinburgh (Waverley) and London (King's Cross).

Comfortable and Commodious Corridor Saloons, provided with single and double transverse Sleeping Berths and Lavatories, are run daily on the Night Express Trains from GLASGOW (Queen Street), EDINBURGH (Waverley), to NEWCASTLE, YORK, and LONDON (King's Cross), &c., and *vice versa*.

A Special Attendant accompanies the Sleeping Saloons, and light refreshments can be had, *en route*, at moderate charges.

BERTHS CAN BE SECURED IN ADVANCE.

GLASGOW AND EDINBURGH AND ENGLAND,

Via THE WAVERLEY TOURIST AND MIDLAND ROUTE.

EXPRESS TRAINS are run daily from GLASGOW (Queen Street) and EDINBURGH (Waverley) to CARLISLE, MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD, BIRMINGHAM, BRISTOL, BOURNEMOUTH, BATH, BRADFORD, HUDDERSFIELD, CARDIFF, PLYMOUTH, LONDON (St. Pancras), &c., & *vice versa*.

Express Trains, with Sleeping Cars and Sleeping Carriages (with special Attendant), and First and Third Class Lavatory Carriages are run to and from Edinburgh by this Route.

BERTHS CAN BE SECURED IN ADVANCE.

First and Third Class Dining and Luncheon Corridor Car Trains.—Corridor Trains, containing First and Third Dining and Luncheon Saloons, are run daily between Edinburgh (Waverley) and London (St. Pancras).

THE MOST DIRECT AND POPULAR ROUTE TO THE WEST HIGHLANDS, OBAN, etc., is by the West Highland Line, by which there is an ample and expeditious service of trains, having Through Carriages from Glasgow to Fort William, and *vice versa*, and connecting at Oban, Fort-William, Banavie, and Fort-Augustus, with Mr. David MacBrayne's steamers to and from the Hebrides, Inverness, Caledonian Canal, etc.

NEW ROUTE TO STORNOWAY AND ISLE OF LEWIS, PORTREE AND ISLE OF SKYE, AND OTHER WESTERN ISLANDS.—The extension of the West Highland Railway, from Fort-William to Mallaig, which shortens the route to the ISLES OF SKYE, LEWIS, and other Western Islands, is now open, and trains connect at Mallaig with steamers to and from STORNOWAY, PORTREE, etc.

EXPRESS TRAINS are run at frequent intervals between Glasgow (Queen Street), and Edinburgh (Waverley), Passengers having choice of Two Routes, viz. :—*via* Falkirk and Linlithgow, or *via* Coatbridge and Airdrie.

TO THE WEST COAST, *via* CRAIGENDORAN.—Fast Steamers sail from and to Craigendoran Pier in connection with the Company's Trains which run alongside the Pier; thereby affording convenient and ready access to the various Watering Places on the Clyde, Greenock, The Gareloch, Loch Long, Holy Loch, Rothesay, Kyles-of-Bute, etc. These Steamers also connect at Dunoon during the Summer with the "Columba," "Iona," "Lord of the Isles," and Steamer for Arran.

RAIL, COACH, AND STEAMER CIRCULAR TOURS.

To Firth of Clyde, Aberfoyle, Trossachs, Loch Katrine, Loch Lomond, Inverness, Caledonian Canal, Fort-William, Oban, Mallaig and West Highlands.

Tickets for Circular Tours embracing the above mentioned places are issued at Glasgow (Queen Street), and all other Principal Stations on the North British Railway.

For particulars of Tours, Fares, and General Arrangements, see the Company's Time-Tables and Tourist Programme, and for descriptive notices of the Districts embraced in the Company's System, see the "NORTH BRITISH RAILWAY TOURIST GUIDE," copies of which may be obtained from any of the Stationmasters or from Mr. D. DEUCHARS, Superintendent of the Line, Edinburgh.

EDINBURGH, 1901. W. F. JACKSON, *General Manager*.

Glasgow and South-Western Railway.

SCOTLAND and ENGLAND.

THE GLASGOW AND SOUTH-WESTERN RAILWAY COMPANY gives a **Direct Route** between **Scotland and England**, connecting at **Carlisle** with the **Midland Railway**, the principal termini being **St. Enoch, Glasgow**, and **St. Pancras, London**; and a Full and Expeditious Service is given between Glasgow, Paisley, Greenock, Ayr, Ardrossan, Kilmarnock, Dumfries, etc., and Liverpool, Manchester, Bradford, Leeds, Sheffield, Bristol, Bath, Birmingham, London, etc.

DINING CARS (First and Third Class) by the Morning and Afternoon Expresses, and **SLEEPING CARS** by the Night Expresses, in each Direction, between GLASGOW (St. Enoch) and LONDON (St. Pancras).

New and Improved CORRIDOR CARRIAGES with Lavatory Accommodation, by the Morning, Afternoon, and Evening Expresses.

Passengers between Scotland and England by this, the most **Picturesque Route**, pass through the heart of the **Burns Country**, and holders of Tourist Tickets to and from Glasgow, or North thereof, are allowed to travel *via* **Ayr** (Burns' Birthplace). Tickets are also valid for break of journey at **Dumfries** Burns' Burial-place).

CLYDE WATERING PLACES.

The Glasgow and South-Western Line to Princes Pier Station, Greenock, is the most convenient for visitors to the Watering Places on the Firth of Clyde and Western Highlands and the Islands of Scotland, to and from which places regular connections are maintained by the Company's magnificent Fleet of Steamers, as also by the "Columba," "Lord of the Isles," "Isle of Arran, etc.

All Passengers' Luggage is removed from the Trains to the Steamers, and *vice versa*, free of charge, by a special staff of attendants provided by the Company

Passengers holding Through Tickets to or from England, have the option of visiting Glasgow, en route.

ISLE OF ARRAN, MILLPORT, and CAMPBELTOWN.

The most direct and expeditious route to the far-famed **Island of Arran** is by the Company's new swift Paddle Steamer "Glen Sannox," *via* Ardrossan; and to Millport, Campbeltown, etc., *via* Fairlie, where the Company's Trains run alongside the Steamers.

AYRSHIRE COAST and THE LAND O' BURNS.

Passengers desirous of visiting the Ayrshire Coast Towns and places on the Company's Line, which are full of Associations of the Poet Burns, and famous in history and romance, will find that the Company provide an excellent service of Express Trains from Glasgow and Paisley, composed of carriages of the most modern type, to Kilwinning, Stevenston, Saltcoats, Ardrossan, West Kilbride, Fairlie, Largs, Irvine, Troon, Prestwick and Ayr, all of which places can be reached within the hour. There is also a service of Fast Trains to Pinmore, Pinwherry, Barrhill, New Luce, and Stranraer. From Stranraer, Steamboat connections are formed to Ireland, *via* Larne, the open sea passage being only 80 minutes.

GOLFERS will find Links of the highest order at Johnstone, Stevenston, West Kilbride, Largs, Bogside, Gailes, Barassie, Troon, and Prestwick. For descriptive notes on the various Links served by the Company's Trains, see the Guide to the Golfing Resorts issued by the Company free of charge.

HOTELS.

The Company have **Hotels** at **Glasgow** (St. Enoch), **Ayr**, and **Dumfries**, under their own management. These Hotels will be found replete with all modern conveniences and comforts. Excellent cuisine and a moderate tariff existing throughout.

GLASGOW, 1901. **DAVID COOPER, General Manager.**

FOR . . . .

AIR-TIGHT SHOWCASES,

EXHIBITION STANDS,

MODERN SHOP FRONTS,

WRITE TO . . .

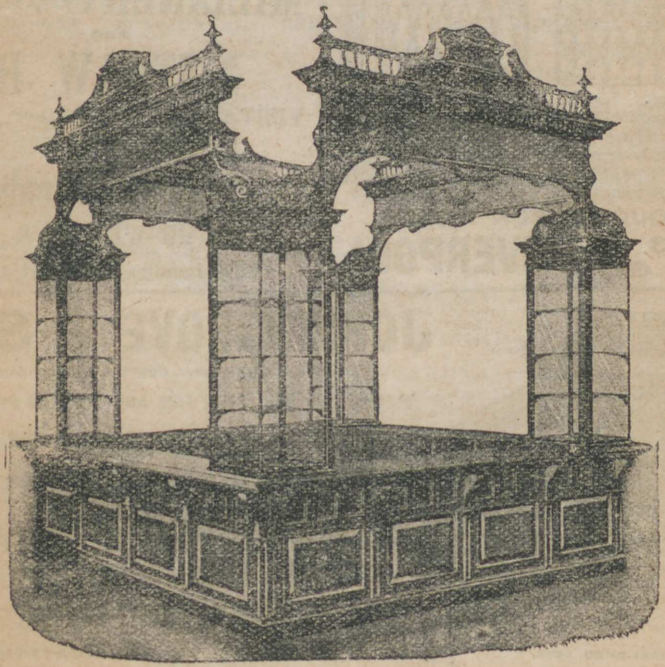
SCOTT BROTHERS,

Gravel Lane, SALFORD,

CASES ON HIRE . . . .
AT REASONABLE RATES.

MANCHESTER.

Telegrams:—"ESTIMATES," MANCHESTER. National Telephone No. 2641.



PAYNE & SONS,

Printers' Engineers,

ATLAS WORKS, OTLEY.

Telegrams— { Otley. / "Wharfedale" { London. / Glasgow.

Nat. Tel. Nos. { 75 Otley. / 607 London. / 6215 Glasgow.

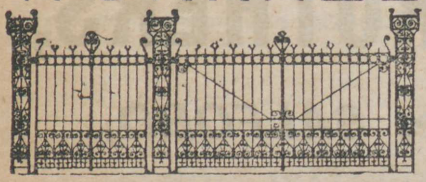
Branch Offices and Workshops—

103 Farringdon Road, LONDON.

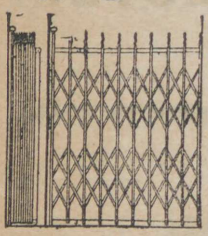
51 Dundas Street, GLASGOW.

SEE OUR EXHIBIT, STAND No. 449.

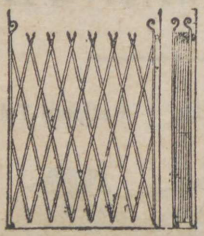
WORRALL



IRON GATES



Patent Collapsible Gate, No. 12,018, top and bottom tracks fold up with Gate, or are permanent.



Patent Collapsible Gate, No 12,017. requires no track on threshold or overhead. Both these Gates when collapsed rotate to side of opening.

WROUGHT IRON WORKS,

143 Dale St. LIVERPOOL.

C. H. YOUNG,

MANUFACTURING JEWELLER.

20 Summer Hill Terrace, BIRMINGHAM.

Original Introducer and still the Best Maker of

WIRE NAME BROOCHES,

INITIAL SAFETY PINS, BANGLES, Etc.,

In Gold, Silver, and Plating.

Electro Gilding, Plating, Coppering, Bronzing and Nickel Plating, Parcel Gilding and Mercury Gilding.

ALL KINDS OF OLD WORK REPAIRED AND REPLATED AS NEW.

SPECIALITY—Old Silver Articles Repaired as New.

Special Quotations to the Trade on application.

For

MILLINERY . . .

and

STRAW HATS

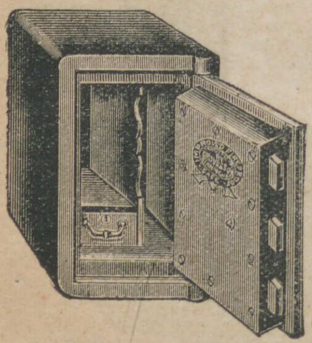
VISIT . . .

The Grand

Colosseum Warehouse,

WALTER WILSON & CO.,

60 and 70 Jamaica Street, GLASGOW.



ESTABLISHED 1874.

JOHN GROVE & SON,

(Six Years with Messrs. Chubb & Son, London.)

Seamless Bent Steel FIRE AND BURGLAR PROOF

SAFES

AND STRONG ROOM DOORS.

DEFIANCE SAFE WORKS,

EXETER PASSAGE, HOLLOWAY HEAD,

BIRMINGHAM.

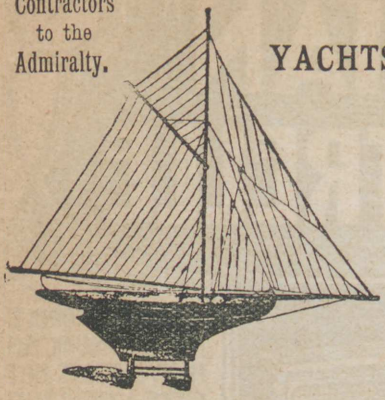
PRICE LIST ON APPLICATION.

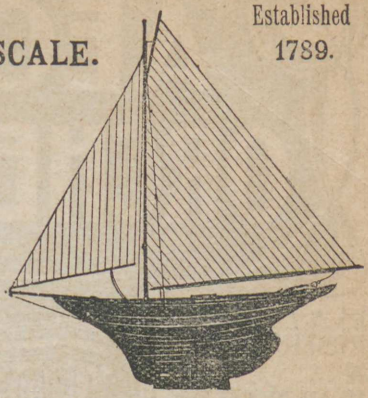
CLYDE BUILT MODEL RACING YACHTS.

Contractors to the Admiralty.

YACHTS TO SCALE.

Established 1789.





These Yachts are now too well known to need any recommendation. They are beautifully enamelled and well finished, carved from noted Lines ("Shamrock," "Columbia," "Britannia," "Ailsa," etc., Models), completely rigged with Brass Fittings, etc. Sails made from our beautiful blue-striped Sailcloth. For Model Yacht Racing, none can compare with them. Tested and guaranteed.

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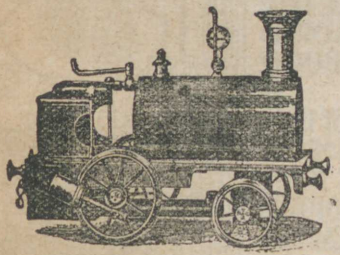

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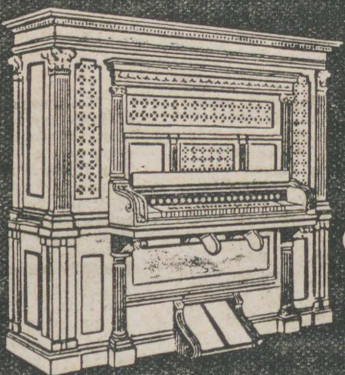

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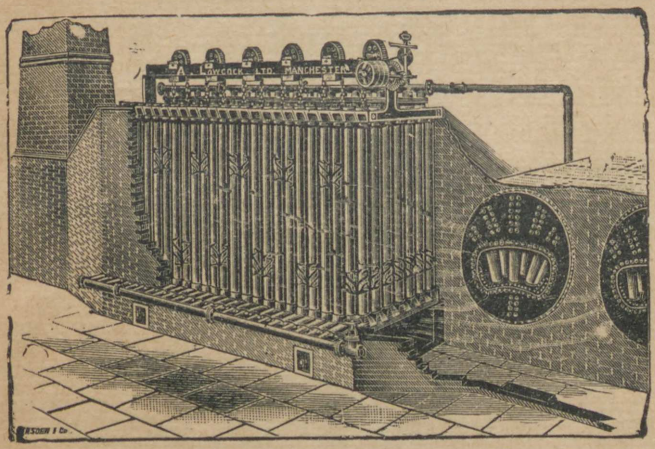

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