

# Supplement to Government Gazette

OF

WESTERN AUSTRALIA.

[ Published by Authority. ]

No. 53. )  
P.O. No. 35. }

PERTH: FRIDAY, AUGUST 28.

[1903.

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*Note.* Throughout this *Gazette* the names in *Italics* within parentheses are those of Communicators of Inventions.

### Complete Specifications.

Patent Office, Perth,  
28th August, 1903.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the complete Specifications annexed thereto, have been accepted, and are now open to public inspection at this Office.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the date of this *Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 4124.—JAMES ROBERTSON, of Marraweka Station, Maheno, Otago, New Zealand, Ploughman, "*Improved Ditch Plough.*"—Dated 18th November, 1902.

Claims:—

1. The general construction arrangement and combination of parts composing my improved ditch plough all substantially as and for the purposes set forth.
2. A ditch plough comprising knives and plough sole secured to a main lower beam to which drawing means are attachable substantially as and for the purposes set forth.
3. In a ditch plough an elevator extending from the knives and plough sole rearwardly and upwardly and adapted to remove the material dug out by the knives and plough sole substantially as described.
4. A ditch plough comprising knives and a plough sole secured to a main lower beam to which drawing means are attachable and an upper frame, resting on four wheels and carrying raising and lowering mechanism for the main beam and supporting same substantially as and for the purposes set forth.
5. A ditch plough comprising knives and a plough sole secured to a main lower beam to which drawing means are attachable, an upper frame resting on four wheels and carrying raising and lowering mechanism for the main beam and supporting same, and an elevator extending from the knives and plough sole rearwardly and upwardly and adapted to remove the material dug out by the knives and plough sole substantially as and for the purposes set forth.

Specification, 4s. Drawings on application.

Application No. 4163.—FREDERICK SAUL ORNSTEIN, of Malcaulay Road, Kensington, in the State of Victoria, Australia, Manufacturer of Rubber Goods, "*Improvements in apparatus to be used in the manufacture of Wheel Tyre Covers.*"—Dated 3rd December, 1902.

Claims:—

1. Apparatus to be used in the manufacture of wheel tyre covers—comprising in combination, annular box, a series of presser plates around the inside of said box with adjacent bevel edges, wedges for insertion between the said presser plates cone or tapered block for actuating the presser plates and the wedges into and out of the gaps between the presser plates and means for withdrawing the presser plates and wedges from the annular box to allow of insertion and withdrawal of tyre cover substantially as and for the purposes described.
2. Apparatus to be used in the manufacture of wheel tyre covers—comprising in combination annular box, a series of presser plates around the inside of said box with adjacent bevel edges, wedges for insertion between the said presser plates such wedges and presser plates being mounted upon shanks arranged to move in a frame and having bevel ends, a cone or tapered block mounted on screw shaft for insertion between said shank ends and means for actuating the cone or block back and forward on the shaft substantially as and for the purposes described.

3. Apparatus to be used in the manufacture of wheel tyre covers—comprising in combination annular box, a series of presser plates around the inside of said box, with adjacent bevel edges, wedges for insertion between the said presser plates, such wedges and presser plates being mounted upon shanks, a central screw shaft supported on bearings a back plate *m* carrying box *h* for the reception of the shanks the shanks having bevelled ends, a cone or tapered block mounted on screw rod for insertion between such shank ends a spring connection between the shanks and frame for returning the shanks against the action of the cone or tapered block, a recess in the plate *m* to receive the cone or block, means for moving the back plate back and forward on the screw rod and means for moving the cone or block back and forward in and out of engagement with the shanks, substantially as and for the purposes described.

4. Apparatus to be used in the manufacture of wheel tyre covers comprising in combination annular box *b* on base and having its interior face dished and with annular groove at each side of the dished portion, a series of presser plates *f* around the inside of said box and with adjacent bevel edges, wedges *g* for insertion between the said presser plates, such wedges being mounted upon shanks *g*<sup>1</sup>, a central screw shaft supported on bearing *a*<sup>1</sup>, a black plate *m* mounted on the shaft *a*, screw *n* connected with the annular casing and with the plate *m* and bearing on *a*<sup>2</sup>, the shanks having bevelled ends, those of the presser plates being longer than those of the wedges, a cone or tapered block mounted on screw rod *a* for insertion between such shank ends, rods *g*<sup>2</sup> connected with shanks and springs *g*<sup>3</sup> on the rods engaging with the boxes *h*, a recess in the plate *m* to receive the cone or tapered block, a frame *l* on the cone or tapered block and a block *k* on the screw rod *a* engaging with the frame whereby the cone or tapered block is moved back and forward on the screw rod, a hand wheel *l* on the screw rod *a* to move back or forward the body *m* substantially as and for the purposes described.

Specification, 9s. Drawings on application.

Application No. 4251.—RICHARD COSSLETT, of Karangahape Road, Auckland, New Zealand, Cabinet-maker, "*Improvements in Cocks or Taps, high or low pressure.*"—Dated 27th January, 1903.

Claims:—

1. In high and low pressure stop cock and the like, a recess formed in the base of a screw-ended spindle as shown in Figure 1 or otherwise as shown in Figure 2 for the reception of a lignum vitæ replaceable valve substantially as herein set forth and described and as illustrated in the attached drawings.
2. In high and low pressure stop cocks and the like, a recess formed in the body of the cock for the reception of a lignum vitæ replaceable seating for the valve substantially as herein set forth and described and as illustrated in the attached drawings.
3. In high and low pressure stop cocks and the like, the construction of lignum vitæ replaceable valve in combination with a lignum vitæ replaceable seating arranged and operated, substantially as herein set forth and described and as illustrated in the attached drawings.

Specification, 2s. Drawings on application.

Application No. 4464.—ADOLPH FREDERICK WILLIAM LORIE, of Princes Street, Dunedin, New Zealand, Gentleman, "*Improvements in Sash Fasteners.*"—Dated 11th June, 1903.

Claims:—

1. The improvements in sash fasteners consisting of the combination and arrangement of parts illustrated in Figures 1, 1A, 3 and 3A of the drawings substantially as described.
2. In a sash fastener such as described and illustrated in Figures 1, 1A, 3 and 3A a handle to the screw perforated with a slanting hole and recessed on opposite sides a locking pin working in said hole provided with a head having projecting side pieces and adapted to lie in one of said recesses and a foot adapted to engage a reversible angle piece on the window and then withdrawn to lie in the other of said recesses substantially as described.
3. The improvements in sash fasteners consisting of the combination and arrangement of parts illustrated in Figures 5, 6, 7, and 8 of the drawings substantially as described.

4. In a sash fastener such as described and illustrated in Figures 5 to 8 a disc at the end of a spring actuated screw provided with a flange a guard and a stop, and a bracket secured to the window frame with curved arm under which said stop is adapted to take when the disc is revolved substantially as described.

5. In a sash fastener such as described and illustrated in Figures 5 to 8 a disc at the end of a spring actuated screw provided with a flange, a guard and a stop, and a bracket secured to the window frame with curved arm under which said stop is adapted to take when the disc is revolved said bracket having a curved portion in it and a step provided with a slanting slot substantially as and for the purposes set forth.

6. The improvements in sash fasteners consisting of the combination and arrangement of parts illustrated in Figures 2, 2A, 9, 10, and 11 of the drawings substantially as described.

7. In a sash fastener such as described and illustrated in Figures 2, 2A, 9, 10, and 11 the plate 36 provided with the staples 38 and 39 substantially as and for the purposes set forth.

8. The improvements in sash fasteners consisting of the combination and arrangement of parts illustrated in Figure 4 of the drawings substantially as described.

9. In a sash fastener such as described and illustrated in Figure 4 of the drawings a plate provided with a perforated shank and a spring hook and a cord connecting the shanks of the balance hook through the shank on said plate to the chain hanging from the disc substantially as and for the purposes set forth.

Specification, 5s. 6d. Drawings on application.

Application No. 4536.—JOHN HILTON SMITHIES BROWN, of Auckland, New Zealand, Engineer, "*Improved means for heating fluids.*"—Dated 4th August, 1903.

Claim:—

A device of the class described, comprising a body portion and a pipe coil secured to the bottom thereof, one end of which enters a short distance into the vessel and the other end to near the top of the vessel, substantially as and for the purpose set forth.

Specification, 2s. Drawings on application.

Application No. 4542.—THOMAS MICHAEL MURPHY, of 4281 Cook Avenue, in the City of St. Louis, State of Missouri, United States of America, Mechanical Engineer, "*An improved Pressure Tank.*"—Dated 10th August, 1903.

Claims:—

1. A pressure tank mounted on wheels and provided with means whereby it may be connected to a fire hydrant or other source of liquid under pressure so that said liquid will be forced into said tank, means whereby the air previously contained within said tank will be compressed by said liquid upon entering said tank, and means whereby the liquid will be discharged by the power of the air which it previously compressed, substantially as specified.

2. A pressure tank mounted on wheels whereby it may be transported from place to place, and having means adapted to be connected to a fire hydrant or other source of liquid under pressure, means whereby the air contained in said tank will be compressed upon entrance of liquid from said source, means for retaining the air in the tank under pressure, means arranged to permit the water to be forcibly ejected from said tank by the said pressure, and means for maintaining a water seal in said tank, substantially as specified.

3. A pressure tank having means for compressing and retaining any required amount of air therein by the admission of water, means whereby the water can be driven out of the tank by the force of the compressed air, and means for maintaining a water seal in the outlet so that none of the compressed air can escape therethrough, substantially as specified.

4. A pressure tank, consisting of a tank, means for admitting water into said tank, means for compressing air within the tank when water is admitted, means for retaining the compressed air therein, an outlet, means whereby the water can be driven through the said outlet by the pressure of the compressed air, and means whereby a water seal can be maintained within the outlet to prevent the escape of any of the water, within the tank, substantially as specified.

5. A pressure-tank apparatus comprising a suitable tank; a partition mounted in the tank to form an air-compartment and a water-compartment; a pipe connecting the air-compartment to the water-compartment, the water-compartment end of said pipe being open to the atmosphere to form an air-inlet; a valve controlling the air-inlet; and a valve controlling the passage from one compartment to the other, substantially as specified.

6. A pressure-tank apparatus, comprising a suitable tank mounted on wheels; a partition in the tank to divide the tank into an air-compartment and a water-compartment; a pipe connecting the air-compartment to the water-compartment; the water-compartment end of the pipe being open to the atmosphere and forming an air-inlet; a valve controlling the air-inlet; a valve in the pipe between the two compartments to control the passage from one compartment to the other; a discharge nozzle connected to the water-compartment; a valve controlling the discharge through the nozzle; a handle mounted adjacent to the driver's seat, a connection between the handle and the valve whereby the valve is operated to open and close the nozzle; a hydrant-connection at the rear end of the water-compartment; a pressure-gauge mounted near said hydrant-connection so that the operator may know when to shut off the hydrant; and a pressure-gauge mounted within side of the driver so that he may know when to shut off the discharge, substantially as specified.

Specifications, 6s. 6d. Drawings on application.

Application No. 4543.—GEORGE ALBERT WARBURTON ALEXANDER, of Austral Terrace, Malvern, in the State of South Australia, Sharebroker, "*A new or improved machine for Washing Clothing and Wool.*"—Dated 11th August, 1903.

Claims:—

1. In a new or improved machine for washing clothing and wool a series of compartments arranged together substantially as described, each compartment being provided with a vent hole *c* and a deflecting plate or hood *d*.

2. In a new or improved machine for washing clothing and wool the combination of a cross handle, and a series of compartments each compartment being characterised by having a vent hole and deflecting plate or hood substantially as described and as illustrated.

3. In a new or improved machine for washing clothing and wool characterised by the parts above specified and claimed, a bracket such as *h* for the reception of forceps such as *j* substantially as described and as illustrated in Figure 5.

4. The herein specified machine for washing clothing and wool arranged substantially as described and illustrated as and for the purposes set forth as a combination of parts.

Specification, 3s. 6d. Drawings on application.

Application No. 4544.—JOHN CHARLES BOWRING, of 90 Pitt Street, Sydney, in the State of New South Wales, in the Commonwealth of Australia, Engineer, "*An improved Spark-arrester for Locomotive and other Boilers, with apparatus for controlling and arranging the draught thereto.*"—Dated 12th August, 1903.

Claims:—

1. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, and so constructed that it may be easily removed as herein set forth.

2. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and having a combination of hanging cages which may be increased or diminished according to the draught requirements, as herein set forth.

3. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and having a plate arranged with hooks or loops in rows, to which several filtering cages may be hung as herein set forth.

4. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and having a bottom plate or grating with several circular ridges or webs to act as restraining guides for the cages, so that they may be kept in position without interfering with their oscillation, so that their apertures may be kept clear of obstructions, as herein set forth.

5. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and having two or more hinge bolts connected with slotted lugs, giving security and also freedom of release to the apparatus, as herein set forth.

6. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and having a vertical baffle plate of angular formation, having the apex of the angle disposed so as to distribute the results of combustion from the centre tubes through the smoke-box as herein set forth.

7. In a locomotive or other boiler a vertical cylindrical spark-arrester, hung from the crown of the smoke-box, and having a bottom plate resting on the floor of the smoke-box or combustion chamber, or affixed to and surrounding the exhaust pipe and connected with the chimney, being entered into the chimney, and the use or application of sheet metal so punctured that the divisions between the punctures or openings shall offer an oblique or low-vred obstacle or baffling surface to the upward passage of sparks or live cinders, as herein set forth.

8. The general combination and arrangement of the several parts of my apparatus substantially as described and illustrated, and for the purposes herein set forth.

9. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably suspended from the crown of said smoke-box.

10. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably hung or suspended from the crown of the smoke-box, and comprising a tube leading into the chimney surmounting said box, and a spark cage connected to said tube and inclosing said exhaust.

11. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably hung or suspended from the crown of the smoke-box, and comprising a tube leading into the chimney surmounting said box, and an interlocking connection between said tube and said cage.

12. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably hung or suspended from the crown of the smoke-box, and comprising a tube leading into the chimney surmounting said box, telescoping sections fitted to the lower end of said tube, a circular plate, an interlocking connection between the latter and said sections, and a spark cage movably hung or suspended from said plate.

13. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably hung or suspended from the crown of the smoke-box, and comprising a tube extending into the chimney surmounting said box, telescoping sections fitted to the lower end of said tube, a circular plate and a bayonet joint connection between the latter and said sections, and a cage movably suspended from said plate.

14. The combination with the smoke-box and exhaust pipe of a locomotive or other boiler, of a spark-arrester, movably hung from the crown of the smoke-box, and comprising a tube extending into the chimney surmounting said box, telescopic sections fitting the lower end of said tube, a circular plate and a bayonet joint connection between the latter and said sections, a plurality of concentric spark cages, movably suspended from said plate, and a grating at the lower end of said cages having spacing flanges for the latter.

15. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, movably suspended from the crown of the smoke-box, and comprising a tube extending into the chimney surmounting said box, telescoping sections fitted to the lower end of said tube, a circular plate and interlocking connection between the same and said connections, and a spark cage movably suspended from said plate, said cage being formed with openings having inclined ledges at the edges thereof.

16. The combination with the smoke-box and exhaust of a locomotive or other boiler, of a spark-arrester, comprising a tube, movably suspended from the crown of said smoke-box, and a spark cage detachably connected to said tube and having a swinging support therefrom.

17. A spark-arrester comprising a plurality of spark cages, and a grating at the lower end thereof, having means for spacing the cages apart.

Specification, 14s. Drawings on application.

Application No. 4548.—JESSE GILBERT LODGE, of Kellett Street, Darlinghurst, in the State of New South Wales, Gentleman, "*A Window-sash Support to facilitate the ready removal of Sliding Sashes from their Frames.*"—Dated 12th August, 1903.

## Claims:—

1. In window sash supports adapted to facilitate the displacement and removal of sliding sashes, a bar or rod with armatures fixed or movable, the said rod sliding and rotating in supporting brackets, when the armatures are attached thereto.
2. In window sash supports adapted to facilitate the displacement and removal of sliding sashes the alternative device of a fixed bar and rotating armatures as described and for the purposes set forth.
3. A window sash support having armatures adapted to receive and support a sliding sash, and a movable lifting button adapted to retain the said armature at a desired height as and for the purposes set forth.
4. In window sash supports of the kind described the combination therewith of lifting springs as and for the purposes set forth.
5. A sash pivot of the kind described adapted to be associated with rotatable armatures as and for the purposes set forth.
6. The alternative device applicable as a window sash support, or its combination with the before-mentioned rotatable armatures as shown in Figure 8 and as herein described.
7. The general combination and arrangement of the parts herein described serving as sash supports as described and shown.

Specification, 7s. Drawings on application.

Application No. 4551.—HENRY THIELMANN, of York, Baker and Storekeeper, and RICHARD MONTAGUE WILLIAMSON, of 17 Harley Street, Highgate Hill, Perth, Draughtsman, both in the State of Western Australia, "A new or improved Brake for Two-wheeled Vehicles."—Dated 13th August, 1903.

## Claims:—

1. A new or improved brake for two-wheeled vehicles as described in the specification and as shown in the drawings.

Specification, 1s. 6d. Drawings on application.

Application No. 4555.—GEORGE WILLIAM BROWN, of Preston Street, South Preston, in the State of Victoria, Engineer, and GEORGE MICHAEL NORTON, of James Street, Coburg, in the State of Victoria aforesaid, Currier, "Improvements connected with Furnace Fire-bridges and adjoining parts of Steam Generators."—Dated 13th August, 1903.

## Claims:—

1. In devices of the class indicated, a firebridge apertured at its left and right in combination with short air inlet tubes located immediately beneath fire bars, and outlet tubes which connect with said inlets, and incline upwardly into the combustion chamber, with their outlets at about the bridge level as set forth.
2. In devices of the class indicated, the combination with an apertured firebridge, of upwardly inclined tubes extending into the combustion chamber to about the bridge level, and groups of short inlet tubes (having a common trunk) extending to said apertures from immediately under the fire bars as set forth.
3. In devices of the class indicated, the combination with the apertured firebridge, of the tubes inclined upward into the combustion chamber having outlets at the end and underside only, and groups of short inlet tubes having trunks, communicating therewith from immediately under fire bars as set forth.
4. In devices of the class indicated, the combination with the recessed and apertured firebridge, of groups of inlet tubes, and brackets 1 supported thereby with pivots m, damper actuating rod n, of damper arms o and a group of dampers p to each damper rod as set forth.
5. In devices of the class indicated, the combination with the apertured firebridge, of the tubes inclined upward into the combustion chamber having outlets at the end and underside only, and groups of short inlet tubes having trunks, communicating therewith from immediately under fire bars, brackets supported by said inlet tubes, a damper actuating rod pivoted to each said bracket, a group of damper arms connected to each damper rod, and a damper to each arm substantially as and for the purposes set forth.

Specification, 5s. Drawings on application.

Application No. 4556.—REGENERATED COLD AIR COMPANY, of 147 Milk Street, in the City of Boston, in the County of Suffolk and State of Massachusetts, United States of America (Assignee of FREDERICK WHITE), "Apparatus for Treating Air."—Dated 15th August, 1903.

## Claim:—

1. In apparatus for treating air, the combination of an air-regenerating device; means for distributing an air-changing medium over said regenerator; means for causing air from without the apparatus to travel over said medium on the regenerator; and means for returning said air to the air outside the apparatus, the distributing means being driven slowly from a shaft provided with a water wheel which is enclosed in a casing shaped to prevent the water from swirling therein, and to cause the water to discharge into the distributing device, the whole operating to effect desired changes in the air without spattering of liquid outwardly from the apparatus.

Specification, 7s. Drawings on application.

Application No. 4559.—THOMAS ARTHUR DENNIS, of 483 Collins Street, in the City of Melbourne, in the County of Bourke, in the State of Victoria, in the Commonwealth of Australia, "An improved appliance for lifting fencing and other posts out of the ground."—Dated 18th August, 1903.

## Claims:—

1. In an appliance for lifting fencing and other posts out of the ground, the ratchet f, in combination with the chain g, substantially as and for the purposes set forth.
2. In an appliance for lifting fencing and other posts out of the ground, the pawl e, in combination with the chain g, substantially as and for the purposes set forth.
3. The general combination and arrangement of the several parts set forth in figures 1 and 2 on the accompanying sheet of drawings, forming a complete appliance for lifting fencing and other posts out of the ground, substantially as and for the purposes set forth.

Specifications, 2s. Drawings on application.

Application No. 4560.—WILLIAM EDWARD HOLDERMAN, of Marysvale, in the County of Pi Ute, and State of Utah, United States of America, Gentleman, "Improvements in Devices for treating Slimes of Mineral-bearing Quartz."—Dated 18th August, 1903.

## Claims:—

1. A leaching tank comprising a liquid-tight case, a discharge pipe in its bottom, an inclined floor in said case, spaced cleats on said floor and the sides of the case, a filtering fabric covering said cleats, and overlapping the upper edge of the tank, a moulding to hold the fabric in operative position and pipes provide with stoppers, leading from the filter out through said case as herein described.
2. In a filtering tank, a filtering partition extending across said tank, and a trough in its lower edge for the filtrate as herein described.
3. In a filtering tank having vertical cleats covered with a filtering fabric, a filtering partition extending across said tank, a trough in its bottom for the filtrate, and an orifice through the filtering of said tank, into which the filtrate from said trough is discharged.
4. In a filtering tank having vertical cleats covered with a filtering fabric, a filtering partition across said tank composed of rails h, h', at its top rails, h', h', at its bottom, vertical spaced slats whose ends are held between said rails, a filtering fabric covering said slats, a trough at the lower edge of said partition, and means to removably support the partition as herein set forth.
5. In a series of leaching tanks, of the character described, arranged in stair-like co-operative relation, pipes leading from the bottom of each tank, valves in said pipes, a conduit to receive the discharge from said pipes, a receiver into which said conduit discharges, and pipes in each tank provided with stoppers, discharging from the filters through the outer case into the tank next below it, the pipes from the lowest tank discharging into a waste trough substantially as herein described.

Specification, 6s. Drawings on application.

Application No. 4561.—EDWARD FARRAR, of "Bleau Cottage," Park Street, Belgravia, Johannesburg, Transvaal, Engineer, and SIDNEY RICKMAN ADAMS, of Cassel Buildings, corner of Kerk and Joubert Streets, Johannesburg, Transvaal, Engineer, "Improved automatic weighing or measuring and recording machine, applicable for ore, coal, grain, and other similar substances or materials."—Dated 18th August, 1903.

## Claims:—

1. An apparatus of the nature specified comprising a divided hopper mounted so as to oscillate from side to side and constructed with separate discharge outlets for each compartment and means for automatically and alternately opening and closing doors fitted to said outlets, as the hopper oscillates, substantially as described.
2. An automatic weighing or measuring and recording machine comprising a hopper divided by a central division plate and mounted so as to oscillate from side to side, discharge openings formed in the bottom of the two compartments of the hopper, doors hinged in the discharge openings, and rollers arranged in proximity to the openings which operate to automatically and alternately open and close the doors as the hopper oscillates, substantially as described.
3. In an apparatus of the nature indicated the combination with a double or divided hopper adapted to oscillate from side to side, of independent discharge outlets for each compartment means for controlling doors fitted to said outlets to discharge the material alternately from said compartments, and means for retaining the hopper in its alternative positions and for automatically releasing same when the predetermined quantity of material has passed into the hopper, substantially as described.
4. In an automatic weighing or measuring and recording machine, the means for retaining the hopper in its alternative positions and for automatically releasing same when the predetermined quantity of material has passed into the hopper, comprising a vertically disposed column or rod and a casing or slide arranged round the same, levers pivoted to the slide carrying at their upper ends a roller and attached at their lower ends to weights and constructed to carry a stop which serves as a means for regulating the movement of the levers, and the bracket and catch affixed to the side of the hopper, which engages the roller carried by the levers, and lifts the slide and weights to disengage the roller when the predetermined weight has passed into the opposite compartment of the hopper, substantially as described.
5. An automatic weighing or measuring and registering and recording machine comprising the double or divided hopper adapted to oscillate from side to side, independent discharge outlets for each compartment, means for independently controlling doors fitted to said outlets to discharge the material alternately from said compartment as the hopper oscillates, means for retaining the hopper in its alternative positions and for automatically releasing the same when the predetermined quantity of material has passed into the hopper, and registering or recording mechanism operated by the oscillating hopper to record the number of oscillations and the quantity of material passed through the hopper substantially as described.
6. An automatic weighing or measuring and recording machine for ore, coal, grain and other fragmentary, granular or pulverulent substances or materials having its several parts constructed, arranged and operating for the purposes specified, substantially as described.

Specification 13s. 6d. Drawings on application.

Application No. 4562.—FOREIGN MCKENNA PROCESS COMPANY, of corner Milwaukee and Mason Streets, Milwaukee, County of Milwaukee, State of Wisconsin, United States of America (assignee of David Holliday Lentz), "Improvements in Charging Machines."—Dated 18th August, 1903.

## Claim:—

1. In a machine for charging rails or other material, the combination with a transfer table adapted to receive rails, of a guideway adjacent to said transfer table, adapted to receive rails from said transfer table, means for raising said transfer table to elevate the same above said guideway, means for moving said transfer table to place the rails within said guideway, means for depressing said transfer table, thereby lowering the rails into said guideway, means for causing a reverse movement of said transfer table, and a car for propelling said rails along said guideway and into a receiving chamber, substantially as described.
2. In a machine for charging rails or other material, the combination with a transfer table adapted to receive rails, of a guideway adjacent to said transfer table, adapted to receive rails from said transfer table, means for raising said transfer table to elevate the same above said guideway, means for moving said transfer table to place the rails within said guideway, means for depressing said transfer table, thereby lowering the rails into said guideway, means for causing a reverse movement of said transfer table, a car for propelling said rails along said guideway and into a receiving chamber, a supporting frame within which said guideway and said transfer table are mounted, rails over which said frame is adapted to operate, and means for causing a movement of said supporting frame over said rails, substantially as described.

3. In a machine for charging rails or other material, the combination with a transfer table adapted to receive rails, of a guideway adjacent to said transfer table, adapted to receive rails from said transfer table, a bed of rollers provided in said guideway, means for raising said transfer table to elevate the same above said rollers, means for moving said transfer table to place the rails within said guideway, means for depressing said transfer table, thereby lowering the rails on to said rollers, means for causing a reverse movement of said transfer table, and a car for propelling said rails along said guideway and into a receiving chamber, substantially as described.

4. In a machine for charging rails or other material, the combination with a transfer table adapted to receive rails, of a guideway adjacent to said transfer table, adapted to receive rails from said transfer table, a bed of rollers provided in said guideway, means for raising said transfer table to elevate the same above said rollers, means for moving said transfer table to place the rails within said guideway, means for depressing said transfer table, thereby lowering the rails on to said rollers, means for causing a reverse movement of said transfer table, a car for propelling said rails along said guideway and into a receiving chamber, and a supporting frame within which said transfer table and said guideway are mounted, substantially as described.

5. In a charging machine, the combination with a transfer table, of a guideway arranged transversely to said transfer table, said transfer table being adapted to deposit rails or other material on said guideway preparatory to charging into a furnace, means for moving said transfer table toward and away from said guideway, toggle joints to effect a raising and lowering of said transfer table, relative to said guideway, and means for causing an actuation of said toggle joints, substantially as described.

6. In a charging machine, the combination with a transfer table, of a guideway arranged transversely to said transfer table, said transfer table being adapted to deposit rails or other material on said guideway preparatory to charging into a furnace, means for moving said transfer table toward and away from said guideway, toggle joints to effect a raising and lowering of said transfer table, relative to said guideway, means for causing an actuation of said toggle joints, and a cataract engine for operating said toggle joints, substantially as described.

7. In a charging machine, the combination with a transfer table, of a guideway arranged transversely to said transfer table, said transfer table being adapted to deposit rails or other material on said guideway preparatory to charging into a furnace, means for moving said transfer table toward and away from said guideway, toggle joints to effect a raising and lowering of said transfer table, relative to said guideway, means for causing an actuation of said toggle joints, and a cataract engine for operating said toggle joints, substantially as described.

8. In a charging machine, the combination with a transfer table, of a guideway arranged transversely to said transfer table, said transfer table being adapted to deposit rails or other material on said guideway preparatory to charging into a furnace, means for moving said transfer table toward and away from said guideway, toggle joints to effect a raising and lowering of said transfer table, relative to said guideway, means for causing an actuation of said toggle joints, a cataract engine for operating said toggle joints, and a frame for said guideway and said transfer table, substantially as described.

9. In a charging machine, the combination with a guideway, of means for charging rails or other material from said guideway into a furnace or other receiving chamber, transfer tables adapted to deposit rails within said guideway, means for moving said transfer table toward or away from said guideway, toggle joints for effecting a raising or lowering of said transfer table, a framework for said guideway and said transfer table, a cataract engine mounted upon said frame and adapted to operate said toggle joints, and means for moving said framework bodily in front of a furnace, substantially as described.

10. In a transfer table, the combination with a supporting plate, of means for effecting a longitudinal movement of said plate, toggle joints for raising and lowering said plate, means for operating said toggle joints, and a framework to which said toggle joints are fixedly secured, substantially as described.

11. In a transfer table, the combination with a supporting plate, of rollers upon which said supporting plate is adapted to be operated, a rack, a pinion, gear mechanism for operating said plate, a frame within which said rollers are mounted, toggle joints for raising and lowering said frame to effect a raising and lowering of said supporting plate, and means for operating said toggle joints, substantially as described.

12. In a transfer table, the combination with a supporting plate, of rollers upon which said supporting plate is adapted to be operated, a rack, a pinion, gear mechanism for operating said plate, a frame within which said rollers are mounted, toggle joints for raising and lowering said frame to effect a raising and lowering of said supporting plate, and a cataract engine for operating said toggle joints, substantially as described.

13. In a machine of the class described, the combination with a chute of transfer tables movable transversely of said chute for depositing rails or other material therein, lever mechanism for raising and lowering said transfer tables, whereby the same are adapted to convey said material toward and into said chute, an engine for causing the raising and lowering of said transfer tables, and propelling mechanism movable longitudinally of said chute, for discharging the said material therefrom, substantially as described.

14. A charging machine, comprising a framework, motor mechanism for causing a movement of said charging machine, a chute provided in said charging machine, a transfer table mounted upon said charging machine for receiving material to be charged and periodically depositing the same within the chute, motor mechanism for operating the said transfer table, lever mechanism for raising and lowering the said transfer table, and propelling means moving longitudinally of said chute to discharge the material deposited therein by the transfer table, substantially as described.

Specification, 13s. Drawings on application.

R. G. FERGUSON,  
Registrar of Patents.

**Subsequent Proprietors of Patents registered from 15th to 22nd August, 1903.**

[NOTE.—The name in brackets is that of former proprietor.]

No. 3909.—The Crown Corporation, Limited [A. J. Bullock].

**Applications Abandoned.**

AUGUST 15TH—22ND.

Application No. 4089.—EVELYN AUGUSTA CONYERS, of 25 Flinders Lane, Melbourne, in the County of Bourke, in the State of Victoria, Certificated Nurse, "An improved supporting frame to be used with a slipper bed-pan."—Dated 21st October, 1902.

Application No. 4091.—WALTER JOHN ROACH and HARRY CHARLES HABERMANN, of Guildford, Agents, "A New Automatic Acetylene Gas Generator."—Dated 22nd October, 1902.

**Applications for Patents.**

AUGUST 15TH—22ND.

[Where Provisional Specification accompanies Application an asterisk is affixed.]

No.	Date.	Name.	Address.	Title.
4556	15th Aug., 1903	Regenerated Cold Air Company (assignee of F. White)	Boston, U.S.A. ...	Apparatus for treating air.
*4557	18th Aug., 1903	United Shoe Machinery Company (assignee of R. F. McFeely)	Paterson, U.S.A. ...	Improvements in or relating to pulling over and like machines.
*4558	18th Aug., 1903	Jones, H. ... ..	Ascot Vale, Victoria	An improved machine for crushing, and, if necessary, amalgamating, metalliferous ores
4559	18th Aug., 1903	Dennis, T. A. ... ..	Melbourne, Victoria	An improved appliance for lifting fencing and other posts out of the ground.
4560	18th Aug., 1903	Holdermann, W. E. ... ..	Maryvale, U.S.A. ...	Improvements in devices for treating slimes of mineral-bearing quartz.
4561	18th Aug., 1903	Farrar, F., and Adams, S. R.	Johannesburg, South Africa	Improved automatic weighing or measuring and recording machine, applicable for ore, coal, grain, and other similar substances or materials.
4562	18th Aug., 1903	Foreign McKenna Process Company (assignee of Lentz, D. H.)	Milwaukee, U.S.A.	Improvements in charging machines.
*4563	19th Aug., 1903	Finnerty, H. F. ... ..	Fremantle, W.A. ...	An improved door stop.
4564	20th Aug., 1903	Bottrill, T. ... ..	Amosfield, N.S.W.	Improved apparatus for facilitating the branding and castrating of calves and other animals.
4565	20th Aug., 1903	Poe, D. A., and Scharf, W. H.	Montreal, Canada	Linotype machine.
4566	21st Aug., 1903	Moore, G. ... ..	Mercur, U.S.A. ...	Improvements in filters.
4567	21st Aug., 1903	Huck, A., and Fischer, L. ...	Frankfurt-on-the-Main, Prussia	Improvements in and connected with supports for photographic and other printings
4568	21st Aug., 1903	Adams, R. L., and Adams, D. (assignees of Loose, M. E., and Baird, T. E.)	Wellington, N.Z. ...	Wall plaster, to be known as "Elastic Pulp Plaster."

Provisional Specifications Accepted.

Patent Office, Perth, 28th August, 1903.

APPLICATIONS for Letters Patent, accompanied by Provisional Specifications, which have been accepted from 15th to 22nd August, 1903:—

- Application No. 4251.—RICHARD COSSLETT, of Karanjahape Road, Auckland, in the Colony of New Zealand, Cabinet Maker, "Improvements in Cocks or Taps, high or low pressure."—Dated 27th January, 1903.
- Application No. 4540.—ROBERT AITKEN and WILLIAM COBLEY, both of Gunnedah, in the State of New South Wales, Plumber and Hotelkeeper respectively, "An Improved Generator for Acetylene and other hydro-carbon gases."—Dated 7th August, 1903.
- Application No. 4546.—JOHN CHARLES WILLIAM THOMPSON, of 17 David Street, Footscray, Carpenter, and JAMES HENRY SMITH, of 253 Queensberry Street, North Melbourne, Clerk, both in the State of Victoria, and Commonwealth of Australia, "An improved apparatus for regulating the feeding and watering of cattle or other animals."—Dated 12th August, 1903.

R. G. FERGUSON,  
Registrar of Patents.

Index of Applicants for Patents.

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Name.	Title.	No.	Date.
Adams, R. L., and D. ... ..	Wall plaster, to be known as Elastic Pulp Plaster ...	4568	21st Aug., 1903
Adams, S. R. ... ..	<i>Vide</i> Farrar, E., and Adams, S. R. ... ..	4561	18th Aug., 1903
Bottrell, T. ... ..	Improved apparatus for facilitating the branding and castrating of calves and other animals	4564	20th Aug., 1903
Dennis, T. A. ... ..	An improved appliance for lifting fencing and other posts out of the ground	4559	18th Aug., 1903
Farrar, E., and Adams, S. R. ... ..	Improved automatic weighing or measuring and recording machine, applicable for ore, coal, grain, and other similar substances or materials	4561	18th Aug., 1903
Fischer, L. ... ..	<i>Vide</i> Huck, A., and Fischer, L. ... ..	4567	21st Aug., 1903
Finnerty, H. F. ... ..	An improved door stop ... ..	4563	19th Aug., 1903
Foreign McKenna Process Coy. (assignee of Lentz, D. H.)	Improvements in charging machines ... ..	4562	18th Aug., 1903
Holderman, W. E. ... ..	Improvements in devices for treating slimes of mineral-bearing quartz	4560	18th Aug., 1903
Huck, A., and Fischer, L. ... ..	Improvements in and connected with supports for photographic and other printings	4567	21st Aug., 1903
Jones, H. ... ..	An improved machine for crushing, and if necessary, amalgamating metalliferous ores	4558	18th Aug., 1903
Lentz, D. H. ... ..	<i>Vide</i> Foreign McKenna Process Co. ... ..	4562	18th Aug., 1903
McFeely, R. F. ... ..	<i>Vide</i> United Shoe Machinery Co. (assignee of McFeely, R. F.)	4557	18th Aug., 1903
Moore, G. ... ..	Improvements in filters ... ..	4566	21st Aug., 1903
Poe, D. A., and Scharf, W. H. ... ..	Linotype machine ... ..	4565	20th Aug., 1903
Regenerated Cold Air Co. (assignee of White, F.)	Apparatus for treating air ... ..	4556	15th Aug., 1903
Scharf, W. H. ... ..	<i>Vide</i> Poe, D. A., and Scharf, W. H. ... ..	4565	20th Aug., 1903
United Shoe Machinery Co. (assignee of McFeely, R. F.)	Improvements in or relating to pulling over and like machines	4557	18th Aug., 1903
White, F. ... ..	<i>Vide</i> Regenerated Cold Air Co. ... ..	4556	15th Aug., 1903

Index of Subjects of Patent Applications.

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Title.	Name.	No.	Date.
Air (apparatus for heating) ... ..	Regenerated Cold Air Co. ... ..	4556	15th Aug., 1903
Amalgamating Machines ... ..	Jones, H. ... ..	4558	18th Aug., 1903
Boots and Shoes (pulling-over machine)	United Shoe Machinery Co. ... ..	4557	18th Aug., 1903
Branding Calves ... ..	Bottrell, T. ... ..	4564	20th Aug., 1903
Castration ... ..	<i>Vide</i> Branding Calves ... ..	4564	20th Aug., 1903
Charging Machine ... ..	Foreign McKenna Process Co. ... ..	4562	18th Aug., 1903
Door Stop ... ..	Finnerty, H. F. ... ..	4563	19th Aug., 1903
Filters ... ..	Moore, G. ... ..	4566	21st Aug., 1903
Iron ... ..	<i>Vide</i> Charging Machine ... ..	4562	18th Aug., 1903
Linotype Machine ... ..	Poe, D. A., and Scharf, W. H. ... ..	4565	20th Aug., 1903
Measuring Machines ... ..	<i>Vide</i> Weighing Machine ... ..	4561	18th Aug., 1903
Ores (crushing) ... ..	<i>Vide</i> Amalgamating Machines ... ..	4558	18th Aug., 1903
Photographic Printing (supports for)	Huck, A., and Fischer, L. ... ..	4567	21st Aug., 1903
Printing ... ..	<i>Vide</i> Photographic Printing (supports for) ... ..	4567	21st Aug., 1903
Printing Machine ... ..	<i>Vide</i> Linotype Machine ... ..	4565	20th Aug., 1903
Recording Machines ... ..	<i>Vide</i> Weighing Machine ... ..	4561	18th Aug., 1903
Slimes (treatment of) ... ..	Holderman, W. E. ... ..	4560	18th Aug., 1903
Steel Rails (charging) ... ..	<i>Vide</i> Charging Machine ... ..	4562	18th Aug., 1903
Wall Plaster ... ..	Adams, R. L., and D. ... ..	4568	21st Aug., 1903
Weighing Machine ... ..	Farrar, E., and Adams, S. R. ... ..	4561	18th Aug., 1903

Index of Patentees.

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Name.	Title.	No.	Date.	Gazette.		
				Date.	No.	Page.
Holbourns, J. G., and Longhurst, H. A.	Improvements in machines for the assembly of type matrices and the casting of linotypes therefrom	4430	21st May, 1903	19th June, 1903	25	1635
Longhurst, H. A. ... ..	<i>Vide</i> Holbourns, J. G., and Longhurst, H. A.	4430.	21st May, 1903	19th June, 1903	25	1635
Thompson, J. H. ... ..	An improved pegless clothes line and method of manufacturing same	4437	27th May, 1903	19th June, 1903	25	1635

Index of Subjects of Patents Granted.

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Title.	Name.	No.	Date.	Gazette.		
				Date.	No.	Page.
Clothes-line ... ..	Thompson, J. H. ... ..	4437	27th May, 1903	19th June, 1903	25	1635
Linotypes (improvements in)	Holbourns, J. G., and Longhurst H. A.	4430	21st May, 1903	19th June, 1903	25	1635
Type-setting Machine ... ..	<i>Vide</i> Linotypes ... ..	4430	21st May, 1903	19th June, 1903	25	1635

Trade Marks.

Patent Office, Trade Marks Branch,  
Perth, 28th August, 1903.

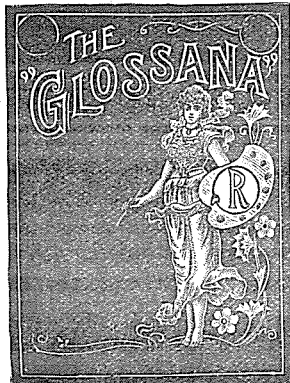
IT is hereby notified that I have received the under-mentioned Applications for the Registration of Trade Marks.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form F), of his or their objections thereto, within two calendar months from the date of this *Gazette*.

A fee of £1 is payable with such notice.

R. G. FERGUSON,  
Registrar of Designs and Trade Marks.

Application No. 2881, Dated 28th July, 1903.—ERNEST REINEMANN, trading as "Reinemann & Co.," 9 Love Lane, Wood Street, London, E.C., England, Bronze Powder and Gold Paint Manufacturers, to register in Class 1, in respect of Gold Paint, Varnish, Enamels, Bronzing Medium and Bronze Powder, a Trade Mark, of which the following is a representation:—



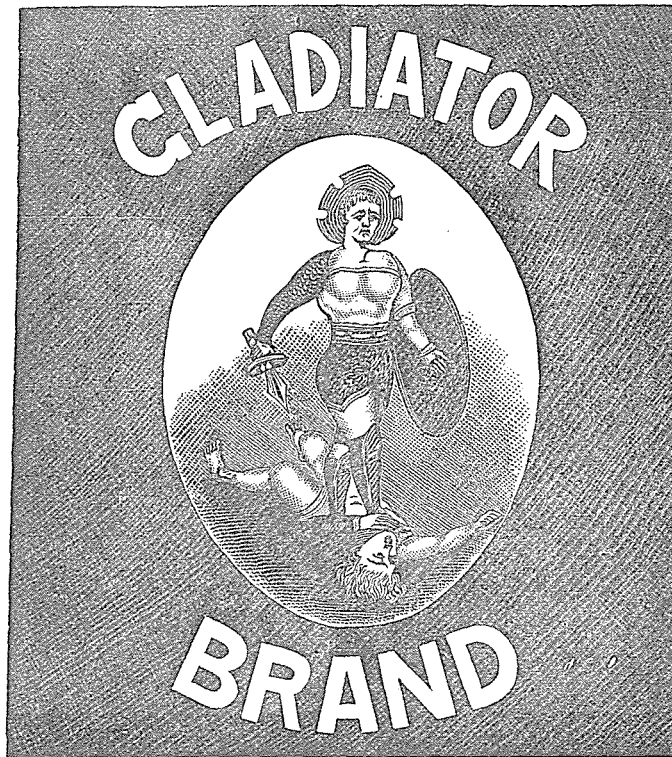
The essential particulars of the Trade Mark are the word "Glossana," the distinctive device, and the distinctive label, and applicants disclaim any right to the exclusive use of the added matter.

Application No. 2901, dated 18th August, 1903.—DOUGLAS MANUFACTURING COMPANY, of 90 Church Street, New York, in the United States of America, to register in Class 3, in respect of a Liquid Court Plaster, a Trade Mark, of which the following is a representation:—

<p>Heals Cuts, Abrasions, Hang-Nails, Chapped and Split Lips or Fingers, Burns, Blisters, etc Instantly Relieves Chilblains, Frosted Ears, Stings of Insects, Chafed or Blistered Feet, Callosities Spots, etc.</p> <p>A coating on the fingers will protect them from infection or stains.</p> <p>Can be removed by applying more "New-Skin", and rubbing with fingers while wet</p>		<p>DIRECTIONS.—Have surface of skin as dry as possible before applying. Coat thoroughly and allow to dry naturally. Don't breathe on it. Let the application extend beyond the wound —It cannot injure the skin and will draw out surrounding inflammation. Keep a skinned knuckle bent until "New-Skin" is dry. Should "New-Skin" become detached before wound heals, recoat the parts exposed.</p> <p>"New-Skin" will smart for an instant when applied to open wounds because of the ingredients which have the positive germ killing properties, but were these not present, the utility of "New-Skin" would be seriously impaired.</p>
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The essential particular of the Trade Mark is the distinctive label, and applicant Company disclaims any right to the exclusive use of the added matter.

Application No. 2903, dated 20th August, 1903.—G. Wood, Son, & Co., of Fremantle, Wholesale Grocers and Importers, to register in Class 42, in respect of articles used as food or ingredients of food, a Trade Mark, of which the following is a representation:—



The essential particulars of the above Mark consist of the combination and devices and the word "Gladiator."

Renewal Fees paid on Trade Mark applications from 15th to 22nd August, 1903.

No. 229.—G. & J. G. Smith.

Subsequent Proprietor of Trade Mark registered from 15th to 22nd August.

[NOTE.—The name in brackets is that of the former proprietor.]  
No. 229.—Grant, G. S. (trading under the style of G. & J. G. Smith) [G. & J. G. Smith].

Alphabetical List of Registrants of Trade Marks.

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Name.	Goods.	Class	No.	Date.	Gazette.		
					No.	Date.	Page.
Diebolaget Rotator Manufacturing Co., Ltd.	Centrifugal liquid separators ...	7	2830	2nd June, 1903	24	12th June, 1903	1563
Dailuaine-Talisker Distilleries, Limited	Whisky ... ..	43	2834	2nd June, 1903	24	12th June, 1903	1564
Demel, L. ... ..	Substances used as food or as ingredients in food	42	2807	8th May, 1903	20	15th May, 1903	1180
Kitchen, J., & Sons, and Marsh, Limited	Soap and candles ... ..	47	2809	12th May, 1903	21	22nd May, 1903	1280
Kitchen, J., & Sons, and Marsh, Limited	Soap and candles ... ..	47	2823	26th May, 1903	23	5th June, 1903	1476
Lorimer, R., & Co. ...	Cigars... ..	45	2837	4th June, 1903	24	12th June, 1903	1564
Lysaght, J., Limited ...	Galvanised iron and wire, fencing wire, sheet iron, plate iron, bar iron, and boiler plates	5	2833	2nd June, 1903	24	12th June, 1903	1563
Wills, W. D. & H. O. (Australia), Limited	Tobacco pipes, smoking pipes, and cognate requisites	50	2822	21st May, 1903	24	12th June, 1903	1563

## Index of Goods for which Trade Marks have been registered.

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Goods.	Name.	No.	Date.	Class.	Gazette.		
					No.	Date.	Page.
Candles ... ..	<i>Vide</i> Soap ... ..	2809	12th May, 1903	47	21	22nd May, 1903	1280
Candles ... ..	<i>Vide</i> Soap ... ..	2823	26th May, 1903	47	23	5th June, 1903	1476
Cigars ... ..	Lorimer, R., & Co. ... ..	2537	4th June, 1903	45	24	12th June, 1903	1564
Food Substances ... ..	Demel, L. ... ..	2807	8th May, 1903	42	20	15th May, 1903	1180
Iron and Wire (galvanised)	Lysaght, J., Ltd. ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563
Iron (bar) ... ..	<i>Vide</i> Iron and wire (galvanised) ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563
Iron (plate) ... ..	<i>Vide</i> Iron and wire (galvanised) ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563
Iron (sheet) ... ..	<i>Vide</i> Iron and wire (galvanised) ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563
Pipes (smoking) and Cognate Requisites	<i>Vide</i> Pipes (tobacco) ... ..	2822	21st May, 1903	50	24	12th June, 1903	1563
Pipes (tobacco) ... ..	Wills, W. D. & H. O. (Australia), Ltd. ... ..	2822	21st May, 1903	50	24	12th June, 1903	1563
Plates (boiler) ... ..	<i>Vide</i> Iron and Wire (galvanised) ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563
Separators (centrifugal liquid)	Aktiebolaget Rotator Manufacturing Co., Ltd. ... ..	2830	2nd June, 1903	7	24	12th June, 1903	1563
Soap ... ..	Kitchen, J., & Sons, & Marsh, Ltd. ... ..	2809	12th May, 1903	47	21	22nd May, 1903	1280
Soap ... ..	Kitchen, J., & Sons, & Marsh, Ltd. ... ..	2823	26th May, 1903	47	23	5th June, 1903	1476
Whisky ... ..	Dailuaine-Talisker Distilleries, Ltd. ... ..	2834	2nd June, 1903	43	24	12th June, 1903	1564
Wire (fencing) ... ..	<i>Vide</i> Iron and Wire (galvanised) ... ..	2833	2nd June, 1903	5	24	12th June, 1903	1563