Supplement to Government Gazette

OF

WESTERN AUSTRALIA.

[Published by Authority.]

No. 30. P.O. No. 27. PERTH: FRIDAY, JULY 7. [1899.

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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,
7th July, 1899.

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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian *Government Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 2539.—GUY DE BECHI, of 17 Boulevard de la Madeleine, Paris, in the Republic of France, Chemical Engineer, "*Improvements in the treatment of Complex Ores.*"—Dated 4th November, 1898. *

* Filed under Section three of "Amended Patent Act, 1894."

Claims:—

1. The method of treating ores consisting in roasting the ore and an alkaline chloride salt in separate furnaces into which the steam is injected, passing the vapours and gases from the ore over and in contact with the salt so as to produce a sulphate, recovering the gases finally issuing from the roasting chamber, lixiviating the roasted ore with the liquor containing said gases, and separating the metals dissolved in said liquor by fractional precipitation, substantially as described.

2. In the method referred to in Claim 1, the mixture of pyrites with the ore, substantially as and for the purposes specified.

3. The method of treating complex ores for the recovery of metals therefrom, substantially as herein described and for the purpose specified.

Specification, 7s. 6d.

Application No. 2541.—MALCOLM BRUCE, of Thames, in the Colony of New Zealand, Metallurgist, "*An improved Vat for treating Ore by solvent processes.*"—Dated 30th May, 1899.

Claims:—

1. In a vat, for treating ores or such like, by solvent processes, an upper or false bottom having tappet valves therein, and having the true bottom beneath the false bottom, divided into encircling and separate channels, connected by tubes and stop cocks to an inlet pipe, junctioned to a solution pipe and wash water pipe, for the purpose set forth as herein described, and as illustrated by the accompanying drawings.

2. In a vat, for treating ores, or such like, by solvent processes, encircling and separate channels beneath a false bottom, having tappet valves connected thereto, said channels being connected by tubes and stop cocks to an inlet pipe, junctioned to a solution pipe and wash water pipe, for the purpose set forth as herein described, and as illustrated by the accompanying drawings.

3. In a vat, for treating ores, or such like, by solvent processes, an inlet pipe connected by separate and distinct stop cocks to channels beneath, a false bottom having tappet valves therein, connected to said channels for the purpose set forth as herein described, and as illustrated by the accompanying drawings.

4. In a vat, for treating ores, or such like, by solvent processes, an atmospheric air pipe and a sludge pipe connected to channels beneath a false bottom, having tappet valves therein connected to said channels for the purpose set forth as herein described, and illustrated in the accompanying drawings.

5. In a vat, for treating ores, or such like, by solvent processes, ports or holes cut into and through the wall of the vat near its top, with grooves, frames, and straps holding filtering cloths thereover for the purpose set forth as herein described, and as illustrated in the accompanying drawings.

6. In a vat, for treating ores, or such like, by solvent processes, a skeleton cover suspended over and in the vat for the purposes set forth as herein described, and as illustrated by the accompanying drawings.

7. In a vat, for treating ores, or such like, by solvent processes in combination, the vat having a false bottom with tappet valves therein connected to channels, said channels cut into or out of true bottom and connected to inlet pipe by tubes or short pipes and stop cocks, said inlet pipe junctioned to solution inlet pipe and wash water inlet pipe, said channels connected to atmospheric inlet pipe and to sludge pipe, vat having sluice doors in its wall near the bottom, and ports or holes near its top with grooves, frames, and straps holding filter cloths thereover, with a launder or gutter running round outside of said vat beneath said ports with outlet solution wash water, and crushing water pipes from said launder, a shaft and distributing arms fixed within centre of said vat, a skeleton cover suspended over and into said vat with filtering cloths secured thereto, having an overflow pipe from an observation channel therein, said cover having chamfered edge holding rubber band around edge of cover close to inside of vat when lowered therein, said skeleton cover, having a flat iron ring in its centre encompassing a fuunel designed to receive shaft of distributing arms, all for the purpose set forth as herein described, and as illustrated by the accompanying drawings.

Specification, 12s. Drawings on application.

Application No. 2544.—THE NEILD "SLEEVE" ELECTRIC JOINT SYNDICATE, LIMITED, of Blomfield House, London Wall, in the City of London, England, Manufacturers (assignee of HARRY WILLIAM NEILD), "*Improved Joint for Telegraph and other Wires conveying Electricity.*"—Dated 30th May, 1899.

Claims:—

1. A sleeve open at one side for part of its length and coated internally with solder.

2. The combination of a sleeve at one side for part of its length, two conductors lying side by side in the sleeve and solder filling the interstices between the conductors and the sleeve.

3. The combination of a sleeve open at one side for part of its length, two conductors lying side by side in the sleeve, their ends protruding beyond the sleeve, and being bent at an angle to their length, and solder filling the interstices between the conductors and the sleeve.

4. Joints for electric conductors, substantially as described and illustrated in the drawings.

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

Application No. 2545.—CHARLES CAMPBELL WORTHINGTON, of Dunnfield, Warren County, State of New Jersey, United States of America. Mechanical Engineer, "*Improvements in Steam Engines.*"—Dated 2nd June, 1899.

Claims:—

1. The combination with two steam cylinders, of a valve device carrying a valve or valves controlling the ports of both cylinders, pistons on said device for moving it in opposite directions, and valve mechanism for controlling the admission and exhaust of steam for actuating pistons, substantially as described.

2. The combination with two steam cylinders, of a valve device carrying a valve or valves controlling the ports of both cylinders, pistons at opposite ends of said device and separate valves controlling the admission and exhaust of steam outside said pistons for moving the device in opposite directions, substantially as described.

3. The combination with two steam cylinders, of a valve device carrying a valve or valves controlling the ports of both cylinders, pistons on said device for moving it in opposite directions and valve mechanism mechanically actuated by the engine and controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

4. The combination with two steam cylinders, of a valve device carrying a valve or valves controlling the ports of both cylinders, pistons at opposite ends of said device, and separate valves mechanically actuated by the engine and controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

5. The combination with two steam cylinders, of separate valves controlling the ports of the two cylinders and connected to move as a single device, pistons at opposite ends of said device, and separate valves mechanically actuated by the engine and controlling the admission and exhaust of steam outside said pistons for moving the valves in opposite directions, substantially as described.

6. The combination with two steam cylinders, of a piston valve device carrying a piston valve or valves controlling the ports of both cylinders, pistons on said device for moving it in opposite directions, and valve mechanism mechanically actuated by the engine and controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

7. The combination with two steam cylinders, of separate piston valves controlling the ports of the two cylinders and connected to move as a single device, pistons on said device for moving it in opposite directions, and valve mechanism controlling the admission and exhaust of steam for actuating said pistons to move the valves, substantially as described.

8. The combination with two steam cylinders, of separate piston valves controlling the ports of the two cylinders and connected to move as a single device, pistons on said device for moving it in opposite directions, and valve mechanism mechanically actuated by the engine and controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

9. The combination with high and low pressure cylinders arranged side by side, their steam ports, and connections for conducting exhaust steam from the high pressure cylinder to the low pressure cylinder, of separate valves controlling the ports of the two cylinders and connected to move as a single device, pistons on said device for moving it in opposite directions, and valve mechanism for controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

10. The combination with high and low pressure cylinders arranged side by side, their steam ports and connections for conducting exhaust steam from the high pressure to the low pressure cylinder, of separate valves controlling the ports of the two cylinders, and connected to move as a single device, pistons on said device for moving it in opposite directions, and valve mechanism mechanically actuated by the engine and controlling the admission and exhaust of steam for actuating said pistons, substantially as described.

11. The combination with high and low pressure cylinders arranged side by side, their steam ports and connections for conducting exhaust steam from high pressure cylinder to the low pressure cylinder, of separate valves controlling the ports of the two cylinders, and connected to move as a single device, pistons at opposite ends of said device, and separate valves mechanically actuated by the engine and controlling the admission and exhaust of steam outside said pistons for moving the valves in the opposite direction, substantially as described.

12. The combination with the pump cylinders, plungers and rocking beam of a direct acting pump, and a steam cylinder and piston on one or both sides of the pump, of a valve device controlling the steam ports, pistons on said device for moving it in opposite directions, and valve mechanism actuated by a moving part of the pump and controlling the admission and exhaust of steam for actuating said pistons on said device, substantially as described.

13. The combination with the pump cylinders, plungers and rocking beam of a direct acting beam pump, and a steam cylinder and piston on one or both sides of the pump, of a valve device controlling the steam ports, pistons at opposite ends of said device, separate valves controlling the admission and exhaust of steam outside said pistons for moving the valve device in opposite directions, and means for actuating said separate valves from a moving part of the pump, substantially as described.

14. The combination with the pump cylinders, plungers, and rocking beam of a direct acting beam pump, and a steam cylinder and piston on one or both sides of the pump, of a piston valve device controlling the steam ports, valve actuating pistons on said device, control valve mechanism controlling the admission and exhaust of steam outside said valve actuating pistons for moving the valve device in opposite directions, and means for actuating said control mechanism from a moving part of the pump, substantially as described.

15. The combination with the steam and pump cylinders, pistons, and plungers on opposite sides, and the rocking beam of a direct beam pump, of separate valves controlling the ports of the two cylinders and connected to move as a single device, pistons on said device for moving it in opposite directions, valve mechanism controlling the admission and exhaust of steam for actuating said pistons, and means for actuating said valve mechanisms from a moving part of the pump, substantially as described.

16. The combination with the steam and pump cylinders, pistons, and plungers on opposite sides, and the rocking beam of a direct beam pump, of separate valves controlling the ports of the two cylinders and connected to move as a single device, pistons at opposite ends of said device, separate control valves controlling the admission and exhaust of steam outside said pistons for moving the valves in opposite directions, and means for actuating said control from a moving part of the pump, substantially as described.

17. In a compound direct acting beam pump, the combination with the high and low pressure cylinders arranged side by side, their steam ports, and connections for conducting exhaust steam from the high pressure cylinder to the low pressure cylinder, of separate valves controlling the ports of the two cylinders, and connected to move as a single device, pistons on said device for moving it in opposite directions, valve mechanism for controlling the admission and exhaust of steam for actuating said pistons, and means for actuating said valve mechanism from a moving part of the pump, substantially as described.

18. In a compound direct acting beam pump, the combination with the high and low pressure cylinders arranged side by side, their steam ports, and connections for conducting exhaust steam from the high pressure cylinder to the low pressure cylinder, of separate valves controlling the ports of the two cylinders, and connected to move as a single device, pistons on said member for moving it in opposite directions, separate control valves controlling the admission and exhaust of steam for actuating said pistons, and means for actuating said control valves from a moving part of the pump, substantially as described.

19. The combination with a steam cylinder and its steam piston and valve, of a valve actuating piston on the valve rod, and valve mechanism actuated by the steam piston, and controlling the admission and exhaust of steam for moving the valve actuating piston, said valve mechanism having separate ports for the admission and exhaust of steam, substantially as described.

20. The combination with a steam cylinder and its steam piston valve, of valve actuating pistons on the valve rod at opposite sides of the valve, and valve mechanism actuated by the steam piston, and controlling the admission and exhaust of steam outside said pistons for moving the valve in opposite directions, said valve mechanism having separate ports for the admission and exhaust of steam, substantially as described.

21. The combination with a steam cylinder and its steam piston and valve, of valve actuating pistons on the valve rod, and separate valves for the valve actuating pistons actuated by the steam piston, and controlling the admission and exhaust of steam for moving the valve in opposite directions, substantially as described.

22. The combination with two steam cylinders arranged side by side, of valve mechanism for said cylinders, a single steam chest for said cylinders, and steam ports for the cylinders controlled by said valve mechanism for admitting steam to one or both of the cylinders, independently of the space within the valve chest, and for exhaust one or both of said cylinders to the space within the valve chest, substantially as described.

23. The combination with two steam cylinders arranged side by side, of separate valves for said cylinders, a single steam chest for said cylinders, and separate steam ports for the cylinders controlled by said valves for admitting steam to one or both of the cylinders, independently of the space within the valve chest, and for exhausting one or both of the said cylinders to the space within the valve chest, substantially as described.

24. The combination with two steam cylinders arranged side by side, of a steam chest having chamber and ports for the two cylinders at opposite ends of the chest, piston valves for the two cylinders in said chambers, and means for moving said valves in opposite directions, substantially as described.

25. The combination with two steam cylinders arranged side by side, of a steam chest having valve chambers and ports for the two cylinders in said chambers, and connections between the valves whereby the valves move together in both directions, substantially as described.

26. The combination with high and low-pressure cylinders arranged side by side, of a single steam chest for the cylinders, and steam ports for the cylinders controlled by said valves to admit steam to the high-pressure cylinder independently of the space within the steam chest, and to exhaust the high pressure cylinder into the space within the steam chest, and to admit steam to the low-pressure cylinder from the space within the steam chest, substantially as described.

27. The combination with the steam cylinder A, of steam chest G having valve chamber K, piston L in said chamber, admission port H connecting with the valve chamber independently of the space within the steam chest, exhaust port I communicating with the space within the steam chest, and ports controlled by said valve for admitting the steam to the cylinder from admission port H, and for exhausting steam from cylinder A to the space within the steam chest, substantially as described.

28. The combination with the high and low-pressure cylinders A, A1, of steam chest G, valve chambers K, K1, at opposite ends of the steam chest and opening into the space between the valve chambers, piston valves L, L1, in said valve chambers, admission port H connecting with the valve chamber K independently of the space between the valve chambers, exhaust port I communicating with the valve chamber K1, and ports controlled by said valve for admitting steam to the cylinder A from admission port H, and exhausting into the space between the valve chambers, and for admitting steam from the space between the valve chambers to the cylinder A1 and exhausting from the cylinder A1 to the exhaust port I, substantially as described.

29. The combination with the high and low-pressure cylinders A, A1, of steam chest G, having valve chambers K, K1, at opposite ends of the steam chest, and opening at their inner ends into the space between the valve chambers, exhaust passage i2 and admission passage k2 connecting the outer ends of the valve chambers with the space between the valve chambers, admission port H communicating with the valve chamber K, exhaust port I communicating with the valve chamber K1, and ports controlled by said valves for admitting steam from admission port H to the cylinder A, and exhausting from cylinder A to the space between the valve chambers from the inner end of valve chamber K, or through passage i2, and for admitting steam to the cylinder A1 from the space between the valve chambers through the inner end of the valve chamber K, or through passage K2, and for exhausting from cylinder A1 through exhaust port I, substantially as described.

30. Steam chest having valve chambers K, K1, and piston valves L, L1 in said chambers and connected together, pistons M, M1 outside the valves, and steam chambers for said pistons, substantially as described.

31. Steam chest having valve chambers K, K1, and piston valves L, L1 in said chambers and connected together, pistons M, M1 outside the valves, steam chambers for said pistons, admission and exhaust ports for said steam chambers, and control valves m, m1 at opposite ends of the steam chest, substantially as described.

32. Steam chest G, having valve chamber K, K1, and piston valves L, L1 in said chambers and connected together, pistons M, M1 outside the valves, admission and exhaust ports 1, 2, 3, 4, at opposite ends of the steam chest for admitting and exhausting steam outside said pistons, and control valves m, m1, substantially as described.

33. Steam chest G, having steam ports for two cylinders at opposite ends and admission and exhaust ports H, I, and valves controlling the port for admitting steam from port H, independently of the space within the steam chest between the valves and exhausting through said space, substantially as described.

34. Steam chest G, having valve chambers K, K1 for two cylinders at opposite ends, admission and exhaust ports H, I, and ports connecting the cylinder ports with the admission and exhaust ports H, I, of the valve chest, and connected piston valves L, L1, in said valve chambers, substantially as described.

35. Steam chest G, having for two cylinders at opposite ends, admission port H connecting with one of the cylinders, exhaust port I connecting with the other cylinder, and parts connecting each of said cylinders with the space within the other cylinder and ports connecting each of said cylinders with the space within the valve chest for conducting the exhaust from one cylinder through the valve chest to the other cylinder, substantially as described.

36. Steam chest G, having valve chambers K, K1 at opposite ends' admission and exhaust ports H, I connecting respectively with valve chambers K, K1, ports for connecting said valve chambers with the steam cylinder ports of two steam cylinders and passages i2, k2, connecting the utter exhaust port of chamber K and the outer admission port of chamber K1 with a receiver between the chambers with which the inner ports of the chambers connect, substantially as described.

37. The combination with steam pump cylinders, pistons, plungers, and rocking beam of a direct acting beam pump, of admission and exhaust ports for the steam cylinders arranged to secure the closing of the exhaust port in each cylinder by the piston for cushioning at only one end of each cylinder, substantially as described.

38. The combination with the steam and pump cylinders, pistons, plungers, and rocking beam of a direct acting beam pump of a single port forming the admission and exhaust port for each end of each cylinder, the port at one end only of each cylinder being arranged to be closed by the pistons to cushion the latter, substantially as described.

39. The combination with the vertical steam pump cylinders, piston, plungers, and rocking beam of a vertical direct acting beam pump of a single port forming the admission and exhaust port for each end of each cylinder, the port at the upper end only of each cylinder being arranged to be closed by the pistons to cushion the latter, substantially as described.

40. The combination with the steam and pump cylinders, pistons, plungers and rocking beam of a direct acting beam pump, of a single port at each end of each cylinder forming the admission and exhaust port, said port at one end of each cylinder having a main exhaust connection with the cylinder closed by the piston as it approaches the end of its stroke for cushioning and another connection with the cylinder outside of and not closed by the piston, substantially as described.

41. The combination with two steam cylinders and their pistons and a rocking beam connecting said pistons, of ports for the admission and exhaust of steam, a valve mechanism arranged to permit the free exhaust of steam during the main part of each stroke and arranged to cushion each piston by the exhaust steam at one end only of each cylinder and permit the slow exhaust of the cushioning steam and the admission of steam behind the piston for beginning the next stroke, substantially as described.

42. The combination with two steam cylinders and piston rods and a rocking beam connecting said piston rods, of single admission and exhaust ports k1, l1, for the respective cylinders, said ports k, k1, having a connection with the cylinder closed by the piston as it approaches the end of the stroke, passages seven connecting said ports k, k1, with the cylinder port six beyond the movement of the piston, and adjustable valves for controlling port six, substantially as described.

43. In a steam or similar engine, the combination with the steam chest and steam actuated valve therein of a starting device extending outside the steam chest and stationary during the operation of the engine, substantially as described.

44. In a steam or similar engine, the combination with the steam chest, and having an arm within the steam chest between abutments connected to the valve and arranged to engage one of said abutments for moving the abutments when in its normal position whereby the lever is stationary during the operation of the engine, substantially as described.

45. In a beam engine, the combination with a rod made in two parts, of connecting piece x beam F, link y connected to the connecting piece x, and pivot 14 connecting the end of the beam F to the link y and extending through an opening in the connecting piece x formed to permit the movement of the pivot across the line of the rod, substantially as described.

46. In a beam engine, the combination with a divided rod of piece x, for the beam connection having the internally threaded split hub 10 for receiving the threaded end of one part of the rod, and one or more clamping bolts (12) for clamping the hub upon the rod, substantially as described.

Specification, £2 2s. Drawings on application.

Application No. 2547.—SANDYCROFT FOUNDRY AND ENGINE WORKS COMPANY, LIMITED, of Sandycroft, Hawarden, Flintshire, Wales, Manufacturers (assignee of JOHN THOMAS RICHARDS), "*Improvements in and connected with the Guides for the Stems of Stamp Mills or for like purposes.*"—Dated 5th June, 1899.

Claims:—

1. The improvements in the guides for the stems of stamp mills, or for like purposes, consisting in making the guide blocks in two parts from hard wood bored in direction of the grain, substantially as set forth.

2. The improvements in the guides for the stems of stamp mills, or for like purposes, consisting of making the guide blocks in two parts, from hard wood bored in direction of the grain, or metal, and forming upon such parts projections or recesses adapted to engage with the guide beam, substantially as set forth.

3. The improvement in the guides for the stems of stamp mills, or for like purposes, substantially as hereinbefore described and as illustrated in the accompanying drawings.

Specification 3s. Drawings on application.

Application No. 2552.—ALFRED ERNEST LUTTRELL, of Launceston, in the Colony of Tasmania, "*An improved Rotary Pump.*"—Dated 10th June, 1899.

Claims:—

1. In a rotary pump, a helical disc or circular blade, of the form and construction, substantially as herein fully described and as illustrated in the drawings.

2. In a rotary pump, a sliding stop (such as J), of the nature and for the purpose herein set forth, and as illustrated in the drawings.

3. In a rotary pump, the combination of a helical disc or circular blade revolving in a circular chamber with a sliding stop having a rectangular passage therethrough, substantially as herein fully described, and as illustrated in the drawings.

Specification 5s. 6d. Drawings on application

Application No. 2553.—THE DOE PORTABLE ELECTRIC LIGHT AND POWER SYNDICATE, LIMITED, of Broad Street House, New Broad Street, London, England (Assignee of WALTER SCOTT DOE).—"*Improvements in Galvanic Batteries.*"—Dated 10th June, 1899.

Claims:—

1. In a galvanic batttery, the combination with a tubular perforated carbon cathode mounted upon a perforated tubular holder, having a conductive wire of platinum stretched across and extending up within it; of an anode of zinc resting merely by its own weight on the said wire and making rubbing contact with the said wire through its length, substantially as specified.

2. In a galvanic battery, the combination with a tubular perforated carbon cathode mounted upon a perforated tubular holder, having a conductive wire of platinum stretched across and extending up within it; of an anode of zinc resting merely by its own weight on the said wire and making rubbing contact with the said wire through its length, the anode being in the form of a complete tube, open at the ends, and exposed to the action of the electrolyte, both on its inner and outer surfaces, as specified.

3. In a galvanic battery, the combination with a perforated tubular holder of insulating material suspended from the top cover of the casing of a perforated tubular cylinder of carbon supported exteriorly on said holder and of a zinc anode resting loosely on and in contact with a platinum wire stretched across the said holder and extending up the outside thereof, substantially as specified.

4. The combination with the herein described battery of a vent plug, constructed as described, so as to be adapted to permit the escape of gases without allowing the electrolyte to overflow.

Specification, 7s. 6d. Drawings on application.

Application No. 2554.—THEODOR TEVLED, Overseer of Mines, of Kisslovodsk, in the Province of Terek, Northern Caucasus, in the Empire of Russia, "*Improvements in Explosives.*"—Dated 10th June, 1899.

Claims:—

1. An explosive, consisting of a powder and liquid, the powder being a mixture of potassium chlorate with manganese peroxide or ferric oxide, or both, and the liquid being pertroleum or oil of turpentine, or a mixture of these with or without the addition of almond or other aromatic oil, substantially as described.

2. Enclosing the powder in a porous envelope and impregnating the same with the liquid shortly before use, substantially as described.

Specification, 5s. 6d.

Application No. 2555.—HENRY AYLMER, of the Town of Richmond, in the County of Richmond, in the Province of Quebec, Canada, gentleman, and JAMES HENRY PLUMMER, of 40 Wellesley Street, in the City of Toronto, in the County of York, in the Province of Ontario, Canada, gentleman, "*Improvements in Drills.*"—Dated 10th June, 1899.

Claims:—

1. In a drill, in combination, the stock having a receiving socket in the end thereof, a bit or point having the inner end adapted to fit into the receiving socket, and an opening through the stock into the socket, and means for holding the point in position as and for the purpose specified.

2. In a drill, the combination with the body proper provided with a groove extending across the end and side notches or holes extending into the groove in the centre of the sides of the drill point having a correspondingly formed base to the groove in the body, and a central hole, and a pin extending through the notches and central hole in the joint as and for the purpose specified.

3. In a drill, in combination, the stock having a receiving socket therein, with an inclined or tapering portion a bit fitted to said socket having a corresponding tapering portion, and an opening leading through the stock to the inclined or tapering portion of the socket, substantially as described.

Specifications, 5s. Drawings on application.

Application No. 2556.—CHARLES WILLIAM CURTIS, of 3 Gracechurch Street, London, Explosive Manufacturer, and LEYSHON DAVIES, Joint Manager of Kames Gunpowder Mills, Kyles of Bute, Argyleshire, Scotland, "*An improved Explosive.*"—Dated 10th June, 1899.

Claim:—

1. An improved explosive compounded as hereinbefore described.

Specification, 1s. 6d.

Application No. 2558.—JOHN PENDER, of Tinning Street, Brunswick, Victoria, Horseshoe Nail Manufacturer, "*Improvements in the Motor and in the Driving and Controlling of Mechanism of Power propelled Vehicles, and in the Construction of such Vehicles.*"—Dated 10th June, 1899.

Claims:—

1. In the motor of a power-propelled vehicle in combination, a cylinder or explosion chamber A, provided with inlet and exhaust passages, and with an enlarged pump chamber A1 at each end, two trunk pistons B-B1, rods C, connecting pistons, with crank shafts D and the ignition gear Y, Y1, and Y2, arranged between the pistons, substantially as described and shown in Figures 4 and 5.

2. In the motor of a power-propelled vehicle, a cylinder as A, having inlet passages and furnished with electric ignition gear, located between two pistons as B, which work to and from each other, combined with a valve chest as G, furnished with valves G2, G3, and G4, for admitting carburetted vapour and air when operated by cams such as F1 and F2, substantially as described and shown in Figures 2, 2a, 4, and 5.

3. In the matter of a power-propelled vehicle, a cylinder and pump chamber as A-A1, provided with a passage in pump chamber which acts alternatively as an induction and eduction air-way, and a trunk piston as B-B1, combined with a valve chest as A3, furnished with non-return valve a and inlet valve a1, said chest A3 being connected by pipes with carburetter K, and a receiver A5, substantially as described and shewn.

4. In the motor of a power-propelled vehicle, a cylinder as A and pump chamber as A1, having a communicating passage way as b2 between them, and the cylinder provided with an inlet passage for the charge of explosive mixture, and exhaust passages as b1, combined with the valves G4, a2, and a3, substantially as described and shown in Figure 5a of the drawings.

5. In the motor of a power-propelled vehicle, a cylinder as A, provided with inlet and exhaust ports, and having a pump chamber as A1 at each end, and in connection with cylinder by passages as b2 combined with the trunk pistons as B-B1, rods C connected with crank shafts, valves G4, a2, and a3, and the ignition gear, substantially as described and shown in Figure 5a of the drawings.

6. In power-propelled vehicles, a motor composed of triple cylinders A, having enlarged pump chambers A1 at each end, and two trunk pistons as B-B1 working in said cylinders, rods C connecting the pistons at both ends with a three-throw crank shaft, having crank discs D2 at their ends, coupled by rods D1, one of which latter imparts motion by an Y9 to crank Y8, operating the ignition gear Y, Y1, Y2, Y5, Y6, Y7, combined with the valve chest G, having valves G2, G3, operated by cams F1 and F2 on shaft F, worked by arms F3 and F4 from coupling rod D1, and valve chests A3, provided with valves a, a1, substantially as described and shewn.

7. In power-propelled vehicles, a carburetter for producing the explosive vapour for the motor, consisting of oil plug K5, fed by pipe K4, and provided with nozzle K6 and wirl vannes K2, combined with pipes A4 and A14, and receiver A5 and reservoir A7 having a screen A9 between them, substantially as described and shewn.

8. In a power-propelled vehicle, a governor valve for the purpose specified, consisting of an outer casing H2, having a tubular valve casing H1 within it to receive valve H, said casing H1 and valve H being provided with suitable ports, and the space between casings H1 and H2 being driven into three compartments h6, h7, and h8, the compartment h7 being connected by pipe A8 with receiver A5, and with scavenger air-pipe z1, the compartment h8 connected by pipe G1 with the valve box G, and the compartment h6, being in direct communication with the vaporised gas in reservoir A7, substantially as described and shewn.

9. In a power propelled vehicle a governor valve H as described in the preceding claim, having ports h, h1, and h2 in it to govern the supply of air and gas entering through ports h3, h4, and h5 of the valve casing H1, said valve H being adapted to slide vertically when operated by the governor and to be rotated by hand regulation, substantially as described and shewn.

10. In power propelled vehicles in combination the oil plug K5 in casing K, valve H arranged in casing H2 on the reservoir A7, and the governor U on cam shaft F, and connected with oil plug K5 by parts marked U1 to U9, substantially as described and shewn.

11. In power propelled vehicles the combination of the triple cylinder engine composed mainly of cylinders A-A1, pistons B-B1, ignition gear Y-Y1 and Y2, connecting rods C, three throw cranks D, discs D2, and coupling rods D1, valve chests G and A3, and their connecting pipes G1, Z, Z1, Z2, and z, z1 with the carburettor oil valve K, carburettor reservoirs A5 and A7 and pipes A4 and A14 and the governor valve H, all substantially as described and shewn.

12. In a power propelled vehicle the combination of a three-cylinder motor, with enlarged pump or compressing parts, having pistons, cranks, valves, ignition and coupling gear, all mounted on a separate frame, having a ball joint and flexible bearings and pneumatic cushion supports, and connected to the main driving axle by a variable speed transmission gear substantially as described and shewn.

13. In power propelled vehicles a reversible axle-driving clutch, composed of three main parts, viz.:—A body as J having an internal gripping surface as j7, said body being adapted to rotate a shaft as L, a body as j2 having two rings of reversely arranged recesses as j3 in it, said body being adapted to have a reciprocating moting imparted to it, and two sets of grooved gripping and releasing rollers as j4 retained in said recesses j3 by straps as j6 adapted to grip the internal face j7 of body J by either set of grip rollers in order to carry said body in the direction desired, substantially as described and shewn.

14. In power propelled vehicles a reversible axle-driving clutch J, consisting of a drum provided with deep bosses adapted to slide on a feather j1 on main axle L, and the said bosses having arranged loosely upon them two annuluses as j2 carrying in recesses j3 in their periphery grooved gripping and releasing rollers j4 held in position by straps j6, one set of said rollers being designed to grip in one direction, whilst the other set grip in the reverse direction, and said drum J being adapted to slide on axle in order to place either set of gripping rollers upon the internal working face j7 of drum, the annuluses j2 having annular grooves j5 in them to fit upon rim of drum, and said annuluses being attached by arms j17 to the rods E8 of the variable stroke driving gear substantially as described and shewn.

15. In a power propelled vehicle the combination of a motor mounted on a separate frame connected at two of its crank pins to the driving axle by a speed-varying transmission gear with clutch mechanism mounted on the driving gear to operate it in either direction substantially as described and shewn.

16. In power propelled vehicles a reversible and independent wheel clutch, composed of a drum as j6 adapted to slide on a feather on axle, and having arranged in its surface, within a metallic wheel hub provided with internal gripping surfaces j7 four rings of grooved gripping and releasing rollers j4 located in reversely arranged recesses, and held therein by straps j6, substantially as described and shewn.

17. In power propelled vehicles in combination the reversible axle-driving clutches J, the reversible and independent wheel clutches J6 arranged in hubs of wheels M, main drive axle L, straps J1, and J7 connecting sliding parts of clutches to forked piece J2 shaft J3, and ever J4 for operating the clutches all substantially as described and shewn.

18. In a power propelled vehicle the combination of a motor, having two of its crank pins connected by a speed varying gear to the reversible driving clutches on the main axle, said driving clutches being linked to the wheel clutches so that all can be moved longitudinally by the one lever to obtain a forward or backward motion of the vehicle, at the same time leaving one of the wheels free on axle in order to take curves, substantially as described and shewn.

19. In power propelled vehicles, in combination, the operating lever I, centred on pins E6, and the motor starting gear consisting of link I5, clutch arm I6, provided with friction rollers which grip the internal surface d2 of discs D2, such gear being adapted to be operated when trip levers I1 and I2 release the gears under their control, substantially as described and shewn.

20. In power propelled vehicles, in combination, the operating lever I centred on pins E6 and the speed regulating mechanism, consisting of trip lever I2, rod i2 which engages a gap in quadrant bar I3, rod E connecting lever I with compass lever E1, and jointed pitman E disc D2, cross head E7, guides E9 rods E8, friction clutches J, which rotate driving axle L and releasing trip lever I1, substantially as described and shewn.

21. In power propelled vehicles the combination of lever I with the motor starting and speed regulating mechanism, as claimed in the two preceding claims, and with the brake gear Q to Q4, and the hubs of driving wheels M, all substantially as described and shewn.

22. In a power propelled vehicle the combination of a motor, having its crank shaft connected to the main driving axle by a speed varying part of the mechanism, can be disconnected and left at a standing position, the lever being then free to be used for operating a friction clutch for revolving the crank shaft for the purpose of starting the motor, substantially as described and shewn.

23. In power propelled vehicles the construction of the wheel spokes in such a manner that they are compressible radially, the spokes being secured to a jointed or hinged rim, and each spoke telescoping a boss on wheel hub, and either compressed outward by pneumatic cushions or bags as O2, connected together by pipes O and O1 (Fig. 9), or by being seated on a volute spring as M3 (Fig. 9 and 10b), substantially as described and shewn.

24. In a power propelled vehicle the combination of a motor mounted on a frame, the motor being connected to the main driving axle by speed varying mechanism linked to clutches in wheels having spokes which telescope on bosses on hub, and kept in extension by pneumatic volute spiral or coil springs, substantially as described and shewn.

25. In power propelled vehicles the front wheel fork P attached by lazy tongs levers as P2 to the axle, and seated thereon upon double volute springs as P1 arranged about a stem as P3 which passes into the hollow fork stem, or seated on a pneumatic cushion or bag as P4 or P10, substantially as described and and shewn.

26. In power propelled vehicles the front wheels steering gear, consisting of short axles, having rearward arms p attached to them, said arms being connected together by rod p1, and said gear being adapted to be operated by hand lever P7 on stem P8, substantially as described and shewn.

27. In power propelled vehicles supporting the fore-end of the body R of vehicle about and upon the fork stems P8 upon pneumatic cushions R2 located between a flange P9 on body and flange P10 on fork stem, substantially as described and shewn.

28. In a power propelled vehicle the combination of a metallic body frame having spring supports which are mounted on the roller bearings of driving axle at rear, and also pneumatic cushion inserted in a recess and supported on a flange of the steering wheel forks at forward and lazy tongs links and spring connection between the front wheel axle and ends of fork stem, substantially as described and shewn.

29. In power propelled vehicles supporting rear-end of body frame on pneumatic springs W6 and the fore-end of motor frame by a ball seating P11 carried by a pneumatic cushion P12 arranged between suitable supports, substantially as described and shewn.

30. In a power propelled vehicle the combination of a three-cylinder motor, having enlarged pump chamber pistons, ignition and valve gear, three throw cranks, and connecting and coupling rods all mounted on a separate frame, which is supported at one end on main driving axle, and at other end carried in a ball joint supported on a pneumatic cushion arranged in the body frame, substantially as described and shewn.

31. In power propelled vehicles constructing the framing R for the body of sheet metal, having edges rounded or beaded as at s2 with the marginal edge of the beading or secured down by eyelets as s3 and forming flanges as S4 for the floor or cross boards of body, substantially as described and shewn.

32. In a power propelled vehicle the combination of a metallic body frame mounted on pneumatic spring supports with sockets at one end to receive the fork stems of steering wheels, steering lever stem, and a ball socket for supporting the frame on which the motor and its varying speed gear is mounted, substantially as described and shewn.

33. In power propelled vehicles arranged each seat T upon a stem T2 carried by guides in the transverse body stays and supporting each stem vertically upon a pneumatic cushion as T1 and also when desired by spring T3, substantially as described and shewn.

34. In a power propelled vehicle the combination in a motor having three cylinders, that is, three explosive chambers with enlarged pump chambers at each end, six pistons, one at each end being common to the explosion and pump chambers connecting rods, with oil grooves cut in them, splash tanks at each end containing oil into which the crank shafts dip at every revolution thereby splashing oil in every direction and so lubricating the working parts, substantially as described.

35. In a power propelled vehicle the combination in a motor having three cylinders with enlarged pump chambers, connecting rods with oil grooves, crank shafts, splash tank at each end for holding oil to lubricate the working parts, coupling rods operating the igniting gear, revolving cam shaft, cams for operating valves, valves for admitting air to scavenge the cylinder, valves for admitting gas for the explosions and the exhaust ports all arranged and assembled, substantially as described and shewn.

36. In power propelled vehicles, in combination, a triple cylinder motor, each cylinder comprising an explosion chamber and air compressors, and electric ignition gear located between the pistons and operated from the coupling rod, valves and valve gear controlling the admission rod, valves and valve gear controlling the admission of carburetted vapour and air, a carburettor comprising a spraying nozzle, gas receiver and reservoir, a governor controlling the admission valves, a frame carrying the motor seated on flexible and pneumatic cushion bearings and supports, a variable speed transmission gear and starting gear, reversible friction driving clutches located on main axle, friction clutches arranged in the hubs of main wheels, brake straps operating on the hubs of said wheels, a front wheel steering gear and front wheels connected therewith and a body frame formed of sheet metal mounted on pneumatic or spring cushions, a lever for controlling the motor transmission gear, starting and brakes and the pliable or pneumatic wheels, all substantially as herein described.

Specification, £2 2s. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
30th June, 1899.

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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian *Government Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

For particulars of claims, vide Gazette No. 26, 30th June, 1899.

Application No. 2526.—EDWARD JORDAN, Plumber and Metal Worker, and GEORGE THOMAS ROGERS, Plumber, both of 322 Elizabeth Street, Sydney, New South Wales, "*A Rotary Moulding machine for shaping Metal Sheets.*"—Dated 16th May, 1899.

Specification, 8s. 6d. Drawings on application.

Application No. 2535.—CHARLES EDWARD POINTON, and JOHN EDWARD POINTON, both of Wrekin Road, Wellington, in the County of Salop, England, Engineers, "*Improvements in Machines for dividing Dough and like Plastic Material.*"—Dated 23rd May, 1899.

Specification, 15s. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
23rd June, 1899.

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.

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For particulars of claims, vide Gazette No. 25, 23rd June, 1899.

Application No. 2489.—JAMES WATSON, Engine-driver, and FRANK LAWRENCE POLLARD, Engineer, both residing on the property of the Crown Deep Gold Mining Co., Ltd., near Johannesburg, South African Republic, "*Improvements in Compound Engines, applicable to Rock-drilling Machines, Locomotives, Hauling, or Mill Engines, Pumps and the like.*"—Dated 2nd May, 1899.

Specification, 11s. 6d. Drawings on application.

Application No. 2533.—THE AUTOMATIC TELEPHONE COMPANY, LIMITED, of 13 and 14 Abchurch Lane, London, England (assignee of GUSTAVE SELIGMANN LUI), "*An improved system of Automatic Telephone Exchange.*"—Dated 22nd May, 1899.

Specification, £7 7s. Drawings on application.

Application No. 2538.—HENRY CLAY FLETCHER, Manufacturer, and SIDNEY HERBERT CORNISH, Stock and Share broker, both of Melbourne, Victoria, "*Improved Spring Wire Bedstead Bottom, Mattress, or Seat.*"—Dated 26th May, 1899.

Specification, 7s. 6d. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
16th June, 1899.

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.

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For particulars of claims, vide Gazette No. 24, 16th June, 1899.

Application No. 2197.—DAVID NABLE, of Parkes, in the Colony of New South Wales, Tailor, "*Improvements in Coat Adjustments.*"—Dated 6th September, 1898.

Specification, 2s. 6d. Drawings on application.

Application No. 2522.—ALEXANDER IMSCHENETZKY, of No. 2 Tikhvinskaya, St. Petersburg, Russia, Lieutenant-Colonel, "*Improved manufacture of Refractory Material suitable for Building and other purposes.*"—Dated 16th May, 1899.

Specification, 14s. Drawings on application.

Application No. 2523.—WILLIAM WALTER BARTON and ARTHUR THOMAS BARTON, both of 103 New Oxford Street, London, England, Horse-clipping and Sheep-shearing Machine Manufacturers, "*Improvements relating to Horse-clippers, Sheep-shears, and other Apparatus where close contact of the parts is required during movement.*"—Dated 16th May, 1899.

Specification, 4s. Drawings on application.

Application No. 2532.—FRASER & CHALMERS, LIMITED, of 43 Threadneedle Street, London, England, Engineers and Manufacturers (assignee of Ross EGERTON BROWNE, of Nevada Block, San Francisco, State of California, United States of America), "*Improved means for Raising Water from Mine Shafts or other places.*"—Dated 22nd May, 1899.

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

Application No. 2534.—DANIEL WARNER AYLWORTH, of South Haven, Michigan, United States of America, Manufacturer (assignee of NOBLE BURTON LESLIE, of South Haven, Michigan, aforesaid, Engineer) "*An improved Fence Clamp.*"—Dated 23rd May, 1899.

Specification, 2s. 6d. Drawings on application.

Application No. 2536.—BICKFORD AND HUFFMAN COMPANY, of Macedon, State of New York, United States of America, Manufacturers (assignee of ERNEST BASEMAN, of Macedon, State of New York, aforesaid), "*Improvements in Agricultural Implements.*"—Dated 23rd May, 1899.

Specification, £1 2s. 6d. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
9th June, 1899.

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.

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For particulars of claims, see Gazette No. 23, 9th June, 1899.

Application No. 2186.—FRANCIS ELLERSHAUSEN, of 24 Green Street, Blackfriars, London, England, gentleman, "*Improvements in the treatment of Refractory Sulphide Ores.*"—Dated 27th August, 1898.

Specification, 2s.

Application No. 2490.—HENRY ELIAS HOWLAND, of 35 Wall Street, New York, United States of America (assignee of ORLANDO M. THOWLESS), "*Burners for Incandescent Lamps.*"—Dated 2nd May, 1899.

Specification, 8s. 6d. Drawings on application.

Application No. 2497.—ARTHUR KITSON, Engineer, of 213 West Upsal Street, Germantown, Philadelphia, State of Pennsylvania, United States of America, "*Vapor-burning apparatus.*"—Dated 2nd May, 1899.

Specification, £1 10s. Drawings on application.

Application No. 2499.—JULIUS ADOLPHUS AMSCHEL, of 113 William Street, Melbourne, in the Colony of Victoria, Manager of the Australian Metal Company, Limited (*Lewis G. Rowand*), "*An improved process of and apparatus for the Magnetic Separation of Ores.*"—Dated 2nd May, 1899.

Specification, 12s. Drawings on application.

Application No. 2500.—HARRY PHILLIPS DAVIS, of 327 Neville Street, Pittsburg, Pennsylvania, U.S.A., Electrical Engineer, "*Improvements in Electric Brakes.*"—Dated 2nd May, 1899.

Specification, 8s. Drawings on application.

Application No. 2506.—FREDERIC FOUCHE, of 38 Rue des Ecluses, St. Martin, Paris, France, Engineer, "*Improvements in apparatus for effecting exchange of temperature between fluids.*"—Dated 9th May, 1899.

Specifications, 7s. Drawings on application.

Application No. 2507.—THE GODFREY CALCINER, LIMITED, of 55 Suffolk House, 5 Laurence Pountney Hill, London, England (Assignee of JOSEPH GODFREY and HENRY JOHN HAYES), "*Calcining and furnaces therefor.*"—Dated 9th May, 1899.

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

Application No. 2512.—HARRY PHILLIPS DAVIS, of 327 Neville Street, Pittsburgh, Pennsylvania, U.S.A., Electrical Engineer, "*Improvements in or relating to Apparatus for Controlling and Governing Electric Motors.*"—Dated 12th May, 1899.

Specification, 7s. 6d. Drawings on application.

Application No. 2513.—MAX JASPER, of Jaspersweg 1–10, Bernau, near Berlin, Germany, "*Improved Manufacture of Incandescence Bodies for Illuminating Purposes.*"—Dated 12th May, 1899.

Specification, 2s. 6d.

Application No. 2514.—WILLIAM STAMM, of 25 College Hill, London, England, Iron and Steel Agent (Assignee of HENRY LIVINGSTONE SULMAN), "*Improvements in Ball-grinding Mills.*"—Dated 12th May, 1899.

Specification, 4s. Drawings on application.

Application No. 2515.—FREDERICK AUGUSTUS EDWARDES, of 196 Gray's Inn Road, London, England, Mining Engineer, "*Improvements in apparatus for use in the treatment of Metallic Ores.*"—Dated 12th May, 1899.

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

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
2nd June, 1899.

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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian *Government Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

For particulars of claims, see Gazette No. 22, 2nd June, 1899.

Application No. 2183.—FREDERICK BAKER, of "Maylands," Kambrook Road, Caulfield, in the Colony of Victoria, Builder, "*An improved Spike and Holdfast for securing Rails, Decking, Platforms, and the like.*"—Dated 23rd August, 1898.

Specification, 12s. Drawings on application.

Application No. 2487.—LEWIS ERNEST SAUNDERS, of 70 William Street, Perth, Western Australia, Engineer, "*Improved Apparatus for Heating Purposes, to be used with Oil Vaporising Stoves.*"—Dated 1st May, 1899.

Specification, 2s. 6d. Drawings on application.

Application No. 2491.—RICHARD EVENS, of 105 William Street, Sydney, New South Wales, Gentleman, "*A Specific for the Cure of Fluke, Worms, and other Diseases in Sheep and other Animals, and the prevention of same.*"—Dated 2nd May, 1899.

Specification, 2s. 6d.

Application No. 2498.—DEERING HARVESTER COMPANY, of Chicago, Illinois, U.S.A. (Assignee of JOHN FLETCHER STEWARD and CHARLES ALFRED ANDERSON RAND), "*Improvements in Self-binding Harvesters.*"—Dated 2nd May, 1899.

Specification, 17s. Drawings on application.

Application No. 2501.—GEORGE WILLIAM METTAM, of Broad Arrow, Western Australia, Plumber, "*A new or improved Pneumatic Hand-shower.*"—Dated 6th May, 1899.

Specification, 2s. 6d. Drawings on application.

Application No. 2505.—JOHN JAMES DRAGE, Manufacturer, of First Avenue, East Adelaide, and EDWARD THOMAS BRIDGLAND, Hardware Salesman, of Hill Street, North Adelaide, both in South Australia, "*Improvements in Refrigerators.*"—Dated 9th May, 1899.

Specification, 9s. Drawings on application.

Application No. 2508.—ELIAS BERNARD KOOPMAN, Manager, of 18 and 19 Great Windmill Street, Piccadilly Circus, London, W., "*Improvements in apparatus for exhibiting a succession of Pictures, giving them an appearance of motion, and coin-freed mechanism therefor.*"—Dated 9th May, 1899.

Specification, 14s. Drawings on application.

Application No. 2509.—AKTIESELSKABET BURMEISTER, & WAINS MASKIN & SKIBSBYGGERI, of Copenhagen, in the Kingdom of Denmark (assignee of OSCAR ANDERSON), "*Improvements in Centrifugal Cream Separators.*"—Dated 9th May, 1899.

Specification, 13s. 6d. Drawings on application.

Application No. 2510.—ALAN PRICE, of Sydney, New South Wales, Civil Engineer, "*Improvements in t'e 'Hotchkiss' Boiler-Cleaners.*"—Dated 9th May, 1899.

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

Application No. 2520.—THOMAS CHRISTOPHER DONNELLY, of 31 Moray Place, Dunedin, New Zealand, Mine Manager, "*Improvements in Screens.*"—Dated 12th May, 1899.

Specification, 2s. 6d. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
26th May, 1899.

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.

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For particulars of claims, see Gazette No. 21, 26th May, 1899.

Application No. 2373.—RICHARD SPARROW, of Barrack Street, Perth, Western Australia, Licensed Patent Agent (*Frederic Fouché*), "*Improved Aero-condensing Apparatus.*"—Dated 21st January, 1899.

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

Application No. 2407.—EDWARD MARCH, of 59 Burton Crescent, London, England, Engineer, "*Improvements in Machines for Registering and issuing Checks at public Pay Windows.*"—Dated 28th February, 1899.

Specification, 9s. 6d. Drawings on application.

Application No. 2426.—FRED. WALSH, Patent Agent, Manager of Edward Waters' International Patent and Trade Marks Office, No. 23 Elizabeth Street, Sydney, in the Colony of New South Wales, "*Improvements in Ore Concentrators having Shaking Tables.*"—Dated 14th March, 1899.

Specifications, 8s. 6d. Drawings on application.

Application No. 2427.—JOHN ROGER, of Denver, Colorado, United States of America, "*Improvements in Ore Crushing Machinery.*"—Dated 14th March, 1899.

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

Application No. 2468.—FREDERICK WILLIAM MARTINO, Manufacturer, of 107 Montgomery Road, Sharrow, Sheffield, Yorkshire, England, and FREDERIC STUBBS, Engineer, of "Edgegate," Osborne Road, Sheffield, aforesaid, "*Improvements in or relating to the Precipitation of Gold from Chloride or Bromide Solutions containing it.*"—Dated 15th April, 1899.

Specification, 2s.

Application No. 2469.—ELISHA SEYMOUR, of Chicago, in the County of Cook, in the State of Illinois, United States of America, Manufacturer, "*Rotary Engine.*"—Dated 15th April, 1899.

Specification, 10s. Drawings on application.

Application No. 2473.—CHARLES HARPER, of Woodbridge, near Guildford, Western Australia, Gentleman, "*A Sheaf Header appliance for Threshers.*"—Dated 19th April, 1899.

Specification, 6s. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
19th May, 1899.

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 any of such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the first appearance of this advertisement in the Western Australian *Government Gazette.* A fee of Ten shillings (10s.) is payable with such notice.

For particulars of claims, see Gazette No. 20, 19th May, 1899.

Application No. 2401.—ANDREW JANECZEK, of Kalgoorlie, in the Colony of Western Australia, Speculator, "*Improved Stump and Tree Puller.*"—Dated 23rd February, 1899.

Specification, 2s. Drawings on application.

Application No. 2452.—CARL GEISSLER, of Stassfurt, in the Kingdom of Prussia, Royal Mill Manager, "*An Improved Apparatus for taking samples of Pulverised and Granulated Materials.*"—Dated 30th March, 1899.

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

Application No. 2453.—THE IMPERIAL S.C. ACETYLENE GAS COMPANY, LIMITED, of 33 King Street, Manchester, in the County of Lancaster, in the Kingdom of England, Gas and Generator Manufacturers (assignee of Evan Evans), "*An improved system of Storage, Generation, Purification, and use of Acetylene for illuminating purposes, and in apparatus therefor.*"—Dated 30th March, 1899.

Specification, £1. Drawings on application.

Application No. 2471.—WILLIAM H. BAKER, of Devil's Lake, in the County of Ramsey, State of North Dakota, United States of America, Chemist, "*Improvements in processes and apparatus for Separating Precious Metals from their Ores.*"—Dated 18th April, 1899.

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

Application No. 2472.—THE WIRELESS TELEGRAPH AND SIGNAL COMPANY, LIMITED, of 28 Mark Lane, in the City of London, England, Electricians (assignee of GUGLIELMO MARCONI, of London, aforesaid), "*Apparatus employed in Wireless Telegraphy.*"—Dated 18th April, 1899.

Specification, 5s. Drawings on application.

Application No. 2475.—HARRY PHILLIPS DAVIS, of 327 Neville Street, Pittsburg, in the County of Allegheny, State of Pennsylvania, United States of America, Electrical Engineer, and FRANK CONRAD, of 709 Whitney Avenue, Wil-

kinsburg, in the County and State aforesaid, Electrical Engineer, "*Improvements in Electric Motors and Meters adapted for use with alternating currents.*"—Dated 21st April, 1899.

Specification, 8s. Drawings on application.

Application No. 2481. — BENJAMIN GARNER LAMME, of 230 Stratford Avenue, Pittsburg, in the County of Allegheny, State of Pennsylvania, United States of America, Electrical Engineer, "*Improvements in and relating to the Utilisation and Conversion of Electric Currents.*"—Dated 24th April, 1899.

Specification, 7s. 6d. Drawings on application.

Application No. 2483.—JOHN WATERS SUTHERLAND and WALTER TECHOW, both of Lake View Consols, Boulder, Western Australia, Metallurgical Chemists, "*Improvements in the precipitation of precious Metals from Cyanide Solutions by means of Zinc Shavings.*"—Dated 25th April, 1899.

Specification, 3s. 6d.

Application No. 2486.—GEORGE WESTINGHOUSE, of Westinghouse Building, Pittsburg, in the County of Allegheny, State of Pennsylvania, United States of America, Engineer, and EDWIN EMERSON NOLAN, of 517 Center Street, Wilkinsburg, in the County and State aforesaid, "*Improvements in securing Coreplates in Dynamo-Electric Machinery.*"—Dated 29th April, 1899.

Specification, 4s. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Patent Office, Perth,
12th May, 1899.

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.

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For particulars of claims, see Gazette No. 19, 12th May, 1899.

Application No. 2391.—JAMES BAIRD, of Devonport, near Auckland, New Zealand, Engineer, "*An improved Rotary Engine.*"—Dated 14th February, 1899.

Specification, 11s. Drawings on application.

Application No. 2437.—HOLMES SAMUEL CHIPMAN, of No. 54 Margaret Street, Sydney, New South Wales, Merchant, "*Improvements in certain descriptions of Oil Lamp Burners.*"—Dated 21st March, 1899.

Specification, 8s. Drawings on application.

Application No. 2450.—NIELS BENDIXEN, Superintendent of a Laboratory, Copenhagen, Denmark, "*Improvements in the method of and an apparatus for sterilizing Milk.*"—Dated 28th March, 1899.

Specification, 6s. Drawings on application.

Application No. 2466.—ISIDOR VAN STAVEREN, of "Marathon," St. George's Terrace, Perth, Western Australia, "*An Improved Fastener for Letters and Packages.*"—Dated 13th April, 1899.

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

Application No. 2476. — SOLOMON ROBERT DRESSER, of Bradford, Pennsylvania, United States of America, Inventor, "*Improvements in Insulated Pipe Couplings.*"—Dated 22nd April, 1899.

Specification, 12s. 6d. Drawings on application.

Application No. 2482.—THE MARSDEN COMPANY, of 850 Drexel Building, corner of Fifth and Chestnut Streets, Philadelphia, Pennsylvania, U.S.A. (Assignee of MARK WORSNOP MARSDEN), "*Material for Packings and other Purposes.*"—Dated 25th April, 1899.

Specification, 5s. 6d.

Application No. 2485.—GEORGE JOHN HOSKINS and CHARLES HENRY HOSKINS, of Sydney, New South Wales, Engineers, "*An improved mode of and Apparatus for making the Moulds and Cores that are used in Pipe Founding.*"—Dated 28th April, 1899.

Specification, 8s. 6d. Drawings on application.

MALCOLM A. C. FRASER,
Registrar of Patents.

Applications for Patents.

JUNE 10TH—JULY 1ST.

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

No.	Date.	Name.	Address.	Title.
2563	13th June, 1899	Short, H. L.	New Malden, England	Improvements in methods of and apparatus for increasing the volume of sounds from telephonic or phonographic instruments, and transmitting such sounds to distances.
*2564	13th June, 1899	Dick, J. (*Hutton, W. R.*) ...	Glasgow, Scotland	Improved process for the treatment of sulphidic ores or compounds.
2565	14th June, 1899	Keane, T.	Cottesloe Beach, W.A.	An improved mine ventilator.
2566	14th June, 1899	Armstrong, F. G.	Geraldton, W.A. ...	A combined clod-crusher, harrower, and sower.
*2567	17th June, 1899	Perkins, T. S.	Idlewood, U.S.A.	Improved starting machine for electric motors.
*2568	17th June, 1899	Lamme, B. G.	Pittsburgh, U.S.A.	Improvements in rotary transformers or synchronous motors.
2569	20th June, 1899	Waters, E., jun. (*Smith, I.*) ...	Melbourne, Vic. ...	An improved apparatus for use as a liquid meter, rotary motor, pump, and similar purposes.
2570	20th June, 1899	Patching, T. H.	Strathfield, N.S.W.	An automatic coupling for use on railway carriages and the like.
*2571	20th June, 1899	Ballantine, T.	South Melbourne, Vic.	Child's carriage or perambulator.
*2572	20th June, 1899	Brown, J., and Brown, A. ...	Manchester, England	Improvements in and relating to saucepans and other receptacles for heating and boiling milk and other liquids.
*2573	20th June, 1899	Dabb, W.	Croydon, Vic. ...	An improved mop for household and other purposes having a rotatable head.
2574	20th June, 1899	Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., and Jörg, A.	Vienna, Austria, and Budapest, Hungary	Electrical heating appliances formed of artificial stone.
2575	20th June, 1899	Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., and Jörg, A.	Vienna, Austria, and Budapest, Hungary	Electrical resistances of artificial stone composition.
*2576	21st June, 1899	Rowe, N.	Wilkinsburg, U.S.A.	Improvements relating to the regulation of electro-motive force.
2577	21st June, 1899	Smith, C. H.; and Freeman, G. J. W.	Androssan, S.A. ...	Improvements in implements for ploughing or cultivating and sowing seed, and fertilisers.
*2578	23rd June, 1899	Polain, C. J.	Perth, W.A. ...	A reciprocating gravity wire transit apparatus in combination with a rigid curve, applied as a divertor, usable as a transit of cash, parcels, and heavy material.
*2579	26th June, 1899	Davis, H. P.; Wright, G., and Wurts, A. J.	Pittsburgh and Wilkingsburg, U.S.A.	Improvements in controllers for electric motors.
*2580	26th June, 1899	Parry, H. E.	Perth, W.A. ...	Self-operated spile for use in the withdrawal of beer or other liquid from its vessel.
*2581	27th June, 1899	Sparrow, R. (*Ward, T.*) ...	Perth, W.A. ...	Improvements in the treatment of metalliferous materials.
*2582	27th June, 1899	Marsh, R. F.	East Maitland, N.S.W.	An improved rotary engine.
*2583	27th June, 1899	Heslop, H. P.	Wilcannia, N.S.W.	An improved acetylene or other hydrocarbon gas generator.
2584	27th June, 1899	Smith, A. J., and Smith, A. G.	Aberdeen, Scotland	Improvements in acetylene gas generators.
2585	29th June, 1899	Cockerell, R.	Dunedin, N.Z. ...	Improved lever lift battery.
2586	29th June, 1899	Sébillot, A. M. G.	Paris, France ...	Process for dressing zinc ores, and apparatus therefor.
2587	30th June, 1899	Norling, E.	Perth, W.A. ...	An elastic material for joints of wood blocking.

Provisional Specifications.

Patent Office, Perth,
7th July, 1899.

APPLICATIONS for Letters Patent, accompanied by Provisional Specifications, which have been accepted from the 10th June to the 1st July, 1899:—

Application No. 2525.—DAVID CURLE SMITH, Electrical Engineer, and BRUNET KAY, Mining Engineer, both of Kalgoorlie, Western Australia, "*An Aerial Ore Cooler.*"—Dated 16th May, 1899.

Application No. 2527.—EDWARD LUSCOMBE EVENS, of Clifton Street, Malvern, South Australia, Solicitor, "*A game of Skill, to be called 'Anulose,' and apparatus connected therewith.*"—Dated 16th May, 1899.

Application No. 2528.—WILLIAM JAMES BECK, of 3 [illegible]hnston Street, Fitzroy, Victoria, Farmer, "*[illegible] improved Nail for unequally worn horse [illegible]oes.*"—Dated 18th May, 1899.

Application No. 2529.—JOSEPH SABELBERG, of Bayley Street, Coolgardie, Western Australia, Engineer, "*Improved Construction of Condenser.*"—Dated 19th May, 1899.

Application No. 2530.—CHARLES V. RITCHIE, of Victoria Park, Perth, Western Australia, Engine-fitter, "*An improved Concentrator and Amalgator for [illegible]es and Tailings for saving gold or tin, or other [illegible]ous metals from their ores.*"—Dated 20th M[illegible] 1899.

Application No. 2531.—JOHN MCLEAN, of Perth, Western Australia, Engineer, Government Refrigerating Works, "*Louvre Fire Bar, and means of operating same.*"—Dated 22nd May, 1899.

Application No. 2543.—MARY ETHEL COX, spinster, and HERBERT BELL, Law Clerk, both of Sydney, New South Wales, "*An improved Hair Curler.*"—Dated 30th May, 1899.

Application No. 2548.—HARRY GULLIVER, of Claremont, Western Australia, gentleman, "*An improved Sash Holder, principally for Railway and Tram Cars.*"—Dated 5th June, 1899.

Application No. 2549.—DAVID WATTS, of 33 Bridge Street, Ballarat, Victoria, gentleman, "*Improvements in two-speed Gearing for Cycles.*"—Dated 6th June, 1899.

Application No. 2550.—EDMUND RILEY, junior, of Flinders, Victoria, Telegraph Operator, "*An improved Machine for Cutting Fern and Scrub.*"—Dated 7th June, 1899.

Application No. 2551.—SAMUEL WILSON, of the Pioneer Foundry, and DAVID CURLE SMITH, of Electric Light Station, both of Kalgoorlie, Western Australia, Engineer, "*An improved Salt Water Evaporator.*"—Dated 7th June, 1899.

MALCOLM A. C. FRASER,
Registrar of Patents.

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Name.	Title.	No.	Date.
Armstrong, F. G.	A combined clod-crusher, harrower, and sower	2566	14th June, 1899
Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	Electrical heating appliances formed of artificial stone	2574	20th June, 1899
Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	Electrical resistances of artificial stone composition ...	2575	20th June, 1899
Ballantine, T.	Child's carriage or perambulator	2571	20th June, 1899
Brown, A., & Brown, J.	*Vide* Brown, J., & Brown, A.	2572	20th June, 1899
Brown, J., & Brown, A.	Improvements in and relating to saucepans and other receptacles for heating and boiling milk and other liquids	2572	20th June, 1899
Cockerell, R.	Improved lever lift battery	2585	29th June, 1899
Dabb, W.	An improved mop for household and other purposes, having a rotatable head	2573	20th June, 1899
Davis, H. P.; Wright, G., & Wurts, A. J.	Improvements in controllers for electric motors	2579	26th June, 1899
Dick, J. (*Hutton, W. R.*)	Improved process for the treatment of sulphidic ores or compounds	2564	13th June, 1899
Freeman, G. J. W., & Smith, C. H. ...	*Vide* Smith, C. H., & Freeman, G. J. W.	2577	21st June, 1899
Heslop, H. P.	An improved acetylene or other hydro-carbon gas generator	2583	27th June, 1899
Hutton, W. R.	*Vide* Dick, J.	2564	13th June, 1899
Jörg, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2574	20th June, 1899
Jörg, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2575	20th June, 1899
Keane, T.	An Improved mine ventilator	2567	14th June, 1899
Kirchner, J.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2574	20th June, 1899
Kirchner, J.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2575	20th June, 1899
König, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2574	20th June, 1899
König, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2575	20th June, 1899
Lamme, B. G.	Improvements in rotary transformers or synchronous motors	2568	17th June, 1899
Marsh, R. F.	An improved rotary engine	2582	27th June, 1899
Norling, E.	An elastic material for joints of wood blocking	2587	30th June, 1899
Parry, H. E.	Self operated spile for use in the withdrawal of beer or other liquid from its vessel	2580	26th June, 1899
Patching, T. H.	An automatic coupling for use on railway carriages and the like	2570	20th June, 1899
Perkins, T. S.	Improved starting machine for electric motors	2567	17th June, 1899
Polain, C. J.	A reciprocating gravity wire transit apparatus, in combination with a rigid curve, applied as a divertor, usable as a transit of cash, parcels, and heavy material	2578	23rd June, 1899
Rowe, N.	Improvements relating to the regulation of electro-motive force	2576	21st June, 1899
Sébillot, A. M. G.	Process for dressing zinc ores, and apparatus therefor ...	2586	29th June, 1899
Short, H. L.	Improvements in methods of and apparatus for increasing the volume of sounds from telephonic or phonographic instruments, and transmitting such sounds to distances	2563	13th June, 1899
Smith, A. G., & Smith, A. J.	*Vide* Smith, A. J., & Smith, A. G.	2584	27th June, 1899
Smith, A. J., & Smith, A. G.	Improvements in acetylene gas generators	2584	27th June, 1899
Smith, C. H., & Freeman, G. J. W. ...	Improvements in implements for ploughing or cultivating and sowing seed and fertilisers	2577	21st June, 1899
Smith, I.	*Vide* Waters, E., jun.	2569	20th June, 1899
Sparrow, R. (*Ward, T.*)	Improvements in the treatment of metalliferous materials	2581	27th June, 1899
Vogt, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2574	20th June, 1899
Vogt, A.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2575	20th June, 1899
Ward, T.	*Vide* Sparrow, R.	2481	27th June, 1899
Waters, E, jun. (*Smith, I.*)	An improved apparatus for use as a liquid meter, rotary motor, pump, and similar purposes	2569	20th June, 1899
Weiner, C. C.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2574	20th June, 1899
Weiner, C. C.	*Vide* Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., & Jörg, A.	2575	20th June, 1899
Wright, G.	*Vide* Davis, H. P.; Wright, G., & Wurts, A. J.	2579	26th June, 1899
Wurts, A. J.	*Vide* Davis, H. P.; Wright, G., & Wurts, A. J.	2579	26th June, 1899

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Artificial Stone	Bachmann, J. F.; Vogt, A.; Weiner, C. C.; König, A.; Kirchner, J., and Jörg, A.	2575	20th June, 1899
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Gas	*Vide* Acetylene Gas	2584	27th June, 1899
Harrower	*Vide* Clod-crusher	2566	14th June, 1899
Heating (electrical)	*Vide* Artificial Stone	2574	20th June, 1899
Joints	Norling, E.	2587	30th June, 1899
Metalliferous Material	Sparrow, R.	2581	27th June, 1899
Meter	Waters, E., jun.	2569	20th June, 1899
Mop	Dabb, W.	2573	20th June, 1899
Motor	*Vide* Meter	2569	20th June, 1899
Motors	*Vide* Starting Machine	2567	17th June, 1899
Motors	*Vide* Transformers	2568	17th June, 1899
Motors	*Vide* Controllers	2579	26th June, 1899
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Ores (zinc)	Sébillot, A. M. G.	2586	29th June, 1899
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Pump	*Vide* Meter	2569	20th June, 1899
Regulation of Force	*Vide* Force (electro-motive)	2576	21st June, 1899
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Transformers	Lamme, B. G.	2568	17th June, 1899
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Ventilator	Keane, T.	2565	14th June, 1899
Wood Blocking	*Vide* Joints	2587	30th June, 1899
Zinc Ores	*Vide* Ores (zinc)	2586	29th June, 1899

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Refrigerating	General Liquid Air and Refrigerating Co....	2418	11th Mar., 1899	31st Mar., 1899	13	992
Saw-table	McKenna, E. W.	2422	11th Mar., 1899	7th April, 1899	14	1042
Sewage	Cameron, D., Commins, F. J., and Martin, A. J.	2406	28th Feb., 1899	31st Mar., 1899	13	992
Shearing Machines	Silley, J. H., and Bacon, W. W.	2435	21st Mar., 1899	7th April, 1899	14	1042
Timber	*Vide* Elevator...	2423	11th Mar., 1899	31st Mar., 1899	13	992
Tobacco Moistener	Benke, G. von	2390	13th Feb., 1899	14th April, 1899	15	1099

Trade Marks.

Patent Office, Perth,
7th July, 1899.

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

Any person or persons intending to oppose any of such applications must leave particulars in writing, in duplicate (on Form F), of his or their objections thereto, within two months of the first advertisement of the applications in the Western Australian *Government Gazette*.

A fee of £1 is payable with such notice.

MALCOLM A. C. FRASER,
Registrar of Designs and Trade Marks.

Application No. 1603, dated 15th March, 1899.—FRANK ASTON EDWARDS, trading as "Aston & Co.," also trading as "The Dulcemona Tea Company," of 11, 11A, and 12 Upper Thames Street, London, England, to register in Class 42, in respect of Tea, Coffee, Cocoa, and other Articles of Food, a Trade Mark, of which the following is a representation:—

DULCEMONA.

This Mark was first advertised in the Western Australian *Government Gazette* of the 12th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1627, dated 2nd May, 1899.—RECKITT & SONS, Limited, 423 Kent Street, Sydney, New South Wales, and of Hull, in Yorkshire, and of London, England, Starch, Blue, and Blacklead Manufacturers, to register in Class 50,

Sub-section 6, in respect of Stove Polish, a Trade Mark, of which the following is a representation :—

The essential particulars of the Trade Mark are the words "Rising Sun" and the device, and applicants disclaim any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of the 12th May, 1899—*vide* notice at head of Trade Mark advertisements.

Applications Nos. 1621, 1622, 1623, 1624, 1625, and 1626, dated 2nd May, 1899.—NINIAN MILLER THOMSON and EDWIN CHARLES GUTTRIDGE, trading as "Mauri Brothers & Thomson," 36 York Street, Sydney, New South Wales, Merchants, to register in Class 1, in respect of Chemical Substances used in Manufactures, Photography, or Philosophical Research and Anti-corrosives. Application No. 1622, to register in Class 2, in respect of Chemical Substances used for Agricultural, Horticultural, Veterinary, and Sanitary purposes. Application No. 1623, to register in Class 3, in respect of Chemical Substances prepared for use in Medicine and Pharmacy. Application No. 1624, to register in Class 42, in respect of Substances used as Food or as Ingredients in Food. Application No. 1625, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured. Application No. 1626, to register in Class 4, in respect of Raw or Partly Prepared Vegetable, Animal, or Mineral Substances used in manufactures not included in other classes, a Trade Mark, of which the following is a representation :—

PINNACLE.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1630, dated 9th May, 1899.—W.A. OPERATIVE BOOTMAKERS UNION, of Perth, to register in Class 38, in respect of Boots and Shoes, a Trade Mark, of which the following is a representation :—

The essential particular of the Trade Mark is the combination of devices, and applicant Union disclaims any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1631, dated 9th May, 1899.—WILLIAM ARTHUR BOORD, of Allhallows Lane, London, E.C., England, Wine and Spirit Merchant and Distiller, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation :—

VERY SPECIAL LIQUEUR

THE

ROYAL HIGHLAND

WHISKY.

SPECIAL EXPORT
QUALITY, BLENDED,
BOTTLED & GUARANTEED
BY

THIS FAVOURITE WHISKY IS MATURED AND BOTTLED UNDER EXPERT SUPERVISION CONNOISSEURS ARE CAUTIONED TO OBSERVE THE NAME OF

ON EVERY BOTTLE, TO IMITATE WHICH IS FORGERY.

The essential particular of the Trade Mark is the following :—The device, and the applicant disclaims any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1632, Dated 9th May, 1899.—NETTLEFOLDS, LIMITED, of 16 Broad Street, Birmingham, Warwickshire, and 2 Fen Court, Fenchurch Street, London, E.C., England, Screw Manufacturers, Iron Masters, and Wire Drawers, to register in Class 5, in respect of Unwrought and partly Wrought Metals used in manufacture, a Trade Mark, of which the following is a representation :—

TYDU

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1633, Dated 9th May, 1899.—NETTLEFOLDS, LIMITED, of 16 Broad Street, Birmingham, Warwickshire, and 2 Fen Court, Fenchurch Street, London, E.C., England, Screw Manufacturers, Iron Masters, and Wire Drawers, to register, in Class 5, in respect of Unwrought and partly Wrought Metals used in manufacture, a Trade Mark, of which the following is a representation :—

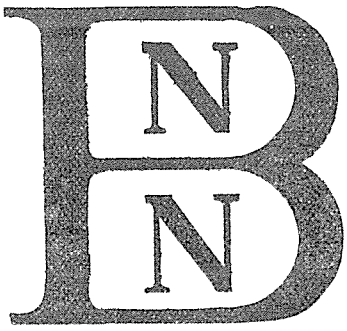
N

WELLINGTON

Mark used by applicants and their predecessors in business in respect of the said goods, for one year before 31st January, 1876.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1634, dated 9th May, 1899.—NETTLEFOLDS, LIMITED, of 16 Broad Street, Birmingham, Warwickshire, and 2 Fen Court, Fenchurch Street, London, E.C., England, Screw Manufacturers, Iron Masters, and Wire Drawers, to register in Class 5, in respect of Unwrought and partly Wrought Metals used in manufacture, a Trade Mark, of which the following is a representation :—



Mark used by applicants and their predecessors in business in respect of the said goods, for upwards of one year before 31st January 1876.

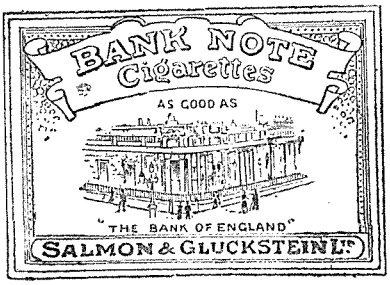
This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Applications Nos. 1635 and 1636, dated 9th May, 1899.—NETTLEFOLDS, LIMITED, of 16 Broad Street, Birmingham, Warwickshire, and 2 Fen Court, Fenchurch Street, London, E.C., England, Screw Manufacturers, Iron Masters, and Wire Drawers, to register in Class 13, in respect of Metal Goods not included in other classes. Application No. 1636, to register in Class 5, in respect of Unwrought and partly Wrought Metals used in manufacture, a Trade Mark, of which the following is a representation :—

Mark used by applicants and their predecessors in business, in respect of the said goods, for upwards of five years before 31st January, 1876.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1638, dated 9th May, 1899, SALMON & GLUCKSTEIN, LIMITED, 41 Clerkenwell Road, London, England, Tobacco Manufacturers, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—



The essential particulars of the Trade Mark are the following :—The combination of devices and the words "Bank Note," and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name.

This Mark was first advertised in the Western Australian *Government Gazette* of the 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1639, dated 9th May, 1899, SALMON & GLUCKSTEIN, LIMITED, 41 Clerkenwell Road, London, England, Tobacco Manufacturers, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—

The essential particulars of the Trade Mark are the following :—The combination of devices and the words "Dandy Fifth," and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name and address.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

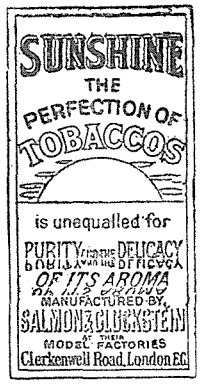
Application No. 1640, dated 9th May, 1899.—SALMON & GLUCKSTEIN, LIMITED, 41 Clerkenwell Road, London, England, Tobacco Manufacturers, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—

The essential particulars of the Trade Mark are the following :—The combination of devices and the word "Puck," and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name.

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1641, dated 9th May, 1899.—SALMON & GLUCKSTEIN, LIMITED, 41 Clerkenwell Road, London, England, Tobacco Manufacturers, to register in Class 45, in

respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—



The essential particulars of the Trade Mark are the device and the word "Sunshine," and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name and address.

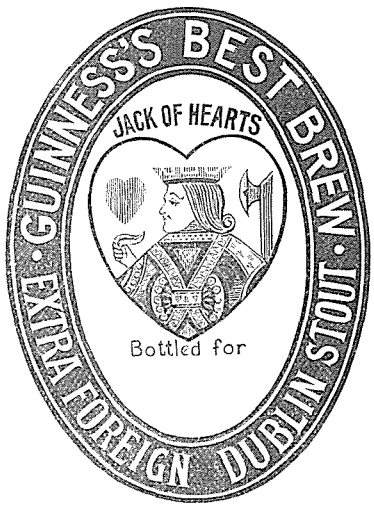
This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1642, dated 9th May, 1899.—SALMON & GLUCKSTEIN, LIMITED, 41 Clerkenwell Road, London, England, Tobacco Manufacturers, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—

SWEETHEARTS

This Mark was first advertised in the Western Australian *Government Gazette* of 19th May, 1899—*vide* notice at head of Trade Mark advertisements.

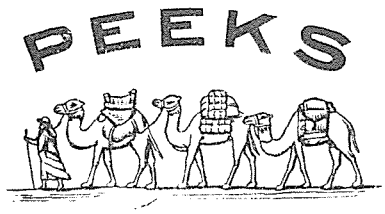
Application No. 1535, dated 28th October, 1898.—J. P. O'BRIEN AND COMPANY, of Liverpool, England, Brewers and Bottlers, to register in Class 43, in respect of Fermented Liquors and Spirits, such as Beer, Ale, or Stout, a Trade Mark, of which the following is a representation :—



The essential particulars of the Trade Mark are (1) *the words "Jack of Hearts," and* (2) *the device of a Jack of Hearts enclosed within a heart-shaped border, and applicant disclaims any right to the exclusive use of the added matter.*

This Mark was first advertised in the Western Australian *Government Gazette*, of the 26th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1643, dated 9th May, 1899.—PEEK BROS & WINCH, LIMITED, 20 Eastcheap, London, England, Wholesale Tea, Coffee, and Spice Dealers, and Cocoa, etc., Manufacturers, to register in Class 42, in respect of Substances used as Food, or as Ingredients in Food, a Trade Mark, of which the following is a representation :—



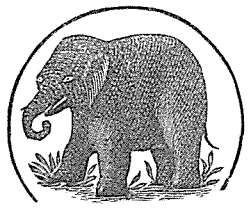
This Mark was first advertised in the Western Australian *Government Gazette* of the 26th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1644, dated 9th May, 1899.—CURTISS & HARVEY, LIMITED, 3 Gracechurch Street, London, England, Gunpowder Manufacturers, to register in Class 20, in respect of Explosive Substances, a Trade Mark, of which the following is a representation :—

ARGUS.

This Mark was first advertised in the Western Australian *Government Gazette* of the 26th May, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1645, dated 9th May, 1899.—CURTISS & HARVEY, LIMITED, 3 Gracechurch Street, London, England, Gunpowder Manufacturers, to register in Class 20, in respect of Explosive Substances, a Trade Mark, of which the following is a representation :—



ELEPHANT BRAND

This Mark was first advertised in the Western Australian *Government Gazette* of the 26th May, 1899—*vide* notice at head of Trade Mark advertisements.

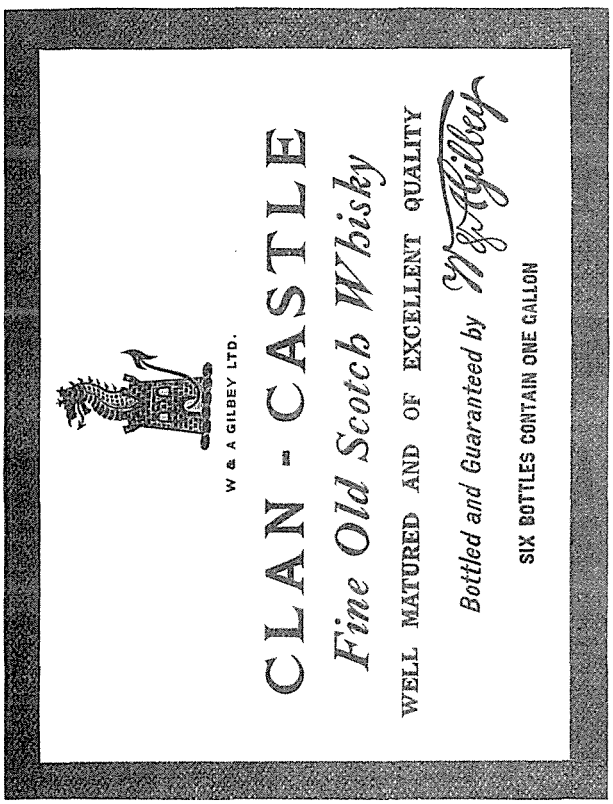
Application No. 1506, dated 17th September, 1898.—THE MARRIOTT CYCLE CO., LTD., of Hay Mills, Birmingham, and 71 Queen Street, London, England, Manufacturers, to register in Class 22, in respect of Velocipedes, Carriages,

and other Road Vehicles, including Motor Cars, a Trade Mark, of which the following is a representation :—

The essential particulars of the Trade Mark are :—(1) the device of a shield, (2) the word "Marriott," (3) the fac simile signature "J. Marriott," and we disclaim any right to the exclusive use of the added matter, except the applicant Company's name and address.

This Mark was first advertised in the Western Australian *Government Gazette* of the 2nd June, 1899—*vide* notice at head of Trade Mark advertisements.

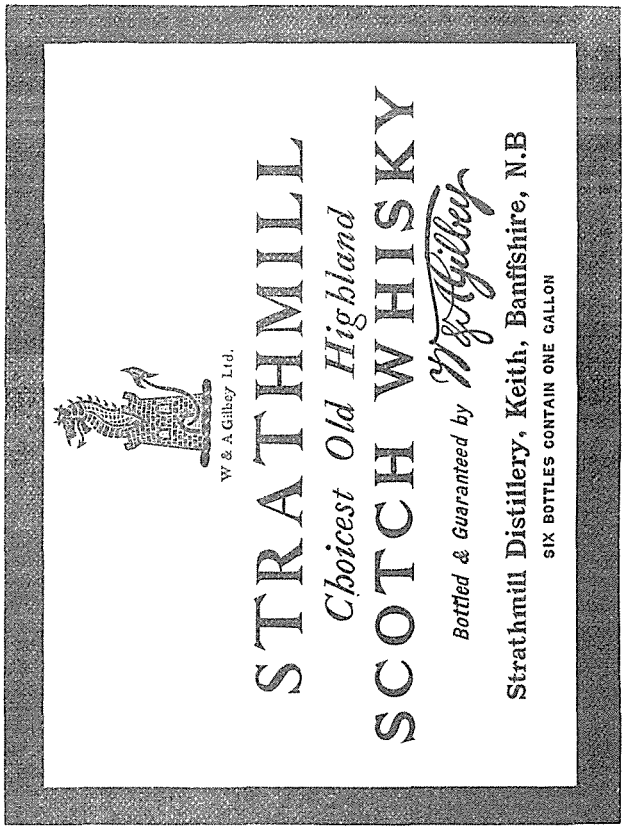
Application No. 1566, dated 23rd December, 1898.—W. & A. GILBEY, LTD., Pantheon, Oxford Street, London, England, Wine and Spirit Merchants and Distillers, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation :—



The essential particulars of the above Mark consist of the device, the word "Clan-Castle," and the signature of W. & A. Gilbey; and applicant Company disclaims any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of the 2nd June, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1567, dated 23rd December, 1898.—W. & A. GILBEY, LIMITED, Pantheon, Oxford Street, London, England, Wine and Spirit Merchants and Distillers, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation :—



The essential particulars of the above Mark consist of the device, the word "Strathmill," and the signature of W. & A. Gilbey; and applicant Company disclaims any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of the 2nd June, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1618, dated 21st April, 1899.—JOHN PETER KELLY, of Perry's Buildings, Murray Street, Perth, Manufacturer, to register, in Class 50, Sub-section 6, in respect of Polish for Furniture, Linoleum, Oilcloth, etc., a Trade Mark, of which the following is a representation :—

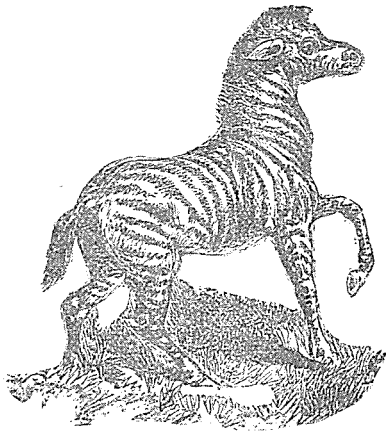
MYSTERY
OF
MYSTERIES.

This Mark was first advertised in the Western Australian *Government Gazette* of the 9th June, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1646, dated 12th May, 1899.—OSMONDS, LIMITED, the Tower, Bagot Street, Birmingham, Warwickshire, England, to register in Class 22, in respect of Cycles, a Trade Mark, of which the following is a representation :—

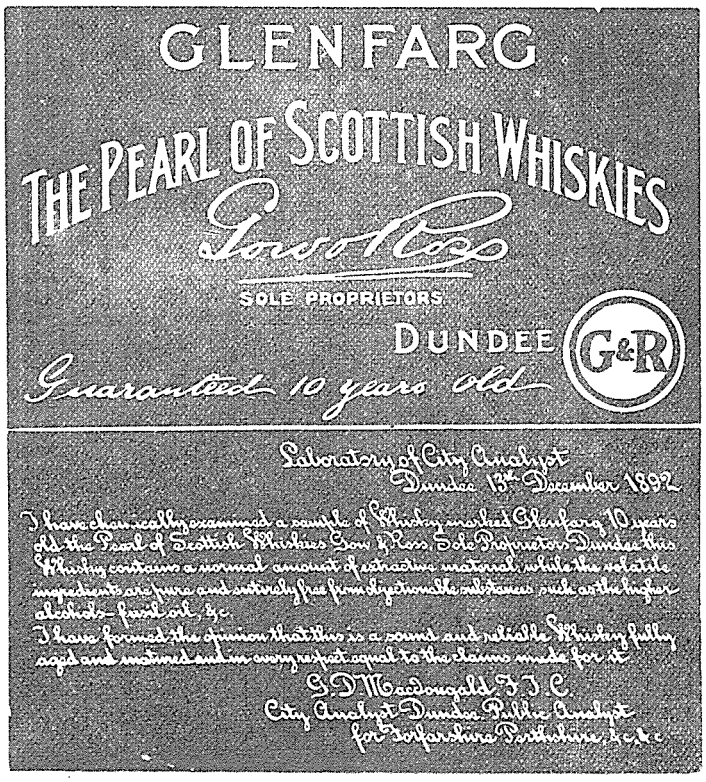
This Mark was first advertised in the Western Australian *Government Gazette* of the 9th June, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1654, dated 31st May, 1899.—JNO. JAMES, trading as "John James & Co.," also as "James Lipton," 237 High Street, Fremantle, to register, in Class 42, in respect of Substances used for Food, or as Ingredients in Food, a Trade Mark, of which the following is a representation :—



This Mark was first advertised in the Western Australian *Government Gazette* of the 9th June, 1899—*vide* notice at head of Trade Mark advertisements.

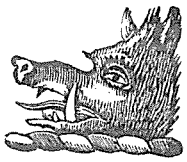
Application No. 1586, dated 27th January, 1899.—JAMES WATSON & Co., LIMITED, of 97 Seagate, Dundee, Scotland. Distillers and Whisky Merchants, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation :—



The essential particulars of the Trade Mark are—(1st) the word "Glenfarg"; (2nd) the copy of the written signature "Gow & Ross" (the trading name of the firm of James Watson & Co., the predecessors in business of the applicant Company); and applicants disclaim any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of 9th June, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1602, dated 14th March, 1899.—GRIMBLE & CO., LIMITED, of 31 Cumberland Market, Regent's Park, London, England, Vinegar Brewers, to register in Class 42, in respect of Vinegar, Pickles, Sauces, and other substances used as food, or as ingredients in food, a Trade Mark, of which the following is a representation:—



This Mark was first advertised in the Western Australian *Government Gazette* of the 16th June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1656, dated 8th June, 1899.—A. J. WHITE, LIMITED, of 35 Farringdon Road, London, England, Patent Medicine Manufacturers, to register in Class 3, in respect of Chemical Substances prepared for use in Medicine and Pharmacy, a Trade Mark, of which the following is a representation:—

LAXOL

This Mark was first advertised in the Western Australian *Government Gazette* of the 16th June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1629, dated 9th May, 1899.—COUCHE, CALDER, & CO., Fremantle, to register in Class 2, in respect of Artificial Manures, a Trade Mark, of which the following is a representation:—

"CROWN"

SUPERPHOSPHATES.

The essential particular of the Mark is the word "Crown," and the applicants disclaim any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of the 23rd June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1650, dated 16th May, 1899.—THE DAVIS AND LAWRENCE COMPANY, LIMITED, Montreal in Canada, and in New York, in the United States of America, to register in Class 3, in respect of a Medicine, a Trade Mark, of which the following is a representation:—

PAIN KILLER.

The said Trade Mark has been used by the applicant Company in respect of the above-mentioned goods since the year 1855.

This Mark was first advertised in the Western Australian *Government Gazette* of the 23rd June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1651, dated 17th May, 1899.—ROBINSON & HIGGINS, of King Street, Coolgardie, Bottlers, to register in Class 43, in respect of Fermented Liquors and Wine, a Trade Mark, of which the following is a representation:—

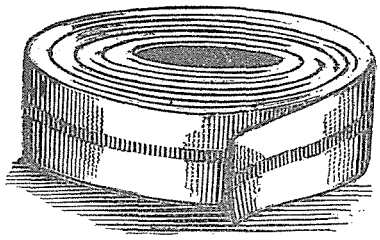
The essential particular of the Trade Mark is the device of an Anchor, and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name.

This Mark was first advertised in the Western Australian *Government Gazette* of the 23rd June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1655, dated 2nd June, 1899.—ASBEST-UND-GUMMIWERKE ALFRED CALMEN ACTIENGESELLSCHAFT, of Hamburg, Germany, and of London, India-rubber and Asbestos Manufacturers, to register in Class 40, in respect of Machine Belting manufactured from India-rubber or

gutta percha, and not included in other Classes, a Trade Mark, of which the following is a representation :—

EXCELSIOR.



The essential particulars of the Trade Mark consist of the word "Excelsior" and the device of a roll of belting containing a red stripe lengthways.

This Mark was first advertised in the Western Australian *Government Gazette* of the 23rd June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1658, dated 13th June, 1899.—ARTHUR BOURKE NEWING, of Redan Road, Caulfield, in the Colony of Victoria, Oil and Colourman, to register in Class 1, in respect of Chemical Substances, such as Aniline Dyes and Pigments, a Trade Mark, of which the following is a representation :—

OLIN.

This Mark was first advertised in the Western Australian *Government Gazette* of 30th June, 1899, *vide* notice at head of Trade Mark advertisements.

Application No. 1660, dated 13th June, 1899.—GRIERSON, OLDHAM, & Co., LIMITED, of "Big Tree" Wine Store, Waterloo Bridge, London, England, Wine Merchants and Shippers, to register in Class 43, in respect of Fermented Liquors and Spirits, a Trade Mark, of which the following is a representation :—

"BIG TREE" BRAND

The essential particulars of the Trade Mark are the device and the words, "Big Tree," and applicants disclaim any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of 7th July, 1899, *vide* notice at head of Trade Mark advertisements.

Application Nos. 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, and 1675, dated 20th June, 1899.—FOY AND GIBSON, of Nos. 130 to 152, Smith Street, Collingwood, in the Colony of Victoria, Merchants, to register in Class 7, in respect of Agricultural and Horticultural Machinery, and Parts of such Machinery. Application No. 1665, to register in Class 12, in respect of Cutlery and Edge Tools. Application No. 1666, to register in Class 14, in respect of Goods of Precious Metals (including Aluminium, Nickel, Britannia-metal, etc.), and Jewellery, and imitations of such Goods and Jewellery. Application No. 1667, to register in Class 36, in respect of Carpets, Floorcloth, and Oilcloth. Application No. 1668, to register in Class 37, in respect of Leather, Skins (Unwrought and Wrought), and Articles made of Leather not included in other Classes. Application No. 1669, to register in Class 38, in respect of Articles of Clothing. Application No. 1670, to register in Class 41, in respect of Furniture and Upholstery. Application No. 1671, to register in Class 42, in respect of Substances used as Food or as Ingredients in Food, except Jams and Sauces. Application No. 1672, to register in Class 45, in respect of Tobacco, whether Manufactured or Unmanufactured. Application No. 1673, to register in Class 46, in respect of Seeds for Agricultural and Horticultural Purposes. Application No. 1674, to register in Class 47, in respect of Candles, Common Soap, Detergents, Illuminating, Heating, or Lubricating Oils, Matches and Starch, Blue, and other Preparations for Laundry Purposes. Application No. 1675, to register in Class 50, in respect of Miscellaneous, including (1) Goods manufactured from Ivory, Bone, or Wood, not included in other Classes; (2) Goods manufactured from Straw or Grass, not included in other Classes; (3) Goods manufactured from Animal and Vegetable Substances not included in other Classes; (4) Tobacco Pipes; (5) Umbrellas, Walking Sticks, Brushes, and Combs; (6) Furniture, Cream, and Plate Powder; (7) Tarpaulins, Tents, Rick Cloths, Rope, and Twine; (8) Buttons of all kinds, other than of Precious Metals or imitations thereof; (9) Packing and Hose of all kinds; (10) Goods not included in the foregoing Classes, a Trade Mark, of which the following is a representation :—

COMMONWEALTH.

This Mark was first advertised in the Western Australian *Government Gazette* of 7th July, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1679, dated 27th June, 1899.—HENRY BROOKS & COMPANY, of 70 Bishopsgate Street, London, England, and also of 65 Elizabeth Street, Melbourne, in the Colony of Victoria, Glass, Oil, and Colour Merchants, to register in Class 16, in respect of Glazed Bricks, Tiles, and similar articles, a Trade Mark, of which the following is a representation :—

OPALITE.

This Mark was first advertised in the Western Australian *Government Gazette* of 7th July, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1681, dated 30th June, 1899.—COUCHE, CALDER, & Co., Cantonment Street, Fremantle, Merchants, to register in Class 47, in respect of Mineral and Lubricating Oils, a Trade Mark, of which the following is a representation :—

VULCAN.

This Mark was first advertised in the Western Australian *Government Gazette* of 7th July, 1899—*vide* notice at head of Trade Mark advertisements.

Patent Office, Perth,
13th June, 1899.

APPLICATION No. 1481, dated 15th August, 1898.—WILLIAM DETMOLD, LIMITED, Cliff Street, Fremantle, also at London, Melbourne, and Adelaide, Wholesale Stationers and Paper Merchants, to register in Class 39, in respect of Paper, Paper Bags, and Stationery, a Trade Mark, of which the following is a representation :—

Signet
EXTRA STRONG

The essential particular of the Trade Mark is the word "Signet," and the applicant Company disclaims any right to the exclusive use of the added matter.

This Mark was first advertised in the Western Australian *Government Gazette* of the 16th June, 1899—*vide* notice at head of Trade Mark advertisements.

Alphabetical List of Registrants of Trade Marks.

JUNE 10TH—JULY 1ST.

Name.	Goods.	Class.	No.	Date.	*Gazette.*		
					No.	Date.	Page.
American Cereal Company	Cereals, Pulses, and all descriptions of cereal preparations	42	1579	17th Jan., 1899	15	14th April, 1899	1108
Barff, Limited	Currants	42	1611	24th Mar., 1899	14	7th April, 1899	1047
Barff, Limited	Currants	42	1612	24th Mar., 1899	13	31st Mar., 1899	998
Barff, Limited	Currants	42	1613	24th Mar., 1899	13	31st Mar., 1899	998
Drake & Stubbs	Unwrought and partly wrought metals used in manufacture	5	1614	12th April, 1899	16	21st April, 1899	1204
Monkwell Street Warehouse Company	Articles of clothing	38	1449	27th June, 1898	17	28th April, 1899	1268
Monkwell Street Warehouse Company	Articles of clothing	38	1450	27th June, 1898	17	28th April, 1899	1268
Stubbs	*Vide* Drake & Stubbs	5	1614	12th April, 1899	16	21st April, 1899	1204

Index of Goods for which Trade Marks have been Registered.

JUNE 10TH—JULY 1ST.

Goods.	Name.	No.	Date.	Class.	*Gazette.*		
					No.	Date.	Page.
Cereals preparations	The American Cereal Company... ...	1579	17th Jan., 1899	42	15	14th April, 1899	1108
Cereals	*Vide* Cereal preparations	1579	17th Jan., 1899	42	15	14th April, 1899	1108
Clothing	Monkwell Street Warehouse Company	1449	27th June, 1898	38	17	28th April, 1899	1268
Clothing	Monkwell Street Warehouse Company	1450	27th June, 1898	38	17	28th April, 1899	1268
Currants	Barff, Limited	1611	24th Mar., 1899	42	14	7th April, 1899	1047
Currants	Barff, Limited	1612	24th Mar., 1899	42	13	31st Mar., 1899	998
Currants	Barff, Limited	1613	24th Mar., 1899	42	13	31st Mar., 1899	998
Metals	Drake & Stubbs	1614	12th April, 1899	5	16	21st April, 1899	1204

By Authority: RICHARD PETHER, Government Printer, Perth.