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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,  
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.

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. 2489.—JAMES WATSON, Engineer, 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.

Claims:—

1. The improvements in compound engines which consist in the arrangement of the high pressure cylinder within or the enclosing of the same by the low pressure cylinder, the high pressure cylinder working in conjunction with a stationary piston, and at the same time constituting or acting as the piston working within the low pressure cylinder, substantially as described.

2. In compound engines applicable to rock-drilling machines, locomotives, hauling, or mill engines, pumps, and the like, in combination the combined high pressure cylinder and reciprocating low pressure piston, the stationary high pressure piston, the external annular recess of the high pressure cylinder constituting the high pressure steam or air chest, the valve chambers formed in the ends or covers of the high pressure cylinder and transversely thereof, the valves arranged therein, the inlet ports between the high pressure steam or air chest and the valve chamber, the feed ports between the valve chamber and the interior of the high pressure cylinder, the exhaust ports bored through the ends of the high pressure cylinder and placing the interiors of the high and low pressure cylinders in communication, the ports formed through the high pressure cylinder and longitudinally thereof, and communicating with both valve chambers for reversing the valve at the end of the stroke in either direction, the low pressure cylinder, the main or high pressure feed port formed therein, the exhaust valve chamber and exhaust valve arranged therein, the exhaust ports between the low pressure cylinder and the exhaust valve chamber, and ports leading from the low pressure cylinder to the back of the exhaust valve at either end, substantially as and for the purpose hereinbefore described.

3. In compound engines applicable to rock-drilling machines, locomotives, hauling, or mill engines pumps and the like, the combination of the compound high pressure cylinder and low pressure piston A, the stationary high pressure piston C, the annular external recess g3 and valve chest I2 of the high pressure cylinder, the valve J arranged therein, the inlet and exhaust ports j, j1 and k, k1, the drill bar

piston rod G connected with the piston A, the low pressure cylinder B and the main feed port al and exhaust ports m, m1, the exhaust valve chamber L and exhaust valve, the ports M, M1 and the holes, H 15 intersecting the ports M, M1, and fitted with valves 16 17 and the grooves n, n1 formed in the ends of the low pressure cylinder B, substantially as described and shewn.

4. Compound engines, applicable to locomotives, hauling, or mill engines, pumps and the like having the several parts constructed and arranged in combination, substantially as described and shewn with reference to Figs. 1 to 3 or Fig. 4 of the accompanying drawings.

5. The improved rock-drilling machine having its several parts constructed and arranged in combination, substantially as described with reference to Figs. 1 to 3 of the accompanying drawings.

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.

Claims:—

1. In an automatic telephone exchange system wherein the subscribers' lines are divided into groups, the lines of each group being presented on its own pair of "calling" and "called" line coupling boards (or combined "calling" and "called" line coupling board) by line contacts in pairs whose members correspond to the two members of a line and are accompanied by distinct contacts for the service of the exchange mechanisms, said line and service contacts being regularly arranged in series of rows so as to be accessible by a plurality of coupling devices located at the several coupling boards. The combination with the pairs of line and service contacts presented on the coupling boards of a plurality of coupling devices, each comprising two independently movable, electrically propelled, and electrically associated mechanisms termed couplers (said couplers being respectively appropriated, the one for making connection with a called-line and the other for making connection with a calling-line) each coupler being adapted to move across its board and being provided with a plurality of sets of line and service contact-fingers, said sets respectively corresponding to the several series of rows of contacts on the coupling board, each set comprising a pair of line fingers whose members are appropriated to make contact respectively with the members of a pair of line contacts, and a service finger appropriated to make contact with the service wire corresponding to such pair of line contacts so that each set of line and service-fingers is adapted to make contact with the line and service contacts of one or another row of contacts of the series to which that set corresponds, all the fingers of like function in the one coupler being in electrical connection with each other, and being connected at predetermined moments with the fingers of corresponding function of the associated coupler through the agency of a magnetically operated multiple switch or distributor in connection with the called-line coupler, there being as many couplers of each function located at each coupling board of similar function as there are groups of lines, the couplers (of the kind appropriated to make connection with calling-lines) which are located at any one calling-line coupling board being electrically associated with couplers (of the kind appropriated to make connection with called-lines) which are severally located at called-line coupling boards severally appertaining to different groups of lines, so that each said coupling device is adapted telephonically couple together any two lines on the coupling boards at which the two couples, forming said coupling device, are respectively situated.

2. In an automatic telephone exchange system in which the subscribers' lines are divided into groups, the lines of each group being presented by line and service contacts (on coupling boards or pairs of coupling boards respectively representing different groups of lines) and in which there is combined with the boards a plurality of coupling devices, each composed of two electrically associated mechanisms or couplers, each provided with a plurality of sets of line and service contact fingers, there being so many such coupling devices, and the location of their constituent couplers relatively to the coupling boards being such, that those couplers which appertain to any group of lines are electrically associated with couplers which severally appertain to different groups of lines, the combination to form a coupling device of

two electrically operated couplers (respectively distinguished as called-line coupler and calling-line coupler), said couplers being independently and electrically movable, each across coupling board, and each comprising a plurality of sets of electrically controlled contact-fingers, the fingers of like function of all the sets comprised in each coupler being electrically connected, and the fingers of the called-line coupler being electrically connected at predetermined moments with the fingers of like function, of the calling-line coupler through the agency of a multiple switch or distributor, by which also the movements of the called-line coupler, as a whole, are controlled, the sets of fingers of the called-line coupler being under the control of an electrically operated selector, and the sets of fingers of the calling-line coupler being respectively controlled each by an electro-magnetic mechanism in the circuit of the service finger of its set, each such electro-magnetic mechanism being dependent for its action (on the one hand) on the action of the distributor of the called-line coupler and (on the other hand) on the completion of its own circuit, by the service finger of the corresponding set of fingers of the calling-line coupler making contact with the service contact (of the calling-line) which has been earthed through the operation of an electro-magnetic commutator or connector appertaining to that line, there being such a commutator in connection with each line.

3. In an automatic telephone exchange system in which the subscribers' lines are divided into groups, the lines of each group being presented by line and service contacts, and in which there is combined therewith a plurality of coupling devices, each composed of two electrically associated mechanisms or couplers independently and electrically movable across the line and service contacts of a group of lines (the one of such associated couplers being appropriated for making connection with a called-line, and the other for making connection with a calling-line), each such coupler being provided with a plurality of sets of line and service contact fingers, the fingers of like function of all the sets of the one coupler being electrically connected with each other and connected at predetermined moments with the fingers of like function of all the sets of the associated coupler, through the agency of a multiple switch or distributor in connection with the called-line coupler, the combination with the sets of contact fingers of each coupler of the one kind (that appropriated for making connection with called-lines) of contact fingers, selecting mechanism electrically operated or controlled, said mechanism being constituted by a plurality of members, the operations of the several members being so co-ordinated that by their conjoint action one only of the several sets of contact fingers will be enabled at one time to make operative contact with a set of line and service contacts.

4. In an automatic telephone exchange system in which the subscribers' lines are divided into groups, the lines of each group being presented by line and service contacts, and in which there is combined therewith a plurality of coupling devices, each composed of two electrically associated mechanisms or couplers, independently and electrically movable across the line and service contacts of a group of lines (the one of such associated couplers being appropriated for making connection with a called-line, and the other for making connection with a calling-line), each such coupler being provided with a plurality of sets of line and service contact fingers, the fingers of like function of all the sets of the one coupler being electrically connected with each other, and connected at predetermined moments with the fingers of like function on all the sets of the associated coupler, through the agency of a multiple switch or distributor in connection with the called-line coupler, the combination with the sets of contact fingers of each coupler of the one kind (that appropriated for making connection with called-lines) of contact fingers, selecting mechanism, the said selecting mechanism being constituted by a pair of cam-like retaining plates for each set of contact fingers, the plates of each acting independently on the contact fingers of a set, and being themselves actuated by independently operated cam shafts common to all the pairs of plates of a coupler, the operation of the cams being so co-ordinated that by their conjoint action one only of the several sets of contact fingers will at one time be enabled to make operative contact with a row of line and service contacts.

5. In an automatic telephone exchange system in which the subscribers' lines are grouped on coupling boards as described, and in which there is combined with the coupling boards a plurality of coupling devices, each composed of two electrically associated mechanisms or couplers independently and electrically movable each across a coupling board and provided each with a plurality of sets of contact fingers electrically associated as described, the two couplers of a coupling device being adapted, the one to make contact with calling-lines, and the other with called-lines, and the contact fingers of the coupler for making contact with a called-line being under the control of an electrically operated contact fingers' selector, the combination with each such called-line coupler of electrically operated combined escapement and propellant mechanisms, the escapement mechanism being adapted to throw the propellant mechanism out of action, and to permit of the said coupler moving step by step across the coupling board in the one direction, and to control the extent of such movement, and the propellant mechanism being adapted to cause the said coupler to return step by step in the opposite direction.

6. In an automatic telephone exchange system in which the subscribers' lines are grouped on coupling boards as described, and in which there is combined with the coupling boards a plurality of coupling devices, each such coupling device being constituted by two electrically operated couplers (respectively distinguished as called-line coupler and calling-line coupler) said couplers being independently and electrically movable each across a coupling board, and each comprising a plurality of sets of electrically controlled contact fingers, the fingers of like function of all the sets comprised in each coupler being electrically connected; the combination with each coupler appropriated to make contact with called-lines of a rotary multiple switch or distributor, and circuit connections with the combined escapement and propellant mechanisms of the called-line coupler, the connections being such that the movement of the coupler as a whole will be controlled by said distributor, and of circuit connections of the said distributor with the respective members or operative mechanisms of a contact fingers' selector adapted to determine the bringing into operative position any one set of contact fingers of the called-line coupler, the circuit connections being such that the co-ordinated operation of the mechanisms of the said contact fingers' selector will also be controlled by said distributor; and of circuit connections of the said distributor with the service contact finger, and with the actuating mechanism of the line contact fingers of the calling-line coupler (associated with the called-line coupler to which said distributor appertains) the connections being such that the finger of the called-line coupler will be electrically connected at pre-determined moments with the corresponding fingers of the calling-line coupler.

7. In an automatic telephone exchange system in which the subscribers' lines are grouped on coupling boards as described and in which there is combined with the coupling boards a plurality of coupling devices each composed of two electrically associated couples independently and electrically movable across a coupling board and provided each

with a plurality of sets of contact fingers electrically associated as described, the two couplers of a coupling device being respectively adapted to make contact with calling and called lines, and contact fingers of the coupler for making contact with a called line, being under the control of an electrically operated contact fingers' selector; the combination with each such calling line coupler of electrically operated mechanism adapted to set the calling line coupler in motion across the coupling board by a current transmitted to said mechanism through the distributor appertaining to the associated called-line coupler, and through the selector and service circuit by which the associated couplers are connected; and of electrically operated mechanisms adapted to arrest the motion of the calling-line coupler when actuated by a current-transmitted to such mechanism through the service-finger circuit of the calling-line coupler, on the completion of said circuit by a service-finger of the calling-line coupler meeting a service wire which has been put to earth by the previous operation of the electro-magnetic commutator or connector appertaining to the line to which such service wire belongs.

8. In an automatic telephone exchange system in which the subscribers' lines are divided into groups, the lines of each group being presented by line and service contacts to coupling devices composed of pairs of electrically operated mechanisms, each having sets of contact-fingers, those of the one coupler being selectively controlled and being electrically associated at predetermined moments with those of the other coupler by the action of a multiple switch or distributor, the several pairs of associated couplers being located with regard to the groups of lines in the manner described, and in which there is connected with each subscriber's line an electro-magnetic multiple commutator designated a connector adapted to establish at the required moment temporary connections of the line wires and service contacts (of the line to which it appertains) with the various elements of electro-magnetic apparatus at the central station; the combination with each group of lines of a combination of electro-magnetic apparatus for use in common by all the lines of the group, such combination comprising an electro-magnetically actuated rotary main distributor or multiple switch formed of a plurality of sets of pairs of contacts and of a plurality of brushes revolved together as one over the pairs of contacts whereby to effect a plurality of circuit changes at each step made by the brushes, the brushes being actuated by a propellant mechanism in response to successive signals of one kind, a main selector comprising a plurality of circuits and a plurality of movable contacts whereof groups are controlled by a plurality of electro-magnetically operated mechanisms, to each of which in turn the signals sent are switched by the main distributor, the individual action of each such mechanism depending on the nature of the signals, and the action of the several mechanisms being so co-ordinated that their conjoint action will have for effect to complete one out of a number of selector circuits which are respectively connected to the operative mechanisms of different coupling devices, and a manipulator formed of relays and batteries adapted to transmit through the selector circuit completed, local currents corresponding to the signals which the manipulator receives through the main distributor, substantially as herein specified.

9. In an automatic telephone exchange system in which groups of subscribers' lines are presented along with service wires, to coupling devices arranged as described with regard to the groups of lines, said coupling devices being composed of pairs of electrically operated couplers, having sets of electrically associated and selectively controlled contact fingers, and in which there is provided for each line an electro-magnetic multiple commutator designated a connector and adapted to connect the line wires and service contacts of the line to which it appertains with the various elements of a set of electro-magnetic apparatus for common use by the lines of a group; the combination with each group of lines and their connectors, and with the main distributor, main selector, and manipulator for common use by a group of a rotary return-to-rest distributor or multiple switch formed of a plurality of sets of pairs of contacts and of brushes electro-magnetically revolved together as one, whereby to concurrently effect various circuit changes, and of electro-magnetically operated mechanisms to which local currents are sent through said return-to-rest distributor, said mechanisms being respectively adapted to return to initial position the line connector which has been operated, and the main distributor, main selector, and manipulator of the group to which that line belongs.

10. In an automatic telephone exchange system in which the subscribers' lines are divided into groups and presented by line and service contacts to coupling devices composed of pairs of electrically operated couplers, having sets of contact fingers selectively controlled and electrically associated at predetermined moments as described, the several pairs of associated couplers being located with regard to the groups of lines in the manner described, and in which there is connected with each subscriber's line an electro-magnetic multiple commutator designated a connector adapted to act as described, and in which there is combined with each group of lines a set of electro-magnetic apparatus (for use in common by all the lines of the group), comprising an electro-magnetically actuated rotary main distributor or multiple switch, constructed and adapted to act as described, a main selector, comprising electro-magnetically operated mechanisms, to each of which in turn the signals sent are switched by the main distributor, the action of the said mechanisms being so co-ordinated that their conjoint action will have for effect to complete one out of a number of selector circuits, and a manipulator, formed of relays and batteries adapted to transmit through the selector circuit completed local currents corresponding to the signals which the manipulator receives through the main distributor; the combination with each circuit controlled by the main selector, of a double polarized receiver, two rotary distributors or multiple switches, and two different-called line couplers (designated twin couplers) located at different coupling boards, and each provided with electro-magnetically operated mechanism, controlling its motion across the coupling board, and with a contact fingers selecting mechanism determining the bringing into operation of one or other of its sets of contact fingers, the circuit connection of the double polarized receiver, with the distributors and the distributors with the mechanism of the respective couplers, being such that the one or other distributor, and one or other coupler, will be actuated to the polarity of the first current by which the polarized receiver is influenced, whilst the other distributor and the other coupler are blocked in position of rest.

11. In an automatic telephone exchange system in which the subscribers' lines are divided into groups, and presented by line and service contacts, to coupling devices composed of pairs of electrically operated couplers having sets of contact fingers selectively controlled and electrically associated at predetermined moments as described, the several pairs of associated couplers being located with regard to the groups of lines in the manner described, and in which there is connected with each subscribers' line an electro-magnetic multiple commutator designated a connector adapted to act as described, and in which there is combined with each group of lines a set of electro-magnetic apparatus (for use in common by all the lines of the group), comprising an electro-magnetically actuated rotary main distributor or multiple switch constructed and adapted to act as described, a main selector comprising electro-magnetically operated mechanisms, whose action is so co-ordinated as to complete one out of a number of selector

circuits, and a manipulator adapted to transmit through the selector circuit completed, local currents corresponding to the signals which it receives, and in which there is combined with each such circuit a double polarized receiver, two rotary distributors or multiple switches, and two different called line couplers (designated twin couplers) located at different coupling boards, and each provided with electro-magnetically operated actuating mechanism and with a contact fingers, selecting mechanism, the circuit connections of the double polarized receiver with the distributors and mechanisms of the twin couplers being such that the one or other will be actuated according to the polarity of the first current by which the polarized receiver is influenced; the combination with each of the twin-called line couplers controlled through the same selector circuit, of a calling line coupler; each of such two calling-line couplers (designated quasi-twins) being provided with electrically operated mechanism adapted to set the coupler in motion by a current transmitted to said mechanism through the distributor appertaining to the associated called line coupler, and through the line finger circuit of the associated couplers, each calling line coupler being also provided with electrically operated mechanisms adapted to arrest the motion of the coupler by the action of a current transmitted to such mechanism through the service-finger circuit of the calling-line coupler, on the completion of said circuit by a service finger of the calling-line coupler meeting a service wire which has been put to earth by the previous operation of the connector appertaining to the line to which such service wire belongs.

12. In an automatic telephone exchange system in which the subscribers' lines are divided into groups and presented by line and service contacts, to coupling devices composed of pairs of electrically operated couplers, having sets of contact fingers selectively controlled and electrically associated at predetermined moments as described, the several pairs of associated couplers being located with regard to the groups of lines in the manner described, and in which there is connected with each subscriber's line an electro-magnetic multiple commutator designated a connector adapted to act as described, and in which there is combined with each group of lines a set of electro-magnetic apparatus (for use in common by all the lines of the group) comprising an electro-magnetically actuated main distributor or multiple switch constructed and adapted to act as described; a main selector comprising electro-magnetically operated mechanisms, to each of which, in turn, the signals sent are switched by the main distributor, the action of the said mechanisms being so co-ordinated that their conjoint action will have for effect to complete one out of a number of selector circuits, and a manipulator formed of relays and batteries adapted to transmit through the selector circuit completed, local currents corresponding to the signals which the manipulator receives through the main distributor, and in which there is combined with each such circuit a double polarized receiver, two rotary distributors, and two called line couplers (designated twin couplers) located at different coupling boards, the circuit connections of the double polarized receiver with the distributors and mechanisms of the twin couplers being such that the one or other will be actuated according to the polarity of the first current, by which the polarized receiver is influenced, and in which there is combined with each of the twin-called line couplers controlled through the same selector circuit, a calling line coupler, each of such two calling-line couplers (designated quasi-twins) being adapted to be set in motion by a current transmitted to its mechanism through the distributor appertaining to the associated called line coupler, and through the line finger circuit of the associated couplers, such calling line coupler being also adapted to be arrested by the action of a current transmitted to its mechanism through the service finger of the calling-line coupler. The combination with the line connectors, and with the main distributor, main selector and manipulator common to the group, and with the mechanisms of the called line couplers (designated twins) that are controlled through the same selector circuit, of two return-to-rest distributors, each formed of a plurality of brushes electro-magnetically revolved over a plurality of sets of pairs of contacts, of which the circuit connections (with the mechanisms of the called line couplers with the connectors of the lines of the group, and with the main distributor, the main selector, and the manipulator common to the group) are such that the action of the one or other return-to-rest distributor will be dependent on the previous operation of the distributor of the twin called line coupler with which such return-to-rest distributor is associated and will have for effect to transmit local currents to the several mechanisms with which it is combined, whereby to return to initial position the line connector, main distributor, main selector, and manipulator, appertaining to the group.

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.

Claims:—

1. A bedstead bottom, mattress, or seat, constructed of a number of longitudinal and transverse stretched wires, each independent of one another and having coiled or helical springs at their end parts and supported within the frame by clips or clasps which engage the frame bars or engage holes or pins in or upon the frame, substantially as described and shewn.

2. A bedstead bottom, mattress, or seat constructed of a number of diagonally arranged stretched wires, each independent of one another and having coiled or helical springs at their end parts and supported within the frame by clips, clasps, or eyes engaging the frame bars or holes and pins in or upon the frame bars, substantially as described and shewn.

3. In a bedstead bottom, mattress, or seat, a wire as A, having a coiled or helical spring as A1 formed at both its ends and provided with a hook or eye as A2 for attachment to an eye hook on a clip or clasp as A3, designed for being attached to either the side or end bars of a bedstead, mattress, or seat frame, substantially as described and illustrated in Figs. 1 and 4 of the drawings.

4. In a bedstead bottom, mattress, or seat, a wire as A, having springs as A1 near its end and a clip or clasp as A3 at each end, all formed of one continuous length, said clips or clasps being designed to grip the side or end bars B of a bedstead, mattress, or seat, substantially as described and illustrated in Figs. 2 and 5 of the drawings.

5. In a bedstead bottom, mattress, or seat, a wire as A, having end springs as A1 and a clip or clasp at its ends, all made in one continuous length, said clips or clasps being either made as shown in Fig. 5 to grip an angle bar, or as shewn in Fig. 6 to engage a tubular bar or as shewn in Fig. 7, to engage holes as B1 in the angle bar, or as shewn in Fig. 8 to engage pins, or studs as B2 on the bars, or as shewn in Fig. 9 to engage a hole as B4 in the outer side of bars, substantially as herein described.

6. In a bedstead bottom, mattress, or seat, clips or clasps as A3, of any of the types described and shewn formed in one piece with a spring as A1, combined with the wire as A, having a hook or eye formed at each of its ends for attachment to said springs, substantially as herein described and shown in Fig. 13 of the drawings.

7. In a bedstead bottom, mattress, or seat, clips or clasps of either type shown in Figs. 4, 10, 11, 12, and 14 of the drawings, combined with wires as A having a spring as A1 and hook or eye connection, formed at each end, substantially as herein described.

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.

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. 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.

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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 33 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, Pittsburg, 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 SULLMAN), "*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, 1893.

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 the 'Hoichkiss' 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.

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. 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 "Edge-gate," 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, Wilkensburg, 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, Wilkensburg, 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.

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. 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.

*Patent Office, Perth,  
5th 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.

Application No. 2118.—WILLIAM AUGUSTUS HARDWICK, of York, Western Australia, Saddler, "*Improved Cushioned Horse Collar.*"—Dated 2nd July, 1898. (Specification, 2s. 6d.)

Application No. 2313.—EDWARD JOHN SWINY, of Perth, Western Australia, Miner, "*An improved Gold Saver and Ore Concentrator.*"—Dated 30th November, 1898. (Specification, 2s. 6d.)

Application No. 2420.—EDWARD WILLIAM MCKENNA, of 402 Jefferson Street, Milwaukee, United States of America, Manufacturer, "*Improvements in Method of and Machinery for Renewing old Steel Rails.*"—Dated 11th March, 1899. (Specification, 12s. 6d.)

Application No. 2421.—EDWARD WILLIAM MCKENNA, of 402 Jefferson Street, Milwaukee, United States of America, Manufacturer (Assignee of DAVID HOLLIDAY LENTZ), "*Improvements in Charging Machine.*"—Dated 11th March, 1899. (Specification, 12s. 6d.)

Application No. 2451.—JOHN WILLIAMSON, of Boulder, Western Australia, Condenser Proprietor, "*Improved Reducing and Amalgamating Appliance for recovering Gold from its Pug or Clay.*"—Dated 30th March, 1899. (Specification, 3s.)

Application No. 2454.—EDWARD LLOYD PEASE, of the Parkfield Works, Stockton-on-Tees, in the County of Durham, England, Engineer, "*Roofs and the like Structural Work.*"—Dated 30th March, 1899. (Specification, £1 10s.)

Application No. 2456.—ARTHUR ROYSE LYSAGHT, of 10 Bligh Street, Sydney, New South Wales, Wire Netting Manufacturer (Assignee of FRANCIS JOHN SHERBORNE), "*Improvements in Wire Netting Machines.*"—Dated 5th April, 1899. (Specification, 5s. 6d.)

Application No. 2457.—THOMAS MILLS, of Sandhurst, in the County of Berks., England, Gentleman, and ROBERT KILLOCH DONALD, of 42 Cadogan Street, Glasgow, Scotland, Engineer, "*Improvements in Apparatus for Pulverising Ores and other Materials.*"—Dated 5th April, 1899. (Specification, 3s. 6d.)

Application No. 2458.—JOHN FLETT WHYTE, of James Street, Northcote, Land Agent, and HUGH JAMES WHYTE, of 21 Victoria Street, Fitzroy, Sanitary Engineer, both in the Colony of Victoria, "*An improved Apparatus for the Generation, Purification, Storage, and Supply of Acetylene Gas.*"—Dated 5th April, 1899. (Specification, 8s.)

Application No. 2459.—LOUIS CARNEGIE AULDJO, of George Street, Sydney, New South Wales, Consulting Engineer, "*Improvements in Furnaces.*"—Dated 5th April, 1899. (Specification, 6s. 6d.)

Application No. 2460.—WILLIAM SHEARING, of Port Road, Carrandown, Manufacturer, and JOHN HARRIS JONES, of Glanton Street, West Hindmarsh, Commission Agent, both in the Province of South Australia, "*An improved Process for the Treatment of Ores.*"—Dated 5th April, 1899. (Specification, 3s.)

Application No. 2461.—WILLIAM SHEARING, of Port Road, Carrandown, Manufacturer, and JOHN HARRIS JONES, of Glanton Street, West Hindmarsh, Commission Agent, both in the Province of South Australia, "*An improved Furnace for the Treatment of Ores.*"—Dated 5th April, 1899. (Specification, 5s. 6d.)

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
28th April, 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. 2424.—ANTOINE LAVOIX, of 7 Rue Chateaudun, Paris, France, Engineer, "*An Improved Amalgamating Apparatus for extraction of precious Metals from Minerals.*"—Dated 14th March, 1899. (Specification, 8s. 6d.)

Application No. 2433.—THE PREISS ELECTRIC STORAGE COMPANY, LIMITED, of Cowra Chambers, Grenfell Street, Adelaide, South Australia

(Assignee of ALBERT PREISS). "*Improvements in Secondary Batteries.*"—Dated 21st March, 1899. (Specification, 6s.)

Application No. 2438.—GEORGE WESTINGHOUSE, of Pittsburg, Pennsylvania, United States of America, Manufacturer, "*Systems of Electric Traction.*"—Dated 23rd March, 1899. (Specification, 8s.)

Application No. 2439.—HARRY PHILLIPS DAVIS, of Pittsburg, Pennsylvania, United States of America, Electrical Engineer, and ALBERT SCHMID, of 239 Rue St. Honoré, Paris, France, Electrical Engineer, "*Improved methods of and means for controlling Electric Motors.*"—Dated 23rd March, 1899. (Specification, 10s.)

Application No. 2440.—GILBERT WRIGHT, of 409 Ross Avenue, Wilksburg, Pennsylvania, United States of America, Electrical Engineer, "*Improvements in Switches for Electric Circuits.*"—Dated 23rd March, 1899. (Specification, 2s. 6d.)

Application No. 2441.—BENJAMIN GARVER LAMME, of 230 Stratford Avenue, Pittsburg, Pennsylvania, United States of America, Electrical Engineer, "*Improvements in Systems of Electrical Distribution.*"—Dated 23rd March, 1899. (Specification, 2s.)

Application No. 2442.—BENJAMIN GARVER LAMME, of 230 Stratford Avenue, Pittsburg, Pennsylvania, United States of America, Electrical Engineer, "*Improvements relating to the Generation, Conversion, and Distribution of Electrical Energy.*"—Dated 23rd March, 1899. (Specification, 19s.)

Application No. 2445.—FRANCIS HAMEL HARVEY, of Hayle, Cornwall, England, Engineer, "*Improvements in Ore Stampers.*"—Dated 25th March, 1899. (Specification, 10s.)

Application No. 2447.—ARTHUR STEPHEN PLEWS, of 22 Sackville Street, Manchester, Merchant, and JAMES WESTHEAD WORSEY, of 137 Boundary Road, St. Helens, Metallurgical Chemist, both in the County of Lancaster, England, "*Improvements in Apparatus for the Treatment of Metallic Ores, Matte, and the like.*"—Dated 28th March, 1899. (Specification, 5s.)

Application No. 2448.—ARTHUR STEPHEN PLEWS, of 22 Sackville Street, Manchester, Merchant, and JAMES WESTHEAD WORSEY, of 137 Boundary Road, St. Helens, Metallurgical Chemist, both in the County of Lancaster, England, "*Improvements in Metallurgical Processes.*"—Dated 28th March, 1899. (Specification, 4s.)

MALCOLM A. C. FRASER,  
Registrar of Patents.

#### Trade Marks.

Patent Office, Perth,  
23rd June, 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.

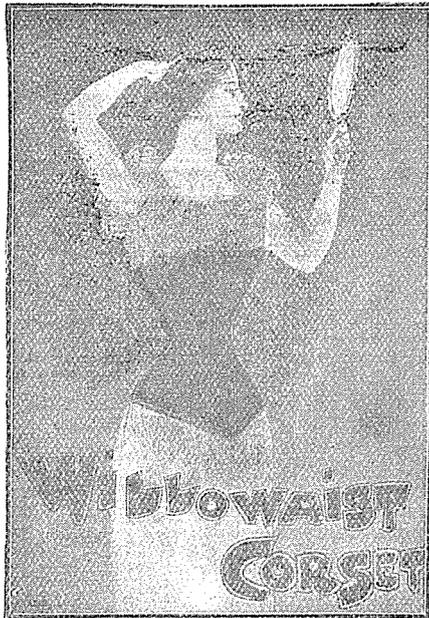
MALCOLM A. C. FRASER,  
Registrar of Designs and Trade Marks.

Applications Nos. 1446, 1447, 1448, and 1450, dated 27th June, 1898.—MONKWELL STREET WAREHOUSE COMPANY, of London, to register in Class 34, in respect of Cloths and Stuffs of Wool, Worsted, or Hair. Application No. 1447, to register in Class 31, in respect of Silk Piece Goods. Application No. 1448, to register in Class 24, in respect of Cotton Piece Goods of all kinds. Application No. 1450, to register in Class 38, in respect of Articles of Clothing, a Trade Mark, of which the following is a representation :—

## WILLOWAIST

This Mark was first advertised in the Western Australian *Government Gazette* of the 28th April, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1449, dated 27th June, 1898.—MONKWELL STREET WAREHOUSE COMPANY, of London, to register in Class 38, in respect of Articles of Clothing, a Trade Mark, of which the following is a representation :—



The essential particulars of the Mark are—(1) The device ; and (2) the fancy or invented word "Willowaist," and the exclusive use of the added word is disclaimed.

This Mark was first advertised in the Western Australian *Government Gazette* of the 28th April, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1619, dated 22nd April, 1899.—THE PERFECT COFFEE COMPANY, LIMITED, of 9 Arundel Street, Strand, London, Manufacturers of Liquid Coffee, 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 :—

## RÉVEILLE

This Mark was first advertised in the Western Australian *Government Gazette* of the 28th April, 1899—*vide* notice at head of Trade Mark advertisements.

Application No. 1604, dated 15th March, 1899.—CHARLES WHITE, Barker Road, Subiaco, Boot Manufacturer, to register in Class 38, in respect of Boots and Shoes, a Trade Mark, of which the following is a representation :—

## LION.

This Mark was first advertised in the Western Australian *Government Gazette* of 5th May, 1899—*vide* notice at head of Trade Mark advertisements.

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 :—

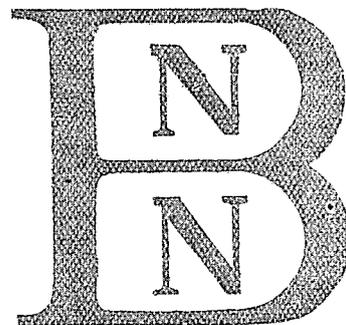
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**WELLINGTON**

*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.

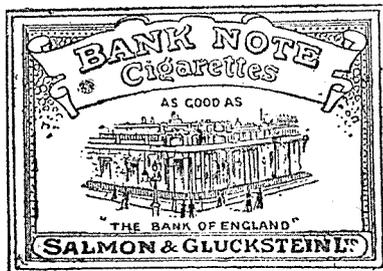
Applications Nos. 1635 and 1636, dated 9th May, 1899.—NETTLEFOLDS, LIMITED, of 16 Broad Street, Birmingham, Warwickshire, and 2 Fen Court, Fenchurch Street, London, E.C., England, Screw Manufacturers, Iron Masters, and Wire Drawers, to register in Class 13, in respect of Metal Goods not included in other 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 :—

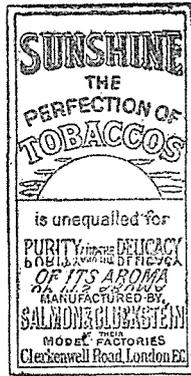


The essential particulars of the Trade Mark are the following :—The combination of devices and the word "Puck," and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name.

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,

tured, 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.

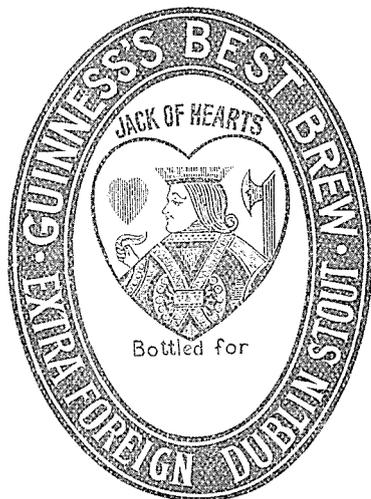
This Mark was first advertised in the Western Australian Government Gazette of 19th May, 1899—vide notice at head of Trade Mark advertisements.

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. & WINGH, 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:—



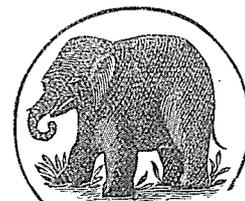
This Mark was first advertised in the Western Australian Government Gazette of the 26th May, 1899—vide notice at head of Trade Mark advertisements.

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:—

**A R G U S .**

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,

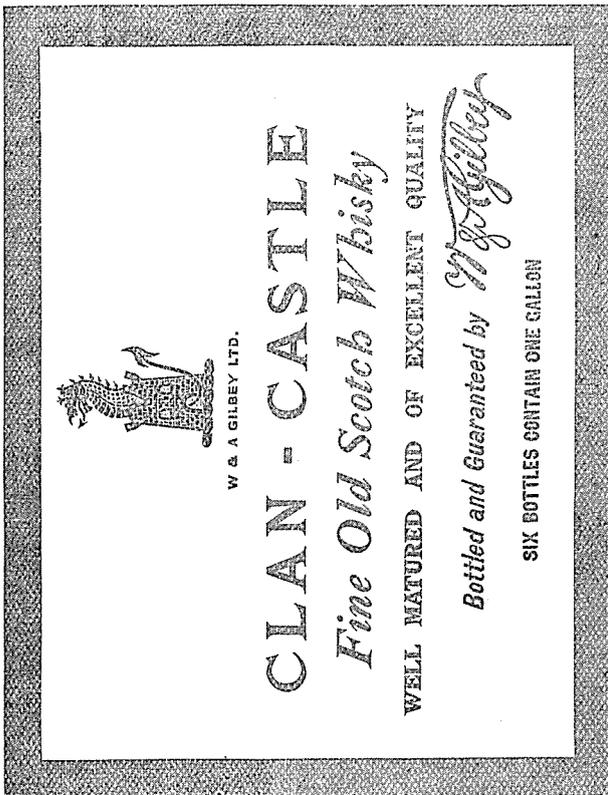
and other Road Vehicles, including Motor Cars, a Trade Mark, of which the following is a representation:—



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.

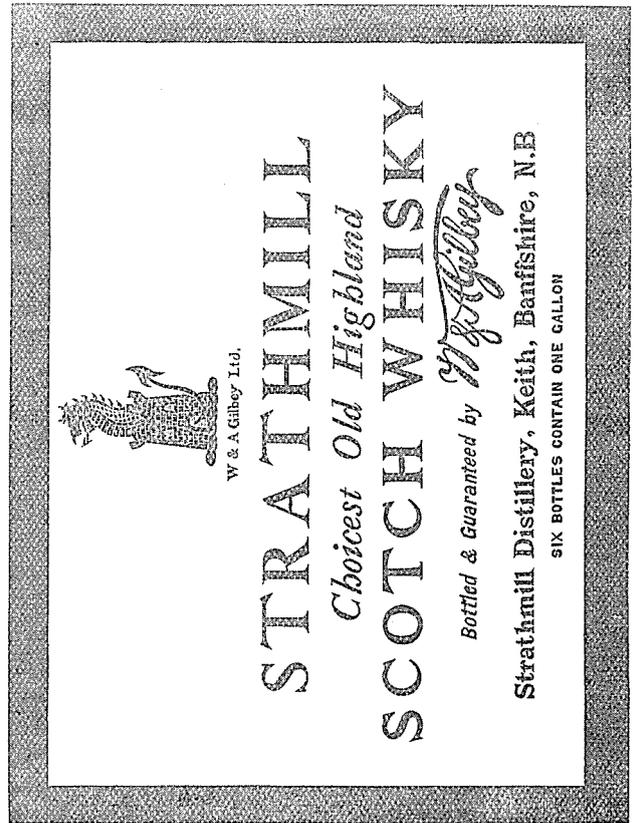
Application No. 1566, dated 23rd December, 1898.—W. & A. GILBEY, LTD., Pantheon, Oxford Street, London, England, Wine and Spirit Merchants and Distillers, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation:—



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.

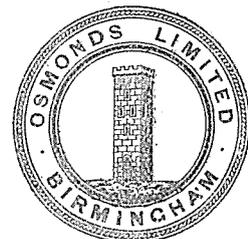
This Mark was first advertised in the Western Australian Government Gazette of the 2nd June, 1899—vide notice at head of Trade Mark advertisements.

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:—



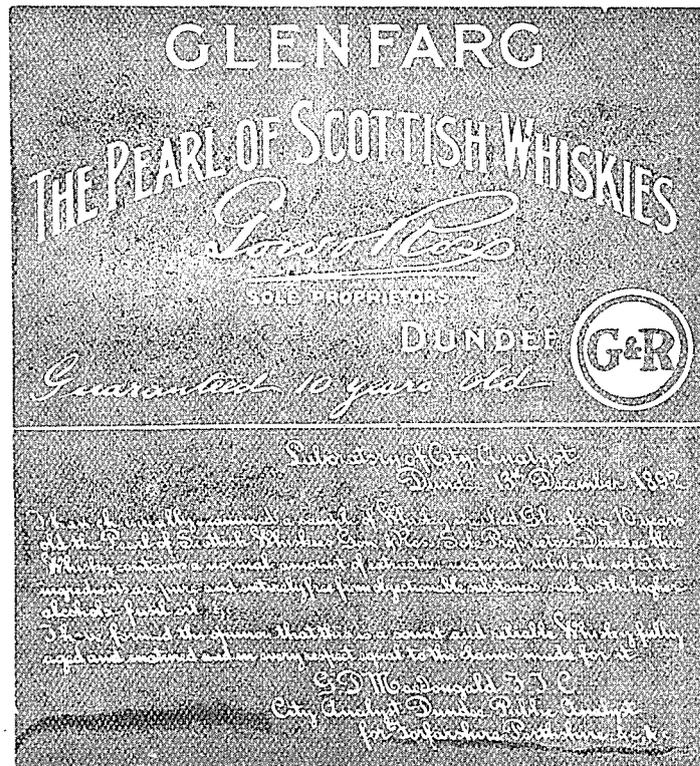
This Mark was first advertised in the Western Australian Government Gazette of the 9th June, 1899—vide notice at head of Trade Mark advertisements.

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:—



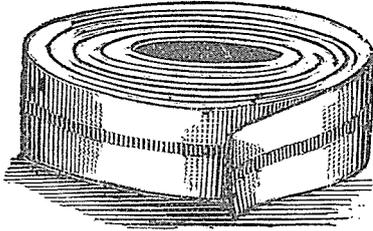
The essential particular of the Trade Mark is the device of an Anchor, and the applicants disclaim any right to the exclusive use of the added matter, except in so far as it consists of their own name.

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.

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.