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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,  
10th May, 1901.

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. 3317.—MICHAEL IDVORSKY PUPIN, of 280 North Broadway, Yonkers, New York, United States, America, Adjunct Professor of Mechanics, Columbia University, "*Art of Reducing Attenuation of Electrical Waves, and apparatus therefor.*"—Dated 26th February, 1901.

### Claims:—

1. The method of diminishing the attenuation constant of a uniform wave-conductor which consists in increasing the inductance of the conductor sufficiently to secure the required diminution of the attenuation constant, by distributing along it inductance sources at periodically recurring points, the distance between consecutive points being such as to preserve approximately its character as a uniform conductor with respect to the waves to be transmitted, substantially as described.
2. In a system of electrical wave transmission a non-uniform wave-conductor consisting of a conductor having reactance sources distributed at points along its length in such manner that the resulting wave-conductor is equivalent, within proper limits, to its corresponding uniform conductor, but of increased effective inductance, substantially as described.
3. In a system of electrical wave transmission, a non-uniform wave-conductor consisting of a uniform conductor, along which reactance sources are distributed, the total reactance and the distance between the reactance sources being determined by the wave lengths to be transmitted, and by the required degree of approximation to a uniform wave-conductor, substantially as described.
4. In a system of electrical wave transmission, a non-uniform wave-conductor consisting of a uniform conductor and inductance coils in series in it at periodically recurring points, the inductance, resistance, and capacity of the interposed inductance coils being adjusted in such a way as to give, with the inductance, resistance and capacity of the uniform conductor, a predetermined inductance resistance and capacity per unit length, and the distance between the interposed coils being adjusted in such a way as to equal a fractional part of one-half of the shortest wave-length which is to be transmitted, substantially as described.
5. In a system of wave-conductors, the combination of a telephonic transmitter and a telephonic receiver, a non-uniform wave conductor consisting of a uniform conductor and inductance coils in series therein at periodically recurring points, the inductance, resistance and capacity of the interposed inductance coils being adjusted in such a way as to give to the resulting conductor a predetermined inductance, resistance and capacity per unit length, and the distance between the interposed coils being adjusted in such a way as to be equal to a fractional part of one-half of the wave length corresponding to the highest frequency essential to the transmission of speech, substantially as described.

6. A wave-conductor consisting of a uniform conductor and inductance sources interposed in series therein at periodically recurring points, substantially as described.

7. A wave-conductor consisting of a uniform conductor having inductance coils, interposed therein in series at uniformly recurring points, substantially as described.

8. In a system of electrical wave transmission, a non-uniform wave conductor consisting of a uniform conductor and inductance coils in series with it at periodically recurring points, the inductance, resistance and capacity of the interposed inductance coils being adjusted in such a way as to give with the inductance, resistance and capacity of the uniform conductor a predetermined inductance, resistance and capacity per unit length which is fixed by the required value of the attenuation constant and the distance between the interposed coils being adjusted in such a way as to be equal approximately to one-sixteenth part of the shortest wave length which is to be transmitted, rendering thus the non-uniform conductor approximately equivalent to its corresponding uniform conductor, the degree of approximation being such that for the highest frequency which is to be employed and for all lower frequencies the wave-length and the attenuation constant on the non-uniform conductor will differ by less than one per cent. from the wave-length and the attenuation constant on the corresponding uniform conductor.

Specification, £1 12s. 6d. Drawings on application.

Application No. 3318.—ALFRED BRAKE, of Wellington, New Zealand, "*Apparatus for measuring and delivering Liquids.*"—Dated 26th February, 1901.

### Claims:—

1. In apparatus for drawing off or delivering liquids either at high or low pressure or by gravitation an intermediate or measuring chamber having an inlet and outlet opening at the top and an outlet opening at the bottom and having an upward and downward movement.
2. In an apparatus for drawing off or delivering liquids either at high or low pressure or by gravitation an intermediate chamber having an inlet and outlet at the top and having an outlet opening at the bottom in combination with a central rod having a valve at each end operated by the perpendicular movement of the chamber.
3. In an apparatus for drawing or delivering liquids either at high or low pressure or by gravitation an intermediate chamber having an inlet and outlet opening at the top and an outlet at the bottom in combination with a rod having a valve at its lower end within said chamber attached in a supplying vessel or tube, operated by the perpendicular movement of the chamber substantially as herein described and explained and as shown in the accompanying drawings.
4. In apparatus for measuring and delivering liquids, or either, a storage vessel sealed against the air at the top, being a partial vacuum, having a valve in the outlet at the bottom in combination with a measuring chamber having an upward and downward movement.

Specification, 10s. Drawings on application.

Application No. 3319.—HENRY DUNN, of Wattle Street, Bendigo, Victoria, Mechanical Engineer, "*Improvements in Discs for the Shanks of Stampers for crushing Quartz and the like.*"—Dated 26th February, 1901.

### Claims:—

1. In combination with a stamper shank for the purposes set forth, a double cone, in sections, adapted to fit tightly against said shank substantially as described.
2. In combination with a stamper shank for the purposes set forth, a double cone in sections adapted to fit tightly against said shank by means of screw threading substantially as set forth.
3. In combination with a stamper shank for the purposes set forth, a double cone in sections adapted to fit tightly against said shank, and an upper and a lower internally coned face, for closing the sections of the double cone tightly on the stamper shank substantially as and for the purposes set forth.

4. In combination with a stamper shank for the purposes set forth, a double cone in sections adapted to fit tightly against said shank, an upper and a lower face fitted respectively upon the small ends of the double cone and bolts and nuts or like means for drawing said faces together, the whole forming a disc, all substantially as and for the purposes set forth.

5. In discs for the shanks of stampers, a face or ring constructed substantially as shown in Figures 2 and 3 of the drawings, and for the purposes set forth.

6. In discs for the shanks of stampers, a double cone section constructed substantially as shown in Figures 4 and 5 of the drawings, and for the purposes set forth.

7. In discs for the shanks of stampers, the combination of all the hereinbefore described parts marked A to L in the drawings substantially as set forth.

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

Application No. 3322.—JOSEPH HENDERSON CAMPBELL, of Hotel St. George, Brooklyn, New York, Chemist, and CHARLES HENDERSON CAMPBELL, of Oak Lane, Philadelphia, Pennsylvania, Manufacturer, both in the United States of America, "*Improved Condensed or Desiccated Milk, and process and apparatus for preparing the same.*"—Dated 27th February, 1901.

The claims, numbering 20, can be inspected at the Patent Office. Specification, £1 6s. Drawings on application.

Application No. 3323.—FRANCIS JOSEPH RILEY, of Kalgoorlie, W.A., Metallurgist, "*An apparatus for Precipitation and Amalgamation of Gold and Silver from Cyanide Solutions as contained in Slimes.*"—Dated 28th February, 1901.

Claims:—

1. An apparatus being in construction two circular connecting vessels in the shape of an inverted frustum of a cone, the connecting orifice of which can be regulated by means of an adjustable screw as in Fig. 3, Section Plan.

2. An apparatus being in construction two circular connecting vessels in the shape of an inverted frustum of a cone having a serial arrangement, giving a sub-division of the liquid or cyanide solution flowing through it, increasing the duration of precipitation stage as in Fig. 4 of Section Plan.

3. An apparatus being in construction two circular connecting vessels in the shape of an inverted frustum of a cone, having a serial arrangement of rings and tubing for conveying hydrogen gas under pressure to the cyanide solution while flowing through the apparatus as K in Fig. 4, Section Plans.

Specification, 5s. Drawings on application.

Application No. 3326.—THE EMPIRE CASH REGISTER, LIMITED, of London, England (assignee of NORMAN COLLINS), "*Improvements in Cash Registering Machines.*"—Dated 28th February, 1901.

The claims, numbering 27, can be inspected at the Patent Office. Specification, £3 10s. Drawings on application.

Application No. 3330.—JOSEPH WILLIAMS, jun., of Pittsburg, Allegheny, Pennsylvania, U.S.A., "*Improvements in Gas Engines.*"—Dated 7th March, 1901.

Claims:—

1. A four cycle explosion engine comprising four cylinders in line provided with piston rigidly connected, and also provided with valves and igniting devices so operated and timed that the four separate steps of suction, compression, explosion and exhaust take place successively in each cylinder whereby the engine receives an impulse with every stroke, substantially as set forth.

2. A four cycle explosion engine consisting of a main frame provided with oppositely disposed inner cylinders and an intervening crank chamber, supplemental outer cylinders beyond the inner cylinders, such cylinders being provided with valves and igniting devices and means whereby such valves are operated so that these four separate steps of suction, compression, explosion and exhaust take place successively, and a series of rigidly connected pistons mounted in the cylinders with a connecting rod secured to the crank and to such pistons structure, substantially as set forth.

3. A four cycle explosion engine consisting of a main frame provided with oppositely disposed inner cylinders, an intervening crank chamber, supplemental outer cylinder beyond the inner cylinders, pistons mounted in the inner cylinders having intervening rigid connections with clearance spaces for the shaft, crank and connecting rod, a connecting rod secured to one of the inner pistons and to the crank of the inner pistons mounted on the outer cylinders on rods secured to the inner piston, and valves igniting devices so operated and timed that the four separate steps of suction, compression, explosion and exhaust take place successively in each cylinder whereby the engine receives an impulse with every stroke, substantially as set forth.

4. A four cycle explosion engine comprising four cylinders in line, a rigidly connected piston structure provided with pistons heads adapted to operate in the cylinders, internal telescoping water supply pipes for cooling the piston rods, governor controlled gas and air mixing valves with conduits leading to the cylinders valves and cylinder valves provided with ports adapted to communicate with the interior of the cylinders and with inlet and outlet ports respectively.

5. A four cycle explosion engine comprising four cylinders in line, rigidly connected piston structure provided with piston heads adapted to operate in the cylinders, internal telescoping water supply pipes for cooling the piston rods, governor, controlled gas and air mixing valves with conduits leading to the cylinder valves cylinder valves provided with ports adapted to communicate with the interior of the cylinders and with inlet and outer ports respectively, and exhaust conduits communicating with the cylinder valves and with a muffler chamber in the base on the engine provided with an exhaust chamber.

6. In a gas engine, a gas and air mixing valve consisting of an outer shell, gas and air supply openings therein, a rotating valve provided with gas and air ports and a common opening leading into the mixture conduit, and intervening ring provided with gas and air ports respectively adapted to communicate with the gas and air openings of the valve shell and with the ports of the rotating valve.

7. In a gas engine, a gas and air mixing valve consisting of an outer shell, gas and air supply openings therein, a rotating valve provided with gas and air ports and a common opening provided with gas and air ports respectively adapted to communicate with the gas and air openings of the valve shell and with means for adjusting them independently to control the flow of the gas and air to the rotating valve.

8. In a gas engine, the combination of a speed controlled governor, a gas and air mixing valve consisting of an outer shell, gas and air supply opening therein, a rotating valve connected with and adapted to be operated by the governor provided with gas and air ports and a common opening leading into a mixture conduit, intervening adjustable rings provided with ports adapted to register with the gas and air openings of the valve shell and with the ports of the rotating valve, and cylinder valves in communication with the mixture conduit, the cylinders and exhaust conduits.

9. In a gas engine provided with a plurality of cylinders in line and valves adapted to control the admission of the explosion mixture to the cylinders and the exhaust therefrom, and having a closed chamber in the base of the engine with a conduit leading therefrom, exhaust conduits leading from the cylinder valves to the closed chamber.

10. In a gas engine, a multiple piston structure comprising two inner piston heads rigidly connected, and two supplemental piston heads, one beyond each of the inner piston heads mounted on extended hollow piston rods secured to and projecting outwardly from the inner piston heads, and inner pipes telescoping within the hollow piston rods adapted to furnish water there through and to the interior from a stationary source of supply.

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

Application No. 3336.—THOMAS COLE and WILLIAM LAWES COLE, of St. Ann's Road, Burdett Road, Bow, London, England, "*Improvements connected with apparatus for providing Cold Air for Refrigerating and like purposes.*"—Dated 14th March, 1901.

Claims:—

1. The improvements connected with apparatus for producing cold air for refrigerating and like purposes, herein described and set forth, whereby the compressed cold air is caused to travel between fins or ribs, arranged around the expansion cylinder and thereby be deprived of its moisture and cooled so that it enters the expansion cylinder in a perfectly dry and cold condition, as set forth.

2. In connection with apparatus for producing cold air for refrigerating and like purposes, providing fins, ribs, or the like between the outer side of the expansion cylinder and its jacket, and placing therein division plates for directing the travel of compressed air around the cylinder in the same or different directions, substantially as set forth.

3. In connection with apparatus for producing cold air for refrigerating and like purposes, the combination with a jacketed expansion cylinder having fins, ribs, or the like for affording a greater surface for the air to deposit its moisture, and conducting the air around the cylinder in the same or different directions of a base or bed having holed partitions therein corresponding to the partitions around the expansion cylinder, whereby the compressed air is caused to travel through such partitioned box or casing as well as around the expansion cylinder, the deposited moisture on the fins or ribs trickling down into the box or casing to be there passed to outside through a water seal and valve, substantially as set forth.

4. In connection with apparatus for producing cold air for refrigerating and like purposes the combination with an expansion cylinder B of jacket C enclosing fins or ribs E, partitions H and G, the whole or portion of the pipe or pipes D, bed or casing I having sloping bottom O, valve arrangement Q, holed partitions G<sup>1</sup>, H<sup>1</sup>, for causing the compressed air to travel circuitously around the cylinder B and deposit its moisture upon the fins and cylinder walls in its travel so as to enter the expansion cylinder in a dry cold manner, substantially as set forth.

5. In an apparatus for producing cold air for refrigerating purposes and the like, an air compressor, an air cooling device in communication therewith, a ribbed expansion cylinder, a casing in communication therewith, a jacket surrounding the expansion cylinder partitions in said casing for causing the air to travel circuitously around said expansion cylinder within said jacket and deposit its moisture upon said ribs, means in said casing for collecting said moisture, a valve mechanism for admitting air to the expansion cylinder, and connections between the latter and a suitable reservoir.

6. In an apparatus for producing cold air for refrigerating purposes and the like, an air compressor, an air cooling device in communication therewith, a casing, a valve mechanism for admitting air to said casing, an expansion cylinder, a jacket surrounding same, a moisture collecting means interposed between said expansion cylinder and said jacket, partitions in said casing for causing the air to travel around said expansion cylinder and to deposit its moisture upon said collecting means, a sloping bottom in said casing for receiving said moisture from said means, a valve mechanism for admitting air to said expansion cylinder, and a reservoir in communication with said expansion cylinder.

Specification, 16s. Drawings on application.

Application No. 3338.—EDWARD CLARENCE PARAMORE, of 111 Queen Street, Germantown, Pennsylvania, U.S.A., Electrical Engineer, "*Improved method of, and apparatus for, Generating, Treating, and Utilising Chlorine Gas.*"—Dated 16th March, 1901.

Claims:—

1. In an apparatus for treating chlorine gas, an electric chamber consisting of a gas-way tube, housings connected to said tube, dielectric bulbs containing electrodes contained in said housings in combination with a chlorine generator connected to said gas-way tube, a pump connected to the apparatus, an induction coil, and electrical connections between said induction coil and electrodes.

2. In an apparatus for treating chlorine gas, an electric chamber consisting of a gas-way tube, housings connected to said tube, dielectric bulbs containing electrodes, said bulbs extending through the housings and into the gas-way tube in combination with a chlorine generator and a receiver, both connected to said gas-way tube, a pump connected to the receiver, an induction coil, and electrical connections between said induction coil and electrodes.

3. In an apparatus for treating chlorine gas, the combination of a chlorine generator, a gas-way tube connected to said generator, a receiver also connected to said gas-way tube, dielectric bulbs containing electrodes, housings for said bulbs, said bulbs extending into the gas-way tube, an induction coil electrically connected to said electrodes, and a pump connected to said apparatus, substantially as described.

4. In an apparatus for treating chlorine gas, the combination of a chlorine generator, an electric chamber, a receiver and a pump connected thereto, said electric chamber consisting of a gas-way tube connected at its ends to the generator and to the receiver, housings connected to the gas-way tube, dielectric bulbs in the housings, electrodes in the bulbs, and an induction coil electrically connected to the electrodes, the space between the bulbs and housings forming a trap for condensed acid, substantially as described.

5. The art of treating chlorine gas which consists in first setting up an apparatus consisting of a chlorine generator and an electric chamber and expelling all the air from said apparatus; second, generating gas in said generator; third, passing said gas into said electric chamber; and fourth, electrifying said gas in said chamber, substantially as described.

6. The art of treating and utilising chlorine gas, which consists in first expelling the air from a chlorine generator; second, generating gas in said generator; third, drawing said gas into an electric chamber; fourth, electrifying said gas in said chamber, and fifth, forcing the treated gas back and forth through the material to be treated, substantially as described.

7. A new product consisting of freshly generated chlorine gas which has been electrified without the admixture of atmospheric air, substantially as described.

Specification, 8s. Drawings on application.

Application No. 3339.—SOLAR MOTOR COMPANY, of Boston, Massachusetts, U.S.A., Manufacturers (Assignee of AUBREY GEORGE ENEAS), "*Improvements in Solar Generators.*"—Dated 19th March, 1901.

The claims, numbering 16, can be inspected at the Patent Office.

Specification, £1 7s. Drawings on application.

Application No. 3340.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patents Agent (*Norman Wilson Storer*), "*Improvements in Systems of Electrical Distribution.*"—Dated 20th March, 1901.

Claim:—

In a system of electrical distribution, comprising a main and branch circuit with three dynamos having their armatures mechanically coupled and arranged to automatically maintain the electro-motive force of the branch circuit constant, the addition on the field magnet of the third machine which supplies current direct to the branch circuit of a series winding which compensates for the variation in the drop in volts due to the armature resistance of said machine when variations of load occur in the branch circuit, substantially as described.

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

Application No. 3341.—THE MINE AND SMELTER SUPPLY COMPANY, of Denver, Colorado, U.S.A. (Assignee of LAFAYETTE DURKEE), "*Motor operated Drilling Engine.*"—Dated 21st March, 1901.

The claims, numbering 24, can be inspected at the Patent Office.

Specification, £2 11s. Drawings on application.

Application No. 3347.—JOSHUA BROTHERS PROPRIETARY, LIMITED, of William Street, Melbourne, Victoria, Distillers (assignee of HAROLD BREIDAHN), "*An improved method of accelerating the maturing of Whisky, Brandy, and other strongly spirituous liquors.*"—Dated 26th March, 1901.

Claims:—

1. An improved method of accelerating the maturing of whisky, brandy, and other strongly spirituous liquors consisting in subjecting same in wooden casks or vats to the action of a moist heat substantially as herein described and explained.

2. An improved method of accelerating the maturing of whisky, brandy, and other strongly spirituous liquors, consisting in storing same in a vault or chamber in wooden casks or vats in a warm atmosphere, saturated or partly saturated with moisture substantially as herein described and explained.

Specification, 4s.

Application No. 3352.—THE AMERICAN TOBACCO COMPANY of New York, U.S.A. (assignee of ROBERT ALLISON HALL), "*Improvements in Can-closing Apparatus.*"—Dated 28th March, 1901.

Claims:—

1. The combination with a receiver, of an exhaust mechanism, means for supporting a can in the receiver, a seaming mechanism, and means for subjecting the can to the action of the seaming mechanism while in the receiver, substantially as described.

2. The combination with a receiver, of a constantly acting exhaust mechanism, means for supporting a can in the receiver, a seaming mechanism, and means for subjecting the can to the action of the seaming mechanism while in the receiver, substantially as described.

3. The combination with a vacuum chamber, of a cover therefor, means for supporting a can in the chamber, a constantly acting exhaust mechanism connected with the chamber, a can-closing mechanism, and means for subjecting the can to the action of the can-closing mechanism, substantially as described.

4. The combination with a vacuum chamber, of a cover therefor, means for supporting a can in the chamber, a constantly acting exhaust mechanism connected with the chamber, a seaming mechanism, and means for subjecting the can to the action of the seaming mechanism, substantially as described.

5. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a cover for the chamber, a can support carried by the cover, a can-closing mechanism, and means for subjecting the can to the action of the closing mechanism, substantially as described.

6. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a cover for the chamber, a can support carried by the cover, a seaming mechanism, and means for subjecting the can to the action of the seaming mechanism, substantially as described.

7. The combination with a vacuum chamber, of a cover therefor, means for supporting a can in the chamber, a constantly acting exhaust mechanism connected with the chamber, a seaming mechanism, means for subjecting the can to the action of the seaming mechanism, and means independent of the movement of the cover for relieving the vacuum in the chamber, substantially as described.

8. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a cover for the chamber, a can support carried by the cover, a can-closing mechanism, means for subjecting the can to the action of the can-closing mechanism, and means independent of the movement of the cover for relieving the vacuum in the chamber, substantially as described.

9. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a cover for the chamber, a can support carried by the cover, a seaming mechanism, means for subjecting the can to the action of the seaming mechanism, and means independent of the movement of the cover for relieving the vacuum in the chamber, substantially as described.

10. The combination with a vacuum chamber, of an exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating therewith, a cover for the chamber, and a can support rotatably mounted in the cover, substantially as described.

11. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating therewith, a cover for the chamber, and a can support rotatably mounted in the cover, substantially as described.

12. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating therewith, a cover for the chamber, a can support rotatably mounted in the cover, and means independent of the movement of the cover for relieving the vacuum in the chamber, substantially as described.

13. The combination with a vacuum chamber, of an exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating with the chuck, a cover for the chamber, a can support rotatably mounted in the cover, means for moving the cover to close the vacuum chamber, and means for giving the can support a movement independent of the cover to bring the can against the chuck, substantially as described.

14. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating with the chuck, a cover for the chamber, a can support rotatably mounted in the cover, means for moving the cover to close the vacuum chamber, and means for giving the can support a movement independent of the cover to bring the can against the chuck, substantially as described.

15. The combination with a vacuum chamber, of a constantly acting exhaust mechanism connected therewith, a chuck mounted in the chamber, means for rotating the chuck, a seaming tool co-operating with the chuck, a cover for the chamber, a can support rotatably mounted in the cover, means for moving the cover to close the vacuum chamber, means for giving the can support a movement independent of the cover to bring the can against the chuck, and means independent of the movement of the cover for relieving the vacuum in the chamber, substantially as described.

16. The combination with a vacuum chamber, of a chuck mounted therein, means for rotating the chuck, a seaming tool co-operating with the chuck, a cover for the chamber, a plunger on which the cover is carried, a spring interposed between the plunger and the cover, a rotating can support mounted in the cover, and means whereby the plunger is caused to move the can support, substantially as described.

17. The combination with a receiver, of an exhaust mechanism connected therewith, a chuck mounted in the receiver, a seaming tool movably mounted in the receiver, means for moving the seaming tool so as to cause the seaming mechanism to act upon the can, a valve in the receiver, and means whereby the seaming tool is caused to open the valve to relieve the vacuum in the receiver, substantially as described.

18. The combination with a receiver, of a constantly acting exhaust mechanism connected therewith, a chuck mounted in the receiver, a seaming tool movably mounted in the receiver, means for supporting a can in the receiver, means for moving the seaming tool so as to cause the seaming mechanism to act upon the can, a valve in the receiver, and means whereby the seaming tool is caused to open the valve to relieve the vacuum in the receiver, substantially as described.

19. The combination with a vacuum chamber, of a chuck mounted therein, a movably mounted seaming tool co-operating with the chuck, a cover for the chamber, a can support carried by the cover, a relief valve in the chamber, and means whereby the seaming tool operates the relief valve, substantially as described.

20. The combination with a receiver, of an exhaust mechanism connected therewith, a chuck mounted in the receiver, an arm mounted in the receiver, a seaming tool carried by the arm, a lever for operating the arm, a relief valve in the receiver, and means whereby the arm opens the relief valve, substantially as described.

21. The combination with a receiver, of an exhaust mechanism connected therewith, a chuck mounted in the receiver, an arm mounted in the receiver, a seaming tool carried by the arm, a lever for operating the arm, a relief valve in the receiver, means whereby the arm opens the relief valve, and stops for controlling the movement of the lever, substantially as described.

Specification, 10s. Drawings on application

Application No. 3357.—FRED. FORD DOW, Mechanician, of Fredericton, New Brunswick, Canada, "*Tree-Felling Machine.*"—Dated 10th April, 1901.

Claims:—

1. The improved tree-felling machine, comprising, essentially, the cylindrical cutter of small diameter, the portable support having bearings in which the journals of the cutter may rotate and by means of which the cutter may be presented and manipulated for the purpose of cutting, and the means for rotating the said cutter, substantially as described.

2. The improved tree-felling machine, comprising, essentially, the cylindrical cutter of small diameter, the portable support having bearings for the journals of said cutter and by means of which the cutter may be presented and manipulated for the purpose of cutting, the rotary motor, and the flexible shafting interposed between the said motor and said cutter, substantially as described.

3. The improved tree-felling machine, comprising, essentially, the splined shaft, the series of toothed rings of small diameter fitting said shaft and strung thereon side by side, with the teeth of successive rings out of alignment, the portable support having bearings for the journals of the said shaft and by means of which the cutting arrangement is presented and manipulated for the purpose of cutting, and the means to rotate the said shaft, substantially as described.

Specification, 5s. Drawings on application.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
3rd May, 1901.

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. 18, 3rd May, 1901.*

Application No. 3191.—MEPHAN FERGUSON, of the Olderfleet, Collins Street, Melbourne, in the State of Victoria, Engineer, "*An improved Axle for Jinkers and other heavy-wheeled vehicles.*"—Dated 13th November, 1900.

Specification, 3s. Drawings on application.

Application No. 3311.—JAMES TAIT WILLIAMS, of 65 Gover Street, North Adelaide, South Australia, Electrician, "*Improvements in Mechanism for Sounding Bells.*"—Dated 19th February, 1901.

Specification, 6s. Drawings on application.

Application No. 3312.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patents Agent (*Benjamin Garver Lamme*), "*Improvements in Systems of Electrical Distribution.*"—Dated 22nd February, 1901.

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

Application No. 3313.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patents Agent (*Benjamin Garver Lamme*), "*Improvements in Systems of Electrical Distribution.*"—Dated 22nd February, 1901.

Specification, 4s. 6d. Drawings on application.

Application No. 3314.—CHARLES GABRIEL SUDRE, Mining Engineer, of 12 Boulevard St. Marcel, and CHARLES VICTOR THIERRY, Consulting Engineer, of 11 Rue Meynadier, both in Paris, France, "*Improvements in the Treatment of Oxides of Metals or Metalloids, or compounds of same, for obtaining new products therefrom.*"—Dated 22nd February, 1901.

Specification, 18s. Drawings on application.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
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For particulars of claims, vide *Gazette No. 16, 19th April, 1901.*

Application No. 3316.—JOHN ANSCHAU, of Glen Innes, New South Wales, Postmaster, "*An improved Sealed Buckle.*"—Dated 26th February, 1901.

Specification, 5s. Drawings on application.

Application No. 3320.—HENRY GLADE, of 4 Delbridge Street, North Fitzroy, Victoria, Mechanical Draftsman, "*A new or improved Velocipede.*"—Dated 26th February, 1901.

Specification, 14s. Drawings on application.

Application No. 3321.—A. G. JACKSON, of Brisbane, Queensland, Electrician, "*An improved Attachment for Bicycles, for securing thereto Rifles, Sporting Guns, and other Articles.*"—Dated 26th February, 1901.

Specification, 3s. Drawings on application.

Application No. 3324.—THE AMERICAN TOBACCO COMPANY, of New York, United States of America (Assignee of RUFUS LENOIR PATTERSON), "*Improvements in Containing Vessels.*"—Dated 28th February, 1901.

Specification, 9s. Drawings on application.

Application No. 3331.—HENRY D. PERKY, Manufacturer, of Niagara Falls, New York, United States of America, "*Improvements in and relating to Machines for making Biscuits and other articles.*"—Dated 11th March, 1901.

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

Application No. 3332.—DARLING'S PATENT AUTOMATIC COUPLING, LIMITED, of Glasgow, Scotland (assignee of JOHN DARLING), "*Improvements in automatically coupling and uncoupling Railway Carriages, Waggon, and similar vehicles.*"—Dated 12th March, 1901.

Specification, 6s. Drawings on application.

Application No. 3333.—BIRGER LJUNGSTROM, of 18 Grefmagnigatan, Stockholm, Sweden, Engineer, "*Improvements in or relating to the Endless Curved Tracks of Balanced Rotary Steam Engines.*"—Dated 12th March, 1901.

Specification, 16s. Drawings on application.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
12th April, 1901.

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. 15, 12th April, 1900.

Application No. 3325.—RICHARD SPARROW, of Perth, Western Australia, Licensed Patents Agent (*The British Motor Traction Company, Limited*), "*Improvements in or relating to Railway Cars propelled by Explosion Engines or the like.*"—Dated 28th February, 1901.

Specification, 10s. Drawings on application.

Application No. 3328.—JAMES ROBERTSON, of the Belleisle Cabinet Works, Belleisle Street, Govanhill, in the City and County of the City of Glasgow, North Britain, Cabinet Maker, "*Improvements in and relating to Domestic and other Furniture.*"—Dated 5th March, 1901.

Specification, 20s. Drawings on application.

Application No. 3329.—JAMES WEBSTER, of 8, 10, and 12 Market Street, Melbourne, in the State of Victoria, Merchant, "*An Improvement in Tins or Cans to facilitate the opening thereof.*"—Dated 5th March, 1901.

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

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
5th April, 1901.

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. 14, 5th April, 1901.

Application No. 3291.—GEORGE GREGORY SMITH, of San Domenico, Florence, Italy, Lawyer, "*Acetylene Gas Generator.*"—Dated 29th January, 1901.

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

Application No. 3292.—REGINALD DAVIDSON, of Southern Cross, Western Australia, Amalgamator, "*An Improved Concentrating Table.*"—Dated 29th January, 1901.

Specification, 4s. 6d. Drawings on application.

Application No. 3294.—LUCIEN IRA BLAKE, Professor, of Lawrence, State of Kansas, and LAWRENCE NORTON MOESCHER, Student, of Neodesha, Kansas, United States of America, "*Process of and Mechanism for Separation of Conductors from Non-conductors.*"—Dated 1st February, 1901.

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

Application No. 3296.—CHARLES JASPER, of Spokane, State of Washington, United States of America, Gentleman, "*Improvements in Current-motors.*"—Dated 7th February, 1901.

Specification, 13s. Drawings on application.

Application No. 3297.—SYDNEY CHRISTOPHER KENT, of Maylands, Western Australia, Manager of the Victorian Institute of the Blind, "*An improved Incubator.*"—Dated 23rd March, 1901.

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

Application No. 3299.—OTTO SIEBOLD, of Neubrandenburg, Grand Duchy of Mecklenburg, German Empire, Chemist, "*An improved process for the production of Alkali Compounds of Albuminous Substances.*"—Dated 12th February, 1901.

Specification, 11s.

Application No. 3304.—THE CLYDE CHEMICAL COMPANY, LIMITED, of 133 Pitt Street, Sydney, New South Wales (assignee of GEORGE COX), "*Improvements in the means employed for the Extraction of Oxide of Chromium from its Ores and its subsequent treatment to obtain soluble salts.*"—Dated 12th February, 1901.

Specification, 6s. 6d.

Application No. 3305.—ERNEST ROWLAND HILL, of 814 Maple Avenue, Wilkinsburg, Allegheny, Pennsylvania, United States of America, Electrical Engineer, "*Improvements in or relating to Electro-pneumatic Controlling Systems.*"—Dated 14th February, 1901.

Specifications, 14s. Drawings on application.

Application No. 3306.—SIDNEY PRESCOTT WOOD, of Newport, Victoria, Engineer, "*Improvements in Block Telegraph Instruments.*"—Dated 15th February, 1901.

Specification, 3s. Drawings on application.

Application No. 3309.—DONALD MACVEAN, of 33 Thornton Avenue, Chiswick, London, England, Gentleman (assignee of THOMAS ALEXANDER IRVINE), "*Improvements in and relating to the Extraction of Copper by the wet method.*"—Dated 19th February, 1901.

Specifications, 3s. 6d.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
29th March, 1901.

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. 13, 29th March, 1901.

Application No. 3293.—A. LESCHEN and SONS ROPE COMPANY, of St. Louis, in the State of Missouri, United States of America (assignee of CHRISTOPHER T. FINLAYSON), "*Aerial Wire Rope Tramway.*"—Dated 1st February, 1901.

Specification, £3 7s. 6d. Drawings on application.

Application No. 3298.—ARTHUR FOSTER SMITH, of Perth, Western Australia, Engineer, "*An improved method of Cooking Meats and other suitable articles of food for human consumption with the application of direct heat only for a few minutes.*"—Dated 9th February, 1901.

Specification, 2s. 6d.

Application No. 3300.—EUREKA SHOE COMPANY, of Manchester, State of New Hampshire, United States of America, Shoe Manufacturers (Assignee of ARSENE HEBERT), "*Hand-tacking Tools.*"—Dated 12th February, 1901.

Specification, £1 19s. Drawings on application.

Application No. 3302.—DR. HERMANN PASSOW, of 11 Potshof, Hamburg, German Empire, Manager, "*Process for the Manufacture of Cement.*"—Dated 12th February, 1901.

Specification, 4s.

Application No. 3303.—JOSEPH WILKINSON, of Glen Mill, Burton-in-Lonsdale, York, England, Photographer, "*Improvements in producing mixtures of Vapourized Oil and Air for heating, lighting, and motor purposes.*"—Dated 12th February, 1901.

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

Application No. 3310.—EDWARD WATERS, jun., of 131 Williams Street, Melbourne, Patents Agent (*The Linotype Company, Limited*), "*Improvements in and connected with Printing Music Typographically.*"—Dated 19th February, 1901.

Specification, 8s. Drawings on application.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
22nd March, 1901.

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. 12, 22nd March, 1901.*

Application No. 2998.—RICHARD SIMMONDS, of Coromandel, New Zealand, Accountant, "*Improvements in Candle-holders.*"—Dated 12th June, 1900.

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

Application No. 3285.—GEORGE McMULLEN, of 19 Cowle Street, Perth, Western Australia, Architect, "*Machine for playing a Game of Chance, to be called 'McMullen's Numerator.'*"—Dated 26th January, 1901.

Specification, 7s. Drawings on application.

MALCOLM A. C. FRASER,  
Registrar of Patents.

Patent Office, Perth,  
15th March, 1901.

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. 11, 15th March, 1901.*

Application No. 2886.—THOMAS HEADEN, of Pier Street, Perth, Western Australia, Sanitary Engineer, "*An improved hand-pull Appliance for supplying disinfectant to Closets.*"—Dated 28th February, 1900.

Specification, 4s. 6d. Drawings on application.

Application No. 3220.—DAVID LAIRD, of Forfar, North Britain, Engineer, "*An improved Furnace for heating Drills and the like by means of liquid Fuel or Gas.*"—Dated 1st June, 1900.

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

Application No. 3232.—HORACE BELMORE JOSEPH, of Barrack Street, Perth, Western Australia, Solicitor (*Albrecht Honneus*), "*Process and means for Converting Refractory Ore into Free Milling Ore.*"—Dated 21st December, 1900.

Specification, 3s.

Application No. 3254.—CHARLES SCOTT SNELL, of Saltash, Cornwall, England, Engineer, "*Improvements in Apparatus for compressing Gas, Air, or the like.*"—Dated 3rd January, 1901.

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

MALCOLM A. C. FRASER,  
Registrar of Patents.

### Applications for Patents.

APRIL 20TH—MAY 4TH.

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

No.	Date.	Name.	Address.	Title.
*3369	23rd April, 1901	Seager, C. J. ... ..	Elsternwick, Vict.	Improvements in cavalry great coats and the like.
*3370	23rd April, 1901	Rosser, A. G. ... ..	Fremantle, W.A. ...	Railway spike, and wedge lock for same, to be called "The Rosser Railway Spike."
3371	25th April, 1901	McDermott, W. ... ..	London, England ...	Improvements in screening crushed ore and other materials.
3372	25th April, 1901	Wegerif, J. C. ... ..	Leigh-on-Sea, England	Improvements in roller mills for crushing and grinding.
*3373	30th April, 1901	Hall, G. ... ..	Taranaki, N.Z. ...	Improvements in ear marks for animals.
3374	30th April, 1901	Benson, F. G. .. ...	Malvern, S.A. ...	Improvements in sprayers for perfume, antiseptics, and the like.
3375	30th April, 1901	Curtis, C. H.; Smith, C. L. W.; Metcalfe, D. J.; Percy, A. C.; and Hargreaves, A. F.	London, England ...	Improvements in explosives.
3376	30th April, 1901	Cochrane, D. M. B. H., Earl of Dundonald	London, England ...	An improvement in tea and coffee pots.
3377	3rd May, 1901	Lovell, A. K. ... ..	New York, U.S.A.	Lacing hook guard.
3378	3rd May, 1901	Mouchel, G. L. ... ..	London, England ...	Improvements in and relating to metal and concrete structures.

## Provisional Specifications.

Patent Office, Perth, 10th May, 1901.

**A** PPLICATIONS for Letters Patent, accompanied by Provisional Specifications, which have been accepted from the 20th April to the 4th May, 1901:—

Application No. 3315.—ANDREW BARR, of Doodlekin, Western Australia, Farmer, “*An improved method of conveying Passengers and Merchandise on ordinary roads or over rough country.*”—Dated 25th February, 1901.

Application No. 3327.—ARTHUR FERDINAND EASTON, of 137 Murray Street, Perth, Western Australia, Importer, “*An improved Contrivance for Collecting the Crystallized Salts from the water in condenser boilers during the process of distilling fresh water from salt water, and for other purposes.*”—Dated 1st March, 1901.

Application No. 3334.—WILLIAM STYLES HAZELTON, of 394 High Street, Windsor, Victoria, Metallurgist, “*An improved Apparatus for Extracting Gold and Silver from Slimes and other Products.*”—Dated 12th March, 1901.

Application No. 3335.—FREDERICK REINCKE, of Longwarry, Victoria, Gentleman, “*Manufacture of Illuminant Gas and bye-products from leaves of trees.*”—Dated 13th March, 1901.

Application No. 3337.—WILLIAM HAMILTON FORSYTH, of 99 Cannon Street, London, E.C., England, Tailor, “*Improvements in Trousers and Knickers, applicable also to Under Pants.*”—Dated 14th March, 1901.

Application No. 3343.—JOHN PHILLIPS DINHAM, of Royal Standard Hotel, Brisbane Street, Perth, Engineer, “*An improved patent for an automatic crusher for gold and other minerals.*”—Dated 23rd March, 1901.

Application No. 3344.—WILLIAM PAYNE, of Orange, New South Wales, Engineer, “*Improved process or method of extracting Copper from the Ore.*”—Dated 23rd March, 1901.

MALCOLM A. C. FRASER,  
Registrar of Patents.

## Index of Applicants for Patents.

APRIL 20TH—MAY 4TH.

Name.	Title.	No.	Date.
Benson, F. G.	Improvements in sprayers for perfumes, antiseptics, and the like	3374	30th April, 1901
Cochrane, D. M. B. H., Earl of Dundonald	An improvement in tea and coffee pots	3376	30th April, 1901
Curtis, C. H.; Smith, C. L. W.; Metcalfe, D. J.; Pearcy, A. C.; and Hargreaves, A. F.	Improvements in explosives	3375	30th April, 1901
Dundonald, Earl of	<i>Vide</i> Cochrane, D. M. B. H.	3376	30th April, 1901
Hall, G.	Improvements in earmarks for animals	3373	30th April, 1901
Hargreaves, A. F.	<i>Vide</i> Curtis, C. H., and others	3375	30th April, 1901
Lovell, A. K.	Lacing hook guard	3377	3rd May, 1901
McDermott, W.	Improvements in screening crushed ore and other materials	3371	25th April, 1901
Metcalfe, D. J.	<i>Vide</i> Curtis, C. H., and others	3375	30th April, 1901
Mouchel, G. L.	Improvements in and relating to metal and concrete structures	3378	3rd May, 1901
Pearcy, A. C.	<i>Vide</i> Curtis, C. H., and others	3375	30th April, 1901
Rosser, A. G.	Railway spike, and wedge lock for same, to be called “The Rosser Railway Spike”	3370	23rd April, 1901
Seager, C. J.	Improvements in cavalry great coats and the like	3369	23rd April, 1901
Smith, C. L. W.	<i>Vide</i> Curtis, C. H., and others	3375	30th April, 1901
Wegerif, J. C.	Improvements in roller mills for crushing and grinding	3372	25th April, 1901

## Index to Subjects of Patent Applications.

APRIL 20TH—MAY 4TH.

Title.	Name.	No.	Date.
Coats...	Seager, C. J.	3369	23rd April, 1901
Concrete Structures	Mouchel, G. L.	3372	25th April, 1901
Crushing	Vide Roller Mills	3378	3rd May, 1901
Earmarks	Hall, G.	3373	30th April, 1901
Explosives	Curtis, C. H.; Smith, C. L. W.; Metcalfe, D. J.; Pearcey, D. J.; and Hargraves, A. F.	3375	30th April, 1901
Guard	Mouchel, G. L.	3378	3rd May, 1901
Hook Guard	Vide Guard	3377	3rd May, 1901
Lock	Vide Spike (railway)	3370	23rd April, 1901
Metal Structures	Vide Concrete Structures	3378	3rd May, 1901
Mills	Vide Roller Mills	3372	25th April, 1901
Ore	Vide Screening	3371	25th April, 1901
Pots	Vide Teapots	3376	30th April, 1901
Roller Mills	Megerif, J. C.	3372	25th April, 1901
Screening	McDermott, W.	3371	25th April, 1901
Spike (railway)	Rosser, A. G.	3370	23rd April, 1901
Sprayers	Benson, F. G.	3374	30th April, 1901
Teapots	Cochrane, D. M. B. H., Earl of Dundonald	3376	30th April, 1901

## Index of Patentees.

APRIL 20TH—MAY 4TH.

Name.	Title.	No.	Date.	Gazette.		
				Date.	No.	Page.
Atkins, R.	An improved cooling case or chamber for perishable goods	3262	8th Jan., 1901	8th Feb., 1901	6	641
Baum, A. de	A coin-freed marking board for registering the scores and checking the takings at billiards and other analogous games	3268	15th Jan., 1901	8th Feb., 1901	6	642
Church, F. F. (assignee of A. J. Gillespie)	Improvements in voting machines	3264	11th Jan., 1901	8th Feb., 1901	6	642
De Baum, A.	Vide Baum, A. de	3268	15th Jan., 1901	8th Feb., 1901	6	642
Diehl, P.	Improvements in sewing machines	3263	11th Jan., 1901	8th Feb., 1901	6	641
Gillespie, A. J.	Vide Church, F. F.	3264	11th Jan., 1901	8th Feb., 1901	6	642
Greg, J. R., and McLaren, W.	Improvements in and applicable to seat backs, convertible into sleeping berths for railway carriages, steamships, and the like	3266	11th Jan., 1901	8th Feb., 1901	6	642
Hoskins, G. J., and C. H.	Improved appliances to be used in closing the locking bars on the longitudinal joints of certain types of rivetless metal pipes	2989	11th June, 1900	13th July, 1900	28	2514
Hoskins, G. J., and C. H.	An improved machine for buffing or upsetting the edges of metal plates to be used in the construction of a certain class of rivetless pipes	2990	11th June, 1900	13th July, 1900	28	2514
McLaren, W., and Greg, J. R.	Vide Greg, J. R., and McLaren, W.	3266	11th Jan., 1901	8th Feb., 1901	6	642
Newell, F. C.	Vide Sparrow, R.	3265	11th Jan., 1901	8th Feb., 1901	6	642
Parsons, C. A.	Improvements in and relating to screw propellers	3267	12th Jan., 1901	8th Feb., 1901	6	642
Sparrow, R. (F. C. Newell)	Improvements in electric brakes	3265	11th Jan., 1901	8th Feb., 1901	6	642

## Index of Subjects of Patents Granted.

APRIL 20TH—MAY 4TH.

Title.	Name.	No.	Date.	Gazette.		
				Date.	No.	Page.
Brakes (electric)	Sparrow, R.	3265	11th Jan., 1901	8th Feb., 1901	6	642
Buffing	Hoskins, G. J. and C. H.	2990	11th June, 1900	13th July, 1900	28	2514
Closing Locking-bars	Hoskins, G. J. and C. H.	2989	11th June, 1900	13th July, 1900	28	2514
Coin Freed Board	Baum, A. de	3268	15th Jan., 1901	8th Feb., 1901	6	642
Cooling Case	Atkins, R.	3262	8th Jan., 1901	8th Feb., 1901	6	641
Marking Board	Vide Coin Freed Board	3268	15th Jan., 1901	8th Feb., 1901	6	642
Pipes	Vide Buffing	2990	11th June, 1900	13th July, 1900	28	2514
Pipes	Vide Closing Locking-bars	2989	11th June, 1900	13th July, 1900	28	2514
Propellers	Vide Screw Propellers	3267	12th Jan., 1901	8th Feb., 1901	6	642
Screw Propellers	Parsons, C. A.	3267	12th Jan., 1901	8th Feb., 1901	6	642
Seat Backs	Greg, J. R., and McLaren, W.	3266	11th Jan., 1901	8th Feb., 1901	6	642
Sewing Machines	Diehl, P.	3263	11th Jan., 1901	8th Feb., 1901	6	641
Voting Machine	Church, F. F.	3264	11th Jan., 1901	8th Feb., 1901	6	642



**Trade Marks.**

Patent Office, Trade Marks Branch,  
Perth, 10th May, 1901.

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

Any person or persons intending to oppose 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.

In the case of an Application in which have been inserted a statement and disclaimer (or a disclaimer only), a copy of the same is printed in *italics* in connection with the advertisement.

MALCOLM A. C. FRASER,

Registrar of Designs and Trade Marks.

Application No. 2084, dated 28th December, 1900.—LIEBIG'S EXTRACT OF MEAT COMPANY, LIMITED, of 9 Fenchurch Avenue, London, England, and 21 Longue Rue des Claires, Antwerp, Belgium, Manufacturers of Liebig Company's Extract of Meat, and Manufacturers, Shippers and Importers of South American Produce, 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 :—

**OXO**

*No claim is made to the exclusive use of the word "OX."*

This Mark was first advertised in the Western Australian Government Gazette of 15th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2130, dated 1st March, 1901.—S. HOFFMUNG & CO., LIMITED, of Pitt Street, Sydney, New South Wales, to register in Class 45, in respect of all kinds of Tobacco, a Trade Mark, of which the following is a representation :—

**MASCOTTE.**

This Mark was first advertised in the Western Australian Government Gazette of 15th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2131, dated 5th March, 1901.—JOHN DUNNE, of the Aberdeen Hotel, St. George's Road, North Fitzroy, near Melbourne, Victoria, Aerated Water Manufacturer, to register in Class 44, in respect of Mineral and Aerated Waters, natural and artificial, including ginger beer, a Trade Mark, of which the following is a representation :—

**HORONDA.**

This Mark was first advertised in the Western Australian Government Gazette of 15th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2132, dated 5th March, 1901.—ROBERT HARPER AND COMPANY PROPRIETARY, LIMITED, of Nos. 390-394 Little Flinders Street, Melbourne, in the State of Victoria, Merchants, to register in Class 42, in respect of Spices, Syrups, Cordials (non-alcoholic), Preserved Meats, Fish, Vegetables, and Fruit, Farinaceous Foods, Cereal Foods, Culinary and Food Essences, Condiments, Dairy

Produce, Jams, Jellies and Preserves, Coffee and its Essences and Compounds, Chicory and Cocoa of all kinds, Cooking Powders, Carraways, Ginger, Sugar, Table Oils, Desiccated Coconut, Honey, Hops, Condensed Milk, Salt, Dried Herbs, Ginger Beer Powders, Table Jelly Crystals, Fruit Juices, Tea, Hams and Bacon, a Trade Mark, of which the following is a representation :—



This Mark was first advertised in the Western Australian Government Gazette of 15th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2134, dated 11th March, 1901.—WILLIAM REYNARD VARNEY, trading as "The Veno Drug Co.," 18 Devonshire Street, All Saints, Manchester, England, 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 :—

**VENO.**

This Mark was first advertised in the Western Australian Government Gazette of 22nd March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2135, dated 12th March, 1901.—FERNAND LEVIC, trading as "Frossard, Levic, & Co.," of York Street, Sydney, in the State of New South Wales, Importer, to register in Class 45, in respect of Cigars, Cigarettes, and Tobacco, a Trade Mark, of which the following is a representation :—

**COCKTAIL**

This Mark was first advertised in the Western Australian Government Gazette of 22nd March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2080, dated 3rd January, 1901.—GEORGE G. SANDEMAN, SONS, & COMPANY, trading as "Sandeman," of Sydney, New South Wales, Wine and Spirit Merchants, to register in Class 43, in respect of Fermented Liquors and Spirits, a Trade Mark, of which the following is a representation :—



*The essential particulars of the Trade Mark consist of the combination of devices, and applicant Company disclaims any right to the exclusive use of the added matter, save and except the name "Sandeman."*

This Mark was first advertised in the Western Australian Government Gazette of 29th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2138, dated 20th March, 1901.—ALFRED CALMON, Aektiengesellschaft, Rubber and Asbestos Manufacturer Hamburg, to register in Class 50, in respect of Rubber goods of all kinds, including Rubber Hose, a Trade Mark, of which the following is a representation :—

## TOTONITE.

This Mark was first advertised in the Western Australian *Government Gazette* of 29th March, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2141, dated 25th March, 1901.—J. KITCHEN & SONS AND MARSH, LIMITED, of South Street, Fremantle, Soap and Candle Manufacturers, to register in Class 47, in respect of Candles, a Trade Mark, of which the following is a representation :—

## DIAMOND.

This Mark was first advertised in the Western Australian *Government Gazette* of 5th April, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2146, dated 27th March, 1901.—W. T. MURRAY AND CO., LIMITED, of Auckland, New Zealand, Condensed Milk 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 :—



*The essential particulars of this Trade Mark are the device and the word "Capstan," and applicants disclaim any right to the exclusive use of the added matter.*

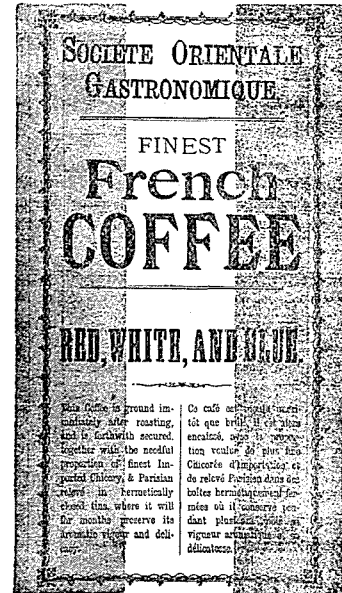
This Mark was first advertised in the Western Australian *Government Gazette* of 5th April, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2147, dated 27th March, 1901.—SHARLAND & CO., LIMITED, of Wellington, New Zealand, and elsewhere, Wholesale Druggists, to register in Class 42, in respect of a Beverage, a Trade Mark, of which the following is a representation :—

## KOLANIP.

This Mark was first advertised in the Western Australian *Government Gazette* of 5th April, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2136, dated 18th March, 1901.—Sir REGINALD HANSON, Baronet, of 47 Botolph Lane, London, England, Wholesale Grocer, to register in Class 42, in respect of French Coffee, a Trade Mark, of which the following is a representation :—



*The above Mark has been used by the Applicant and his predecessors in business in respect of the said goods since the year 1872.*

This Mark was first advertised in the Western Australian *Government Gazette* of 12th April, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2142, dated 26th March, 1901.—CLARK THREAD COMPANY, of Newark, New Jersey, in the United States of America, to register in Class 23, in respect of Sewing Cotton, whether on reels or spools or not, a trade mark, of which the following is a representation :—

## BUFFALO



This Mark was first advertised in the Western Australian *Government Gazette* of 12th April, 1901, *vide* notice at head of Trade Mark advertisements.

Application No. 2144, dated 26th March 1901.—THE GANDY BELT MANUFACTURING COMPANY, LIMITED, of Wheatland Works, Seacombe, in the County of Chester,

England, to register in Class 25, in respect of Cotton Belting, a Trade Mark, of which the following is a representation:—



**“THE GANDY BELT,”  
ENGLAND.**

The said Trade Mark having been used by us and our predecessors in business, in respect of the article mentioned, for seven years before the 1st January, 1885.

The essential particulars of the Trade Mark are the representation of a roll of belting, having across it the representation of a bale of cotton, and the words “Gandy” and “Gandy’s,” 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 12th April, 1901—vide notice at head of Trade Mark advertisements.

Application No. 2150, dated 28th March, 1901.—HUGH ROBERT DIXSON, Newman Street, Fremantle, Western Australia, Tobacco Manufacturer, to register in Class 45, in respect of Tobacco, Cigars, and Cigarettes, a Trade Mark, of which the following is a representation:—

**EN SIGN.**

This Mark was first advertised in the Western Australian Government Gazette of 12th April, 1901, vide notice at head of Trade Mark advertisements.

Applications Nos. 2151, 2152, 2153, 2154, dated 2nd April, 1901.—THE PATENT BORAX COMPANY, LIMITED, of Ledsam Street, Ladywood, Birmingham, Warwickshire, England, Manufacturers. Application No. 2151, to register in Class 2, in respect of Borax; Application No. 2152, to register in Class 3, in respect of Borax; Application No. 2153, to register in Class 47, in respect of Borax; and Application No. 2154, to register in Class 48, in respect of Borax, a Trade Mark, of which the following is a representation:—



The essential particular of the Trade Mark is the distinctive label.

This Mark was first advertised in the Western Australian Government Gazette of 12th April, 1901—vide notice at head of Trade Mark advertisements.

Application No. 2155, dated 2nd April, 1901.—GEORGE GREATHEAD, trading as “Robert Greathead,” of No. 1 Tavistock Street, City of Adelaide, State of South Australia, Manufacturer and Vendor of “Greathead’s Mixture,” to register in Class 3, in respect of a medicine for human use, a Trade Mark, of which the following is a representation:—

**GREATHEAD'S  
MIXTURE.**

FOR  
**DIPHTHERIA, INFLUENZA,  
AND OTHER FEVERS, &C.**

**DIRECTIONS FOR USE.**  
DOSE.—Give to a child one year old a teaspoonful of the Mixture; two years a dessert-spoonful; four or five years a tablespoonful; six to eight years, one and a half tablespoonful; ten to twelve years two tablespoonful; fifteen and upwards, two and a half tablespoonful.

These doses to be taken every Six Hours until the patient is nearly well, then twice a day till quite well.

None Genuine without my Signature  
**Robert Greathead.**  
ADDRESS—  
**31 Chetwynd St., Nth. Melb.**

For further directions refer to Pamphlet accompanying each Bottle.  
**PRICE: 2S. 6D. PER BOTTLE.**

The said Trade Mark having been used by him and his predecessors in business, in respect of the article mentioned, for eleven years prior to the first day of January, 1885.

The essential particulars of the Trade Mark are the portrait, the facsimile signature, and 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 12th April, 1901—vide notice at head of Trade Mark advertisements.

Application No. 2051, dated 20th November, 1900.—W. and D. HARVEST, of Dowgate Dock, Upper Thames Street, London, England, Drysalts, 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:—



The essential particular of the above Mark consists of 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 19th April, 1901—vide notice at head of Trade Mark advertisements.

Application No. 2156, dated 10th April, 1901.—CONSUMERS CORDAGE COMPANY, LIMITED, of the City and District of Montreal, Province of Quebec, Canada, to register in Class 50, s.s. 7, in respect of Twines, Yarns, and Cordages made of fibrous material, a Trade Mark, of which the following is a representation :—



*The essential particular of the Trade Mark is the words "Blue Ribbon."*

This Mark was first advertised in the Western Australian Government Gazette of the 19th April, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2143, dated 26th March, 1901.—FREDERICK ALBERT LEWIS and JOHN BENJAMIN WHITTY, trading as "Lewis & Whitty," of 339 Flinders Lane, Melbourne, Soap Manufacturers, to register in Class 47, in respect of Soap and all other articles in that class, a Trade Mark, of which the following is a representation :—

## GOLDBAR.

This Mark was first advertised in the Western Australian Government Gazette of 3rd May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2157, dated 16th April, 1901.—WILLIAM BIRKMYRE, JAMES BIRKMYRE, and JOHN BIRKMYRE, junior, trading as "Gourock Ropework Co.," of Port Glasgow, Scotland, Great Britain, Manufacturers, to register in Class 50, in respect of Binder Twine for agricultural purposes, a Trade Mark, of which the following is a representation :—



*The essential particulars of the above Trade Mark are (1) the special and distinctive words or arbitrary name "Harvest Moon," (2) the representation of a full moon, (3) the representation of wheat sheaves within a triangle, (4) the representation of a stalk of wheat and oats respectively on either side of a triangle, and (5) the picture and general design.*

This Mark was first advertised in the Western Australian Government Gazette of 3rd May, 1901—*vide* notice at head of Trade Mark advertisements.

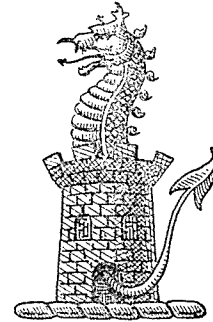
Application No. 2159, dated 16th April, 1901.—R. L. TOORN, of Sydney, in the State of New South Wales, Produce Merchant and Manufacturer, to register in Class 42, in

respect of Butter and Cheese, a Trade Mark, of which the following is a representation :—

## KAMERUKA.

This Mark was first advertised in the Western Australian Government Gazette of 3rd May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2164, dated 22nd April, 1901.—W. and A. GILBY, LIMITED, Wine and Spirit Merchants, "Pantheon," Oxford Street, London, England, to register in Class 43, in respect of Wines and Spirits, a Trade Mark, of which the following is a representation :—



*W. & A. Gilbey*  
LIMITED

This Mark was first advertised in the Western Australian Government Gazette of the 3rd May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2166, dated 23rd April, 1901.—JOHN DUNNE, of the Aberdeen Hotel, St. George's Road, North Fitzroy, near Melbourne, Victoria, Aerated Water Manufacturer, to register in Class 59, in respect of all effervescent non-alcoholic beverages other than those comprised in Class 44, a Trade Mark, of which the following is a representation :—

## HORONDA.

This Mark was first advertised in the Western Australian Government Gazette of the 3rd May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2167, dated 25th April, 1901.—WILLIAM CHARLES GREENSLADE, Wholesale Tobacconist, of Kalgoorlie, Western Australia, to register in Class 45, in respect of Tobacco, whether manufactured or unmanufactured, a Trade Mark, of which the following is a representation :—

## SIGNET.

This Mark was first advertised in the Western Australian Government Gazette of 10th May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2170, dated 30th April, 1901.—HENRY THOMSON and ROBERT THOMSON, trading as "Thomson Bros.," of Menzies and Boulder City, Western Australia, to register in Class 22, in respect of Bicycles, a Trade Mark, of which the following is a representation :—

## ENSIGN.

This Mark was first advertised in the Western Australian Government Gazette of 10th May, 1901—*vide* notice at head of Trade Mark advertisements.

Application No. 2171, dated 30th April, 1901.—TIDE WATER OIL COMPANY, of City of Bayonne, County of Hudson, and State of New Jersey, to register in Class 47, in respect of Illuminating Oil, a Trade Mark, of which the following is a representation :—

## SNOW-FLAKE

This Mark was first advertised in the Western Australian Government Gazette of 10th May, 1901—*vide* notice at head of Trade Mark advertisements.

## Alphabetical List of Registrants of Trade Marks.

APRIL 20TH—MAY 4TH.

Name.	Goods.	Class.	No.	Date.	Gazette.		
					No.	Date.	Page.
Aerators, Limited	Mineral and aerated waters, natural and artificial, including ginger-beer	44	2073	14th Dec., 1900	51	21st Dec., 1900	4806
Armstrong, P. W.	Cycles and such like vehicles	22	2106	15th Jan., 1901	9	1st Mar., 1901	935
Dunlop Pneumatic Tyre Company of Australasia, Limited	Pneumatic tyres and other goods manufactured from india-rubber	40	2123	15th Feb., 1901	8	22nd Feb., 1901	824
Havana Commercial Company	Cigars and cognate substances and articles	45	2115	30th Jan., 1901	6	8th Feb., 1901	659
Postum Cereal Company, Limited	Cereal foods	42	2119	1st Feb., 1901	7	15th Feb., 1901	736
The Shell Transport and Trading Company, Ltd.	Every description of oil	47	2121	14th Feb., 1901	8	22nd Feb., 1901	823
Veve Pommery Fils & Company	Champagne wine	43	2083	28th Dec., 1900	6	8th Feb., 1901	658

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

APRIL 20TH—MAY 4TH.

Goods.	Name.	No.	Date.	Class.	Gazette.		
					No.	Date.	Page.
Cereal Foods	Postum Cereal Co., Ltd.	2119	1st Feb., 1901	42	7	15th Feb., 1901	736
Champagne Wine	Veve Pommery Fils & Company	2083	28th Dec., 1900	43	6	8th Feb., 1901	658
Cigars	Havana Commercial Company	2115	30th Jan., 1901	45	6	8th Feb., 1901	659
Cycles	P. W. Armstrong	2106	15th Jan., 1901	22	9	1st Mar., 1901	935
Ginger Beer	Vide Waters	2073	14th Dec., 1900	44	51	21st Dec., 1900	4806
Oil	The Shell Transport and Trading Co.	2121	14th Feb., 1901	47	8	22nd Feb., 1901	823
Tyres (pneumatic)	Dunlop Pneumatic Tyre Co. of Australasia, Ltd.	2123	15th Feb., 1901	40	8	22nd Feb., 1901	824
Vehicles	Vide Cycles	2106	15th Jan., 1901	22	9	1st Mar., 1901	935
Waters (mineral and aerated)	Aerators, Ltd.	2073	14th Dec., 1900	44	51	21st Dec., 1900	4806