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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,
12th December, 1902.

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

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

Application No. 4083.—EDGAR HOGAN TAYLOR, Metallurgist, of Lakeside, Kalgoorlie, in the State of Western Australia, "*A Battery Shank Weight for increasing the dropping weight of Stampers.*"—Dated 13th October, 1902.

Claims:—

1. In a weight for increasing the dropping weight of stamp batteries, two semi-cylindrical castings made in the form of clamps with recesses and bolt holes to enable them to be securely fastened to the battery shanks in any desired position, and to be of such dimensions as are required to increase the stamp to the desired weight, as particularly described and illustrated in the accompanying drawings.
2. In a weight for increasing the dropping weight of stamp batteries, two half cylinders made in the form of clamps having square recesses to receive the heads of the bolts and a rectangular recess to receive the nuts of the bolts so that the heads of the bolts may be held securely from turning when the nuts are being screwed up, as particularly described and illustrated in the accompanying drawings.
3. In a weight for increasing the dropping weight of stamp batteries, two half cylinders with recesses and bolt holes to enable them to be secured to battery shanks in any desired position, and made thus in halves so that they may be placed in the required position or removed as occasion demands without removing the shank from its position in battery and being slightly less than half cylinders, so that they may be clamped tightly to the shank without the inner faces coming in contact with each other, as particularly described and illustrated in the accompanying drawings.
4. In a weight for increasing the dropping weight of stamp batteries, two half cylinders made in the form of clamps and having square recesses to receive the heads of the bolts and rectangular recesses to receive the nuts of the bolts, and bolt holes to receive the bolts, and both halves being made from the same pattern with the bolt holes equi-distant from the top and bottom, and the centre so that they may coincide with each other when one half is turned up end for end and the bolts on either side driven in from opposite directions, as particularly described and illustrated in the accompanying drawings.
5. In a weight for increasing the dropping weight of stamp batteries two half cylinders made in the form of clamps with bolt holes and recesses for the heads and nuts, and the application of these weights to any portion of the shank of a stamp battery for increasing their crushing efficiency, as particularly described and illustrated in the accompanying drawings.

Specification, 9s. Drawings on application.

Application No. 4102.—EDWARD WATERS, JUNIOR, a member of the firm of Edward Waters & Son, Patent Agents, of Nos. 414-418 Collins Street, Melbourne, in the State of Victoria and Commonwealth of Australia (*Ingersoll Sergeant Drill Company*), "*Improvements in Regulators for Air Compressors.*"—Dated 29th October, 1902.

Claims:—

1. The combination with a valve for closing or choking the inlet to a compressor, of a stationary cylinder to which there is an inlet from the receiver to which the compressor delivers, a movable outer cylinder fitted to the exterior of said stationary cylinder, connections between said outer cylinder and the valve, and a double-acting liquid dash-pot the cylinder of which is carried by said movable cylinder and the piston of which has a stationary support, substantially as herein described.

2. The combination with a valve for closing or choking a compressor inlet, of a stationary cylinder for receiving air delivered by the compressor, a second cylinder fitted to the exterior of said stationary cylinder and having a closed outer end, rods outside of said stationary and second cylinders connecting said second cylinder with the valve, and a double-acting liquid dash-pot the cylinder of which is carried by said second cylinder and the piston of which has a stationary support, substantially as herein described.

3. The combination with a valve for closing or choking a compressor inlet, of a stationary cylinder for receiving air delivered by the compressor, a second cylinder fitted to the exterior of said stationary cylinder and having a closed outer end and to which said valve is attached, a liquid-containing cylinder connected with said second cylinder and containing also a stationary piston between opposite sides of which within its containing cylinder there is a contracted communication, and means for adjusting said piston to stop the opening movement of the valve, substantially as herein described.

Specification, 10s. 6d. Drawings on application.

Application No. 4103.—HARRY SMITH WAINWRIGHT, of Alfred House, Ashford, in the County of Kent, England, Locomotive Engineer, "*Improvements in the construction and arrangement, in Locomotive Engines, of draught-promoting and spark-arresting devices.*"—Dated 31st October, 1902.

Claims:—

1. In a locomotive engine, a tube-like spark-arrester so arranged that without being dismounted it can, according to requirement, be caused to occupy either its normal position in which it extends upward from the blast pipe towards the chimney, or an out-of-use position in which it will not prevent free access to the ends of fire tubes.

2. In a locomotive engine a spark-arrester such as referred to in Claim 1 composed wholly or partly of sections that are telescopically arranged in relation to one another.

3. In a locomotive engine, a spark-arrester such as referred to in claim 1, composed of sections that are telescopically arranged in relation to one another, in combination with means for securing them in position for use and means whereby, when released, the lower sections or section will be in an automatic manner caused to enter the uppermost section so as to afford access to fire tubes, substantially as described.

4. In a locomotive engine, a spark-arrester such as referred to in Claim 1, mounted so that it can be turned, either as a whole or in parts, about an axis, so as to afford free access to fire tubes, substantially as described.

5. In a locomotive engine, a spark-arrester such as referred to in claim 1, comprising two concentric parts so constructed and mounted to turn about a common axis in such a manner that they can be caused to assume relative positions in which one part will be within the other, so as to afford free access to fire tubes, substantially as described.

6. In a locomotive engine, a spark-arrester such as referred to in claim 1, made collapsible so as to afford free access to fire tubes, and comprising either (a) a number of hoops connected together by open links; or (b) upper and lower rings connected together by interwoven open links, intermediately contracted to keep them mutually in place; or (c) upper and lower rings connected together by short solid links and joint pins, substantially as severally described with reference to drawings.

7. In a locomotive engine, a spark-arrester constructed with a frame or frames comprising top and bottom rings connected by notched bars and a rod or rods or a bar or bars wound spirally around the said frame or frames and placed in the notches of their connecting bars, whether or not the arrester extends to and surrounds or meets the base of the chimney, substantially as described and shown.

8. In a locomotive engine, a chimney cone having external spiral or inclined projections substantially as described, whether formed of wire or produced by a corrugated formation, substantially as described, for the purpose specified.

9. In a locomotive engine, a chimney cone composed of top and bottom rings connected by a spirally wound wire or rod or spirally wound wires or rods, with notched bars connecting the top and bottom rings together and having the spirally wound wire or wires or rod or rods located in their notches, substantially as described.

10. In a locomotive engine, the combination with a spark-arrester of an open work or perforated guard of a diameter equal to or greater than that of the base of the chimney, whether or not the guard be formed by flanging or extending the chimney cone or the spark-arrester or both, substantially as described.

11. In a locomotive engine, the arrangement in combination with the chimney base, of a chimney cone and a perforated flange which connects together the chimney base and the chimney cone, substantially as described.

12. In a locomotive engine, a spark-arrester and chimney cone forming a constructive portion of the arrester, substantially as described.

13. In a locomotive engine, a blast-pipe having its interior formed or provided with ribs or projections constituting an inclined or spiral channel or inclined or spiral channels, in combination (or not) with a spark-arrester formed of a spirally wound rod or bar or spirally wound rods or bars having its spiral rod or rods or bar or bars so arranged that the passage or passages between them form a continuation or continuations of the said channel or channels, substantially as described.

14. In a locomotive engine, the combination with a short blast-pipe of a spark-arrester comprising a lower part adapted to be turned about a vertical axis to afford free access to the fire-tubes and an upper part that extends around a chimney cone or around the base of the chimney and is made separate from the lower part of the spark-arrester to enable the said lower part to be turned, substantially as described.

15. A locomotive blast-pipe formed with holes or passages through which smoke and hot gas can freely pass and which have a radially upward inclination so that their upper surfaces will aid in arresting and throwing down sparks or glowing particles coming into contact therewith, substantially as described.

16. A locomotive blast pipe comprising a lower portion having a projection or projections spirally arranged within its interior so as to cause exhaust steam to revolve or whirl in passing therethrough, and an upper portion formed with holes or passages through which smoke and hot gases can freely pass into the blast pipe but not sparks or glowing particles, substantially as described and shown.

17. In a locomotive engine, the combination of a short blast pipe, a spark-arrester constructed of a framework comprising upper and lower rings, notched bars connecting the said rings and a rod or bar or rods or bars spirally arranged around the said notched bars and engaging in the notches thereof, and a horizontal or approximately horizontal grid extending across the smoke box, substantially as described.

18. The improved construction and arrangement in a locomotive engine of draught-inducing and spark-arresting devices hereinbefore described with reference to and shown in Figs. 1 and 4 of the accompanying drawings, and the same modified as described with reference to and shown in Figs. 2 or 3 of the drawings.

19. The several improved constructions and arrangements in locomotive engines and draught-inducing and spark-arresting devices hereinbefore described with reference to and shown respectively in Fig. 5, in Fig. 6, in Figs. 7 and 8, in Fig. 9, in Fig. 10, in Figs. 11 and 12, in Fig. 13, in Figs. 14 and 15, in Fig. 16, in Fig. 17, in Fig. 18, in Figs. 19 to 21 inclusive and in Fig. 22 of the accompanying drawings.

Specification, £1 6s. Drawings on application.

Application No. 4104.—THE VACUUM BRAKE COMPANY, LIMITED, of 32 Queen Victoria Street, London, E.C., England (assignee of Gresham, J.; Gresham, H. E., and Kiernan, G.), "Improvements in Vacuum Brake Apparatus for Railway and like Vehicles."—Dated 31st October, 1902.

Claims:—

1. In vacuum brake apparatus for railway and like vehicles providing a positively operated valve separate from and in addition to the usual automatic ball valve employed in the mechanism for admitting air under ordinary circumstances to the top of the piston in the brake cylinder, for the purpose of taking off the brakes, and for withdrawing air from the top of such cylinder after the brakes have been taken off, substantially as hereinbefore described.

2. In vacuum brake apparatus for railway and like vehicles, the combination with the automatic valve *t* of the valve *d* provided with an actuating rod which passes loosely through the casing, the valve being connected to its casing by a diaphragm which prevents the entry of external air to the valve connections, substantially as hereinbefore described and as illustrated in Figures 2, 3, and 4 of the accompanying drawings.

3. In vacuum brake apparatus for railway and like vehicles in combination, a positively actuated valve such as *d*, a chamber *h* surrounding such valve and shut off from communication with the atmosphere by a diaphragm such as *k* and an automatic valve such as *t* adapted to allow of the flow of air from the upper end of the brake cylinder to the aforesaid chamber *h* but to prevent a contrary flow of air, substantially as described.

4. In vacuum brake apparatus for railway and like vehicles, forming the brake cylinder in two parts united in a plane at right angles to the axis of the cylinder and providing grooves at the top and bottom parts of the cylinder, which grooves communicate with each other for the purpose of allowing of the adjustment of the two parts relatively to each other for admitting of the passage of air to the top of the cylinder by way of the grooves and by way of channels cast or formed in the two parts of the cylinder.

5. The construction of a vacuum brake cylinder substantially as and for the purpose described and as illustrated in Figure 2.

6. The construction of a vacuum brake cylinder, substantially as and for the purpose described and as illustrated in Figure 8 of the accompanying drawings.

7. In vacuum brake apparatus for railway and like vehicles, slinging the cylinder by means of an eye or hook on its top, substantially as described.

8. In vacuum brake apparatus for railway and like vehicles, the construction of supplementary or emergency valve, substantially as and for the purpose hereinbefore described and as illustrated in Figures 5, 6, and 7 of the accompanying drawings.

9. In vacuum brake apparatus for railway and like vehicles, the combination of a supplementary or emergency valve 11 with a plug or pin 20 or 21 or a central valve 23 so arranged and constructed that a rise of the valve 11 from its seat increases the area for the passage of air past the said plug or pin or central valve and through a hole in said valve 11, substantially as described.

10. In vacuum brake apparatus for railway and like vehicles, in combination, the valve 11, the diaphragm 17, the plug or pin 20 or 21, the

flap valve 16 and the hook 27, all arranged and constructed substantially as described and as illustrated in Figures 5 and 7 of the accompanying drawings.

11. In vacuum brake apparatus for railway and like vehicles, in combination, the valve 11, the diaphragm 17, the central valve 23, the flap valve 16 and the hook 27, all arranged and constructed substantially as described and as illustrated in Figure 6 of the accompanying drawings. Specification, 16s. Drawings on application.

Application No. 4105.—THE HONOURABLE CHARLES ALGERNON PARSONS, Engineer, of Heaton Works, Newcastle-on-Tyne, in the County of Northumberland, England, "Improvements in Condensers working in conjunction with air pumps."—Dated 31st October, 1902.

Claims:—

1. The use of an ejector or jet pump, operated by steam, in conjunction with a vacuum pump, in order to intensify the vacuum produced by the vacuum pump.

2. In the evacuation of vessels, the employment of a steam operated ejector or jet pump in conjunction with a vacuum pump, the ejector being situated in the passage which connects the air pump with the vessel to be evacuated, whereby the vacuum produced by the vacuum pump is intensified.

3. Intensifying the vacuum produced in a condenser by the air or vapour pump by means of a steam operated ejector or jet pump working in conjunction with the air pump, the ejector being situated in the passage which connects the air pump with the condenser, substantially as described.

4. In the system of intensifying the vacuum in a condenser claimed in Claim 3, the employment of an auxiliary condenser between the ejector and the air pump, for the purpose described.

5. Condenser plant employing an ejector or jet pump operating in conjunction with the vacuum pump in order to intensify the vacuum, consisting of a condenser having one of its ends lower than the other, the lower end being on a higher level than the vacuum pump with which it is connected, whereby the water of condensation flows by gravity into this pump, the other end of the condenser being connected with the vacuum pump by way of the steam-operated jet pump, whereby the work of the jet pump is limited to the ejection of air and vapour from the condenser to the vacuum pump, substantially as described.

6. The improved condenser plant hereinbefore described with reference to Figures 5 and 6 of the accompanying drawings.

7. A vacuum intensifier operating in conjunction with a vacuum pump and comprising an ejector box into which the gases and vapours from the vessel to be evacuated are drawn on their way to the vacuum pump, the box having within it one or more steam jets directed towards the centre of a discharge passage leading to the pump, whereby the gases and vapours are assisted in their progress from the vessel to the vacuum pump and the vacuum in the vessel is intensified, substantially as described.

8. The steam operated intensifier as and for the purposes hereinbefore described with reference to Figures 1 to 4 of the accompanying drawings.

9. In the system of vacuum intensifying claimed in Claim 1, adjustable steam jets as described with reference to Figures 7 and 8 of the accompanying drawings.

10. In the system of vacuum intensifying claimed in Claim 1, a vacuum intensifier consisting of a suction box containing a steam chest provided with a nozzle concentric with the discharge pipe, the chest having within it a tubular plug for regulating the amount of opening of the steam jet, the discharge of air or vapour being effected through the tubular plug alone or through the plug and an annular space between the nozzle and the discharge pipe, substantially as described.

11. In the system of vacuum intensifying claimed in Claim 1 adjustable steam jets as described with reference to Figures 11 and 12 of the accompanying drawings.

Specification, 15s. Drawings on application.

Application No. 4109.—CARL EMIL THIES, of No. 71 Smith Street, Fitzroy, near Melbourne, in the State of Victoria and Commonwealth of Australia, Gentleman; and LEWIS ELLIOTT LOWREY, of No. 16 Rathmines Grove, Auburn, near Melbourne aforesaid, Mechanic, "Improved attachments for incandescent gas and other lamps, specially applicable for advertising purposes."—Dated 4th November, 1902.

Claims:

1. Improved attachments for incandescent gas and other lamps, specially applicable for advertising purposes the revoluble portion consisting of a cylindrical light perforated or gauze cap having a turbine or fan-wheel at its top said cap fitting over the upper end of the chimney and supported on a central pin or pivot extending upwardly from a carrier removably secured to the upper edge of the chimney, and having radially extending ribs or stays bent so as to carry a circular band, whilst the stationary portion consists of a semi-circular strip carried on a downwardly projecting and inwardly curved wire bracket resting on the supply pipe, and supported by hooks at the end engaging the lamp fitting, all substantially as specified and illustrated.

2. In attachments for incandescent gas and other lamps specially applicable for advertising purposes a revoluble cylindrical light perforated or gauze cap having a turbine or fan-wheel at its top said cap fitting over the upper end of the chimney and supported on a central pin or pivot extending upwardly from a carrier removably secured to the upper edge of the chimney, and having radially extending ribs or stays bent so as to carry a circular band substantially as specified and illustrated.

3. In attachments for incandescent gas and other lamps specially applicable for advertising purposes, a stationary semi-circular strip of light cardboard or the like having advertisements cut there through said strip being carried on a downwardly projecting and inwardly curved wire bracket having a forked end resting on the supply pipe and supported by hooks at the ends engaging the lamp fitting substantially as specified and illustrated.

4. In contrivances as specified in Claims 1 and 2 a light metal wire-carrier having clips on its legs adapted to grip the top of the chimney, and a central-bearing pin or pivot substantially as illustrated in Figure 6.

5. In contrivances as specified in Claims 1 and 2, a light carrier moulded from refractory material, fitting into sockets or shoes adapted to grip the top of the chimney, and having a removable metal bearing-pin at its centre substantially as illustrated in Figure 7.

Specification, 6s. Drawings on application.

R. G. FERGUSON,

Registrar of Patents.

Renewal Fees paid on Patents registered from 29th November to 6th December, 1902.

Fees payable before the end of the fourth year in respect of the three following years:—

- No. 2370.—Nernst Electric Light, Limited.
- No. 2533.—The Automatic Telephone Company, Limited.

Subsequent Proprietors of Patents registered from 29th November to 6th December, 1902.

[NOTE.—The names in brackets are those of former proprietors.]

- No. 3263. — The Singer Manufacturing Company [P. Diehl].
- No. 4013. — The Anchor Fence Company, Limited, of Australia [Band, A. S.]

Notice of Application for Amendment.

THE PATENTS ACTS, 1888-1894.

IN the matter of Letters Patent No. 3788, dated 18th March, 1902, by JOSEPH GEORGE NASH, of Adelaide, South Australia, Engineer.

Notice is hereby given that the above Joseph George Nash has applied for leave to amend the complete Specification of his invention, alleging as his reason for so doing:—“*In order to more fully explain the exact nature of my invention and its essential features, and so as to restrict the scope of the invention in accordance therewith.*”

The amendments proposed are as follow, viz. (reference being had to amended copy of specification lodged in Patent Office, Perth):—

Page 2, line 28.

After the words “*may be,*” insert “*This cutter is provided with a cutting edge extending from the control mandrel to the outside edge or periphery of the zinc block or roll and in this way as the zinc rotates makes a cut across the complete face of the said block or roll. Also if necessary more than one cutter may be provided.*”

Page 3, line 14.

After the word “*transit*” insert “*and the bright edges formed by the cutter from becoming oxidised and tarnished.*”

Pages 3 and 4.

Strike out Claims Nos. 1, 2, 3, and insert:

Claim:—

An improved method of preparing zinc shavings consisting essentially in wrapping sheets of zinc upon a mandrel turning the shavings by means of a cutter as herein described, and subjecting the shavings thus formed to gradual pressure in a box or other receptacle by a piston or press whereby they are compressed into solid blocks substantially as described and for the purpose indicated.

Any person or persons intending to oppose the said application for amendment must leave particulars, in writing (on Form G), of his or their objections thereto, within one calendar month from the date hereof. A fee of Ten shillings (10s.) is payable with such notice.

Dated this 28th day of November, 1902.

R. G. FERGUSON,

Registrar of Patents.

Provisional Specification.

Patent Office, Perth, 12th December, 1902.

APPLICATION for Letters Patent, accompanied by Provisional Specification, which has been accepted from 29th November to 6th December, 1902:—

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

R. G. FERGUSON, Registrar of Patents.

Applications for Patents.

NOVEMBER 29TH—DECEMBER 6TH.

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

No.	Date.	Name.	Address.	Title.
4151	2nd Dec., 1902	Dolter Electric Traction, Ltd. (assignee of Dolter, H.)	London, England...	Improvements in connection with surface contact electric traction systems working with magnetically operated switches.
4152	2nd Dec., 1902	Cormack, W., and Lowson, J. G. F.	Eskbank and Polton, Scotland	Improvements in the manufacture and treatment of gelatine.
4153	2nd Dec., 1902	Iwan, W. L., and Iwan, J. H.	Streator, U.S.A. ...	Improvements in earth augurs.
4154	2nd Dec., 1902	The Renfrew Crusher Company, Limited (assignee of Wegerif, J. C.)	London, England...	Improvements in mills for grinding.
4155	3rd Dec., 1902	Hunter, W. Y. ...	Middelburg, Transvaal	Improvements in the construction of tents and their valise accessories.
4156	3rd Dec., 1902	Schnetzler, K. ...	Aussig - on - Elbe, Austria	Improvements in soap-moulding machines.
4157	5th June, 1902	Hopkins, E. H. ...	South Kensington, London, England	An improved process for obtaining zinc.
4158	3rd Dec., 1902	Lyell, A. ...	Palmerston North, New Zealand	An improver filter and cooler.
*4159	3rd Dec., 1902	Frank, C. J. ...	Melbourne, Victoria	An improved process of manufacturing a safety explosive.
*4160	3rd Dec., 1902	Gordon, G. C. ...	Balaklava, South Australia	Improvements in winnowing and grain-cleaning machines.
*4161	3rd Dec., 1902	Hasselbach, E. ...	Surrey Hills, Victoria	An improved game called roulette billiards, and appliances for same.
*4162	3rd Dec., 1902	Odling, F. J., and Jamieson, W.	Melbourne, Victoria	Improvements in magnetic separators for pulverised ores and other materials.
*4163	3rd Dec., 1902	Ornstien, F. S. ...	Kensington, Victoria	Improvements in apparatus to be used in the manufacture of wheel tyre covers.
*4164	3rd Dec., 1902	Ornstien, F. S. ...	Kensington, Victoria	Improved method of and means for shaping covers for wheel tyres.
4165	3rd Dec., 1902	Gaze, W. H. ...	Shepparton, Victoria	Improvements in illuminating gas.
4166	3rd Dec., 1902	Lajard, C. P. de ...	Avignon, France ...	Device for the utilisation of the power derived from the waves of the sea.
4167	3rd Dec., 1902	Connstein, W. ...	Charlottenburg, Prussia	Processes for the manufacture of fatty acids from their esters.
4168	3rd Dec., 1902	Waters, E., junior (Blanchard, A.)	Melbourne, Victoria	Improvements in or relating to liquid hydrocarbon vapour burners.
*4169	4th Dec., 1902	Smith, D. C. ...	Kalgoorlie, Western Australia	Improved method of and means for super-heating steam.
4170	4th Dec., 1902	Claydon, G. ...	Christchurch, New Zealand	Improved apparatus for delivering steam and forced draught to the furnaces of boilers and the like.

Index of Applicants for Patents.

NOVEMBER 29TH—DECEMBER 6TH, 1902.

Name.	Title.	No.	Date.
Blanchard, A.	<i>Vide</i> Waters, E., jun.	4168	3rd Dec., 1902
Claydon, G.	Improved apparatus for delivering steam and forced draught to the furnaces of boilers and the like	4170	4th Dec., 1902
Connstein, W.	Process for the manufacture of fatty acids from their esters	4167	3rd Dec., 1902
Cormack, W., and Lowson, J. G. F. ...	Improvements in the manufacture and treatment of gelatine	4152	2nd Dec., 1902
Dolter Electric Traction, Limited (<i>assignee of Dolter, H.</i>)	Improvements in connection with surface contact electric traction systems working with magnetically operated switches	4151	2nd Dec., 1902
Dolter, H.	<i>Vide</i> Dolter Electric Traction, Limited	4151	2nd Dec., 1902
Frank, C. J.	An improved process of manufacturing a safety explosive	4159	3rd Dec., 1902
Gaze, W. H.	Improvements in illuminating gas	4165	3rd Dec., 1902
Gordon, G. C.	Improvements in winnowing and grain-cleaning machines	4160	3rd Dec., 1902
Hasselbach, E.	An improved game called roulette billiards, and appliances for same	4161	3rd Dec., 1902
Hopkins, E. H.	An improved process for obtaining zinc	4157	5th June, 1902
Hunter, W. G.	Improvements in the construction of tents and their valise accessories	4155	3rd Dec., 1902
Iwan, W. L. and Iwan, J. H.	Improvements in earth augurs	4153	2nd Dec., 1902
Iwan, J. H.	<i>Vide</i> Iwan, W., and Iwan, J. H.	4153	2nd Dec., 1902
Jamieson, W.	<i>Vide</i> Odling, F. J., and Jamieson, W.	4162	3rd Dec., 1902
Lajard, C. P. de	Device for the utilisation of the power derived from the waves of the sea	4166	3rd Dec., 1902
Lowson, J. G. F.	<i>Vide</i> Cormack, W., and Lowson, J. G. F.	4152	2nd Dec., 1902
Lyell, A.	An improved filter and cooler	4158	3rd Dec., 1902
Odling, F. J., and Jamieson, W. ...	Improvements in magnetic separators for pulverised ores and other materials	4162	3rd Dec., 1902
Ornstien, F. S.	Improvements in apparatus to be used in the manufacture of wheel tyre covers	4163	3rd Dec., 1902
Ornstien, F. S.	Improved method of and means for shaping covers of wheel tyres	4164	3rd Dec., 1902
Renfrew Crusher Company Limited (<i>assignee of Wegerif, J. C.</i>)	Improvements in mills for grinding	4154	2nd Dec., 1902
Schnetzler, K.	Improvements in soap moulding machines	4156	3rd Dec., 1902
Smith, D. C.	Improved method of and means for superheating steam	4169	4th Dec., 1902
Waters, E., jun. (<i>Blanchard, A.</i>) ...	Improvements in or relating to liquids hydro-carbon vapour burners	4168	3rd Dec., 1902
Wegerif, J. C.	<i>Vide</i> Renfrew Crusher Company, Limited... ..	4154	2nd Dec., 1902

Index of Subjects of Patents Applications.

NOVEMBER 29TH—DECEMBER 6TH.

Title.	Name.	No.	Date.
Acids (fatty), manufacture of ...	Connstein, W.	4167	3rd Dec., 1902
Augurs	<i>Vide</i> Earth Augurs	4153	2nd Dec., 1902
Burners (vapours)	Waters, E., jun. (<i>Blanchard, A.</i>)	4168	3rd Dec., 1902
Cooler	<i>Vide</i> Filter	4158	3rd Dec., 1902
Earth Augurs	Iwan, W. L., and Iwan, J. H.	4153	2nd Dec., 1902
Explosive	Frank, C. J.	4159	3rd Dec., 1902
Filter	Lyell, A.	4158	3rd Dec., 1902
Games (Roulette Billiards)	Hasselbach, E.	4161	3rd Dec., 1902
Gas (illuminating)	Gaze, W. H.	4165	3rd Dec., 1902
Gelatine (manufacture of)	Cormack, W., and Lowson, J. G. F.	4152	2nd Dec., 1902
Grain-cleaning Machine	<i>Vide</i> Winnowing Machine	4160	3rd Dec., 1902
Mills (pan and roller)	Renfrew Crusher Company, Limited (<i>Wegerif, J. C.</i>) ...	4154	2nd Dec., 1902
Ores	<i>Vide</i> Separators (Magnetic)	4162	3rd Dec., 1902
Pneumatic Tyres	<i>Vide</i> Tyres	4163	3rd Dec., 1902
Power (utilisation of from waves of the sea)	Lajard, C. P. De	4166	3rd Dec., 1902
Roller Mills	<i>Vide</i> Mills (pan and roller)	4154	2nd Dec., 1902
Roulette Billiards	<i>Vide</i> Games	4161	3rd Dec., 1902
Separators (magnetic) for Ores ...	Odling, F. J., and Jamieson, W.	4162	3rd Dec., 1902
Soap Moulding Machine	Schnetzler, K.	4156	3rd Dec., 1902
Steam (delivery to furnaces of boilers)	Claydon, G.	4170	4th Dec., 1902
Steam (superheating)	Smith, D. C.	4169	4th Dec., 1902
Tents	Hunter, W. G.	4155	3rd Dec., 1902
Traction Systems (electric)	Dolter Electric Traction, Limited (<i>assignee, Dolter, H.</i>) ...	4151	2nd Dec., 1902
Tyres (method of shaping)	Ornstien, F. S.	4164	3rd Dec., 1902
Tyres (covers for)	Ornstien, F. S.	4163	3rd Dec., 1902
Winnowing Machines	Gordon, G. C.	4160	3rd Dec., 1902
Zinc (process of obtaining)	Hopkins, E. H.	4157	5th June, 1902

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Copeland, L. D. ...	<i>Vide</i> Mitchell, G., and Copeland, L. D.	4048	16th Sept., 1902	26th Sept., 1902	39	3947
Cox, J. ...	Improvements in and relating to rock-drilling and earth boring, and means for withdrawing earth and other matters from such bores	4039	9th Sept., 1902	26th Sept., 1902	39	3946
Erickson, J. ...	<i>Vide</i> Strowger Automatic Telephone Exchange (Company)	4049	16th Sept., 1902	26th Sept., 1902	39	3947
Erickson, C. J. ...	<i>Vide</i> Strowger Automatic Telephone Exchange (Company)	4049	16th Sept., 1902	26th Sept., 1902	39	3947
Ford, A. (<i>Strube, H.</i>) ...	Improvements in roofing tile-making machinery	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Hoskins, G. J. ...	An improved joint for the locking-bar type of rolled iron pipes	4035	9th Sept., 1902	26th Sept., 1902	39	3945
Keith, A. E. ...	<i>Vide</i> Strowger Automatic Telephone Exchange (Company)	4049	16th Sept., 1902	26th Sept., 1902	39	3947
Lodge, Sir O. J.; Muirhead, A., and Robinson, E. E.	Receivers for wireless telegraphy ...	4038	9th Sept., 1902	26th Sept., 1902	39	3946
Mitchell, G., and Copeland, L. D.	Method process and apparatus for utilising the heat of slag for generating steam	4048	16th Sept., 1902	26th Sept., 1902	39	3947
Muirhead, A. ...	<i>Vide</i> Lodge, Sir O. J.; Muirhead, A.; and Robinson, E. E.	4038	9th Sept., 1902	26th Sept., 1902	39	3946
Nethery, J. W. ...	<i>Vide</i> Wallace, H. L. ...	4047	16th Sept., 1902	26th Sept., 1902	39	3946
Risstrom, E. O. ...	Improvements in show stands for axes and the like	4032	9th Sept., 1902	26th Sept., 1902	39	3945
Robb, G. McNeill ...	<i>Vide</i> Smith, A. K. ...	4034	9th Sept., 1902	26th Sept., 1902	39	3945
Robinson, E. E. ...	<i>Vide</i> Lodge, Sir O. J.; Muirhead, A., and Robinson, E. E.	4038	9th Sept., 1902	26th Sept., 1902	39	3946
Rowe, W. ...	Improvements in railway traffic control systems	4028	2nd Sept., 1902	26th Sept., 1902	39	3944
Smith, A. K. (<i>assignee of Robb, G.</i>)	Apparatus for recording and indicating the score of players in such games as table tennis, lawn tennis, and the like	4034	9th Sept., 1902	26th Sept., 1902	39	3945
Strowger Automatic Telephone Exchange Company (<i>assignee of Keith, A. E., Erickson, J., and Erickson, C. J.</i>)	Automatic telephone exchange ...	4049	16th Sept., 1902	26th Sept., 1902	39	3947
Strube, H. ...	<i>Vide</i> Ford, A. ...	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Wallace, H. L. (<i>assignee of Nethery, J. W.</i>)	Valves ...	4047	16th Sept., 1902	26th Sept., 1902	39	3946
Wessel, K. ...	Improvements in mattress filling machines	4009	26th Aug., 1902	26th Sept., 1902	39	3944
Witty, R. J. L. ...	A plant and seed setter ...	4014	27th Aug., 1902	26th Sept., 1902	39	3944

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Earth Boring ...	<i>Vide</i> Rock Drills ...	4039	9th Sept., 1902	26th Sept., 1902	39	3946
Games and Sports ...	<i>Vide</i> Scoring Boards ...	4034	9th Sept., 1902	26th Sept., 1902	39	3945
Heat (utilisation of from slag)	Mitchell, G., and Copeland, L. D.	4048	16th Sept., 1902	26th Sept., 1902	39	3947
Joints (locking-bar pipe) ...	Hoskins, G. J. ...	4035	9th Sept., 1902	26th Sept., 1902	39	3945
Mattress Filling Machines ...	Wessel, K. ...	4009	26th Aug., 1902	26th Sept., 1902	39	3944
Nicotine Traps (for pipes) ...	Clendinnen, W. A. de	4037	9th Sept., 1902	26th Sept., 1902	39	3945
Pipes (joints for) ...	<i>Vide</i> joints ...	4035	9th Sept., 1902	26th Sept., 1902	39	3945
Plant setter ...	Witty, R. J. L. ...	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Railway systems ...	Rowe, W. ...	4028	2nd Sept., 1902	26th Sept., 1902	39	3944
Receivers ...	<i>Vide</i> Wireless Telegraphy ...	4038	9th Sept., 1902	26th Sept., 1902	39	3946
Rock Drills ...	Cox, J. ...	3039	9th Sept., 1902	26th Sept., 1902	39	3946
Roofing Tiles ...	<i>Vide</i> Tiles ...	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Scoring Boards ...	Smith, A. K. (<i>assignee of Robb G.</i>)	4034	9th Sept., 1902	26th Sept., 1902	39	3945
Seed Setter ...	<i>Vide</i> Plant setter ...	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Show Stands ...	Risstrom, G. O. ...	4032	9th Sept., 1902	26th Sept., 1902	39	3945
Steam (generating) ...	<i>Vide</i> Heat (utilisation of from slag)	4048	16th Sept., 1902	26th Sept., 1902	39	3947
Telegraphy (wireless) ...	<i>Vide</i> Wireless telegraphy ...	4038	9th Sept., 1902	26th Sept., 1902	39	3946
Telephone Exchanges (automatic)	Strowger Automatic Telephone Exchange Company (<i>assignee of Keith, A. E.; Erickson, J., and Erickson, C. J.</i>)	4049	16th Sept., 1902	26th Sept., 1902	39	3947
Tiles ...	Ford, A. (<i>Strube, H.</i>) ...	4015	27th Aug., 1902	26th Sept., 1902	39	3944
Valves ...	Wallace, H. L. ...	4047	16th Sept., 1902	26th Sept., 1902	39	3946
Wireless Telegraphy (receivers for)	Lodge, Sir O. J.; Muirhead, A., and Robinson, E. E.	4038	9th Sept., 1902	26th Sept., 1902	39	3946

Applications Abandoned.

NOVEMBER 29TH—DECEMBER 6TH, 1902.

Application No. 3730.—JOHN AMOS THURM, of Fernhill, in the State of Victoria, Farmer, "*Improvements in Manure Planters.*"—Dated 30th January, 1902.

Application No. 3734.—JOSEF CLINTON, of Ashley Street, North Fremantle, Western Australia, Blacksmith, "*Improved Wire-strainer.*"—Dated 3rd February, 1902.

Trade Marks.

Patent Office, Trade Marks Branch,
Perth, 12th December, 1902.

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

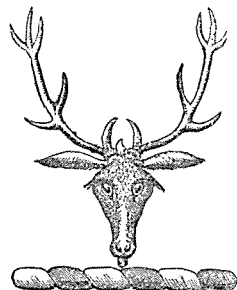
Any person or persons intending to oppose such applications must leave particulars in writing, in duplicate (on Form F), of his or their objections thereto, within two calendar months from the date of this *Gazette*.

A fee of £1 is payable with such notice.

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.

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

Application No. 2433, dated 2nd April, 1902.—MACKENZIE BROTHERS, of Dalmore Distillery, Allness, Ross-shire, Scotland, to register in Class 43, in respect of Whisky, a Trade Mark, of which the following is a representation:—



Application No. 2600, dated 4th October, 1902.—THE AERMOTOR COMPANY, of Chicago, Illinois, United States of America, to register in Class 6, in respect of Windmills, a Trade Mark, of which the following is a representation:—

AERMOTOR.

Application No. 2619, dated 21st October, 1902.—HART, LAWRENCE, & COMPANY, PROPRIETARY, LIMITED, of No. 20 A'Beckett Street, Melbourne, Victoria, Commonwealth of Australia, to register in Class 45, in respect of Cigars, Tobacco, Cigarettes, and all articles pertaining to tobacco in such class, a Trade Mark, of which the following is a representation:—

"ELECTRIC."

Application No. 2623, dated 28th October, 1902.—SYDNEY BERCHDOLT, of 341 Hay Street, Perth, Western Australia, Accountant, to register in Class 42, in respect of Substances

used as food or as ingredients in food except baking powder, a Trade Mark, of which the following is a representation:—



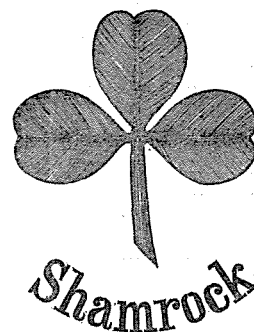
Applications Nos. 2639 and 2640, dated 19th November, 1902.—MONGER'S WEST AUSTRALIAN STORES, LIMITED, corner William and Newman Streets, Fremantle, Merchants and Importers; application No. 2639 to register in Class 5, in respect of Fencing Wire and Galvanised Sheet Iron, and application No. 2640 to register in Class 13, in respect of Horseshoes (metal), a Trade Mark, of which the following is a representation:—

Ajax

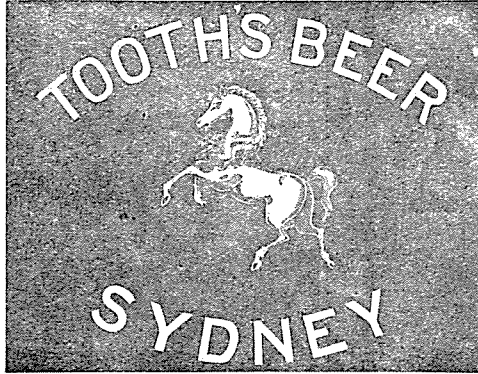
Application No. 2645, dated 27th November, 1902.—MONGER'S WEST AUSTRALIAN STORES, LIMITED, Merchants, corner William and Newman Streets, Fremantle, to register in Class 17, in respect of Portland Cement, a Trade Mark, of which the following is a representation:—

Lion

Applications Nos. 2646, 2647, 2648, and 2649, dated 28th November, 1902.—FIELD AND Co., Grain and Produce Merchants and Seedsmen, of Devonport, Tasmania, Australia. Application No. 2646, to register in Class 2, in respect of Chemical substances used for agricultural, horticultural, veterinary and sanitary purposes, such as manures. Application No. 2647, to register in Class 4, in respect of raw or partly prepared vegetable, animal, and mineral substances used in manufactures, such as seeds. Application No. 2648, to register in Class 42, in respect of substances used as food or as ingredients in food; and Application No. 2649, to register in Class 50, s.s. 7, in respect of tarpaulins, tents, rick cloths and covers, rope and twine, and cordage, a Trade Mark, of which the following is a representation:—



Applications Nos. 2655 and 2656, dated 3rd December, 1902.—TOOTH & Co., LIMITED, of Kent Brewery, George Street West, Sydney, in the State of New South Wales, Brewers. Application No. 2655, to register in Class 43, in respect of Ale, Beer, Lager Beer, Stout, Cider, and Fermented Liquors generally; and Application No. 2656, to register in Class 44, in respect of Ginger Beer, Ginger Ale, Hop Beer, Botanic Beer, Lemonade, Spa Water, Soda Water, Lithia Water, Mineral and Aerated Waters, natural and artificial, generally, a Trade Mark, of which the following is a representation :—



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

Application No. 2657, dated 3rd December, 1902.—LEVER BROTHERS, LIMITED, of Balmain, State of New South Wales, Commonwealth of Australia, Soap and Oil Manufacturers, to register in Class 47, in respect of Common Soap, and all other articles in Class 47, a Trade Mark, of which the following is a representation :—

REX SANBOLIC.

Applications Nos. 2658 and 2659, dated 3rd December, 1902.—LEVER BROTHERS, LIMITED, of Balmain, State of New South Wales, Commonwealth of Australia, Soap and Oil Manufacturers. Application No. 2658, to register in Class 47, in respect of Common Soap and all other articles in Class 47; and application No. 2659, to register in Class 48, in respect of Perfumed Soap and all other articles in Class 48, a Trade Mark, of which the following is a representation :—

SILK.

Application No. 2660, dated 3rd December, 1902.—LEVER BROTHERS, LIMITED, of Balmain, State of New South Wales, Commonwealth of Australia, Soap and Oil Manufacturers, to register in Class 47, in respect of Common Soap and all other articles in Class 47, a Trade Mark, of which the following is a representation :—

CHEERFUL.

Application No. 2661, dated 4th December, 1902.—FREDERICK GEORGE BOLTON, of Panama Street, Wellington, New Zealand, Solicitor, and DONALD LANGLEY TURNER, of Manners Street, Wellington aforesaid, Chemist, 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 :—

RHEUMO.

Application No. 2662, dated 4th December, 1902.—THE WELSBACH LIGHT COMPANY OF AUSTRALASIA, LIMITED, of 2 Bury Street, St. Mary Axe, London, in England, to register in Class 18, in respect of Incandescent Mantles, a Trade Mark, of which the following is a representation :—



Trade Mark Application Abandoned.

NOVEMBER 29TH—DECEMBER 6TH, 1902.

Application No. 2575, dated 5th September.—To register in Class 6, in respect of Windmills, in the name of R. BRADBURY, of High Street, Fremantle, in the State of Western Australia, Plumber.

Subsequent Proprietors of Trade Marks registered from 29th November, 1902, to 6th December, 1902.

[NOTE.—The names in brackets are those of former proprietors.]

Nos. 66, 89, and 90.—The Associated Portland Cement Manufacturers (1900) Limited (*Knight, Bevan, and Sturges*).

Alphabetical List of Registrants of Trade Marks.

NOVEMBER 29TH—DECEMBER 6TH.

Name.	Goods.	Class.	No.	Date.	Gazette.		
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Berry, H., & Co. ...	Sausage skins ...	42	2590	17th Sept., 1902	39	26th Sept., 1902	3951
Bunsell, A. (trading as Ezenwauken)	Boots and shoes ...	38	2592	22nd Sept., 1902	40	3rd Oct., 1902	3986
Ezenwauken ...	<i>Vide</i> Bunsell, A. (trading as Ezenwauken)	38	2592	22nd Sept., 1902	40	3rd Oct., 1902	3986

Index of Goods for which Trade Marks have been registered.

NOVEMBER 29TH—DECEMBER 6TH.

Goods.	Name.	No.	Date.	Class.	Gazette.		
					No.	Date.	Page.
Boots	Bunsell, A. (trading as "Ezenwauken")	2592	22nd Sept., 1902	38	40	3rd Oct., 1902	3986
Sausage Skins	Berry, H., & Co.	2590	17th Sept., 1902	42	39	26th Sept., 1902	3951
Shoes	Vide Boots	2592	22nd Sept., 1902	38	40	3rd Oct., 1902	3986