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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,
24th April, 1903.

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

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

Application No. 3949.—CHARLES NICHOLAS COLLISON, of Eagle Chambers, King William Street, Adelaide, South Australia, Licensed Patent Agent (*Charles Fairchild*), "*Improvements in Mechanical Cashiers, Registers, and Recorders.*"—Dated 16th July, 1902.

The claims, numbering 23, may be inspected at the Patent Office.

Specifications, £2 5s. Drawings on application.

Application No. 4342.—UNITED SHOE MACHINERY COMPANY, of 205 Lincoln Street, Boston, Massachusetts, United States of America (assignee of EDWARD ALLIN STIGGINS), "*Improvements in Lasting Machines.*"—Dated 26th March, 1903.

The claims numbering 45 may be inspected at the Patent Office.

Specification, £3 16s. Drawings on application.

Application No. 4353.—JOHN JAMES ROBERT SMYTHE, of Johannesburg, Transvaal, Mechanical Engineer, "*Improvements in and relating to Pneumatic Stampers.*"—Dated 31st March, 1903.

Claim:—

The improvement in the construction of the cylinder of the type of pneumatic stamper, described and illustrated in the specification and drawings of Francis Haniel Harvey's British Patent No. 2145 of 1899, which consists in first increasing its working length and then increasing the number of rows of air holes therein, so that by varying the position of the rows actually in use from time to time, the position and travel of the piston are correspondingly altered, and the wear and tear of the shoes and dies of the stamper can be adequately and expeditiously compensated for, substantially as set forth.

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

Application No. 4355.—BALFOUR FRASER MCTEAR, of Brook Cottage, Rainhill, in the County of Lancaster, England, Engineer, "*Improvements in and connected with Piercing and Forging Machinery for the manufacture of Tubes or Tubular Articles.*"—Dated 31st March, 1903.

Claims:—

1. The herein described improvement connected with the piercing of steel or hard metal billets for the manufacture of seamless tubes or hollow bodies, consisting in forcing the metal of the billet over the piercing tool partly by compression thrust or squeezing, and partly by tension applied to the portion of the tube passed and passing over the tool and out of the die, substantially as set forth.
2. In piercing machinery for making seamless tubes or hollow bodies, a die for holding the metal to be pierced, made in two parts, axially in line with each other, and adapted to be moved relatively ongitudinally; substantially as described.
3. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; a gripping device in said die, adapted to grip the front portion of the metal, and a die adapted to receive and hold the rear portion of said metal, and axially in line with said front holding die; said dies being adapted to be moved relatively longitudinally; substantially as described.
4. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; a die adapted to receive and hold the rear portion of the said metal, and axially in line with said front holding die; and a hydraulic cylinder and ram, or cylinders and rams, connected with the said front holding die, adapted to move the said die away from the rear holding die; substantially as described.
5. In piercing machinery for making seamless tubes or hollow bodies, a die adapted to receive and hold the front portion of the metal to be pierced; the die adapted to receive and hold the rear portion of the said metal, and axially in line with said front holding die; a hydraulic cylinder and ram, or cylinders and rams, connected with said front holding die, adapted to move the said die away from the rear holding die; a hydraulic cylinder and ram connected with and adapted to move the rear holding die in the same direction as the front holding die; and a piercing tool; substantially as described.
6. In piercing machinery for making seamless tubes or hollow bodies, a die for receiving and holding the metal to be pierced, having within it a support for supporting longitudinally the outer or back end of the billet, comprising an outer tube adapted to support the outer part of the billet, and an inner ram within the outer tubular part for supporting the centre portion of the metal, and supported longitudinally hydraulically by liquid held within the outer tube, and released and allowed to move away from the billet by releasing said liquid; substantially as herein set forth for the purposes specified.
7. In piercing machinery for making seamless tubes or hollow bodies, the die 1, tube or cylinder 31 working within the die, and a ram 33 disposed within the tube 31; arranged, combined, and adapted to operate as set forth and shown in the drawings.
8. In piercing machinery for making seamless tubes or hollow bodies, the metal die 1, the main piercing ram 12 and cylinder 11, and the tube or cylinder 1 disposed between the ram 12 and die 31, and its front end working within the die 1; substantially as set forth and shown in the drawings.
9. In piercing machinery for making seamless tubes or hollow bodies, the metal die 1, the main piercing ram 12 and cylinder 11, the cylinder 31 disposed between the ram 12 and die 1, with its front end working in the die 1, and the ram 33 disposed within the cylinder 31, the said ram 12 and die 1 being connected together, substantially as set forth.

Specification, 18s. Drawings on application.

Application No. 4356.—JOHN CALVERT KERR and JOSEPH COXON, both of Denmark, Western Australia, Engineers, "*Differential Friction Gear for obtaining a variable Speed at either forward or backward motion by means of two wheels.*"—Dated 2nd April, 1903.

Claim:—

A machine capable of producing forward or backward motion at a variable speed by means of two wheels set at right angles to one another.

Specification 2s. 6d. Drawings on application.

Application No. 4358.—CHARLES ALGERNON PARSONS, Engineer, of Heaton Works, Newcastle-on-Tyne, Northumberland, England, "*Improvements relating to Alternators.*"—Dated 3rd April, 1903.

Claims:—

1. In alternators, the method of obtaining a current of low frequency, consisting in combining, differentially as regards speed, two or more rotating elements and one fixed element substantially as described.
2. An alternating current generator, consisting of two or more alternators, connected in parallel, one element of the first alternator being driven direct by a motor, and the other element being coupled

direct to one element of a second alternator, the other element of which is in turn either stationary or connected to one element of a third alternator, and so on, the last element of all being stationary, substantially as described.

3. The improved alternating current generator, substantially as hereinbefore described with reference to the accompanying drawing.

Specification, 4s. Drawings on application.

Application No. 4360.—RICHARD SPARROW, of Perth, Western Australia, Patents Agent (*Charles Felton Scott*), "*Improvements in alternating current Electrical Apparatus.*"—Dated 3rd April, 1903.

Claims:—

1. In the operation of single-phase alternating current electric motors, means for maintaining a constant ratio between the current in the armature and in the field magnet winding of the motor, and at the same time supplying said windings with different amounts of current.

2. An arrangement for operating single-phase alternating current electric motors in which one element of the motor is supplied from the secondary winding of a transformer included in the supply circuit and the other element of the motor is either included in the supply circuit or is supplied from another secondary winding on the transformer supplying the first element or from the secondary of another transformer connected in series with the first transformer.

3. Systems of supplying energy to single-phase alternating current electric motors arranged and operating substantially as described with reference to the accompanying drawings.

Specifications 5s.; Drawings on application.

Application No. 4361.—RICHARD SPARROW, of Perth, Western Australia, Patents Agent (*Peter Cooper Hewitt*), "*Improved device for producing a Gas or Vapour Path for Electric Currents.*"—Dated 3rd April, 1903.

Claims:—

1. An electrical apparatus of the kind described in which the enclosing chamber is made partly or wholly of conducting material so that the heat developed therein may be readily dissipated.

2. The modification of the invention in which the chamber is made in two parts united by a separable joint either with or without a seal of plastic material, substantially as described.

3. An electrical apparatus of the kind described in which the enclosing chamber is provided with an oil or water jacket for conducting away heat therefrom, substantially as described.

4. An electrical apparatus of the kind described provided with means for condensing or removing gases or vapours from the enclosing chamber when necessary, substantially as described.

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

Application No. 4362.—ARTHUR ROSS, St. Clement's, Carshalton Road, Sutton, in the County of Surrey, Gentleman, (assignee of SAMUEL JAMES WILFORD), "*Improvements in devices for circulating the water of boilers and the like, and removing impurities therefrom.*"—Dated 3rd April, 1903.

Claims:—

1. The combination, with a steam generator or heater or other vessel, of a circulator such as that herein described which can be charged from outside the apparatus, and which will then induce circulation as soon as the contents of the boiler or other vessel are heated, for the purpose specified.

2. A circulator, comprising a reservoir fitted with up-flow and return pipes connecting the reservoir with the boiler or other vessel, and having for opening and closing the said up-flow and return pipes, automatically-operating valves placed in proximity to the points at which said pipes join the boiler or other vessel, substantially as and for the purpose set forth.

3. A circulating and purifying apparatus such as that hereinabove described having a charging orifice with means for opening and closing the same, and fitted with a bottom blow-off pipe, substantially as set forth.

4. The combination, of the top blow-off pipe I, and the reservoir D, with or without the charging orifice, substantially as and for the purposes specified.

5. The circulator and purifier provided with an air-outlet at the upper part of the reservoir, and with means for opening and closing said outlet, substantially as set forth.

6. The combination, with the circulator and purifier, of a buoyant funnel constructed and hinged to the up-flow pipe, substantially as set forth, for the purpose specified.

7. The apparatus constructed substantially as described with reference to the accompanying drawings, and operating as and for the purposes specified.

Specification, 10s. Drawings on application.

Application No. 4365.—WILLIAM MAYNE, of Karadoc Avenue, Mildura, Victoria, Engineer, "*An improved Engine Valve Gear by which the points of admission, cut off, and release of high pressure steam, or other motive fluid, may be controlled.*"—Dated 6th April, 1903.

Claims:—

1. In an improved engine valve gear, the rotary disc valve a^2, provided with port hole a^3, and exhaust recess a^4, working on circular exhaust groove b, substantially as and for the purposes set forth.

2. In an improved engine valve gear, the conical chamber b^2, in union with the outer hollow plug valve d, with portion of its upper section cut away and fitted with a worm wheel d^2, substantially as and for the purposes set forth.

3. An improved engine valve gear, the inner solid plug valve c, provided with two wings or feathers c^1, and fitted with worm wheel c^2, substantially as and for the purposes set forth.

4. In an improved engine valve gear, the annular exhaust port g^1, in union with the two two-way cocks g^2, g^2, and the passage g^3, substantially as and for the purposes set forth.

5. In an improved engine valve gear, the general arrangement of the several parts as illustrated in Figures 1 to 8, on the accompanying sheets of drawings 1 and 2, substantially as and for the purposes set forth.

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

Application No. 4367.—THE DOLTER ELECTRIC TRACTION LIMITED, of 3 and 4 Great Winchester Street, in the City of London, England (assignee of HENRI DOLTER), "*Improvements in Surface Contact Electric Traction Systems.*"—Dated 7th April, 1903.

Claims:—

1. In surface contact electric traction systems of the kind herein referred to, the use substantially in the manner hereinbefore described, of a portable auxiliary electro-magnet that is adapted to be electrically connected by means of a flexible conductor and a connecting plug or a switch to the contact skate of a car and is capable of being excited, when desired, by suitable means such as by an accumulator or primary battery on the car, or by a small portable dynamo, the construction and arrangement being such that upon energising the electro-magnet and applying the same to an operative contact stud, the switch of the latter will be operated to close the circuit of the car motors through the flexible conductor and skate and enable the car to be electrically propelled by current from a contact stud other than those which may, for the time being, be in contact with the said skate, and so enable such skate to reach an operative contact stud or studs whereupon the electrical propulsion of the car can proceed in the usual way.

2. In a surface contact electric traction system of the kind herein referred to, the combination with a car adapted to be electrically propelled and provided with a skate of magnetic material, of means constructed, arranged and operating substantially as hereinbefore described with reference to and shown in the accompanying drawing for enabling an operative contact stud in advance of the car to be electrically connected to the skate, as set forth.

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

Application No. 4368.—JULIUS RIBBERT, Manufacturer and Counsellor of Commerce of Hans Hünenpforte, at Holthausen, Kreis Hagen, Province of Westphalia, Prussia, German Empire, "*Improvements in the Manufacture of Fabrics coloured with Indigo.*"—Dated 8th April, 1903.

Claims:—

1. In the indigo printing process the employment of the ordinary paste resists, commonly used in printing blue instead of sulphur pastes as heretofore exclusively used and if desired with other resists or chemical discharges.

2. The process for producing any kind of indigo goods with dark face side on lighter tinted back side irrespective of the coloration of the front side, which process consists in impregnating the goods in the well-known manner with glucose and printing on the same with the paste resist usually employed in the process for printing blue, and if desired with the addition of other resists or discharges and then covering one side with indigo or printing the same on this side wholly or in part, the indigo thus applied to the fabric being then reduced in the continuous steamer, then being introduced into the continuous vat and being therefore dyed until the desired coloration of the back side is obtained and finally washing and treating with acid in the usual manner.

Specification, 12s.

Application No. 4373.—ALEXANDER VANGELLI MANIACHI, Mercantile Broker, of No. 369 Old Exchange, Collins Street, Melbourne, in the State of Victoria, Australia, "*An improved Stove for heating irons and the like.*"—Dated 8th April, 1903.

Claims:—

1. Stove for heating irons comprising a furnace and an outer chamber with cover with a space between furnace and chamber for the irons to be heated substantially as and for the purposes described.

2. Stove for heating irons comprising a furnace and an outer chamber with cover with a space between furnace and chamber for the irons to be heated and means for revolving the stove upon a stand substantially as and for the purposes described.

3. Stove for heating irons comprising a furnace A with chimney B and fire bars A′, an outer vessel D with gaps D′, and a cover C with opening C′ and means for feeding stove with fuel substantially as and for the purposes described.

4. Stove for heating irons comprising furnace A with fire bars A′, an outer vessel D with gaps D′, an outer vessel D with gaps D′, a cover C with opening C′, a chimney B with opening B′, and hopper F, frame H H′ carrying ash tray K and runners J and a stand L substantially as and for the purposes described.

5. The combination and arrangement of the whole of the parts for the purposes described and substantially as illustrated on the accompanying sheet of drawings.

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

Application No. 4375.—LEWIS PETER FORD, of 32 Victoria Street, Westminster, London, England, Gentleman, "*Improvements in the Manufacture of Artificial Stone Bricks.*—Dated 8 h April, 1903.

Claims:—

1. The continuous process of manufacturing artificial stone bricks and the like which consists in; 1, automatically measuring the lime and sand, 2, conveying the same to a pug or mixer, 3, thoroughly stirring and heating the materials, 4, slacking the lime and if necessary wetting the materials in said mixer, 5, conveying them towards one end of the same, and 6, cooling them on their exit prior to their entrance into the brickmaking machine, substantially as set forth.

2. In apparatus for the manufacture of artificial stone bricks and the like, the combination of automatic measuring apparatus, a mixer, an elevator or elevators to convey the materials from the measuring apparatus to the mixer, means for heating the mixer, channels for conveying away any water of condensation, means for moistening the materials, and means for cooling the materials on their exit from the mixer, substantially as set forth.

3. In apparatus for the manufacture of artificial stone bricks and the like, the combination of automatic measuring apparatus, a mixer, an elevator or elevators to convey the materials from the measuring apparatus to the mixer, means for heating the mixer, a dome or arch shaped top to said mixer, channels for conveying away any water of condensation, means for moistening the materials, and means for cooling the materials on their exit from the mixer, substantially as set forth.

4. In apparatus for the manufacture of artificial stone bricks and the like, the combination of two cylinders, an aperture in the bottom of each cylinder, rotating arms arranged in each cylinder, a mixer, an elevator to convey the materials to the mixer, a steam jacket to said mixer, a dome or arch shaped top to said mixer, means for moistening the materials, means for conveying away any water of condensation, and means for cooling the mixed materials, substantially as herein shown and described.

5. In apparatus for the manufacture of artificial stone bricks and the like, the combination of two cylinders, an aperture in the bottom of each cylinder, rotating arms arranged in each cylinder, a mixer, an elevator to convey the materials to the mixer, a steam jacket to said mixer, a dome or arch shaped top to said mixer, a perforated water pipe arranged in the upper part of said mixer, conduits carried by the upper edges of the casing, an outlet orifice, and a cold water jacket to such outlet orifice, substantially as herein shown and described.

6. In apparatus for the manufacture of artificial stone bricks and the like, the combination of two cylinders, an aperture in the bottom of each cylinder, rotating arms arranged in each cylinder, a mixer, an elevator to convey the materials to the mixer, a steam jacket to said mixer, a dome or arch shaped top to said mixer, a perforated water pipe arranged in the upper part of said mixer, conduits carried by the upper edges of the casing, a shaft running in suitable bearings, mixing arms on said shaft, an outlet orifice, and a cold water jacket to such outlet orifice, substantially as herein shown and described.

Specification, 7s. Drawings on application.

R. G. FERGUSON,
Registrar of Patents.

Renewal Fees paid on Patents registered from 11th to 18th April, 1903.

Fees payable before the end of the seventh year in respect of the seven following years :—

No. 876.—Massey-Harris Co., Ltd.

Subsequent Proprietors of Patents registered from 11th to 18th April, 1903.

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

No. 4194.—Ball Check Light Co. [R. Sparrow].

No. 4248.—British Westinghouse Electric and Manufacturing Co., Ltd. [R. Sparrow].

Applications Abandoned.

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Application No. 3905.—JOHN JERGER, of Boulder, Western Australia, Watchmaker, "*Device for collecting and checking Railway and Tramway Passenger Fares.*" —Dated 14th June, 1902.

Application No. 3908.—ALFRED BUTLER, of Taralga, New South Wales, Storekeeper, "*An improved Fly Trap.*"—Dated 17th June, 1902.

R. G. FERGUSON,
Registrar of Patents.

Applications for Patents.

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

No.	Date.	Name.	Address.	Title.
4376	15th April, 1903	Stewart, G. R. (*A. J. Hefferan*)	Melbourne, Victoria	Improved fire-bars.
4377	15th April, 1903	United Shoe Machinery Co. (assignee of B. F. Mayo) ...	Boston, United States of America	Improvements in or relating to machines for attaching the heels of boots and shoes.
4378	15th April, 1903	Blaisdell, H. W.	Los Angeles, United States of America	System of handling material.
4379	15th April, 1903	Sargent, W. D.	New York, United States of America	Method of making brake-shoes and product thereof
4380	15th April, 1903	Henderson, A. E.	Toronto, Canada ...	Improvements in thrust-bearings.
4381	15th April, 1903	Henderson, A. E.	Toronto, Canada ...	Improvements in ball-bearings.
4382	15th April, 1903	Henderson, A. E.	Toronto, Canada ...	Improvements in anti-friction bearings.
4383	16th April, 1903	Reid, J. H.	Newark, United States of America	Improved method of generating electricity.
4384	16th April, 1903	Ainsworth, J.	Bolivia, New South Wales	Improvements in wheels for road vehicles.
4385	16th April, 1903	Miller, E. H.	London, England ...	A process for the elimination of sulphur from sulphide ores.
*4386	17th April, 1903	White, G. W.	Footscray, Victoria	An improved hose coupling.
*4387	17th April, 1903	Forwood, W. W., and Bradshaw, R. F.	Kalgoorlie and Boulder, Western Aust.	Spray injection condenser.
*4388	18th April, 1903	United Shoe Machinery Co. (assignee of L. A. Casgrain)	Boston, United States of America	Improvements in or relating to nurling or analogous machines.

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United Shoe Machinery Co. (assignee of B. F. Mayo)	Improvement in or relating to machines for attaching the heels of boots and shoes	4377	15th April, 1903
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List of Trade Marks abandoned through non-payment of Renewal Fees.

APRIL 4TH—18TH, 1903.

No. 212.—Ignatius Boladeras and James Corbett.

Trade Marks.

Patent Office, Trade Marks Branch,
Perth, 24th April, 1903.

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.

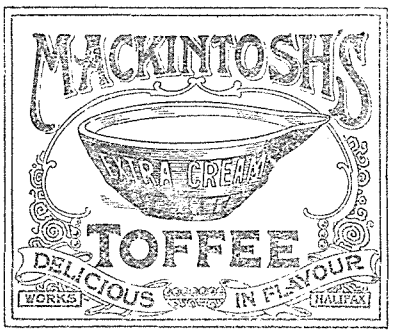
In the case of an Application in which have been inserted a statement and disclaimer (or a disclaimer only), a copy of the same is printed in *italics* in connection with the advertisement.

R. G. FERGUSON,

Registrar of Designs and Trade Marks.

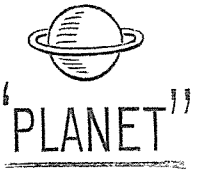
Application No. 2781, dated 3rd April, 1903.—JOHN MACKINTOSH, LIMITED, of Kingston Confectionery Works and Toffee Mills, Queen's Road, Halifax, Yorkshire, England. Manufacturers, to register in Class 42, in respect of Substances used as Food or as ingredients in Food, a Trade Mark, of which the following is a representation :—

Application No. 2782, dated 3rd April, 1903.—JOHN MACKINTOSH, LIMITED, of Kingston Confectionery Works and Toffee Mills, Queen's Road, Halifax, Yorkshire, England, Manufacturers, to register in Class 42, in respect of Toffee, a Trade Mark, of which the following is a representation :—



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

Application No. 2788, dated 18th April, 1903.—STEPHEN KING & SON, of Nos. 177 to 185 William Street, Melbourne, in the State of Victoria, and Commonwealth of Australia, Merchants, to register in Class 43, in respect of Fermented Liquors and Spirits, a Trade Mark, of which the following is a representation :—



The said Trade Mark having been used by them and their predecessors in business in respect of the articles mentioned for twelve years before the first day of January, One thousand eight hundred and eighty-five.

Alphabetical List of Registrants of Trade Marks.

APRIL 11TH—18TH.

Name.	Goods.	Class	No.	Date.	Gazette. No.	Gazette. Date.	Gazette. Page.
Murray, D. & W., Ltd. ...	Woollen and worsted goods ...	34	2704	29th Jan., 1903	6	6th Feb., 1903	252
Murray, D. & W., Ltd. ...	Flannels, blankets, etc.	35	2705	29th Jan., 1903	6	6th Feb., 1903	252
Murray, D. & W., Ltd. ...	Rugs	50	2706	29th Jan., 1903	6	6th Feb., 1903	252

Index of Goods for which Trade Marks have been registered.

APRIL 11TH—18TH.

Goods.	Name.	No.	Date.	Class.	Gazette. No.	Gazette. Date.	Gazette. Page.
Blankets	D. & W. Murray, Ltd.	2705	29th Jan., 1903	35	6	6th Feb., 1903	252
Flannels	*Vide* Blankets	2705	29th Jan., 1903	35	6	6th Feb., 1903	252
Rugs	D. & W. Murray, Ltd.	2706	29th Jan., 1903	50	6	6th Feb., 1903	252
Woollen Goods ...	D. & W. Murray, Ltd.	2704	29th Jan., 1903	34	6	6th Feb., 1903	252
Worsted Goods ...	*Vide* Woollen Goods	2704	29th Jan., 1903	34	6	6th Feb., 1903	252

By Authority: WM. ALFRED WATSON, Government Printer, Perth.