SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, MAY 30, 1907.

Published by Authority.

WELLINGTON, THURSDAY, MAY 30, 1907.

CONTENTS.

Holiday.—Celebration of the Prince of Wales's Birthday.

THE Patent Office will be closed on Monday, the 3rd June, being the Prince of Wales's Birthday.

International and Intercolonial Arrangements for the Mutual Protection of Inventions.

INTERNATIONAL CONVENTION.

THE following countries now belong to the Convention:—

Belgium.	Mexico.
Brazil.	New Zealand.
Ceylon.	Norway.
Cuba.	Portugal, with the Azores and Madeira.
Denmark.	Servia.
Dominican Republic.	Spain.
France, with Algeria and Colonies.	Sweden.
Germany.	Switzerland.
Great Britain.	Tunis.
Italy.	United States of America.
Japan.	

Separate arrangements have been made between Australia and New Zealand.

Particulars of the Convention and of such arrangements may be seen in the following *Gazettes*:—

Notification of adhesion of New Zealand to the Convention, with text thereof (in English), in the *Gazette* of 26th November, 1891; notification of adherence of New Zealand to the Additional Act of the Convention, with text (in English), of such Additional Act, in Patents Supplement to *Gazette* No. 101, of the 16th November, 1905; Order in Council applying section 103 of the Imperial Act to New Zealand, in *Gazette* No. 27, of the 15th May, 1890; Orders in Council containing arrangements between Australia and New Zealand, in Patent Supplements to the *Gazette* Nos. 22 of the 9th March, 1905, and 38 of the 20th April, 1905.

Patent Publications in New Zealand.

THE following publications relating to Patents for inventions, &c., are open to inspection in the colony:—

WELLINGTON.—PATENT OFFICE LIBRARY.

United Kingdom.

The full text of the specifications and complete drawings of inventions patented from the year 1617 up to the 21st February, 1907.

Classified illustrated abridgments of inventions from 1855 to 1904.

Illustrated Official Journal, containing lists of recent applications, abridgments of inventions for which patents have been lately granted, patents void, &c., to April, 1907.

Index of Applicants.

Subject-matter Index.

Commissioner of Patents Journal, &c.(a).

Trade Marks Journal to February, 1907.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) to October, 1906.

Australia.

The full text of the specifications and complete drawings in respect of applications accepted from the 11th January to the 10th April, 1906, inclusive.

The Official Journal of Patents of the Australian Commonwealth (containing lists of applications for letters patent, abridgments of complete specifications accepted, &c.).

The Australian Official Journal of Trade Marks (containing lists of applications for registration of trade marks, &c.).

Specifications, drawings, abridgments, and indexes of Victoria, New South Wales, Queensland, and South Australia(b).

United States.

The full text of the specifications and drawings for the first half of the year 1905.

The Official Gazette of the United States Patent Office (containing illustrated abridgments of specifications, &c.) to the 6th November, 1906.

Mexico.

The Official Gazette of the Patent and Trade Mark Office.

General.

La Propriété Industrielle (the official organ of the International Bureau of the Union for the Protection of Industrial Property).

Patent laws of the world.

Patent and Trade Mark Review.

Text-books and handbooks on patents and trade marks.

AUCKLAND.—PUBLIC LIBRARY.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.

Illustrated Official Journal from 1897 to date.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) from 1897 to date.

Australia.

The Official Journal of Patents from 1905 to date.

United States.

The Official Gazette of the United States Patent Office (containing illustrated abridgments of specifications, &c.) from 1885 to 1887 and 1890 to 1895.

CHRISTCHURCH.—PUBLIC LIBRARY.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.

Illustrated Official Journal from October, 1905, to date.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) from 1897 to date.

Australia.

The Official Journal of Patents from 1905 to date.

DUNEDIN.—TOWN HALL.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.

Illustrated Official Journal from October, 1905, to date.

Australia.

The Officia Journal of Patents from 1905 to date.

(a) Discontinued.
(b) In arrear. Not now being printed.

Books and Documents open to Inspection at Patent Office, Wellington.

THE following documents and books are open to public inspection at the Patent Office:—

PATENTS.

(Fee for each search or inspection, not exceeding one hour, 1s.)

1. The files relating to all applications for letters patent in respect of which complete specifications have been accepted.
2. Classified copies of specifications and drawings, with index and key(a).
3. Register of Applications for Letters Patent.
4. Register of Patents.
5. Register of Subsequent Proprietors of Letters Patent(b).
6. Index of Patentees(c).
7. Index of Proprietors of Letters Patent granted prior to 1890(d).
8. Index of Specifications(e).

DESIGNS.

(Search fee, 1s. each quarter of an hour.)

1. Register of Designs, with Index of Names of Proprietors.
2. Classified Representations of Designs in respect of which Copyright has expired.
3. Index of Designs.

TRADE MARKS.

(Search fee, 1s. each quarter of an hour.)

1. The files relating to all applications for registration of trade marks.
2. Register of Applications for Registration of Trade Marks.
3. Register of Trade Marks.
4. Index of Applicants for Registration of Trade Marks(f).
5. Index of Trade Marks.
6. Classified Representations of Trade Marks, with indexes.

MISCELLANEOUS.

Register of Patent Agents.

FORMS AND PUBLICATIONS.

The following forms, &c., may be had on application at the Patent Office, Wellington, or at any of the local Patent Offices named below:—

Application for letters patent.
Provisional specification.
Complete specification and copy thereof.
Application for registration of design.
Application for registration of trade mark.
Applications for extension of time.
Requests by subsequent proprietor to enter name on Register of Patents and Trade Marks.
Printed sheets of information as to fees and procedure to obtain letters patent and to register a trade mark(g).
Pamphlet containing Act and Regulations (price 1s.).

(a) Key is in card index.
(b) This Register contains only names of subsequent proprietors of letters patent granted prior to 1st January, 1890; since that date they appear in Register of Patents.
(c) Includes all names of applicants, &c., and consists of four volumes to 4th November, 1903, and card index since that date. A separate card index is kept for current quarter.
(d) The names of proprietors of subsequent letters patent appear in the Index of Patentees.
(e) Contains classified abridgments of specifications from 1861, with extracts from drawings from July, 1904.
(f) Names of applicants for registration and proprietors of trade marks are indexed at the beginning of the Registers up to 31st December, 1889; in separate volume up to 5th September, 1904; and since the latter date in card index.
(g) May also be obtained at any local Patent Office or money-order office.

Official Publications.

THE following publications may be obtained from the Government Printer, Wellington:—

Printed specifications to the end of the year 1879.

Annual lists of letters patent and letters of registration applied for, and particulars of applications lapsed, and patents lapsed, from 1880 to 1888 inclusive.

Annual reports of the Registrar, containing alphabetical lists of applicants for letters patent and of inventions patented from 1889 to 1905 inclusive.

The Patents Supplement to *Gazette* (containing notifications, applications for letters patent, abridged descriptions and drawings of inventions, &c.), published fortnightly.

Local Patent Offices.

LOCAL Patent Offices for supplying forms and for receiving applications for transmission to the Patent Office *without extra charge* have been established at the following places:—

Auckland
Gisborne
Napier
Nelson
Blenheim
Christchurch
Dunedin
} Supreme Court Offices.

Thames
Wanganui
Greymouth
Timaru
Oamaru
Ashburton
New Plymouth
Westport
Hokitika
Invercargill
Queenstown
} District Court Offices.

PATENT AGENTS.

A list of registered patent agents may be obtained on application.

Applications for Letters Patent filed.

LIST of applications for Letters Patent filed. (Where a complete specification accompanies an application an asterisk is affixed; in all other cases a provisional specification has been lodged. In all cases where the applicant is not the inventor the name of the latter appears in italics after the title.)

No. 22823.—15th May.—E. N. Murray, Sydney, N.S.W.
Combination shirt and tunic.*

No. 22824.—15th May.—E. N. Waters, Melbourne, Vic.
Wireless transmission of sonorous vibrations.* (*McCarty Wireless Telephone Company—F. J. McCarty.*)

No. 22825.—15th May.—G. Harker, Petersham, N.S.W.
Means for extinguishing fire and destroying vermin in ships, &c.*

No. 22826.—15th May.—W. H. Bryant, Wellington, N.Z.
Coal-carrier.

No. 22827.—15th May.—F. G. Browne and C. F. Lungley, Melbourne, Vic.
Treatment of hides, leather, &c.

No. 22828.—16th May.—D. McKenzie, Auckland, N.Z.
Combination ottoman, bed, and couch.*

No. 22829.—13th May.—A. and F. McLeod, Auckland, N.Z.
Method of procuring kauri-gum from swamps.

No. 22830.—11th May.—J. Gallagher and W. H. Woollams, Auckland, N.Z.
Ointment.

No. 22831.—16th May.—A. Jarrett, Glebe, N.S.W.
Liquid-delivering device.*

No. 22832.—16th May.—J. I. Watson, Brighton Beach, Vic.
Tire-pump for motor-cars.

No. 22833.—16th May.—G. Hutchinson, Christchurch, N.Z.
Pneumatic-valve cap-holder.

No. 22834.—16th May.—T. R. Hogg, Christchurch, N.Z.
Attachment to plough for feeding potatoes, &c.

No. 22835.—16th May.—M. Moore and T. J. Heskett, Melbourne, Vic.
Reducing iron-ore.

No. 22836.—16th May.—G. E. Noonan, A. P. F. Watson, and G. D. Watson, Christchurch, N.Z.
Attaching weights to trotting-horses' hoofs.*

No. 22837.—16th May.—T. Mitchell, Southbridge, N.Z.
Window-frame.*

No. 22838.—16th May.—W. Edgar, Dannevirke, N.Z.
Wire-strainer.

No. 22839.—17th May.—J. W. Wood and C. J. Ward, Christchurch, N.Z.
Operating tramway-points from moving car.

No. 22840.—14th May.—G. S. Williden, Dunedin, N.Z.
Concrete blocks.

No. 22841.—15th May.—H. J. Haywood, Aramoho, N.Z.
Floor-polishing apparatus.

No. 22842.—14th May.—P. Rabbidge, Neutral Bay, N.S.W.
Moist electrolyte for primary and secondary battery.*

No. 22843.—15th May.—H. Weatherall, Roxburgh, N.Z.
Water-lifting.

No. 22844.—17th May.—F. W. B. Greville, Wellington, N.Z.
Milk-preserving.

No. 22845.—17th May.—A. C. Idiens, Christchurch, N.Z.
Removing lead-headed nails from corrugated iron.

No. 22846.—17th May.—F. Roberts, Auckland, N.Z.
Oil-feeder.

No. 22847.—17th May.—J. J. Cronin, Wellington, N.Z.
Tea compound.

No. 22848.—17th May.—G. Robinson, Eltham, N.Z.
Horse-shoe.

No. 22849.—17th May.—C. H. Hulme, Christchurch, N.Z.
Billy-can.

No. 22850.—17th May.—W. Brighton, Invercargill, N.Z.
Reversing-gear for engines.

No. 22851.—15th May.—H. G. Bedell, Westport, N.Z.
Skylight.

No. 22852.—16th May.—T. C. McLennan, Dunedin, N.Z.
Lock-fastening.

No. 22853.—17th May.—W. Beamish, Dunedin, N.Z.
Self-setting animal trap.

No. 22854.—20th May.—H. Hamilton, Kurow, N.Z.
Means for securing horse-cover in position.

No. 22855.—20th May.—B. E. Colson, Auckland, N.Z.
Hat-fastener.

No. 22856.—20th May.—A. W. Smith, Christchurch, N.Z.
Tire.

No. 22857.—21st May.—H. Childs, Ashburton, N.Z.
Swingletree and pulley-frame.

No. 22858.—18th May.—L. W. Harris and L. Morris, Dunedin, N.Z.
Measuring wearers for garments.

No. 22859.—21st May.—G. E. Spooner, Tauranga, N.Z.
Vehicle-shaft coupling.

No. 22860.—21st May.—E. Hayes, Rough Ridge, N.Z.
Wire-coiling machine.*

No. 22861.—21st May.—W. W. Pearce, Wellington, N.Z.
Travelling-trunk.

No. 22862.—21st May.—J. Wilson, Christchurch, N.Z.
Duplicating letter and account books.*

No. 22863.—21st May.—R. Murray, Balclutha, N.Z.
Water-tap.

No. 22864.—18th May.—F. C. Brown, Komata, N.Z.
Lining for tube mills and ball mills, &c.*

No. 22865.—21st May.—A. Crook, Christchurch, N.Z.
Punching and milling machine.

No. 22866.—18th May.—B. W. Benn, Meeniyan, Vic.
Teat-cup.

No. 22867.—22nd May.—G. P. Jenkins, Ayr, Q.
Means for storing cold.

No. 22868.—22nd May.—S. C. Lee, N. A. Morkill, and Checkogram, Limited, London, Eng.
Counting and registering apparatus for turnstiles.
(Date of application under section 106, 17th January, 1907.)

No. 22869.—22nd May.—G. P. Jenkins, Ayr, Q.
Cooling brine for dairy purposes.

No. 22870.—22nd May.—W. P. West and A. Rodger, Shepperton, Vic.
Computing amount of butter-fat in milk or cream.

No. 22871.—22nd May.—F. W. Ison, Wentworthville, N.S.W.
Slicer for cutting animal-feed.

No. 22872.—22nd May.—W. Tyree, Nelson, N.Z.
Concrete building.

No. 22873.—22nd May.—T. Gare, New Brighton, Eng.
Manufacturing and repairing indiarubber goods.*
(Date applied for under section 106, 29th May, 1906.)

No. 22874.—22nd May.—F. Russell, Lismore, N.S.W.
Field-gate.*

No. 22875.—22nd May.—J. Nerén, Orebro, Sweden, and Rhedin Goldkuhl and Co. (the firm consisting of A. M. Goldkuhl and H. J. Josephson), Gothenburg, Sweden.
Balance for sashes.*

No. 22876.—22nd May.—G. Clark, Melbourne, Vic.
Constructing walls and buildings with interlocking parts.

No. 22877.—22nd May.—W. H. Carter, jun., Wellington, N.Z.
Pin.

No. 22878.—23rd May.—F. L. Fortescue, Arncliffe, N.S.W.
Ends-connector for metal tires of wheels.*

No. 22879.—23rd May.—A. Cometti, Petone, N.Z.
Potato digger and harvester.
No. 22880.—20th May.—S. T. Beattie and W. J. Chapman, Sydney, N.S.W.
Method of marking race-competitors.*
No. 22881.—22nd May.—W. G. Richardson and M. H. Scott, Auckland, N.Z.
Drying New Zealand hemp.
No. 22882.—20th May.—T. E. Carter, Auckland, N.Z.
Window-sash lifter and lock.
No. 22883.—25th May.—J. P. Lynn, Kalgoorlie, W.A.
Electro-magnetic stamp battery.*
No. 22884.—25th May.—G. W. Hopkins, Cleveland, U.S.A.
Acetylene blowpipes.*
No. 22885.—25th May.—J. B. and J. J. Salmon, Dunedin, N.Z.
Tire-protector.*
No. 22886.—25th May.—H. W. Lash, Cleveland, U.S.A.
Process of reducing iron-oxides.*
No. 22887.—25th May.—C. Chambers, jun., Overbrook, U.S.A.
Dough-mixing machine.*
No. 22888.—25th May.—C. Chambers, jun., Overbrook, U.S.A.
Dough-mixing process.*
No. 22889.—25th May.—T. C. Durham, New York, U.S.A.
Razor.*
No. 22890.—1st May.—C. Kendrick, Tariki, N.Z.
Unwinding barbed wire off spool.*
No. 22891.—25th May.—J. Walden, Matakana, N.Z.
Detection of heat in bales of wool.
No. 22892.—20th May.—W. Sim, Underwood, N.Z.
Milking-machinery.
No. 22893.—23rd May.—W. Hamer, Devonport, N.Z.
Portable boiler.
No. 22894.—23rd May.—G. W. Batcheler, Orepuki, and A. Tecofsky, Pahia, N.Z.
Stump-extractor.
No. 22895.—23rd May.—R. A. Fessenden, Washington, U.S.A.
Electric signalling.*
No. 22896.—25th May.—M. Moloney, Christchurch, N.Z.
Telephone transmitter.
No. 22897.—25th May.—P. E. and A. G. Reid and J. G. Kosseck, Wellington, N.Z.
Rat-stop for drains.
No. 22898.—25th May.—E. H. Smith, Otawhao, N.Z.
Garment-stretcher.
No. 22899.—25th May.—M. P. Coffey, South Melbourne, Vic.
Means for drawing off liquids.
No. 22900.—25th May.—J. T. Benfell, Dunedin, N.Z.
Embrocation.
No. 22901.—25th May.—W. Morton, Dunedin, N.Z.
Water-wheel.
No. 22902.—28th May.—G. E. Smith, Christchurch, N.Z.
Rubber over-shoes.
No. 22903.—28th May.—G. Parrish, Chertsey, N.Z.
Telegraph-wire insulator.
No. 22904.—28th May.—H. M. Levinge, Okato, N.Z.
Altazimuth instrument.*
No. 22905.—25th May.—J. C. and O. H. Drewet, Auckland, N.Z.
Indiarubber concrete.
No. 22906.—23rd May.—J. H. Adams, Auckland, N.Z.
Ferro-concrete former.
No. 22907.—25th May.—W. G. Richardson, Auckland, N.Z.
Flax-waste as cattle-food.

Complete Specifications filed after Provisionals.

LIST of complete specifications filed after provisional specifications, from the 16th to the 29th May, 1907, inclusive:—

No. 21460.—D. L. Turner, bleaching and drying flax.
No. 21540.—H. Quertier, sprinkling and cleaning tramway-tracks.
No. 21558.—A. Orr, turnip-thinner.
No. 21634.—A. J. Hutchinson, household indicator and check.
No. 21648.—M. Juriss, securing outer wearing-faces to boot or shoe sole.
No. 21670.—J. D. McLaurin, toaster and griller.
No. 21709.—J. P. Maloney and H. Chisholm, station or street indicator.
No. 21819.—J. D. Smith and J. J. Scott, railway-truck door.
No. 22239.—R. R. Woodcock, flushing-apparatus.
No. 22531.—C. J. Johnson, automatically drawing down trolly-poles when such leave the wire.

Notice of Acceptance of Complete Specifications.

Patent Office,
Wellington, 29th May, 1907.

COMPLETE specifications relating to the undermentioned applications for Letters Patent have been accepted, and are open to public inspection at this office. Any person may, at any time within two months from the date of this *Gazette*, give me notice in writing of opposition to the grant of any such patent. Such notice must set forth the particular grounds of objection, and be in duplicate. A fee of 10s. is payable thereon.

No. 20708. — 12th February, 1906. — WILLIAM HENRY JORDAN, of Christchurch, New Zealand, Builder. Improvements relating to cooking-ranges and means for heating and circulating water in connection therewith.*

Claim.—In means for heating and circulating water, the combination with a cooking-range and with a water-supply cylinder, of a system of pipes arranged within the fire-box of the stove in the manner described so as to leave the heat a free passage to the oven, and connections leading from the supply cylinder to the pipe system and from such system to the cylinder, substantially as specified.

(Specification, 2s.; drawing, 1s.)

No. 21208.—21st May, 1906.—FREDERICK JOHN FARRELL, of Stokes Road, Mount Eden, Auckland, New Zealand, Auctioneer. An automatic fire or burglar alarm.*

Claim.—The method as described in the specification, by which, when by means of any known arrangements a fire or other alarm-signal or electric current sets free and into motion a train of wheel gearing actuating a phonographic record, the telephone-receiver is automatically lifted or otherwise conveyed to and retained in the position in which it can best receive and transmit the message reproduced by the phonograph, and when the receiver is in that position the winding-spindle, pulley, or drum is thrown out of gear, and thereafter retained there by any suitable arrangement, substantially as indicated and described by the specification.

(Specification, 2s. 3d.; drawing, 1s.)

No. 21213.—28th May, 1906.—WILLIAM MADDER, of Club Hotel, Kaikoura, Marlborough, New Zealand, Builder. Improvements relating to balloting at elections and the like and apparatus therefor.*

Claims.—(1.) In apparatus for the purpose indicated, a lid covering an opening in the front of the apparatus, a shute closed by the lid and passing through the opening, a tail-piece integral with the lid and projecting into the apparatus, and means operable by a ticket or card for releasing the tail-piece, substantially as set forth. (2.) The employment with mechanism described in claim 1 of a hinged plate adapted to engage the tail-piece of the lid until released by the insertion of a ticket or card through the front of the apparatus, substantially as set forth. (3.) The employment with mechanism described in claims 1 and 2 of a rod secured to the lid and curved to a circle having the hinge of the lid as its centre, the said rod elevating the hinged plate to allow the ticket to fall freely into the interior of the apparatus, substantially as set forth. (4.) The employment with mechanism described in claims 1 and 2 of an arm formed by a continuation of the tail-piece, and having a pawl at its extremity, whereby counting-mechanism is operated by the raising of the lid, substantially as set forth. (5.) The described apparatus whereinto a voter inserts a card or ticket, thereby releasing a lid, which can then be raised for the introduction of a voting-ball, the raising of the lid operating counting-mechanism to record the number of votes given to the candidates, substantially as set forth. (6.) The described counting-mechanism consisting of a series of wheels provided with peripheral teeth and with teeth projecting from the sides of the wheels and meshing with the said peripheral teeth, substantially as set forth. (7.) The combination with apparatus described in claim 1 of a shute to which the shutes from the openings converge, a wheel provided with peripheral cups adapted to catch voting-balls and slotted transversely, and a shute provided with a fin adapted to pass into the slots through the cups, substantially as set forth. (8.) The combination and arrangements of parts comprising the improvements relating to ballotting at elections and the like and apparatus therefor, substantially as and for the purposes specified, and as illustrated in the drawing.

(Specification, 7s.; drawing, 2s.)

No. 21336.—22nd June, 1906.—ALFRED JOHN EDWARDS, of Auckland, New Zealand, Tram-conductor. Improved means for controlling the trolly-poles of electric cars.*

Claims.—(1.) In means for controlling the trolly-poles of electric cars, a weight capable of vertical movement mounted on the end of the car, catches for retaining the weight in a raised position, a cylindrical sleeve passing loosely and vertically through the weight, and capable of longitudinal movement, engaging with the catches, a rod connected to the control-rope of the pole, and means upon the lower end of the rod for engagement with the sleeve, substantially as specified. (2.) In means for controlling the trolly-poles of electric cars, in combination, a vertical slide frame, a weight fitting within the frame, lever catches pivoted at the top of the frame, formed with hooks for engagement with the weight and with inwardly extending members, a sleeve passing loosely and vertically through the weight and underlying the inwardly extending members of the catches, and a rod connected to the control-rope passing loosely through the sleeve, provided with means on its lower end for engagement with the sleeve, substantially as specified. (3.) The improved means for controlling the trolly-poles of electric cars, substantially as described and explained, and as illustrated in the drawings.

(Specification, 6s. 6d.; drawing, 1s.)

No. 21344.—22nd June, 1906.—GEORGE GRAY, care of Messrs. Reid and Gray, Dunedin, Otago, New Zealand, Engineer. Improvements in seed-sowers.*

Claims.—(1.) For the purpose indicated, in combination with a seed-sower, a bracket having arms provided with bearings to receive the trunnions of the seed-sower, a spring attached to the bracket and bearing upon a trunnion, substantially as set forth. (2.) In the means described in claim 1, the employment of a screw for adjusting the pressure of the spring upon the trunnion, and lugs for retaining the spring in position upon the bracket, substantially as set forth. (3.) For the purpose indicated, the employment of a lever with or without a friction-pad pivoted to the bracket described in claim 1, and provided at its free end with an adjustable weight, the said lever bearing upon the trunnion of the seed-sower, substantially as set forth.

(Specification, 2s. 3d.; drawing, 1s.)

No. 21368.—28th June, 1906.—HUGH WATT, of 82 William Street, Melbourne, Victoria, Australia, Mechanic. Fastening and label check device for mail-bags and similar receptacles.*

Claims.—(1.) In a fastening and label check device for mail-bags and similar receptacles, in combination, a loop as A having links as B and A3, a box or case as C, a catch lever as H, a seal-cutting lever as J, means for operating the said levers, a device to hold the seal, and an address-plate, substantially as and for the purposes set forth. (2.) In a fastening and label check device for mail-bags and similar receptacles, in combination, parts as claimed in claim 1, means for operating the levers H and J consisting of an operating-lever E, connecting-link F, and slot as J2, and means for retaining the lever E in a closed position or releasing same, consisting of a hasp L, lug-pin E′, spring M, and washer M2, substantially as and for the purposes set forth. (3.) In a fastening and label check device for mail-bags and similar receptacles, in combination, parts as claimed in claims 1 and 2, a seal-holder consisting of a hinged-end cap-piece R having a catch extension-piece R′, lugs R4, transparent plate R5, and a surrounding recess T, a spring-catch bolt O having an arm N and stopper-block N′, an eyelet E2 attached to the lever E, and a hinged address-plate S, substantially as and for the purposes set forth. (4.) The general combination and arrangement of the several parts forming a complete fastening and label check device for mail-bags and similar receptacles, substantially as and for the purposes set forth, and as illustrated on the drawings.

(Specification, 6s. 6d.; drawing, 1s.)

No. 21380.—29th June, 1906.—JAMES OLIVER GALBALLY, of 32 Adelaide Road, Wellington, New Zealand, Draughtsman. Improvements in window-sashes.*

Claim.—A window with top and bottom sashes made to revolve for cleaning, with strips and beads, such beads interlocking into one another, and hinged on the outside at centre (or with screw at bottom) with hinges that will allow of the sash to be lifted out, and springs to keep sashes in adjustment, and a piece at bottom of window to allow the top sash to be pulled down and reversed, substantially as described.

(Specification, 1s. 9d.; drawing, 1s.)

No. 21411.—4th July, 1906.—JAMES BROWN, of No. 440 Elizabeth Street, Melbourne, Victoria, Australia, Spring-maker. An improved combined lever-jack, stump-puller, and cramp.*

Claims.—(1.) In an appliance of the type specified, a jaw as *a*1 and a horn or lug as *a*2 on sliding toothed bar, combined with frame-bars B having jaw-plates as B1 secured to them, and hooks as *b*2 at their upper ends, substantially as described and shown. (2.) An appliance of the type specified, consisting of a toothed-edge sliding-bar as A, having jaws as *a*1–*a*2 projecting from its edges at its lower end, side bars as B secured together by strap as *b*1 and the tee-foot plate as *b* having a hook-shaped gap as *b*3, and with the upper ends of bars as B furnished with hooks as *b*2, and suitable lever and pawl lifting and releasing gear, substantially as described and shown. (3.) In an appliance of the type specified, the sliding tooth bar operating-gear consisting, in combination, of a lever as D having a toothed-shape end *d*4, side links D2 having pin D1 supporting said lever, while the upper centres of links are carried by a pin *d*, which also supports a pawl *d*1, and side cheek plate B1 carrying pin *d* and secured to the side bars or stanchions B, substantially as described and shown. (4.) In an appliance of the type specified, in combination, a tooth end swing-lever as D, links D2, pawl *d*1, pins D1 and *d*, cheek-plates B1, pawl-eye *d*5, connecting-spring *d*6, pawl-compression spring *d*2 and jaw *d*3, with the side plates or stanchions B having gaps *d*7 in their edges, and a guide-tooth *d*8 projecting from edge of one side bar, substantially as described and shown. (5.) In an appliance of the type specified, a lever constructed in two parts—viz., a fulcrum lower end D having sockets E at right angles to one another, and with a toothed end *d*4 to engage the ratchet teeth of sliding-bar A, and a lever-handle E1 which fits in either of aforesaid sockets, substantially as described and shown. (6.) In an appliance of the type specified, the jaw-ended shoe *b* provided with a slotted eye *b*3 to receive a link or shackle, substantially as described and shown. (7.) An appliance of the type specified, consisting of a toothed-edge sliding-bar as A, furnished with lower jaws as *a*1–*a*2 and upper end grips, the side bars as B secured together at their lower end to a foot-plate as *b*, and with their upper ends provided with hooks *b*2, the holding-strap *b*1, jaw or cheek plates B1 secured to plates B, having gaps as *d*7 and guide-lug as *d*8, lever D, lowering-pawl as *d*1, and their appurtenant spring connection as *d*5 and *d*6, upper link C to engage hooks *b*2, link F to engage jaws *a*1 and *a*2, and the hook retention chain G to engage the plate *b*, substantially as described and shown.

(Specification, 5s. 6d.; drawing, 1s.)

No. 21414.—4th July, 1906.—JOSEPH O'HARA and WILLIAM JAMES O'HARA, of Papatoetoe, Auckland, New Zealand, Coachbuilders. Improvements in adjustable fastenings on agricultural ploughs and like implements.*

Claims.—(1.) The combination in an adjustable plough-beam fastening of two pieces of iron of any suitable width or thickness, with the plough-beam, one on each side, bent outward at their centres, and bolted securely to it, having a notch in their upper edges, opposite each other, and at right angles to the plough-beam, to act as bearings, and large enough for the horizontal cross-bar to rest snugly in them, substantially as and for the purposes described. (2.) The combination in an adjustable plough-beam fastening of a horizontal cross-bar for carrying a wheel or skeath, resting in notches, which act as bearings, in bent side-irons, bolted one on each side to the plough-beam, and held securely in position by a U bolt and nuts to the plough-beam, substantially as and for the purposes described.

(Specification, 2s. 9d.; drawing, 1s.)

No. 21432.—12th July, 1906.—JOHN ANDERSON PATERSON, of Wellington, New Zealand, at present residing at Kirwee, Canterbury, New Zealand, Engineer. Improvements in apparatus for making incandescent oil-gas, adapted to all the requirements of lighting, heating, and motive power.*

Claims.—(1.) In means for the production of gas from hydrocarbon oils, a carburetting-chamber, an absorbent block or blocks mounted therein so as to extend across the

area thereof and to leave spaces at each end of the chamber, a perforated tray extending over the area of the block, a perforated pipe ring encircling within the tray and connected with an oil-supply without the chamber, a pipe ring encircling within the chamber beneath the cover and having perforations in its upper edge, a source of air-compression with which such ring is connected, and means for mixing the gas formed within the carburetter with a further quantity of air in any desired proportion, substantially as specified. (2.) In means for the production of gas from hydrocarbon oils, the combination with a carburetting-chamber constructed in the manner set forth in claim 1, of a mixing-chamber into the bottom of which the gas generated in the carburetter is introduced, and of an air-pipe leading from a source of air-compression also into the bottom of the mixing-chamber, substantially as and for the purposes specified. (3.) The means for the production of gas from hydrocarbon oils, substantially as described and explained, and as illustrated in the drawings.

(Specification, 5s.; drawing, 1s.)

No. 21640.—16th August, 1906.—WILLIAM HARGREAVES HAMMOND, of 104 Moncur Street, Woollahra, New South Wales, Australia, Builder. Water-tube steam boiler.*

Claims.—The arrangement and combination as above set forth. The arrangements and combination of front of boiler, together with the peculiar construction of water-tube fire, liquid, or other fuel grating. The arrangements and combination substantially as before set forth of the water-tube fire, liquid, or other fuel grating. The arrangements and combination substantially as before set forth, the circular shape of the water-tubes after forming the fire, liquid, or other fuel grating. By the arrangement and combination as before set forth of front of boiler, the arrangements of water-tube fire, liquid, or other fuel grating, together with the half-circular shape of water-tubes after forming the fire, liquid, or other fuel grating, and the arrangement of the two arms or water-holders as marked on plan, as the means of quick generation of steam.

(Specification, 2s. 6d.; drawing, 1s.)

No. 22024. — 7th November, 1906. — GILBERT THOMAS WILSON, of Broadway, Stratford, Taranaki, New Zealand, Engineering Draughtsman, Public Works Office, Stratford aforesaid, and HARRY DOWNS, of Gisborne, Hawke's Bay, New Zealand, Farmer. Improvements in railway fish-plates.*

Claims.—(1.) A jointing-device comprising, in combination, a jaw having a pair of projecting lugs adapted to take into holes in the respective parts to be joined, a second jaw having a screw-threaded hole, a bolt passing through a hole in the first jaw and screwing into the threaded hole in the second jaw, substantially as specified. (2.) In jointing-devices, in combination with two parts to be joined, a jaw projecting lugs thereon respectively passing into holes formed in each of said parts, a bolt adapted to pass through a hole in said jaw, the parts to be joined having corresponding semicircular recesses in their ends which together form a hole for the passage of the bolt, and a second jaw having a screw-threaded hole through which the bolt is screwed, substantially as specified.

(Specification, 1s. 9d.; drawing, 1s.)

No. 22086.—21st November, 1906.—WILLIAM JOHN TEESE, of 80 William Street, Balaclava, Victoria, Australia, Engineer. Improvements in milking-apparatus.*

Claims.—(1.) An improvement in milking-apparatus consisting of a vacuum pump, a pipe from which leads to a milk and vacuum tank and to inner linings of teat-cups, said pipe having cut-off cocks or valves; an air-compression pump, a pipe from which leads to compressed-air chambers around the inner lining of the teat-cups, said pipe having thereon one or more air-pressure regulating-valves and cut-off cocks or valves, all as and for the purposes described, or as illustrated in the drawings. (2.) In improvements in milking-apparatus, a teat-cup having a central hole in its bottom, a fold at its top, an open-bottomed upper circular compressed-air passageway inside said fold, tubular connections through the fold and through the said upper circular compressed-air passageway, said tubular connections communicating with a lower compressed-air ring, air-escape holes in said air-ring, an open-topped metallic casing around said fold, an outward bead on the top of said metallic casing, a bottom piece in said metallic casing, two holes through said bottom piece, one accommodating a milk-outlet tube having at its top a flange and on its bottom a nut, the other a compressed-air inlet tube communicating with the compressed-air chamber, all as and for the purposes described, or as illustrated in the drawings.

(Specification, 7s.; drawing, 1s.)

No. 22393. — 2nd February, 1907. — WALTER RAGLAN GOVER, of "Cleon," Wyatt's Avenue, Burwood, near Sydney, New South Wales, Australia, Corset-maker. An improved spinal corselet.

Claims.—(1.) An improved spinal corselet consisting of a back only with armholes, and an insertion of elastic webbing in the centre of the back so as to form one piece without lacing, as set forth. (2.) An improved spinal corselet consisting of a back only with armholes, and an insertion of elastic webbing in the centre of the back so as to form one piece without lacing, in combination with a cincture such as D, D1, or an abdominal belt such as F, F1, with or without stocking-suspenders, as specified. (3.) The general arrangement, construction, and combination of parts in the improved spinal corselet as set forth, and for the purposes specified.

(Specification, 1s. 9d.; drawing, 1s.)

No. 22411.—6th February, 1907.—ROBERT LOUIS HOWELL MURRAY, of 193 Karangahape Road, Auckland, New Zealand, Electrician. Improvements in portable acetylene-gas-lamp generators.

Claims.—(1.) The placing of a porous cork at the bottom of the generating-chambers of portable acetylene-gas lamps instead of having an hermetically sealed cap, and supplying the water to the generating-chamber by means of an adjustable tap. (2.) The general arrangement, construction, and combination of parts as set forth in the specification, and illustrated in the drawings.

(Specification, 2s. 3d.; drawing, 1s.)

No. 22416.—12th February, 1907.—WILLIAM WILKINS, of Nicholson Street, Balmain, Pattern-maker, and JOHN NOBBS, of Granville, Conveyancer, both in New South Wales, Australia. Improvements in the bridge back plates of furnaces.

Claims.—(1.) An improved bridge back plate for a furnace, consisting of a fixed angle plate and a series of adjustable section plates resting thereon, substantially as described and illustrated in the drawings. (2.) In an improved bridge back plate for furnaces, one or more sectional plates capable of being secured on the vertical wall of a fixed angle plate without the aid of bolts or other binding-device, substantially as described, and illustrated in the drawings. (3.) In an improved bridge back plate for furnaces, one or more adjustable section plates in combination with a fixed lower plate, substantially as described, and illustrated in the drawings.

(Specification, 2s. 6d.; drawing, 1s.)

No. 22603.—27th March, 1907.—NICHOLAS OLSEN, of West Plains, Southland, New Zealand, Labourer. Improved means and apparatus for opening and shutting gates.

Claims.—(1.) Apparatus for the purpose indicated, consisting of the parts arranged, combined, and operating substantially as and for the purposes specified, and as illustrated in the drawing. (2.) In apparatus for the purpose indicated, in combination with a gate, a rocking-plate and triple cranks one upon each side of the gate, one member of each triple crank being connected to the rocking-plate by wires, rods, or the like, and the other members of each crank being so formed that when one crank is approximately vertical the other is horizontal, whereby when the horizontal crank is turned by a wheel coming in contact with it the gate is opened or closed, as the case may be, substantially as specified and illustrated. (3.) In apparatus for opening and closing a gate, an arrangement wherein the frame-post of the gate is carried upon a rocking-plate, and cranks are connected by wire or the like to said rocking-plate, whereby when the said cranks are operated by a vehicle-wheel the gate is canted and opened or closed as the case may be, substantially as specified and illustrated. (4.) In apparatus such as described in claim 2, the employment of a pintle projecting from the bottom of the frame-post, a block driven into the ground below the frame-post, a rocking-plate hinged to the block and to which

the pintle is pivoted, a spring coiled around the pintle and having one end secured to the frame-post and its other end fixed to the rocking-plate, substantially as set forth.

(Specification, 3s.; drawing, 1s.)

No. 22625.—2nd April, 1907.—ERNEST SMITH BALDWIN and HENRIE HAMPTON RAYWARD, carrying on business as "Baldwin and Rayward," at 71 Lambton Quay, Wellington, Patent Agents (nominees of the Sutherland Rifle-sight Company, Limited, of Westville, Nova Scotia, Canada—the assignees of Murdock Evett Sutherland, of Westville aforesaid). Improvements in rifle-sight.

Claims.—(1.) In a leaf sight for firearms, a pivoted plate having a central slot, laterally projecting perforated lugs on said plate, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in the lugs on said plate, a sleeve slidable in the lug of the sighting-bar and engaging said tangent screw, and means for locking the sighting-bar on said sleeve. (2.) In a leaf sight for firearms, a pivoted plate having a central slot, laterally projecting perforated lugs on said plate, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in the lugs on said plate, a sleeve slidable in the lug of the sighting-bar and engaging said tangent screw, and means for locking the sighting-bar on said sleeve, in combination with a transversely extending screw, a wind-gauge in screw-threaded engagement with said screw, and a spring-actuated pin. (3.) In a leaf sight for firearms, a pivoted plate having a central slot, perforated lugs on said plate, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in the lugs on said plate, an internally threaded and longitudinally slotted sleeve mounted on said screw and slidable on the lug of the sighting-bar, said sighting-bar having a pair of recesses therein, an adjusting-screw in one of said recesses, a wind-gauge in screw-threaded engagement with said screw, an enlarged head on said screw, and a spring-actuated pin in the other of said recesses bearing against said enlarged head. (4.) In a leaf sight for firearms, a pivoted leaf plate having a central slot, a sleeve extending longitudinally of said plate, a recessed sighting-bar slidably mounted on said plate, means for adjusting said sighting-bar longitudinally of said plate, a wind-gauge having a screw-threaded portion, said member being mounted in said sighting-bar, and means for locking said sighting-bar in position on said sleeve. (5.) In a leaf sight for firearms, a pivoted plate having a central slot, lugs projecting laterally from said plate, a sleeve slidably mounted on said lugs, a sighting-bar slidably mounted on said plate, and a set-screw carried by said sighting-bar, said set-screw being adapted to engage said sleeve to lock the sighting-bar in position. (6.) In a leaf sight for firearms, a pivoted plate having a central slot, perforated lugs on said plate, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in the lugs on said plate, an internally threaded and longitudinally slotted sleeve mounted on said screw, said sleeve being guided by said lugs on the plate, in combination with a wind-gauge having an internally screw-threaded lug connected therewith, a screw-threaded adjusting-member rotatably mounted in a recess in said sighting-bar, and a spring-actuated pin adapted to bear against said screw-threaded member. (7.) In a leaf sight for firearms, a pivoted plate having a central slot, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in said lug, an internally threaded and longitudinally slotted sleeve guided by said lug and mounted on said screw, in combination with means for locking said sighting-bar upon said sleeve, a wind-gauge mounted upon said sighting-bar, a lateral screw-threaded projection formed upon said wind-gauge, a mill-headed adjusting-screw extending longitudinally within a recess in said sighting-bar, means for locking said adjusting-screw in position in said sighting-bar, and spring-actuated means for giving an audible signal when said adjusting-screw is rotated to shift the wind-gauge. (8.) In a leaf sight for firearms, a pivoted plate having a central slot, perforated lugs on said plate, a sighting-bar transversely mounted across said slot, a laterally extending perforated lug integral with said sighting-bar, a tangent screw mounted in said lug, an internally threaded and longitudinally slotted sleeve mounted on said screw, a lug on the plate engaging a slot in said sleeve, in combination with means for locking said sighting-bar upon said sleeve, a wind-gauge having a screw-threaded lug connected therewith, said lug being adapted to travel in a recess in said sighting-bar, and means for shifting said wind-gauge longitudinally of the sighting-bar and transversely of the central slot. (9.) In a leaf sight for firearms, a pivoted plate having a central slot and integral laterally projecting perforated lugs, a recessed and perforated sighting-bar slidably mounted on said plate, an internally screw-threaded longitudinally slotted sleeve projecting through a perforation in said sighting-bar, said sleeve being guided on said lugs, a tangent screw mounted in the said perforated lugs and engaging said sleeve, in combination with a wind-gauge having a screw-threaded lug portion, an adjusting-screw passing through said lug portion of the wind-gauge, and a spring-actuated pin co-operating with recesses in the head of said adjusting-screw. (10.) In a leaf sight for firearms, a pivoted plate having a central slot, lugs projecting laterally from said plate, an internally screw-threaded sleeve slidably mounted on said lugs, a sighting-bar slidably mounted on said plate, a set-screw carried by said sighting-bar, said set-screw being adapted to engage said sleeve to lock the sighting-bar in position, and a screw-threaded stem passing through said lugs in engagement with said sleeve. (11.) In a rifle-sight, a sighting-bar having a perforated lug projecting therefrom, in combination with a wind-gauge slidably mounted on said sighting-bar, a screw-threaded lug on said wind-gauge, and a screw-threaded member rotatably mounted in said sighting-bar, in engagement with said wind-gauge, in such manner that it is closely surrounded on three sides by the material of said sighting-bar for substantially the entire length of said screw-threaded member. (12.) In a rifle-sight, a leaf plate, a screw-threaded sleeve carried by said plate, means for moving said sleeve longitudinally of the plate, a sighting-bar slidable on said leaf plate independently of the movement of said sleeve, and means for locking said sighting-bar to said sleeve.

(Specification, 11s.; drawing, 3s.)

No. 22636.—4th April, 1907.—GEORGE JAMES COX, of Campbell Road, Balwyn, Melbourne, Victoria, Australia, Gas-engineer. Improvements in appliances for securing cash-boxes of coin-freed apparatus.

Extract from Specification.—The novelty of this invention consists—(*a*) in attaching one end of a long metal tube, of comparatively small diameter, to the inside of the front of a cash-box drawer, or to the detachable front of a cash-box, or to the bottom of a cash-box, which in either case forms an appurtenance to or a portion of a coin-freed apparatus, and wherein the said tube is formed to project within such cash-box approximately the full height or depth of the box, and to carry upon such projected end a screw stud-pin or an equivalent hook-stem as a portion of a fastening-device, and in such a manner that when a box spanner or an equivalent screw-turning appliance is passed into the aforesaid tube from the outside of a cash-box drawer, or front or base of such cash-box, the said turnscrew or spanner appliance can operate on the aforesaid screw-pin or equivalent hook-stem in a manner that when the cash-box or a detachable component part thereof is in its normal position the said screw-pin or hook-fitting will screw or hook into or on to a complementary nut, or a catch portion of the fastening-device, which is permanently attached to the body of the gas-meter, or to any suitable portion of the structure of a coin-freed apparatus, and in a manner as will securely attach the cash-box to the main structure of the apparatus; (*b*) in arranging the tube provided to carry a portion of a cash-box-fastening appliance as aforesaid, to be applied to a cash-box, or the drawer of such cash-box, as a detachable and a separate fitting, and providing a flange or clip to the end of the tube that would otherwise be attached to the box for the purpose of causing the said flange to bear on the outside plane of the cash-box front, and so act in a manner equivalent to the purpose for which the tube is otherwise attached to the cash-box or its drawer or front as aforesaid; (*c*) in arranging the said flanged tube to act protectively, analogous to the action of a sliding-bolt shaft, by passing such tube through the sides of a cash-box casing, and either through wings formed on a detachable cash-box front or through the sides of a cash-box drawer, in addition to such tube acting as the carrier of a portion of a cash-box-fastening appliance as aforesaid; (*d*) in forming the projected end of the aforesaid tube as a swivel formation, or as a nut, or as a collar, within or against which a screw connecting stud-pin or hook-ended device is actuated by a box spanner or fork, or screwed socket turnscrew appliance, passed up the said tube, for the purpose aforesaid; (*e*) forming a box spanner or equivalent screw-wrench appliance wherein the spindle of such is formed in jointed links, and centring sections of such links, for the purpose of enabling a spindle of the necessary length being passed into or withdrawn from a tube for purposes as aforesaid,

under circumstances that would not admit the use of a spanner having a rigid form of spindle; (*f*) forming a lock-nut provided as a portion of the aforesaid complementary and fixed portion of the fastening-appliance, wherein the said nut is provided with a flange, in a manner as will cause such flange to form a rim catch for engaging the hook-ended portion of the fastening or coupling device as may be carried in the end of the projected tube as aforesaid, or alternatively the complementary and fixed portion of the said hook-ended appliance is formed within a hollow bolt-head-shaped fitting; (*g*) applying a screw stud-pin as a portion of a fastening-device for cash-boxes of coin-freed apparatus, wherein the end of such pin screwing into the fixed portion of the appliance as aforesaid is formed as a right-handed screw, and the end of such pin as would otherwise be covered and be turned by a box spanner or equivalent appliance is formed as a left-handed screw-stud end, and wherein such pin is actuated by a device outwardly shaped as a T-handled box spanner, but wherein the socket or spanner portion is internally screwed for receiving the aforesaid left-hand-threaded stud; all as will be more fully described, and be more or less shown by the drawings.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, £1 1s.; drawing, 1s.)

No. 22648.—4th April, 1907.—THOMAS HENERY DAVIDSON, of 123 Union Street, Dunedin, New Zealand, Mechanical Engineer. Improved flax-scraping machine.

Claim.—Two drums with scrapers on each drum at an angle of 30°, said scrapers yielding so as to form a long scrape on both sides of the leaf.

(Specification, 9d.; drawing, 1s.)

No. 22665.—10th April, 1907.—WILLIAM DUNZ, of Granville, Shoreham, Sussex, England, Manager. Improvements in laying jointless stone-wood flooring.

Claims.—(1.) The improvement in jointless composition flooring which consists in first laying the portions of the flooring intervening between the main supports thereof, and subsequently joining the same together by laying composition over the main supports in such a manner as to form a homogeneous floor-surface, free from cracks or fissures, substantially as set forth. (2.) In combination with a flooring of reinforced concrete, a jointless composition flooring formed of strips or panels of composition laid between the supports and allowed to set, and subsequently joined together free from cracks or fissures by strips of like material laid above the main supports of the floor, substantially as and for the purpose set forth. (3.) The improved homogeneous composition flooring constructed substantially as described, and illustrated in the drawing.

(Specification, 2s. 6d.; drawing, 1s.)

No. 22666.—10th April, 1907.—ALWIN FISCHER, of O'Connell Street, North Adelaide, South Australia, Plumber. Quick-heating water-vessel.

Claim.—In water-heating vessels, a bottom which is shaped as a deep corrugated or fluted cone, with a flat edge or rim, for the purpose of fixing it to the side of the water-vessel.

(Specification, 1s.; drawing, 1s.)

No. 22669.—10th April, 1907.—ALWIN FISCHER, of O'Connell Street, North Adelaide, South Australia, Plumber. Improved atmospheric gas-burner.

Claims.—(1.) In atmospheric gas-burners, a hollow shaft for the passage of gas and air, attached to a gallery and having an enlarged top as illustrated. (2.) In atmospheric gas-burners having a hollow shaft fixed on a gallery and having an enlarged top, a cover or spreader, similar in shape to the enlarged top of the shaft, for the purpose of evenly distributing the gas and air. (3.) In atmospheric gas-burners having a shaft with an enlarged top, and having a spreader or cover, one or more rims with grooves to form outlet-passages for the gas and air, such grooved rims being either separate or attached to the enlarged top of the shaft and the under-side of the cover or spreader. (4.) An atmospheric gas-burner consisting of a gallery on which is fixed a shaft enlarged on the top, and a cover or spreader similar in shape to the enlarged top of the shaft, together with a rim or rims having grooved passages for the escape of gas and air, all substantially as described and shown, forming a combination of parts.

(Specification, 2s. 3d.; drawing, 1s.)

No. 22673.—11th April, 1907.—RICHARD SYLVESTER, of 25 Victoria Avenue, Lindsay, Victoria, Ontario, Canada, Manufacturer of Agricultural Implements. Improvements in or relating to agricultural machines.

Extract from Specification.—This invention relates to certain new and useful improvements in agricultural machines having a traction-truck to which can be detachably connected the separator of a threshing-machine, or which can be employed to draw a gang of ploughs, drag a series of cultivators or seeding-machines, carry a harvester-binder, or perform any other power work ordinarily required in farming operations, the traction-truck being provided with a motive mechanism which can be employed to propel the traction-truck and actuate the operating parts of the machine propelled thereby. The invention further relates to the peculiar construction and arrangement of the main and fore carriages constituting the essential parts of the traction-truck, and to the peculiar manner in which the steering-wheels are connected to the fore-carriage to compensate for any variation in the level of the path over which the traction-truck is travelling, and to the controlling-mechanism for the steering-wheels whereby they will be quickly sensitive to any desired change of direction. The invention further relates to a grain-carrier for the separator, consisting of a grain table extending from the front end of the separator at a place below the concave and grates of the cylinder to the vicinity of the sieves, and located below the plane of the straw-decks but above the plane of the sieves, and a grain-belt travelling above the top surface of the grain-table, to drag or convey the grain and chaff from the cylinder to the sieves and thus maintain a regular and continuous delivery of the grain and chaff thereto, irrespective of the inclination of the apparatus from a horizontal plane. This invention further relates to the peculiar construction of the feeder, and its location on the top of the separator, whereby the entire weight of the separator will be evenly balanced on both sides of the axle of the traction-wheels, and to a sheaf-carrier and elevator positioned at the sides of the feeder to receive the sheaves and evenly and continuously deliver them to the feeder-carrier. The invention further relates to the water-cooling means for the motor, which consists of a fan carried by the traction-truck and forming an inseparable part of the motor employed to propel the traction-truck and actuate the driven parts of the apparatus, and a water-casing also carried by the traction-truck enclosing or partially enclosing the fan-casing, and suitably connected with the water-space of the water-jacket of the motor, whereby a circulation of water may be maintained from the water-jacket to the water-casing, from which the heat units or calories are extracted by the circulation of the air caused during the revolution of the fan.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 17s. 6d.; drawing, 7s.)

No. 22676.—11th April, 1907.—THOMAS IGNATIUS YOURELLE, of Harcourt's Building, Lambton Quay, Wellington, New Zealand, Architect, and JOHN BELLINGHAM, of Featherston Street, Wellington aforesaid, Importer. Improvements in ferro-concrete and fireproof construction.

Claims.—(1.) The improvements in ferro-concrete and fireproof construction set forth, and illustrated in the drawings. (2.) For the purpose indicated, the employment of a framing composed of metal tubes, said tubes carrying clips for the purpose of supporting facing-material, substantially as set forth. (3.) For the purpose indicated, a framing composed of metal tubes, in combination with strips secured to said clips to form stanchions or studs, and facing-material secured to said strips, substantially as set forth. (4.) For the purpose indicated, a framing of metal tubes, in combination with clips upon said tubes, strips secured to the clips, and facing secured to the strips, substantially as set forth. (5.) For the purpose indicated, a framing of metal tubes, in combination with clips upon said tubes, strips secured to the clips, facing secured to the strips, and wires connecting the clips, substantially as set forth. (6.) For the purpose indicated, a framing of metal tubes, in combination with clips upon said tubes, strips secured to the clips, facing secured to the strips, and concrete or other material filling the spaces between the frame and the facing, substantially as set forth.

(Specification, 3s.; drawing, 2s.)

No. 22684.—13th April, 1907.—JOHN EDWARD FRIEND, of Albion Street, Annandale, New South Wales, Australia, Engineer. Improvements in rotary steam-engines.

Claims.—(1.) In a rotary engine, in combination, a piston, an annular chamber in which said piston revolves, a cylindrical abutment, a correspondingly shaped casing in which said abutment rotates, there being a cavity in said abutment for the passage of the piston, with means for rotating the abutment synchronously with the piston, substantially as specified. (2.) In a rotary engine, in combination, a piston, an annular chamber in which said piston revolves, a cylindrical abutment, a correspondingly shaped casing in which said abutment rotates, there being a cavity in said abutment for the passage of the piston, a disc upon which said piston is fixed, a main shaft for said disc, a toothed wheel upon the main shaft, a toothed wheel connected to the abutment corresponding to and gearing with the wheel upon the main shaft, substantially as specified. (3.) In a rotary engine as described, in combination, a cylindrical abutment provided with a cavity, a casing in which the abutment rotates, circular walls within the engine, with means for making a steam-joint between the periphery of the abutment and said circular walls, said means comprising contact-blocks dovetailed in said circular walls and compression-springs for projecting the same, substantially as specified. (4.) In a rotary engine such as described, means for making a steam-joint between the periphery of the abutment and the circular wall of the annular chamber in which the piston of the motor revolves, said means consisting of the combination with the said circular wall of a ribbed plate fitting a dovetailed recess therein, and a contact-bar having a groove to receive the rib of said plate, and springs located in holes in the said plate, substantially as specified. (5.) A compound rotary steam-engine comprising, in combination, coaxial annular chambers, a main shaft common to and eccentric with said chambers, discs upon said shaft one for each chamber, a piston upon each of said discs, recessed cylindrical abutments rotatably mounted one in each annular chamber, valves controlling admission and exhaust of steam to and from the annular chambers, with means for rotating said abutments and for actuating said valves from the said main shaft, substantially as specified. (6.) A compound rotary steam-engine comprising a casing, a partition dividing the casing in a plane at right angles to its axis, circular walls projecting towards each other within the casing on each side of the partition, a main shaft axial with said circular walls, a disc secured to the shaft upon one side of the partition, a piston upon the disc, a second disc similarly secured upon the other side of the partition, a piston of larger area thereon, the said pistons rotating in annular chambers bounded by the circular walls and the casing, rotatably mounted abutments one for each annular chamber, means for rotating the abutments, steam-valves controlling admission and exhaust of steam, gear for actuating the steam-valve, and a pipe conducting steam exhausted from one annular chamber for use in the other annular chamber, substantially as set forth. (7.) The combination in a rotary engine of a main shaft, cams thereon set at diverse angles, rocking-levers adapted to be rocked by the cams, blocks slidable in bifurcations of the rocking-levers, pins through the block, suspension-links to which the pins are fixed, arms to which the suspension-links are pivoted, a rocking-spindle to which the arms are secured, a lever secured to the spindle, a valve-spindle, a sleeve fitting the valve-spindle, steam-valves secured to the spindle and sleeve respectively, arms fixed to the spindle and sleeve respectively, pins projecting from the arms, pivoted intermediate levers having eyes for engaging the said pins and the pins of the suspension-links respectively, a reversing-lever, with means for retaining the same in a plurality of positions, a pivoted lever, a rod connecting the reversing-lever to said pivoted lever, and springs connecting the said levers to the rocking-levers, substantially as set forth. (8.) In a rotary engine, means for oscillating a cylindrical steam-valve, comprising, in combination, a main shaft, a cam thereon, a rocking-lever adapted to be rocked by the cam, a block slidable in a bifurcation of the rocking-lever, a pin through the block, a suspension-link carrying said pin, an arm upon which the suspension-link is pivoted, a spindle upon which the steam-valve is secured, an arm fixed upon said spindle, a pin projecting from the arm, a pivoted intermediate lever having eyes for receiving said pin and the pin of the suspension-link respectively, substantially as specified. (9.) In an engine of the type described, reversing-gear comprising a reversing-lever and quadrant, a pivoted lever, a rod connecting the reversing-lever to the pivoted lever, a pivoted rocking-lever, and springs connecting the said levers to the rocking-lever, substantially as set forth.

(Specification, 9s. 6d.; drawing, 8s.)

B

No. 22687.—10th April, 1907.—RODERICK WEIR, of Mount Forest, Wellington County, Ontario, Canada, Manufacturer. Clothes-wardrobes.

Extract from Specification.—It consists essentially of an extension-rack suitably supported on hangers fastened to the underside of the top of the cabinet, and arranged that all of the contents of the wardrobe may be entirely withdrawn from the interior at one time and displayed in a convenient manner for handling.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 8s.; drawing, 2s.)

No. 22688.—10th April, 1907.—RODERICK WEIR, of Mount Forest, Wellington County, Ontario, Canada, Manufacturer. Clothes-wardrobes.

Extract from Specification.—My invention consists of a suitable rack provided with a series of removal hangers, and is also adapted to be withdrawn from the interior of the wardrobe and turned up to further facilitate the displaying of the garments. The hangers will be arranged on the rack that any one may be removed without interfering with the remaining hangers.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 6s. 6d.; drawing, 2s.)

No. 22694.—16th April, 1907.—JOHN KILPATRICK HITCHINS, of 3 Bolton Street, Petone, Wellington, New Zealand, Labourer. Improvements in axes, slashers, and like tools.

Claims.—(1.) In improvements in axe-heads of the kind described, a sheath of metal extending about 4 in. from axe-head, embracing axe-handle, and passing through eye of axe-head, being flush at opposite end and being turned down forming clamps, the end of sheath on axe-handle being enlarged to admit a rubber band between the end of sheath and handle, substantially as specified and shown in the drawing. (2.) In improvements in axe-heads of the kind described, two wedges inserted into eye of axe-head, such wedges having roughened sides for the purpose, substantially as specified and shown in the drawing.

(Specification, 1s. 9d.; drawing, 1s.)

No. 22697.—17th April, 1907.—FARQUHAR GEORGE MCINTOSH, of Upper Fern-tree Gully, Mornington, Victoria, Australia, Manager (assignee of Herbert Vaughan Hampton, of 504 Elizabeth Street, Melbourne, Bourke, Victoria, Australia, Engineer). An improved portable apparatus for decanting jam or other materials.

Extract from Specification.—This invention includes a means for rendering the aforesaid decanting apparatus portable; a means for removing the receptacles from underneath the bottom of the machine; means for elevating the receptacles when beneath spouts which fill them; means for heating the material whilst in chambers in which it is measured; means for adjusting the volume of measuring-cylinders; means for discharging the material in bulk without it passing through the measuring-cylinders; means for rapidly disconnecting upper cut-off valves for inspection; means for rapidly disconnecting lower cut-off valves for inspection; means for filling all the measuring-cylinders at once; means for discharging said measuring-cylinders in one or more series.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 12s.; drawing, 2s.)

No. 22698.—17th April, 1907.—WILLIAM HOLMES NISBET, of Mutual Life of New York Buildings, Martin Place, Sydney, New South Wales, Australia, Engineer. Improvements in brakes for railway and other vehicles.

Claims.—(1.) In brakes for railway and other vehicles, a spring lever or arm pivoted to the bracket and engaging with the brake-block, substantially as described. (2.) In brakes for railway and other vehicles, a spring lever or arm pivoted to the bracket and engaging with a brake-block having a feather or projecting strip taking in a corresponding recess in the bracket, and a flange at top and bottom of the block engaging with the ends of the bracket, substantially as described and illustrated. (3.) The improvements in brakes for railway and other vehicles consisting of a spring lever or arm 7, pivoted to a sleeve 8 on the bracket 6, said

sleeve forming also a bearing for the brake-beam, said arm engaging in a recess 9 in a brake-block 5 provided with a feather 11 and flanges 14, and a recess in the face of the bracket corresponding to said feather, substantially as described and explained and illustrated.

(Specification, 2s. ; drawing, 1s.)

No. 22709.—18th April, 1907.—ALFRED WOODCOCK, of Woodcock's, Auckland, New Zealand, Farmer. An improved tail-holder for cows.

Claim.—A holder for the purpose described, comprising a strap having a buckle and provided with a socket slidable on the strap when doubled, substantially as set forth.

(Specification, 1s. 3d. ; drawing, 1s.)

No. 22713.—19th April, 1907.—ARTHUR GRUHN, of Timaru, New Zealand, Law Clerk. An improved indoor game.

Claim.—Apparatus for playing games, the same consisting of a board divided into six parallel rows of squares, each row being coloured differently to the others, and dice having its six sides coloured with colours corresponding to the rows of squares, substantially as specified.

(Specification, 1s. 9d. ; drawing, 1s.)

No. 22725.—24th April, 1907.—EDWIN COOMBS, of Lilydale Grove, Auburn, Victoria, Australia, Plasterer. Improvements relating to fibrous plastering or the like.

Extract from Specification.—Usually I nail up laths B somewhere between about 2 in. and 6 in. apart. I take freely apertured textile material (fireproofed when desired) as strong scrim C and staple or fix this to the laths with under-surfaces at the desired level ; but in some cases I first secure to the laths wire-netting, which may be galvanised. In other cases I use scrim or canvas interwoven in which are metallic strands or wires or stiffening-material. Further, I take canvas or textile material D, dip and well saturate or cover it with liquid plaster-of-paris, suitable cement, or binding composition, lay it between the joists upon the laths, bringing it into contact with material B so that the plaster-of-paris or cement penetrates the apertures of and keys to and binds the latter, whereby when the said plaster, cement, or binding composition (which has in it any desired fireproofing or other ingredients known to be serviceable in ceiling or other plaster) has thoroughly set all the textile sheets are part of one united mass.

[NOTE.—The above extract from the specification is inserted in place of the claims.]

(Specification, 3s. 6d. ; drawing, 1s.)

No. 22737.—25th April, 1907.—AKTIEBOLAGET BALTIC-SEPARATOR, of Centralpalatset, Rodbodtorget 1, Stockholm, Sweden, a company duly registered under the Swedish laws (assignees of Johannnes Valdemar Marten Risberg, of Kanalstrand 3, Sodertelje, Sweden, Engineer). Improvements in the manufacture of butter.

Claims.—(1.) The method of continually manufacturing butter characterized by the fact that the cream, led into a rotating-drum, is drawn off by a stripping-pipe, and by the pressure thus effected is caused to pass through a stationary chamber or channel, located outside the drum, and provided with obstacles to the movement of the cream, and of such a capacity that the cream passes through the same at a reduced speed, so that a comparatively slow butter-formation takes place. (2.) In the method stated in claim 1, the method of, after the cream has passed through the churning-chamber, returning the cream into the drum, for the purpose that parts of the cream, which possibly are not ready churned, may again pass through the said chamber.

(Specification, 3s. ; drawing, 1s.)

An asterisk (*) denotes the complete specification of an invention for which a provisional specification has been already lodged.

NOTE.—The cost of copying the specification and drawing has been inserted after the notice of each application. An order for a copy or copies should be accompanied by a post-office order or postal note for the cost of copying.

The date of acceptance of each application is given after the number.

Extracts from the drawings accompanying the foregoing complete specifications appear at the end of this *Gazette*.

J. C. LEWIS,
Registrar.

Provisional Specifications accepted.

Patent Office,
Wellington, 29th May, 1907.

APPLICATIONS for Letters Patent, with provisional specifications, have been accepted as under :—

No. 22045.—C. Colpus, picture-frame clamp.
No. 22278.—E. Brandt, kerosene-pump.
No. 22618.—D. McKenzie, mattress and bed rest.
No. 22703.—A. G. Tomkies, belt-fastener.
No. 22704.—C. Uddstrom, locomotive-gear.
No. 22705.—R. H. H. Emerson, carcase-brander.
No. 22718.—A. Ford, S. C. J. Freeman-Matthews, and G. Russell, card-game.
No. 22722.—G. Hutchinson, seed-sower.
No. 22726.—P. Magnus, toe-clip for bicycle-pedal.
No. 22733.—J. M. Porter and J. Overall, earth and rock drilling apparatus.
No. 22738.—F. Bowden, rabbit-trap.
No. 22739.—A. Treadwell, trolly-pole.
No. 22741.—C. T. Haynes, lid-fastener for sanitary pan.
No. 22748.—F. R. Petersen, door-lock.
No. 22750.—T. A. Rolfe, switch for making and breaking currents.
No. 22759.—J. O'Connell, teat-cup.
No. 22760.—T. F. Kirkland, splasher attachment to bicycle mud-guard.
No. 22764.—United Shoe Machinery Company, lock-stitch machine. (B. F. Mayo.)
No. 22765.—United Shoe Machinery Company, sewing-machine lubricator. (J. B. Hadaway.)
No. 22768.—F. H. Cooper, trolly-pole.
No. 22773.—Z. D. Andrews, fruit-picker.
No. 22782.—E. A. Dahl, process for rendering fabrics waterproof.
No. 22789.—H. Wriedt, apparatus for measuring dough, &c.
No. 22792.—J. Mawson Stewart, cash-book.
No. 22796.—E. Girdler, flax-stripper drive.
No. 22797.—C. Bristow, milking-machine.
No. 22802.—J. E. Tatham and A. Smith, gaslight-burner.
No. 22804.—C. Bristow, seed-sower.

NOTE.—Provisional specifications cannot be inspected, or their contents made known by this office in any way, until the complete specifications in connection therewith have been accepted.

Letters Patent sealed.

LIST of Letters Patent sealed from the 16th to the 29th May, 1907, inclusive :—

No. 20122.—C. E. Larsen, spouting-bracket.
No. 20158.—C. Cannell, pump-gearing.
No. 20254.—T. W. Fowler, fire-plug.
No. 20390.—F. Staines, pea-shelling machine.
No. 20402.—J. Anderson and J. D. Hunter, liquid-measure.
No. 20428.—P. J. Cocks and F. C. Andrews, poultry-feeder.
No. 20558.—E. Henshall, motor-driven friction hoist.
No. 20591.—W. E. Hughes, boot or shoe tree. (Industrial Patents, Limited—S. French.)
No. 20657.—H. J. Bent, printing-rule.
No. 20662.—P. A. Kenna, tobacco-pipe.
No. 20719.—A. J. Billows, producing aerated drinks.
No. 20732.—M. and J. Robertson, fence-bridle for animals.
No. 20743.—A. S. Ford, liquid-ejector.
No. 20748.—W. Allen, jun., timber-flitch carrier and placer.
No. 20757.—J. Rose, clothes-washer.
No. 20763.—C. Cannell, lambs'-tail cutter.
No. 20786.—G. Hutchinson, milking-machinery.
No. 20791.—H. W. Downing, horse-cover.
No. 20806.—C. A. Parsons, packing-device for turbine shaft.
No. 20816.—C. Steffensen, crayfish-pot.
No. 20821.—G. F. Hutchinson, acetylene-generator.
No. 20826.—R. B. Forsyth, ink-remover.
No. 20828.—E. W. and G. H. Buckeridge, electrical conductor.
No. 20855.—W. H. Thomas, linotype machine. (W. H. Scharf.)
No. 20933.—A. Thompson, horse-cover fastening.
No. 20999.—A. Smaill, teat-cup for milking-machine.
No. 20107.—B. Crawford and H. A. Tattersall, boiler.
No. 21127.—H. Daniels, potato digger and grader.
No. 21227.—T. Cahill, spurs.
No. 21230.—A. J. J. Bolton, composition for the manufacture of butter-boxes.
No. 21231.—E. G. Mills, food for calves and stock. (F. J. Corbett.)
No. 21273.—C. Bristow, seed-sower.
No. 21716.—W. Baldwin, fastening and joining roofing.
No. 21802.—J. Fenton, cock-box.
No. 21808.—E. W. Ackland, conduits for electrical cables and wires.
No. 21867.—B. Crawford and H. A. Tattersall, hot-water system.

No. 21969.—J. B. Leydon, vehicle-seat.
No. 22108.—J. E. Friend, rotary engine.
No. 22117.—N. C. T. Harper, manufacturing crystallized carbonate of soda.
No. 22180.—W. Tricker, paper-bag-making machine.
No. 22246.—J. Hanslow, wire gripper and strainer.
No. 22248.—J. Darnell, boot-heel.
No. 22254.—W. Platt, potato, &c., peeler.
No. 22292.—C. E. D. Usher, slimes-treatment.
No. 22316.—G. B. Johnson, machinery for corrugating metal sheets.
No. 22332.—F. G. Philpott, washboard.
No. 22335.—J. W. Dalton, breeches buoys.
No. 22346.—M. Robertson, manufacturing coated articles—*e.g.*, chocolate confections.
No. 22347.—H. R. Lees, potato-harvester.
No. 22353.—C. C. Bullock, capture of rabbits.
No. 22372.—J. Molas and J. A. Smeeton, turbine.
No. 22385.—T. J. Lovett, magnetic separator.
No. 22395.—W. H. Waycott and W. Wilson, indicating-attachment for screw-cutting lathe.
No. 22401.—R. E. G. Burroughs, pipe-cleaner.

Letters Patent on which Fees have been paid.

[NOTE.—The dates are those of the payments.]

SECOND-TERM FEES.

NO. 16339.—Winchester Repeating Arms Company, fire-arms. (T. C. Johnson.) 13th May, 1907.
No. 16341.—The Ivel Agricultural Motors, Limited, motor-tractor. (D. Albone.) 13th May, 1907.
No. 16358.—C. F. Bünz, instrument for treating nervous diseases. (F. J. Rottmann and H. Geissler.) 15th May, 1907.
No. 16379.—W. H. Atkin, furnace. 16th May, 1907.
No. 16381.—Linotype and Machinery, Limited, machine for the assembly of type-matrices. (J. G. Holbourns and H. A. Longhurst.) 21st May, 1907.
No. 16383.—F. C. Griffiths, skylight. 22nd May, 1907.
No. 16407.—W. Connstein, manufacture of fatty acids. 17th May, 1907.
No. 16431.—F. Butterick, reaping-machine. 20th May, 1907.
No. 16467.—Submarine Signal Company, means for producing sound-vibrations in water. (A. J. Mundy, H. B. Gale, and F. M. Dewing.) 21st May, 1907.
No. 16503.—E. Waters, jun., roller crushing-mill. (The Edison Ore-milling Syndicate, Limited—T. A. Edison.) 21st May, 1907.
No. 16538.—Babcock and Wilcox, Limited, and R. A. McLaren, chain-grate stoker. 20th May, 1907.
No. 16630.—The Toledo Glass Company, receptacle for molten glass. (M. J. Owens.) 21st May, 1907.
No. 16639.—W. Griffiths and B. H. Bedell, electric-traction system. 21st May, 1907.
No. 17845.—Linotype and Machinery, Limited, printing-machine. (T. M. North.) 14th May, 1907.

THIRD-TERM FEES.

No. 12624.—W. Parker, treatment of sewage. (D. Cameron, F. J. Commin, and A. J. Martin.) 18th May, 1907.
No. 12625.—W. Parker, generation of gas from sewage, &c. (D. Cameron, F. J. Commin, and A. J. Martin.) 18th May, 1907.
No. 12712.—J. F. Bennett, hydrocarbon motor. 16th May, 1907.
No. 12912.—P. C. Hewitt, electric lighting. 21st May, 1907.

Subsequent Proprietor of Letters Patent registered.

[NOTE.—The name of the patentee is given in brackets; the date is that of registration.]

NO. 18802.—Société Anonyme, H. & A. Dufaux & Cie, of Route des Acacias, Geneva, in Switzerland, Manufacturers. Explosion motor for cycles. [H. and A. Dufaux.] 23rd May, 1907.

Request for Correction of Clerical Error in Application for Letters Patent.

NO. 19214.—W. E. Hughes, printing-surface. (W. J. Yesell.) (Advertised in Supplement to *New Zealand Gazette*, No. 6, of the 25th January, 1906.) To alter the name of the inventor from "Yesell" to "Yeoell."

Applications for Letters Patent abandoned.

LIST of applications, with which provisional specifications only have been filed, abandoned (*i.e.*, complete specifications not lodged) from the 16th to the 29th May, 1907, inclusive:—

No. 21468.—W. H. K. Turner and A. E. A. Fear, trapping birds.
No. 21469.—A. G. Nesfield and H. Brookes, superheater for boiler.
No. 21471.—J. H. Noonan, explosion motor.
No. 21479.—C. E. Smith, locking bar pipes.
No. 21480.—H. Lundqvist, grab for handling nails.
No. 21482.—E. Dane and D. Whitburn, mitre-gauge, &c.
No. 21484.—A. R. Hardy, sash mover and lock.
No. 21487.—F. T. F. Evans, swingletree.
No. 21488.—R. O. Clark, drain-inlet.
No. 21490.—R. O. Clark, flanging-machine.
No. 21492.—R. O. Clark, earthenware-kiln.
No. 21493.—H. G. Bedell and H. Nahr, sanitary liquor supplies.
No. 21494.—D. Brigham, obtaining gold from the sea-bed.
No. 21495.—C. Sanderson, rope-carrier for electric car.
No. 21499.—A. C. Hill, ball tap.
No. 21501.—P. Pickering, scaffold-bracket.
No. 21503.—J. Jamison, blotting-pad and paper-ruler.
No. 21508.—E. L. Evens, clothes-washer.
No. 21512.—C. F. Lungley, manufacture of ammonia.
No. 21519.—F. C. Webb, roasting finely divided mineral material.
No. 21520.—P. A. Neumann, amalgamator.
No. 21521.—A. M. Grainger, sheep-dipping apparatus.
No. 21523.—E. J. Walsh, trolly-head.
No. 21524.—T. Vivian, medicinal tonic.
No. 21525.—F. T. Page, kerosene-pump attachment.
No. 21528.—J. D. Douglas, car-coupling.
No. 21529.—J. A. Butler, knife-sharpener.
No. 21530.—D. L. Hutton, jun., shield for pneumatic tire.
No. 21532.—W. E. Searle, coal-shovel.
No. 21533.—W. E. Searle, drinking-cups, &c.
No. 21536.—R. T. Graham, lock-socket for drain-pipe.

Erratum.—No. 21460—D. L. Turner, bleaching and drying flax—was inadvertently advertised in *Gazette* of 16th May, 1907, as abandoned.

Application for Letters Patent void.

APPLICATION for Letters Patent, with which complete specification has been lodged, void owing to non-acceptance of such complete specification from the 16th to the 29th May, 1907, inclusive.

No. 20766.—T. and W. B. Cocks, extension-table.

Applications for Letters Patent lapsed.

LIST of applications for Letters Patent lapsed, owing to Letters Patent not being sealed, from the 16th to the 29th May, 1907, inclusive:—

No. 20364.—A. Williams, funnel or filter.
No. 20367.—A. Billens, spraying plants.

Letters Patent void.

LIST of Letters Patent void through non-payment of renewal fees, and through expiry of term of fourteen years, from the 16th to the 29th May, 1907, inclusive:—

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

No. 15994.—A. J. Ellis, tape embossing and feeding machine. (H. Casler and H. N. Marvin.)
No. 15995.—J. E. Tonkin, W. Ames, and W. E. H. Nicolle, securing fastenings of railway-rails.
No. 15996.—F. J. Fletcher, aerating or carbonating liquids.
No. 15997.—F. J. Fletcher, filling and stoppering bottles.
No. 15998.—G. W. Basley, fuel-economizer and smoke-consumer. (J. H. Foster.)
No. 15999.—E. H. B. Laing and G. W. Clarke, bandolier and waist-belt rifle-carrier.
No. 16000.—H. A. and R. V. Danne and J. Donaldson, weighing-machine.
No. 16007.—W. Staples, boot.
No. 16008.—R. W. England, artificial-stone block.
No. 16011.—J. Fletcher, drawing off aerated liquids.

No. 16016.—W. Thomas, apparatus for changing photographic plates, &c.
No. 16019.—J. H. Fairhurst, scaffolding-bracket.
No. 16030.—R. L. Trench, hydrant-valve.
No. 16033.—H. G. Escher, fire-escape.
No. 16034.—J. Webb, luring birds to take poison.
No. 16035.—E. T. Horne and G. L. Jones, artificial manure.
No. 16036.—E. T. Horne and G. L. Jones, manufacture of alcohol.
No. 16044.—E. Waters, jun., microtelephone. (E. Volkers.)

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

No. 12402.—J. Wright and J. W. Mitchell, means for branding carcases.
No. 12437.—W. Healey, slop-bucket and commode.
No. 13293.—W. M. Mordey and G. C. Fricker, electricity-meter.

THROUGH EXPIRY OF TERM.

No. 6208.—J. Greenslade, seed-dressing machine.

Design expired.

THE copyright in the following design has expired:—

No. 156.—R. Nicholas, of Christchurch, New Zealand. (Vane of windmill.)

Applications for Registration of Trade Marks.

Patent Office,
Wellington, 29th May, 1907.

APPLICATIONS for registration of the following Trade Marks have been received. Notice of opposition to the registration of any of these applications may be lodged at this office within two months of the date of this *Gazette*. Such notice must be in duplicate, and accompanied by a fee of £1.

No. of application: 6294.
Date: 24th October, 1906.

TRADE MARK.

The essential particulars of the trade mark are as follow—the word "Boss" and the distinctive mark or brand; and applicants disclaim any right to the exclusive use of the matter common to the trade.

NAME.

JOHN B. STETSON COMPANY, a corporation organized and existing under the laws of the State of Pennsylvania, United States of America, domiciled in the City of Philadelphia, in said State, and having its principal place of business at Fourth Street and Montgomery Avenue, in said City of Philadelphia.

No. of class: 38.

Description of goods: Soft and stiff felt hats and caps.

No. of application: 6324.
Date: 8th November, 1906.

TRADE MARK.

The word

"PINOL."

NAME.

HENRY SOLOMON WELLCOME, trading under the firm-name or style of "Burroughs, Wellcome, and Co.," of Snow Hill Buildings, Snow Hill, London, E.C., England, and of No. 481 Kent Street, Sydney, in the State of New South Wales and Commonwealth of Australia, Manufacturing Chemists.

No. of class: 3.

Description of goods: Chemical substances prepared for use in medicine and pharmacy.

No. of application: 6592.
Date: 24th April, 1907.

TRADE MARK.

The word

"SAO."

NAME.

AULSEBROOK AND CO., of Christchurch, in the Colony of New Zealand, Biscuit-manufacturers.

No. of class: 42.

Description of goods: Biscuits.

No. of application: 6603.
Date: 29th April, 1907.

TRADE MARK.

NAME.

THE AGRICULTURAL AND PASTORAL FOOD COMPANY, LIMITED, of Davis Street, Wellington, in the Colony of New Zealand, Live-stock-food Manufacturers.

No. of class: 3.

Description of goods: Food-preservatives.

No. of application: 6604.
Date: 29th April, 1907.

TRADE MARK.

(The mark as shown in preceding notice, No. 6603.)

NAME.

THE AGRICULTURAL AND PASTORAL FOOD COMPANY, LIMITED, of Davis Street, Wellington, in the Colony of New Zealand, Live-stock-food Manufacturers.

No. of class: 42.
Description of goods: Live-stock foods.

No. of application: 6624.
Date: 20th May, 1907.

TRADE MARK.

The words

"AT HOME."

NAME.

W. GREGG AND CO., LIMITED, of Dunedin, in the Colony of New Zealand, Merchants.

No. of class: 42.
Description of goods: Tea.

No. of application: 6627.
Date: 4th May, 1907.

TRADE MARK.

The words

"CREAM CAMILLE."

The essential particular of this trade mark is the word "Camille"; and any right to the exclusive use of the word "Cream" is disclaimed.

NAME.

AULSEBROOK AND CO., of Christchurch, in the Colony of New Zealand, Biscuit-manufacturers.

No. of class: 42.
Description of goods: Biscuits.

No. of application: 6639.
Date: 11th May, 1907.

TRADE MARK.

The word

COLEO

NAME.

COLGATE AND CO., of 55 John Street, New York, United States of America, Soap-makers and Perfumers.

No. of class: 3.
Description of goods: Medicated soap for human use.

No. of application: 6640.
Date: 11th May, 1907.

TRADE MARK.

(The mark as shown in preceding notice, No. 6639.)

NAME.

COLGATE AND CO., of 55 John Street, New York, United States of America, Soap-makers and Perfumers.

No. of class: 47.
Description of goods: Common soap and extract of soap.

No. of application: 6641.
Date: 11th May, 1907.

TRADE MARK.

(The mark as shown in preceding notice No. 6639.)

NAME.

COLGATE AND CO., of 55 John Street, New York, United States of America, Soap-makers and Perfumers.

No. of class: 48.
Description of goods: Perfumed and shaving soaps, also perfumery, toilet articles, and preparations for the teeth and hair.

No. of application: 6643.
Date: 13th May, 1907.

TRADE MARK.

The word

"CREAMOATA."

NAME.

FLEMING AND CO., LIMITED, of Gore, New Zealand, Millers and Grain Merchants.

No. of class: 42.
Description of goods: Cereals and cereal meals and foods.

No. of application: 6644.
Date: 13th May, 1907.

TRADE MARK.

The word

"CRETA."

NAME.

GODFREY WADE and EDGAR CHARLES WHITE, of Repburn Street, Auckland, in the Colony of New Zealand, Bricklayers.

No. of class: 16.
Description of goods: Bricks and building blocks.

No. of application: 6645.

Date: 14th May, 1907.

TRADE MARK.

The words

"WHITE OPAL."

NAME.

HENRY BERRY AND CO., of Christchurch, in the Colony of New Zealand, Merchants.

No. of class: 42.

Description of goods: Cream of tartar.

No. of application: 6646.

Date: 14th May, 1907.

TRADE MARK.

The words

"RISING SOAP."

The essential particular of this trade mark is the word "Rising"; and any right to the exclusive use of the word "Soap" is disclaimed.

NAME.

JOHN NEWTON AND SON, LIMITED, of Kaiwarra, Wellington, in the Colony of New Zealand, Soap-makers.

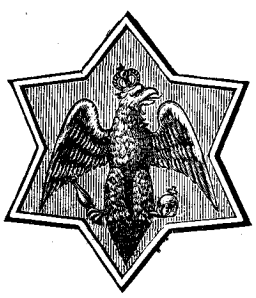
No. of class: 47.

Description of goods: Common soap.

No. of application: 6647.

Date: 15th May, 1907.

TRADE MARK.



NAME.

WICKÜLER KÜPPER BRAUEREI ACTIEN GESELLSCHAFT, of Elberfeld, in Germany.

No. of class: 43.

Description of goods: Beer.

No. of application: 6648.

Date: 16th May, 1907.

TRADE MARK.

The word

"RISISTO."

NAME.

THE PARAFFINE PAINT COMPANY, a corporation incorporated under the laws of California, United States of America, of 24 Second Street, San Francisco, California aforesaid, Manufacturers of Roofing and Preserving Materials.

No. of class: 17.

Description of goods: Waterproof building-paper, roofing, and other analogous materials.

No. of application: 6649.

Date: 16th May, 1907.

TRADE MARK.

The word

"RISISTOID."

NAME.

THE PARAFFINE PAINT COMPANY, a corporation incorporated under the laws of California, United States of America, of 24 Second Street, San Francisco, California aforesaid, Manufacturers of Roofing and Preserving Materials.

No. of class: 17.

Description of goods: Waterproof building-paper, roofing, and other analogous materials.

No. of application: 6653.

Date: 16th May, 1907.

TRADE MARK.

BALDWIN

NAME.

BALDWINS LIMITED, whose registered office is at Wilden, near Stourport, Worcestershire, England, Manufacturers.

No. of class: 5.

Description of goods: Tinned-iron and steel sheets and plates, terne sheets and plates, black-iron and steel sheets and plates, Canada sheets and plates, tin taggers, terne taggers, and black taggers, and galvanised-iron and steel sheets.

No. of application: 6654.

Date: 16th May, 1907.

TRADE MARK.

COOKLEA

NAME.

BALDWINS LIMITED, whose registered office is at Wilden, near Stourport, Worcestershire, England, Manufacturers.

No. of class: 5.

Description of goods: Tinned-iron and steel sheets and plates, terne sheets and plates, black-iron and steel sheets and plates, Canada sheets and plates, tin taggers, terne taggers, and black taggers, and galvanised-iron and steel sheets.

No. of application: 6655.

Date: 16th May, 1907.

TRADE MARK.

The word

"MANOR."

NAME.

BALDWINS LIMITED, whose registered office is at Wilden, near Stourport, Worcestershire, England, Manufacturers.

No. of class: 5.

Description of goods: Tinned-iron and steel sheets and plates, terne sheets and plates, black-iron and steel sheets and plates, Canada sheets and plates, tin taggers, terne taggers, and black taggers, and galvanised-iron and steel sheets.

No. of application: 6656.

Date: 16th May, 1907.

TRADE MARK.

NAME.

BALDWINS LIMITED, whose registered office is at Wilden, near Stourport, Worcestershire, England, Manufacturers.

No. of class: 5.

Description of goods: Tinned-iron and steel sheets and plates, terne sheets and plates, black-iron and steel sheets and plates, Canada sheets and plates, tin taggers, terne taggers, and black taggers, and galvanised-iron and steel sheets.

No. of application: 6658.

Date: 20th May, 1907.

TRADE MARK.

The essential particulars of this trade mark are a representation of a moa bird and also the word "Moa"; and applicants disclaim any right to the exclusive use of the words "Brand" and "Factory Butter."

NAME.

THE CANTERBURY CENTRAL CO-OPERATIVE DAIRY COMPANY, LIMITED, of Addington, Christchurch, in the Colony of New Zealand.

No. of class: 42.

Description of goods: Butter.

No. of application: 6659.

Date: 20th May, 1907.

TRADE MARK.

The words

"IMPERIAL DESSERT."

The essential particular of this trade mark is the word "Imperial"; and any right to the exclusive use of the word "Dessert" is disclaimed.

NAME.

NEILL AND CO., LIMITED, of Lichfield Street, Christchurch, in the Colony of New Zealand, Merchants.

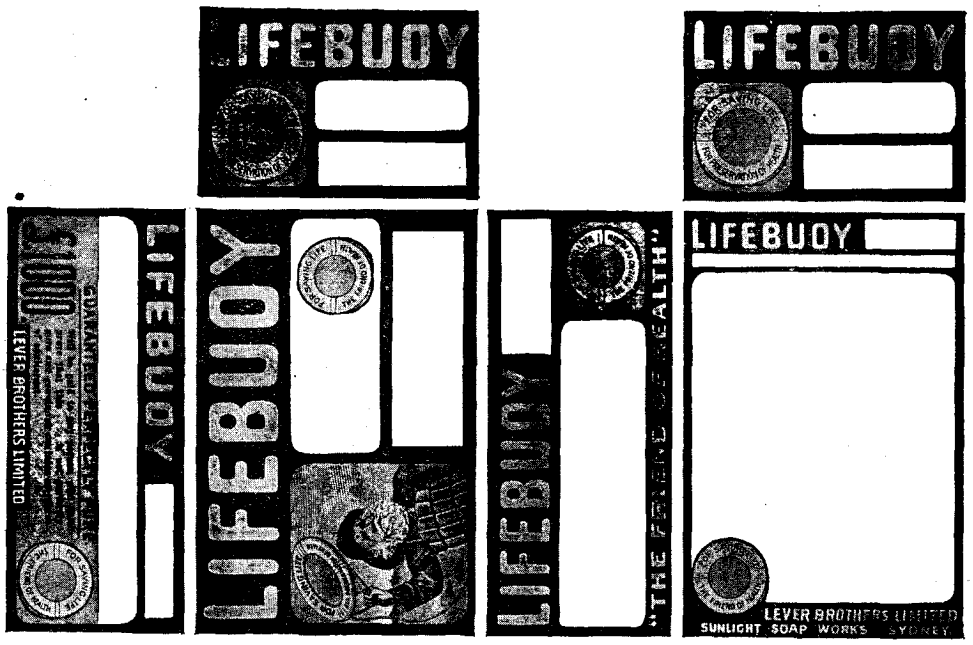
No. of class: 42.

Description of goods: Dried figs, sultanas, currants, and other fruit.

No. of application: 6661.

Date: 22nd May, 1907.

TRADE MARK.



The essential particulars of the trade mark are (*a*) the distinctive label, (*b*) the combination of devices, and (*c*) the word "Lifebuoy"; and applicants disclaim any right to the exclusive use of the added matter, except their name and address.

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 3.

Description of goods: Medicated soap for human use, pomade for medical purposes, and all other like goods in Class 3.

No. of application: 6662.

Date: 22nd May, 1907.

TRADE MARK.

(The mark as shown in preceding notice, No. 6661.)

The essential particulars of the trade mark are (*a*) the distinctive label, (*b*) the combination of devices, and (*c*) the word "Lifebuoy"; and applicants disclaim any right to the exclusive use of the added matter, except their name and address.

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

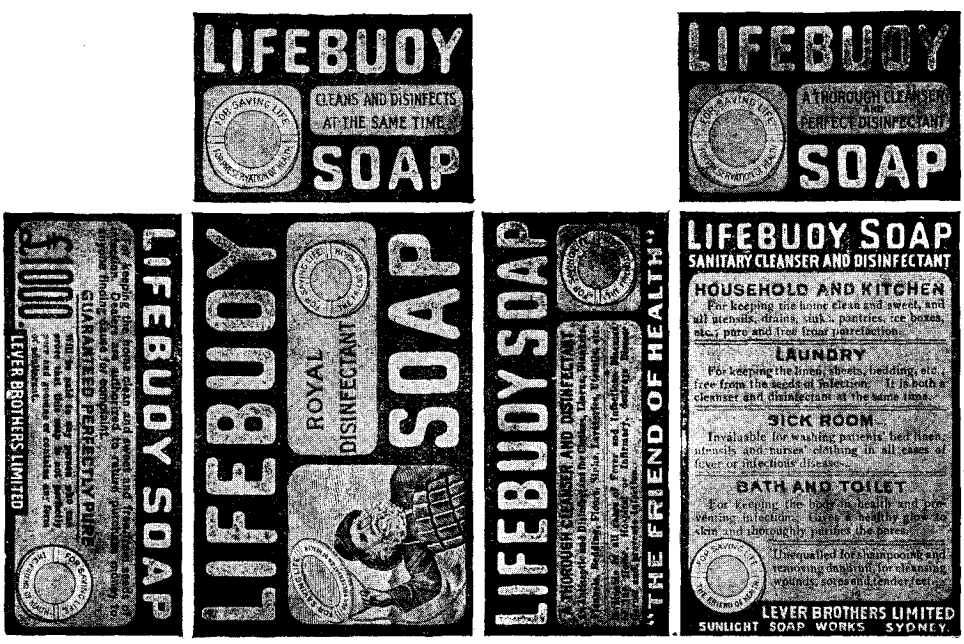
No. of class: 42.

Description of goods: Oil-cake, oil-cake meal, and oils.

No. of application: 6663.

Date: 22nd May, 1907.

TRADE MARK.



The essential particulars of the trade mark are (*a*) the distinctive label, (*b*) the combination of devices, and (*c*) the word "Lifebuoy"; and applicants disclaim any right to the exclusive use of the added matter, except their name and address.

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 47.

Description of goods: Soap and soap-extracts.

No. of application: 6664.

Date: 22nd May, 1907.

TRADE MARK.

(The mark as shown in preceding notice No. 6661.)

The essential particulars of the trade mark are (*a*) the distinctive label, (*b*) the combination of devices, and (*c*) the word "Lifebuoy"; and applicants disclaim any right to the exclusive use of the added matter, except their name and address.

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 48.

Description of goods: Perfumed soap, perfumery, and glycerine for toilet purposes.

No. of application: 6665.

Date: 22nd May, 1907.

TRADE MARK.

The word

LIFEBU

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 42.

Description of goods: Oil-cake, oil-cake meal, and oils.

No. of application: 6666.
Date: 22nd May, 1907.

TRADE MARK.

(The mark as shown in preceding notice, No. 6665.)

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 48.

Description of goods: Perfumed soap, perfumery, and glycerine for toilet purposes.

No. of application: 6668.
Date: 22nd May, 1907.

TRADE MARK.

The word

SUNBRIGHT

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales. Commonwealth of Australia, Manufacturers.

No. of class: 47.

Description of goods: Common soap, soap-powders, candles, matches, starch. blue, washing-soda, detergents, and oil for illuminating, heating, or lubricating purposes.

No. of application: 6669.
Date: 22nd May, 1907.

TRADE MARK.

The word

SUNRISE

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney. State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 47.

Description of goods: Common soap, soap-powders, candles, matches, starch, blue, washing-soda, detergents, and oil for illuminating, heating, or lubricating purposes.

No. of application: 6671.
Date: 22nd May, 1907.

TRADE MARK.

The word

LIFEBOAT

NAME.

LEVER BROS., LIMITED, of Balmain, near Sydney, State of New South Wales, Commonwealth of Australia, Manufacturers.

No. of class: 47.

Description of goods: Common soap, soap-powders, candles, matches, starch, blue, washing-soda, detergents, and oil for illuminating, heating, or lubricating purposes.

J. C. LEWIS,
Registrar.

Trade Marks registered.

LIST of Trade Marks registered from the 16th to the 29th May, inclusive:—

No. 5080/6411.—The Standard Tool Company. Class 12. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5081/6497.—Warnock Bros. Class 37. (*Gazette* No. 23, of the 7th March, 1907.)
No. 5082/6498.—Warnock Bros. Class 47. (*Gazette* No. 23, of the 7th March, 1907.)
No. 5083/6339.—E. Merck. Class 3. (*Gazette* No. 99, of the 29th November, 1906.)
No. 5084/6340.—E. Merck. Class 3. (*Gazette* No. 99, of the 29th November, 1906.)
No. 5085/6412.—J. McD. Cox. Class 3. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5086/6413.—A. C. G. J. Desmazures. Class 1. (*Gazette* No. 7, of the 24th January, 1907.)
No. 5087/6501.—Neill and Co., Limited. Class 50. (*Gazette* No. 23, of the 7th March, 1907.)
No. 5088/6505.—Neill and Co., Limited. Class 50. (*Gazette* No. 23, of the 7th March, 1907.)
No. 5089/6465.—Larus and Brother Company. Class 45. (*Gazette* No. 18, of the 21st February, 1907.)
No. 5090/6467.—Larus and Brother Company. Class 45. (*Gazette* No. 18, of the 21st February, 1907.)

Trade Mark Renewal Fees paid.

FEES paid for the renewal of the undermentioned Trade Marks for fourteen years from the date first mentioned:—

No. 798/633.—26th May, 1907.—The Cheltenham Co-operative Dairy Company, Limited, of Cheltenham, Feilding, New Zealand. 18th May, 1907.
No. 849/854.—12th July, 1907.—R. Nicol, of Waimate, New Zealand. 23rd May, 1907.
No. 851/669.—17th July, 1907.—Reckitt and Sons, Limited, of Wellington, New Zealand. 17th May, 1907.
Nos. 859/706 and 860/707.—31st July, 1907.—The British Empire Trading Company, Limited, of Wellington, New Zealand. 23rd May, 1907.

Subsequent Proprietors of Trade Marks registered.

[NOTE.—The name of the former proprietor is given in brackets: the date is that of registration.]

NOS. 182/157, 183/158, 184/159, and 185/160.—Albert Rey, Professor at the Grand Seminary at Grenoble, in France, and residing at No. 1, Rue du Vieux Temple, in that town, and having his business establishment at Calle Fontrodona, 21, Barcelona, Spain. [C. M. Rey—G. A. Grézier.] 9th April, 1907.

Trade Marks removed from the Register.

TRADE Marks removed from the Register owing to the non-payment of the renewal fees from the 16th to the 29th May, 1907, inclusive:—

No. 712/762.—22nd February, 1893.—J. Duncan, jun., of Palmerston North, New Zealand. Class 42.
No. 713/636.—22nd February, 1893.—R. Cross, of Wellington, New Zealand. Class 3.
No. 714/594.—24th February, 1893.—The New Hydroleine Company, Limited, of Ashby de la Zouch, England. Class 47.
No. 718/595.—27th February, 1893.—W. J. Cannon, of Lincoln, Eng. Class 2.

Application for Amendment of Trade Mark.

NO. 5815.—Warnock Bros. (advertised in Supplement to *New Zealand Gazette*, No. 36, of the 18th April, 1907). To omit the word "starch" from the statement of goods, and to add thereto the words "excepting starch."

Requests for Correction of Clerical Error in Trade Marks.

NOS. 182/157, 183/158, 184/159, 185/160.—Albert Rey, Professor at the Grand Seminary at Grenoble, registered as proprietor (advertised in Supplement to *New Zealand Gazette*, No. 48, of the 30th May, 1907.)

To alter the name "Albert Rey" to "Albert Léon Rey."

No. 6282/5053.—R. J. Roberts (advertised in Supplement to the *New Zealand Gazette*, No. 93, of the 1st November, 1906).

To alter the name of the applicant from "Robert John Roberts" to "Robert Jones Roberts."

Alteration of Address of Proprietor of Trade Mark on Register.

NO. 851/669.—Reckitt and Sons, Limited.—Address altered from "423 Kent Street, Sydney, New South Wales" to "Box 422, G.P.O., Wellington, New Zealand."

Trade Mark Registration cancelled.

NO. 5193/4082.—H. W. Manning, of Auckland, New Zealand (advertised in Supplement to *New Zealand Gazette*, No. 28, of the 23rd March, 1905.)

Advertisements.

ADVERTISEMENTS are charged at the rate of 6d. per line for the first insertion, and 3d. per line for the second and any subsequent insertion.

All advertisements should be written *on one side* of the paper, and signatures, &c., should be written in a legible hand.

The number of insertions required must be written across the face of the advertisement.

Communications should be addressed to the Government Printer, Wellington, to whom post-office money-orders should be made payable. Cheques should be crossed "Public a/c," and exchange added.

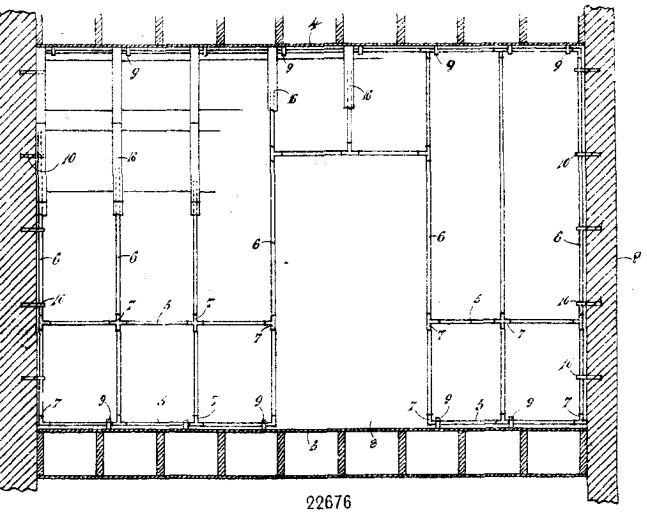
Postage or duty stamps cannot be received in payment from any place at which postal notes or post-office orders are issued.

Prepayment may be demanded in any case. In order to prevent delay in publication a sufficient remittance should accompany every advertisement. Any surplus will be returned with receipted account.

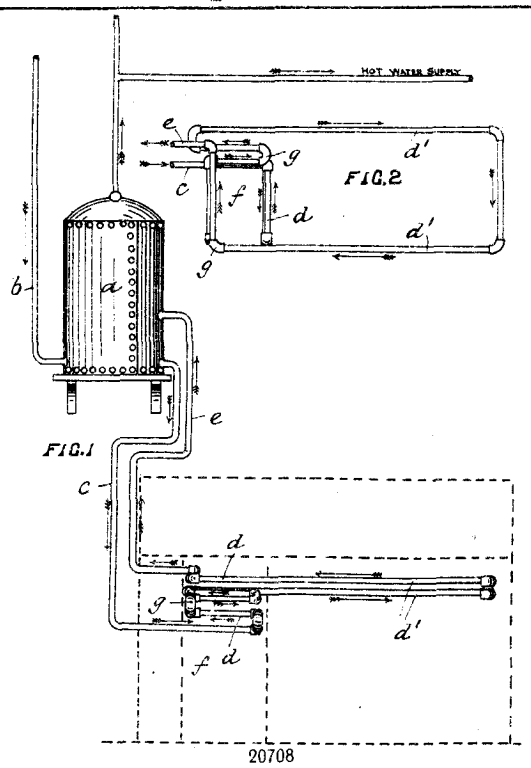
By Authority: JOHN MACKAY, Government Printer, Wellington.

ILLUSTRATIONS OF INVENTIONS.

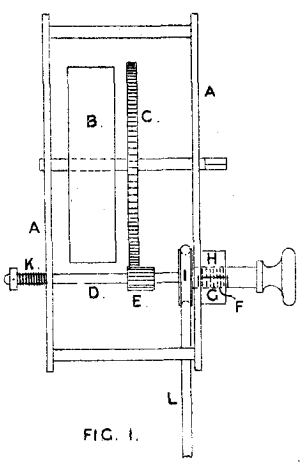
[These illustrations refer to the complete specifications accepted, and advertised in this *Gazette*.]



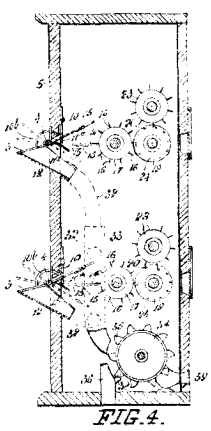
22676
Yourelle and Bellingham. Ferro-concrete.



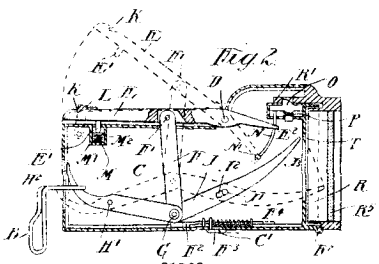
20708
Jordan. Range and Heater.



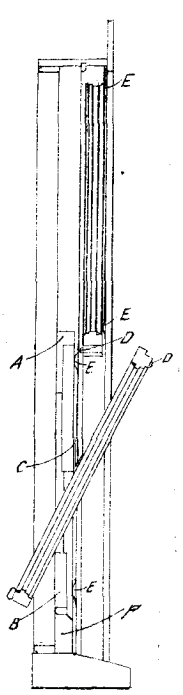
21208
Farrell. Alarm.



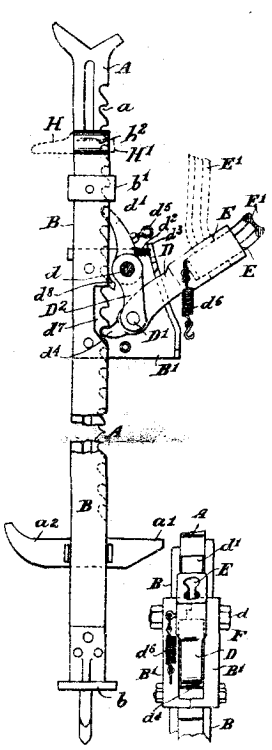
21213
Madder. Voting-machine.



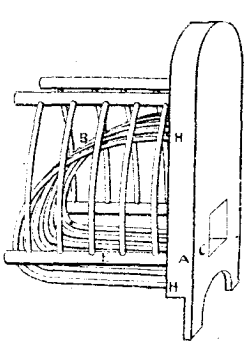
21368
Watt. Mail-bag Fastener.



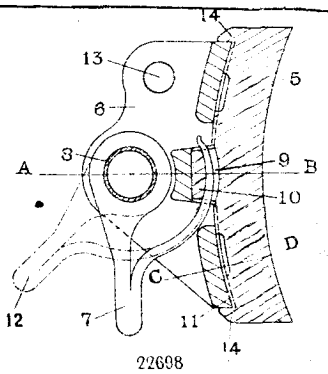
21380
Galbally. Window-sash.



21411
Brown. Lever Jack and Stump-extractor.



21640
Hammond. Water-tube Boiler.



22608
Nisbet. Brake.

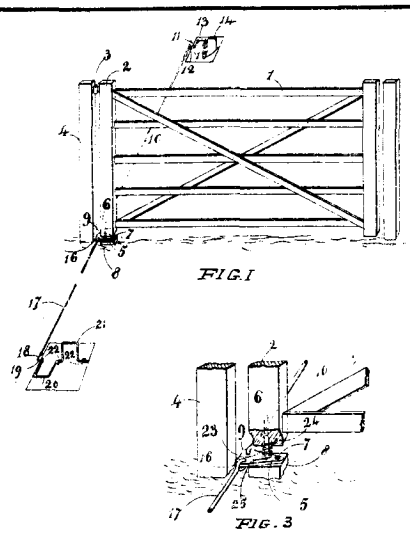
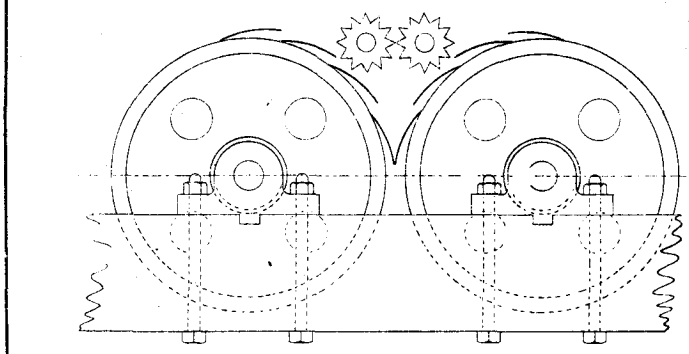


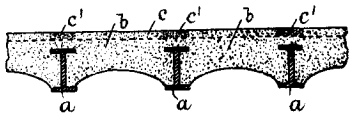
FIG. 1

FIG. 3

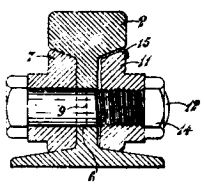
22603
Olsen. Gate.



22648
Davidson. Flax-scraper.



22665
Dunz. Floor.



22024
Wilson and Downs. Fish-plate.

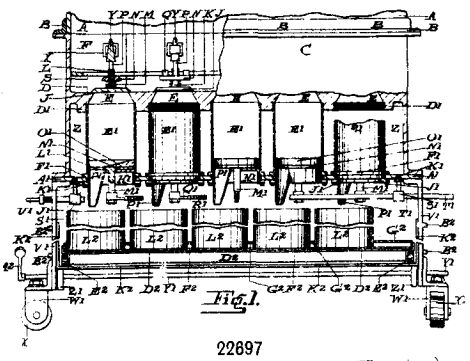
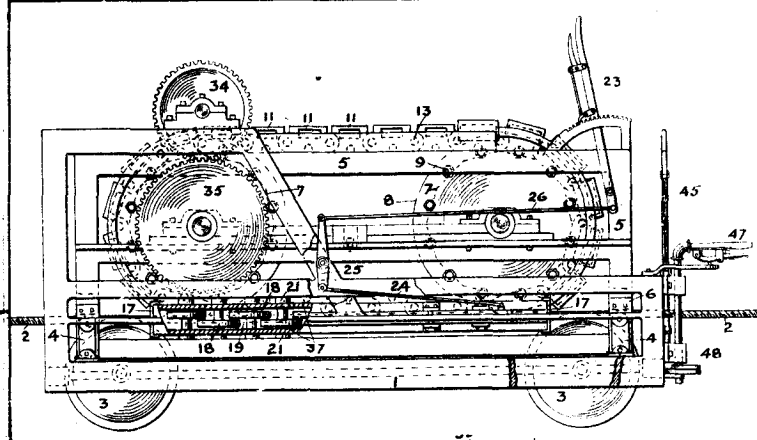
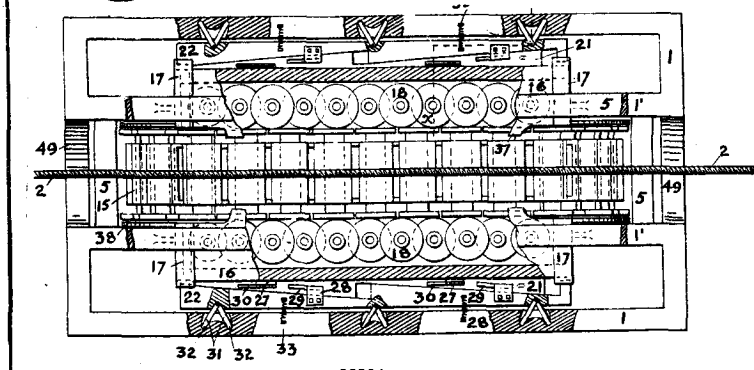


Fig. 1.

22697
McIntosh. Jam-decanting Apparatus. (Hampton.)





22564
Waters. Cable-chain Grip. (A. Dixon—G. S. Fonts.)

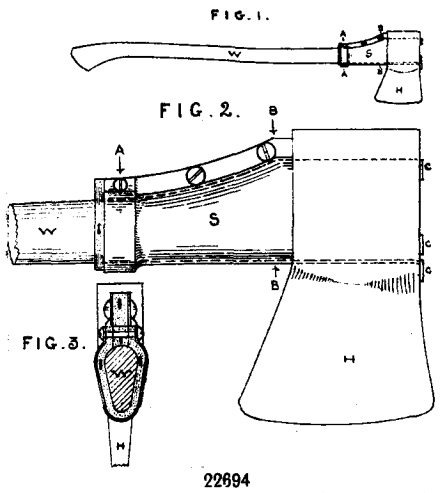
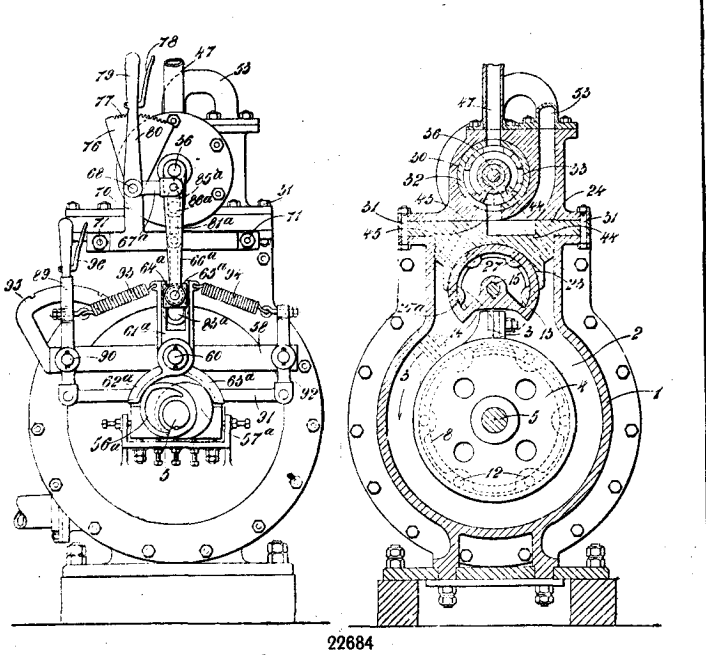


FIG. 1.

FIG. 2.

FIG. 3.

22694
Hitchens. Axe, &c., Handle.



22684
Friend. Rotary Engine.

Blue	Red	Black	Brown	Green	Pink
Blue	Red	Black	Brown	Green	Pink
Blue	Red	Black	Brown	Green	Pink

22713
Gruhn. Game.

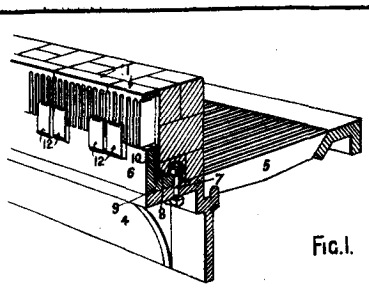
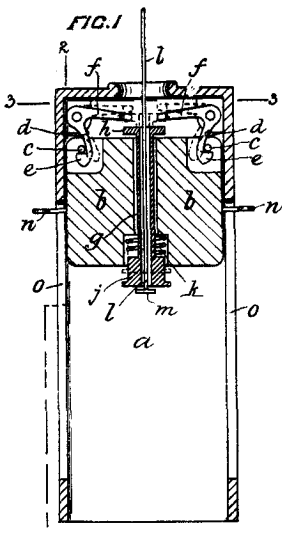
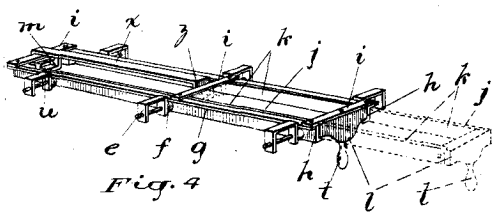


FIG. 1.

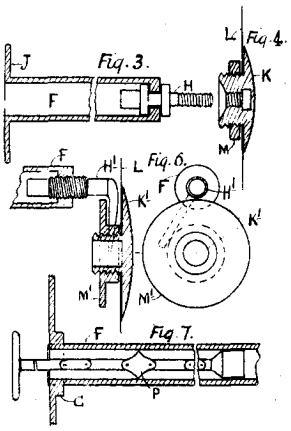
22416
Wilkins and Nobbs. Furnace-plates.



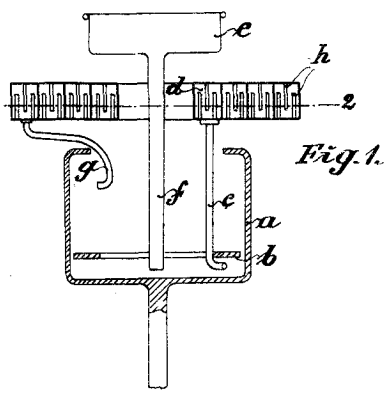
21336
Edwards. Trolley-pole.



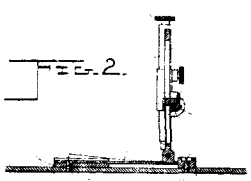
22687
Weir. Wardrobe.



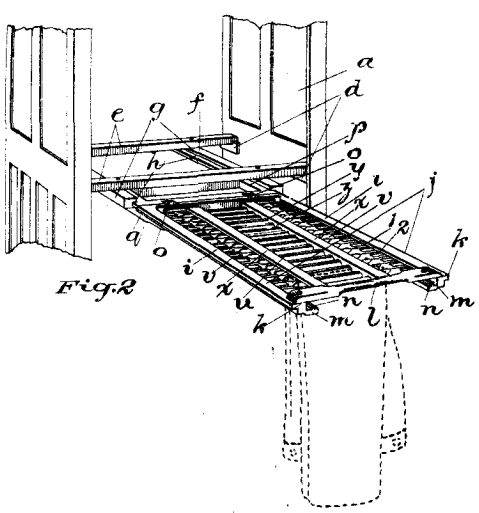
22636
Cox. Cash-box.



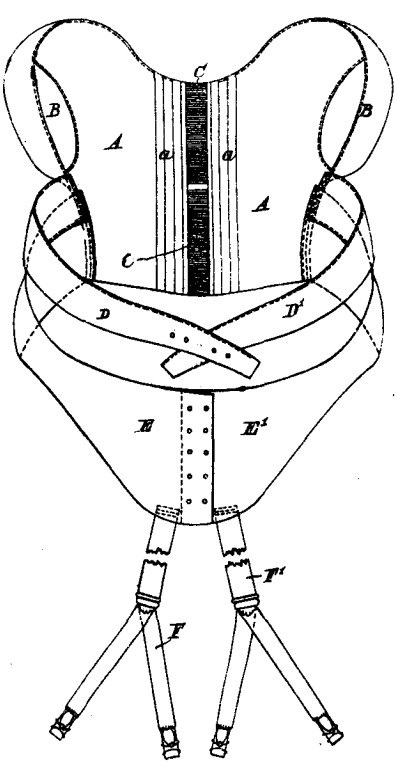
22737
Aktiebolaget Baltic-separator. Churn. (Risberg.)



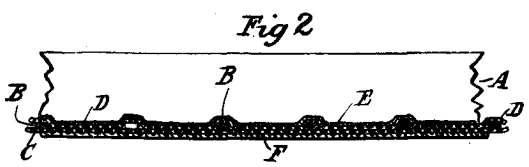
22625
Baldwin and Rayward. Rifle-sight. (The Sutherland Rifle-sight Company, Limited—Sutherland.)



22688
Weir. Wardrobe.



22393
Gover. Corselet.



22725
Coombs. Floor.

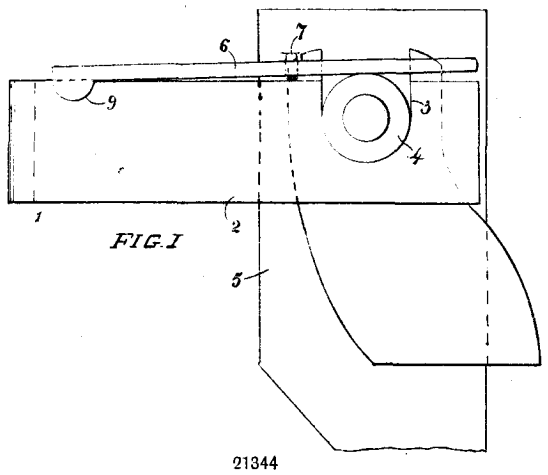


FIG. I

21344
Gray. Seed-sower.

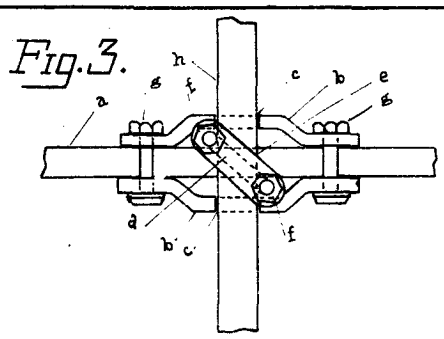


Fig. 3.

21414
O'Hara, J. and W. J. Plough, &c., Fastenings.

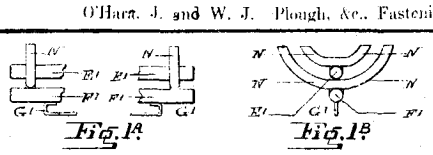


Fig. 1A. Fig. 1B.

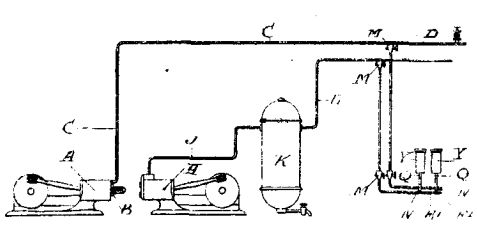


Fig. 1.

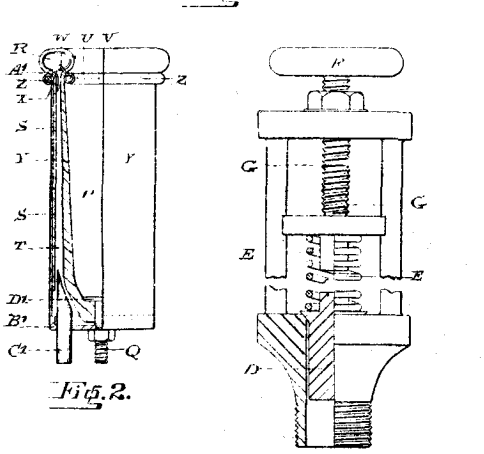
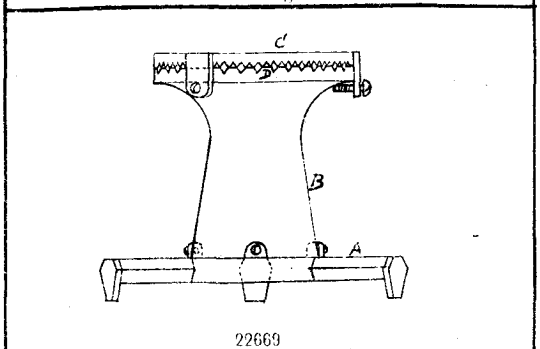


Fig. 2. Fig. 3.

22086
Teese. Milking-machine.



22669
Fischer. Gas-burner.

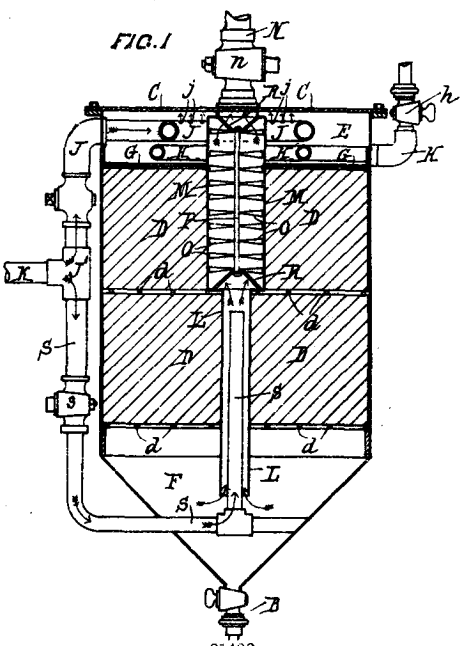
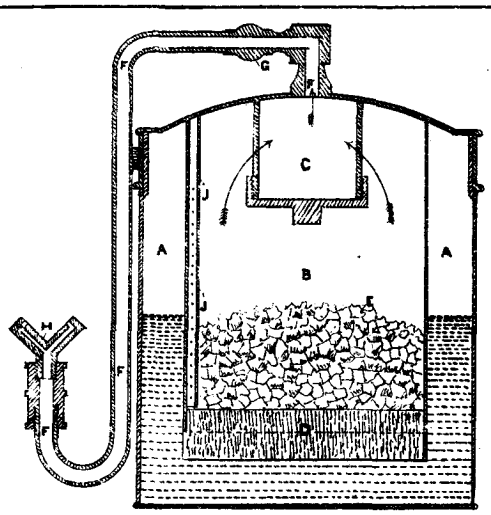


FIG. 1

21432
Paterson. Oil-gas Generator.



22411
Murray. Acetylene-generator.

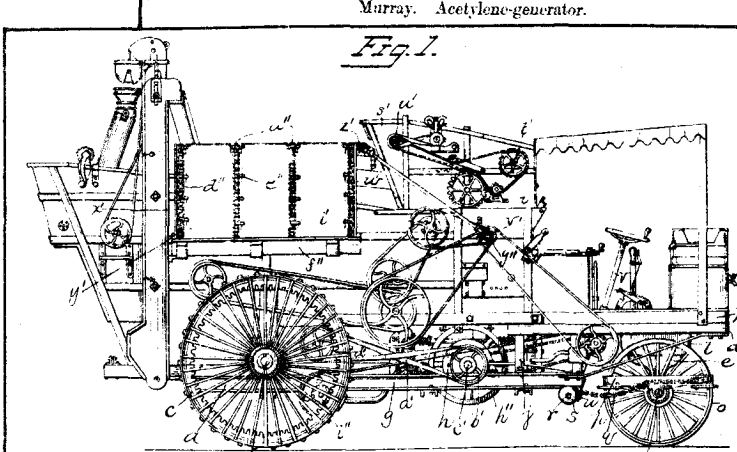
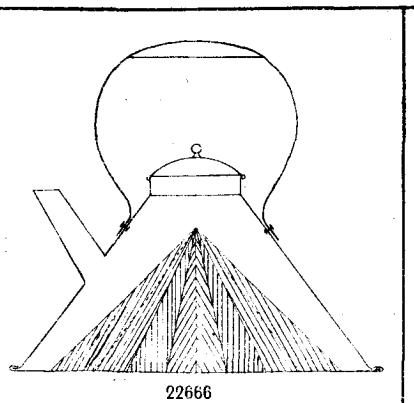


Fig. 1.

22673
Sylvester. Agricultural Machine.



22666
Fischer. Water-heater.

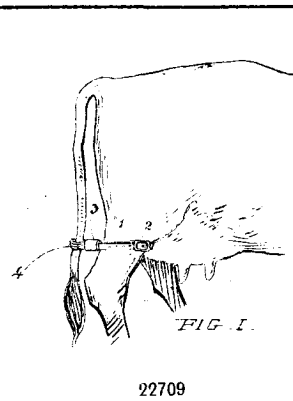


FIG. 1.

22709
Woodcock. Tail-holder.