

SUPPLEMENT

TO THE

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Illustrated Official Journal, containing lists of recent applications, abridgments of inventions for which patents have been lately granted, patents void, &c., to June, 1906.  
 Index of Applicants.  
 Subject-matter Index.  
 Commissioner of Patent Journal, &c.(\*)  
 Trade Marks Journal to May, 1906.

*Canada.*

Patent Office Record (containing illustrated abridgments of inventions, &c.) to December, 1905.

*Australia.*

The Official Journal of Patents of the Australian Commonwealth (containing lists of applications for letters patent, abridgments of complete specifications accepted, &c.).  
 The Gazettes of the various States (containing lists of applications for registration of trade marks, &c.).  
 Specifications, drawings, abridgments, and indexes of Victoria, New South Wales, Queensland, and South Australia<sup>(b)</sup>.

*United States.*

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

*Official Notices.*

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 19th April, 1906.

Classified abridgments of inventions from 1855 to 1904.

## AUCKLAND.—PUBLIC LIBRARY.

*United Kingdom.*

Classified abridgments of inventions from 1855 to 1900.  
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 1900.  
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 1900.  
Illustrated Official Journal from October, 1905, to date.

## BOOKS AND DOCUMENTS OPEN TO INSPECTION.

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<sup>(a)</sup>.
3. Register of Application for Letters Patent.
4. Register of Patents.
5. Register of Subsequent Proprietors of Letters Patent<sup>(d)</sup>.
6. Index of Patentees<sup>(e)</sup>.
7. Index of Proprietors of Letters Patent granted prior to 1890<sup>(f)</sup>.
8. Index of Specifications<sup>(g)</sup>.

*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<sup>(h)</sup>.
5. Index of Trade Marks.
6. Classified Representations of Trade Marks, with indexes.

*Miscellaneous.*

Register of Patent Agents.

## FORMS.

The following forms, &c., may be had on application:—

- 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<sup>(i)</sup>.
- Pamphlet containing Act and Regulations (price 1s.).

## 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 1904 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 the reception of applications for letters patent without extra payment have been appointed at the following places: Ashburton, Auckland, Blenheim, Christchurch, Dunedin, Gisborne, Greymouth, Hokitika, Invercargill, Napier, Nelson, New Plymouth, Oamaru, Queenstown, Thames, Timaru, Wanganui, Westport. These are situated in the Supreme Court Buildings and S.M. Court Houses.

## PATENT AGENTS.

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

- (a) Discontinued.
- (b) In arrear. Not now being printed.
- (c) Key is in card index.
- (d) 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.
- (e) 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.
- (f) The names of proprietors of subsequent letters patent appear in the Index of Patentees.
- (g) Contains classified abridgments of specifications from 1861, with extracts from drawings from July, 1904.
- (h) 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 are in card index.
- (i) May also be obtained at any local Patent Office or money-order office.

*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 cases where the applicant is not the inventor the name of the latter appears in italics after the title):—

- No. 21503.—21st July.—J. Jamison, Dunedin, N.Z.  
Blotting-pad and paper-ruler.
- No. 21504.—23rd July.—E. Le Roy, Auckland, N.Z.  
Horse-cover attachment.
- No. 21505.—23rd July.—E. Le Roy, Auckland, N.Z.  
Horse-cover.
- No. 21506.—23rd July.—W. H. Pearson, Dunedin, N.Z.  
Shot-machinery.\*
- No. 21507.—24th July.—D. McEwen, Dunedin, N.Z.  
Puzzle.
- No. 21508.—26th July.—E. L. Evens, Maltvern, South Australia.  
Clothes-washer.
- No. 21509.—26th July.—F. Staines, Melbourne, Vic.  
Smoking-pipe.\*
- No. 21510.—26th July.—Henry R. Worthington, New York, U.S.A.  
Direct-acting engine.\* (*F. F. Nickel.*)
- No. 21511.—26th July.—H. Waddington and B. Riley, Christchurch, N.Z.  
Dining and bowls table.
- No. 21512.—26th July.—C. F. Lungley, Melbourne, Vic.  
Manufacture of ammonia, &c.
- No. 21513.—26th July.—R. Brown, Westminster, Eng.  
Operating electric switches.\* (Date applied for under section 106, 25th July, 1905.)
- No. 21514.—26th July.—United Shoe Machinery Company, Paterson, U.S.A.  
Cementing-machine. (*F. H. Warren.*)
- No. 21515.—26th July.—W. E. Heys, Bushey, Eng., and R. Macpherson, Brondesbury, Eng.  
Detergent.\* (Date applied for under section 106, 16th November, 1905.)
- No. 21516.—26th July.—R. C. Sticht, Queenstown, Tas.  
Treating sulphide ores.\*

- No. 21517.—26th July.—J. Hebbard, Broken Hill, N.S.W.  
Drying and conveying wet products.
- No. 21518.—26th July.—J. T. Clark, Montreal, Canada.  
Nut-lock.\*
- No. 21519.—26th July.—F. C. Webb, Omeo, Vic.  
Roasting finely divided mineral material.
- No. 21520.—26th July.—P. A. Neumann, Johannesburg, Transvaal.  
Amalgamator.
- No. 21521.—24th July.—A. M. Grainger, Oamaru, N.Z.  
Sheep-dipping apparatus.
- No. 21522.—24th July.—C. F. F. Allan, Auckland, N.Z.  
Cabinet oven.
- No. 21523.—27th July.—E. J. Walsh, Blenheim, N.Z.  
Trolley-head.
- No. 21524.—25th July.—T. Vivian, Auckland, N.Z.  
Medicinal tonic.
- No. 21525.—27th July.—F. T. Page, Dannevirke, N.Z.  
Kerosene-pump attachment.
- No. 21526.—26th July.—R. E. Smallbone, J. Brown, and A. R. Morrison, Auckland, N.Z.  
Knife-cleaner.\*
- No. 21527.—30th July.—F. E. Tyler and A. J. Petersen, Carterton, N.Z.  
Hauler-block.
- No. 21528.—26th July.—J. D. Douglas, Auckland, N.Z.  
Car-coupling.
- No. 21529.—26th July.—J. A. Butler, Balfour, N.Z.  
Knife-sharepner.
- No. 21530.—26th July.—D. L. Hutton, jun., Dunedin, N.Z.  
Shield for pneumatic tire.
- No. 21531.—26th July.—J. Hercus and W. Morton, Dunedin, N.Z.  
Turnip-thinner.\*
- No. 21532.—28th July.—W. E. Searle, Oamaru, N.Z.  
Coal-shovel.
- No. 21533.—28th July.—W. E. Searle, Oamaru, N.Z.  
Drinking-cups, &c.
- No. 21534.—30th July.—T. K. Finnigan, Koroit, Vic.  
Horse-collar.
- No. 21535.—26th July.—J. E. Taylor, Mangere, N.Z.  
Building-block.
- No. 21536.—27th July.—R. T. Graham, Auckland, N.Z.¶  
Lock-socket for drainpipe.
- No. 21537.—31st July.—J. Hoare, Belfast, N.Z.  
Spring shears.
- No. 21538.—31st July.—R. M. Smith, Auckland, N.Z.  
Coupling-socket for drainpipe.\*
- No. 21539.—31st July.—J. Whitehouse, Waihi, N.Z.  
Wire mattress.
- No. 21540.—31st July.—H. Quartier, Christchurch, N.Z.  
Sprinkling and cleaning tramway-tracks.
- No. 21541.—31st July.—E. H. Browne, Clevedon, N.Z.  
Wire-strainer.\*
- No. 21542.—31st July.—C. R. Massey, Auckland, N.Z.  
Frame for reinforced concrete piles.
- No. 21543.—31st July.—T. Mitchell, Wellington, N.Z.  
Ships' hull.
- No. 21544.—1st August.—D. H. Bird, Waimate, N.Z.¶  
Seed-sower.
- No. 21545.—28th July.—F. E. Imeson, Thornaby-on-Tees, Eng.  
Finger-contact for electric controller.
- No. 21546.—1st August.—A. Carson and J. S. Greer, Melbourne, Vic.  
Lamp.
- No. 21547.—1st August.—L. Roberts, Timaru, N.Z.  
Dress-cutting chart.
- No. 21548.—30th July.—J. F. Nock, Nelson, N.Z.  
Silent rollers.\*
- No. 21549.—30th July.—J. F. Nock, Nelson, N.Z.  
Nail.\*
- No. 21550.—1st August.—H. P. D. Ohlhaber, Sande, Germany.  
Milking-machine.\*
- No. 21551.—1st August.—C. B. C. Storey, Lancaster, Eng.  
Disintegrating, &c., machine.\*
- No. 21552.—1st August.—H. H. Perfect, Wellington, N.Z.  
Toy.
- No. 21553.—1st August.—I. W. Rubel, New York, U.S.A.  
Transfer printing.\*
- No. 21554.—1st August.—J. V. M. Risberg, Sodertelje, Sweden.  
Centrifugal liner separator.\*
- No. 21555.—1st August.—M. Nicholas, London, Eng.  
Cleaning and dyeing wool, &c.\*
- No. 21556.—1st August.—C. E. Flint and D. Barclay, Hobart, Tas.  
Tape measure.\*
- No. 21557.—1st August.—A. Mole, Fordsburg, Transvaal.  
Hanging window-sashes.\*

- No. 21558.—27th July.—A. Orr, Balfour, N.Z.  
Turnip-thinner.
- No. 21559.—30th July.—J. Wilson, Christchurch, N.Z.  
Powder-sprinkler.
- No. 21560.—30th July.—A. Johnston, Auckland, N.Z.  
Mop and scrubber.\*
- No. 21561.—2nd August.—E. Walker and M. A. Browne, Christchurch, N.Z.  
Match.
- No. 21562.—2nd August.—J. N. Caught, St. Kilda, Vic  
Kerosene-tap.\*
- No. 21563.—2nd August.—G. P. Innes, Sydney, N.S.W.  
Reversible gear for shafts.
- No. 21564.—2nd August.—F. Lobnitz, Renfrew, Scotland.  
Rock-cutter.\*
- No. 21565.—2nd August.—E. Hyde and K. Matthews, Wellington, N.Z.  
Increasing a person's height.
- No. 21566.—2nd August.—C. A. Briggs, Wellington, N.Z.  
Score-indicator for games.
- No. 21567.—2nd August.—A. W. Roberts, Christchurch, N.Z.  
Boot-brush.¶
- No. 21568.—30th July.—A. J. Park, Dunedin, N.Z.  
Ventilating compartments. (R. Dunne.)
- No. 21569.—30th July.—F. W. Payne, Dunedin, N.Z.  
Concentrating gold-wash.\*
- No. 21570.—30th July.—J. Turnbull, Waikaka, N.Z., and R. L. Christie, Gore, N.Z.  
Poison-laying machine for rabbits.¶
- No. 21571.—3rd August.—A. R. Randall, Wellington, N.Z.  
Advertising on watch and clock dials.
- No. 21572.—3rd August.—T. B. Lockley, Goulburn, N.S.W.  
Fuel-box for stove.\*
- No. 21573.—3rd August.—J. W. Cooke, Napier, N.Z.  
Door-retainer.
- No. 21574.—3rd August.—J. R. Patterson, Wellington, N.Z.  
Chimney-top.
- No. 21575.—4th August.—F. T. Page, Dannevirke, N.Z.  
Kerosene-pump plunger.
- No. 21576.—4th August.—H. J. Knipe, Invercargill, N.Z.  
Cinder-sifter.
- No. 21577.—1st August.—E. H. Grey, and B. H. Bishop, Auckland, N.Z.  
Fire-lighter.
- No. 21578.—1st August.—T. J. M. McMenemy and A. Parris, Auckland, N.Z.  
Hair-colour restorer.
- No. 21579.—2nd August.—J. H. Roberts, Dunedin, N.Z.  
Connecting-hook for plough-chains.
- No. 21580.—2nd August.—J. E. Dewhurst, Auckland, N.Z.  
Extending table.
- No. 21581.—3rd August.—R. M. Crosbie, Dunedin, N.Z.  
Grinding flax-beater roller.
- No. 21582.—3rd August.—J. and L. M. Ford, Dunedin, N.Z.  
Shaving, paint, &c., brush.
- No. 21583.—6th August.—J. H. Suckling, Christchurch, N.Z.  
Regulating air-supply in carburetter.\*
- No. 21584.—6th August.—A. G. Howland, Christchurch, N.Z.  
Sash-fastener.
- No. 21585.—6th August.—K. C. McCaul and G. S. Rait, Wellington, N.Z.  
Printer's perforating-rule.
- No. 21586.—7th August.—T. Firth, Wellington, N.Z.  
Stopping-place indicator for tram-car.
- No. 21587.—7th August.—A. J. Border, Wellington, N.Z.  
Drying process.
- No. 21588.—7th August.—A. J. Border, Wellington, N.Z.  
Fibre-bleaching method.
- No. 21589.—7th August.—A. J. Border, Wellington, N.Z.  
Flax-bleaching process.
- No. 21590.—7th August.—T. Hall, New Plymouth, N.Z., and F. Elvines, Wellington, N.Z.  
Non-siltable metal-saving mat.
- No. 21591.—4th August.—J. P. Belcher, Wanganui, N.Z.  
Hurdle.
- No. 21592.—4th August.—P. E. G. Cumberland, Melbourne, Vic.  
Preventing corrosion of metals.
- No. 21593.—4th August.—W. Philpott, Longbush, N.Z.  
Plough-skimmer.\*
- No. 21594.—8th August.—D. L. Yates, Melbourne, Vic.  
Destroying rabbits, &c.
- No. 21595.—8th August.—W. H. Bonney, Toorbul, Queensland.  
Bullock-bow key

No. 21596.—8th August.—W. E. Hughes, Wellington, N.Z.  
Water-heater.\* (J. F. Yoho.)  
No. 21597.—8th August.—W. E. Hughes, Wellington, N.Z.  
Moulding-machine.\* (A. Holloway.)

*Notice of Acceptance of Complete Specifications.*

Patent Office,  
Wellington, 8th August, 1906.

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. 19819.—1st August, 1905.—ALBERT HENRY FARMER, of Devonport, Auckland, New Zealand, Engineer. Improvements in or relating to steam-valves.\*

*Extract from Specification.*—This invention relates to improvements in the construction of steam-valves by means of which the valve may be operated to open or close at a distance therefrom, and which, should any leak or escape of steam occur in the pipes controlled by the valve, such valve will be automatically closed so as to shut off the supply of steam. The invention relates particularly to that class of valve in which a cylinder is combined with the valve-chamber, and which cylinder contains a piston connected by means of a rod to the valve itself, such piston being adapted to be operated upon to open or close the valve by means of steam admitted to the cylinder below or above it. Such appliances have also combined with them means for pressing upon the valve-rod so as to keep the valve normally closed.

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

(Specification, 8s. 6d. ; drawings, 2s.)

No. 19827.—3rd August, 1905.—WILLIAM THOMAS NUTTALL, of Dannevirke, New Zealand, Gunsmith. An improved branding-appliance.\*

*Claims.*—(1.) In branding-appliances of the class described, the combination with an hermetically tight cylinder or reservoir adapted to receive the fluid of a tube extending longitudinally through the reservoir and projecting out each end thereof, the length of such tube within the reservoir being provided at each end with a slit extending around it through half its circumference, the slit at one end being formed diametrically opposite to that at the other end, and one of the projecting ends of the tube being provided with a nipple, and having the brand attached thereto, substantially as specified. (2.) In branding-appliances of the class described, in combination, a reservoir, a tube passing longitudinally through the reservoir and projecting from each end thereof, a nipple on one end of the tube, such nipple being formed with a tapered inner end to its bore, a rod with a pointed end adapted to fit within the tapered bore of the nipple, such rod extending longitudinally through the tube and projecting from the other end thereof and provided with means whereby it may be given a longitudinal movement in either direction, and slits in the portion of the tube within the reservoir, substantially as described. (3.) The general arrangement, construction, and combination of parts in my improved branding-appliance, substantially as described and explained, as illustrated in the drawings, and for the several purposes set forth.

(Specification, 4s. 6d. ; drawing, 1s.)

No. 19836.—4th August, 1905.—JOHN O'DONNELL, of Hawera, New Zealand, Farmer. An attachment to milk-cans to prevent the intrusion of insects and other matters thereto.\*

*Claims.*—(1.) An attachment to milk-cans to prevent the intrusion of insects and other matter thereto, the same consisting of a cylinder of wire gauze or like material secured to a frame adapted to rest upon the top edge of the can, and a cover or lid fitting upon the top end of the cylinder, substantially as specified. (2.) The attachment to milk-cans to prevent the intrusion of insects and other matter, substantially as described and explained, and as illustrated in the drawings.

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

No. 19837.—2nd August, 1905.—LAURANCE HEALY, of New Plymouth, New Zealand, Blacksmith. An improved swingletree.\*

*Claims.*—(1.) An improved swingletree constructed of two plates of suitable material fastened together at suitable intervals throughout their length and with shackles inserted and fastened between the adjacent faces thereof, substantially as specified. (2.) The improved swingletree, substantially as described and explained, and as illustrated in the drawings.

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

No. 19881.—15th August, 1905.—HUBERT AIREY, of Karangahake, Upper Thames, Auckland, New Zealand, Gold-miller. Centrifugal separator for mercury.\*

[NOTE.—The title in this case has been altered from that set out in the provisional specification.]

*Extract from Specification.*—The machine comprises a plurality of buckets pivotally attached to a carrier mounted upon a central spindle. The bottom of the buckets are perforated, and linings or filter-bags fit the interior of the buckets. The whole of the said parts are enclosed in a pan covered by a lid.

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

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

No. 19975.—1st September, 1905.—ANDREW MURIE GRAINGER, of Oamaru, New Zealand, Labourer. A plough for cutting noxious weeds underneath growing crops without injury to crops.\*

*Claim.*—A plough for cutting noxious weeds underneath growing crops without injury to crops, comprising, in combination, blades attached to the beam for cutting weeds at any desired depth in the soil, and blades descending beneath the weed-cutting blades having smaller blades attached for working the subsoil.

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

No. 19976.—1st September, 1905.—WILLIAM KENNEDY, of Sutton, Otago, New Zealand, Farmer. Device for lifting side of plough automatically.\*

*Claims.*—(1.) The general construction, arrangement, and combination of parts composing my device for lifting side of plough automatically, substantially as described. (2.) In a device of the class described, means for connecting the poles or bars, substantially as described, and illustrated in Fig. 3. (3.) In a device of the class described, a pole (1) having a tooth-piece (3) and flange (2) at one end constructed, arranged, and operating substantially as described and illustrated in Fig. 1.

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

No. 19981.—6th September, 1905.—JOHN HENRY, Commission Agent, and ALBERT GEORGE GABITES, Mechanic, both of Dean Street, St. Albans, Canterbury, New Zealand. Improved combined pocket flask and heater.\*

*Claims.*—(1.) A combined flask and heater constructed, arranged, and operating substantially as specified, and as illustrated in the drawing. (2.) A combined flask and heater comprising, in combination, a flask having an internal vertical flue, and a combustion-chamber at the bottom adapted for the burning of spirits of wine or the like for the purpose of heating the contents of the flask, substantially as specified, and as illustrated in the drawing.

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

No. 19998.—4th September, 1905.—THOMAS BRANTON, of Timara, near Blenheim, New Zealand, Flaxmill-manager. Machine for cleaning tails off flax before washing.\*

[NOTE.—The title in this case has been altered from that set out in the provisional specification.]

*Claim.*—A machine for cleaning the tails off flax, comprising, in combination, a number of knives or beaters mounted upon revolving arms, a curved or concave surface across which the beaters pass, such surface being provided at its top end with an orifice passing through it adapted to receive hanks of flax,

and bearing upon which the revolving arms are mounted, and means for their adjustment in relation to the curved or concave surface, substantially as specified.

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

No. 19999.—5th September, 1905.—ANDREW MURIE GRAINGER, of Oamaru, New Zealand, Labourer. A bird-trap.\*

*Claim.*—A bird-trap comprising, in combination, movable slides or doors in the body of trap; an entrance-passage running from one side of the body of trap to the other, provided with a floor or entrance-plank, parts of which are reduced to a feather-edge at the sides; uprights, or entrance-passage sides, which extend about an inch below the bottom of the entrance-plank, the spaces between uprights and the uprights themselves being covered with netting; a space provided between the netting and feather-edges of the entrance-plank, and a shoot provided with stops, substantially as described.

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

No. 20083.—20th September, 1905.—EDWARD ARTHUR IRWIN, of Timaru, New Zealand, Manufacturers' and Advertising Agent. Improvements in a stand and cutter for holding reels of wrapping-paper for shops, &c.\*

*Extract from Specification.*—The invention consists in providing a cutter-bar with rollers and a bevelled cutting-edge, and in providing improved means for mounting the reel.

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

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

No. 20131.—4th October, 1905.—GEORGE VINCENT KEMSELEY, of Reikiorang, Waikanae, New Zealand, Fire-engineer. Improvements in closed circuit electrical fire-alarms.

[NOTE.—The title in this case has been altered from that set out in the provisional specification.]

*Extract from Specification.*—The invention consists in the interposition within the closed circuit of a joint composed by a weight and a fusible alloy, both of which are electrical conductors, and which alloy is so composed as to be capable of fusing at any predetermined temperature. When such alloy fuses the weight will fall, thereby breaking the circuit and causing an alarm to be sounded through the relay circuit connected therewith in a usual and well-known manner.

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

(Specification, 4s. ; drawing, 1s.)

No. 20151.—6th October, 1905.—JOHN FENTON, of Grey Lynn, Auckland, New Zealand, Stove and Range Maker. Improvements relating to fasteners for hats, bonnets, and the like.\*

*Extract from Specification.*—According to this invention the guide, instead of being fixed to the hat, is made in the form of a perforated plate, which is adapted to slide in a frame having a comparatively long slot for the passage of the pins, and which is secured to the hat upon the inside or outside of the crown.

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

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

No. 20189.—18th October, 1905.—DAVID GRAHAM WATSON, of Timaru, Canterbury, New Zealand, Company-manager. Improvements in trace-spreaders.\*

*Extract from Specification.*—A pin having a head and a squared neck is fitted in to each socket. A portion of the inner end of the pin is cut away and fitted with a spring having its end bent at right angles and formed into a snib. A hole is made through the socket and is adapted to receive the snib of the spring, and thus secure the pin in the socket.

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

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

No. 20276.—2nd November, 1905.—EDWARD THOMPSON CLIFTON FRETZ, of Government Life Insurance Buildings, Queen Street, Auckland, New Zealand, Pumice-manufacturer.

A process for mixing or combining ground pumice, pumice-sand, or other granulated material with soap, for the manufacture of compressed pumice-soap or other suitable granulated or fine-ground material intermixed with soap.\*

*Claims.*—(1.) The mixing the pumice-sand in the proportion of about 36 lb. avoirdupois weight with about 5 lb. avoirdupois weight of soap and about 8 lb. avoirdupois weight of water and passing the mixture through my disintegrating-machine, forcing it through a wire mesh until it is left in a semi-granular condition and dry enough not to stick to the moulds or dies after being pressed for the purpose set forth, substantially as described. (2.) The pressing the mixture specified in my press protected by Letters Patent No. 20811 or in other suitable press for the purpose set forth, substantially as described.

(Specification, 3s.)

No. 20569.—12th January, 1906.—JOHN PERCY COWDERY, of Christchurch, New Zealand, Engineer. Improved apparatus for oiling the axles of railway carriages, trucks, and other like vehicles.\*

*Extract from Specification.*—Consists of a roller or wheel that is mounted within one end of a rocking device so as to be capable of rotary motion, and upon the other side of the supporting bearing of which rocking device a counterweight is secured that tends to elevate the wheel or roller aforesaid. The box is supplied with oil, and the mechanism described is so disposed that the wheel or roller will be partly immersed in the oil. Said wheel will be kept in contact with the axle by the counterweight, and thus the axle will be supplied with oil from the oiler, while the axle will convey the oil to the bearing.

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

(Specification, 3s. 9d. ; drawing, 1s.)

No. 20631.—24th January, 1906.—WILLIAM JENKINS, of Sheffield, Tasmania, Australia, Bootmaker. Improvements in boot-sole attachments.\*

*Claims.*—(1.) In boot sole and heel attachments, metal plates fixed between the tread and a sole or lift adjacent to the same, and provided with a screw-threaded aperture for the reception of a spike-pin, and fastening means, substantially as illustrated in Figs. 1 and 2, and as described. (2.) The combination of the parts illustrated in Fig. 3 at the heel, which are adapted to be attached thereto, substantially as described. (3.) The combination of the parts illustrated in Fig. 4 at the heel, which are adapted to be attached thereto, substantially as described. (4.) The combination with a perforated sole of the attachments thereto illustrated in Fig. 3, as described. (5.) The combination with a perforated sole of the attachments thereto illustrated in Fig. 4, as described. (6.) A metal plate which has a thin non-central part, fastening means in one piece therewith, and means as a screw-threaded aperture to receive a removable spike-pin or the like, substantially as described.

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

No. 20742.—19th February, 1906.—ALFRED JAMES BORDER, Electrical Engineer, and LUCY MAUDE COVENTRY, Married Woman, both of Wellington, New Zealand. An improved indicator.\*

*Extract from Specification.*—The invention relates particularly to that class of indicator which embodies the use of a pair of drums arranged in parallel lines, and upon which is wound a canvas band, or the like, bearing on it the names of the various stopping-places in order, and which names are displayed as the band is wound from one drum to the other. Such drums have been operated by mechanical or electrical means, and the present invention consists in improvements in electrical means whereby the drums may be given the amount of revolution necessary to display a fresh name, and also to the manner in which the drums are mounted, so as to allow of their regular action and for perfect balancing.

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

(Specification, 11s. ; drawing, 1s.)

No. 21091.—5th May, 1906.—ELIZABETH MARY BARKER, of Featherston, Wellington, New Zealand, Married Woman. Improvements in cans for holding and agitating milk, and in methods for cooling the same.

*Extract from Specification.*—A liner is made with an outside casing from which it is separated by flanges, thus leaving an annular space for the introduction of water, which is frozen in a freezing-chamber prior to the introduction of the milk into the liner. The milk is agitated by means of a hollow pendulum suspended by a hook from the top of the can. This pendulum is hollow, and provided with a screw cap for the introduction of water which is frozen in a freezing-chamber, and introduced into the can after the milk has been placed therein.

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

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

No. 21150.—16th May, 1906.—ROBERT WILLIAM JEFFREY, of Eaglehawk, Victoria, Australia, Merchant (assignee of Joseph Henry Pickles, of Victoria Street, Eaglehawk aforesaid, Miner). An improved safety bucket-hauling device for use in shaft-sinking and similar work.

*Claims.*—(1.) A safety bucket-hauling device for use in shaft-sinking and similar work, comprising a framework fitted with safety dogs or grippers in combination with means for automatically releasing the haulage rope and bucket therefrom when the bucket reaches the lower end of the timbered portion of the shaft, substantially as and for the purposes specified. (2.) In a safety bucket-hauling device for use in shaft-sinking and similar work, a framework fitted with safety dogs or grippers in combination with a catch (14) normally engaging a shoe on the haulage rope, and adapted to be released when the cage reaches a certain depth in the shaft, substantially as and for the purposes specified. (3.) In a safety bucket-hauling device for use in shaft-sinking and similar work, a shoe upon the haulage rope in combination with a sliding catch (as 14) together with a connecting-rod and bell crank lever actuated by a stop near the lower end of the shaft, substantially as and for the purposes specified. (4.) The combination and arrangement of parts constituting the improved safety bucket-hauling device, said parts being constructed, arranged, and operating substantially as and for the purposes specified, and as illustrated in the drawings.

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

No. 21165.—17th May, 1906.—INTERNATIONAL HARVESTER COMPANY OF AMERICA, a corporation registered under the Companies Act of New Zealand, and having a place of business at Christchurch, New Zealand (assignees of John David Bywater, of Christchurch aforesaid, Attorney and Manager for the said company). An improved finger-attachment for mowing and reaping machines.

*Claim.*—(1.) An attachment for the fingers of mowers or reapers, the same consisting of a plate pointed at its forward end, and formed with a rearwardly extending member upon its upper edge, and with a rearwardly extending member upon its lower edge, such lower member being curved upwardly and downwardly so as to form a recess in its bottom edge, and being formed with a boss at its rear end adapted to rest and be bolted upon the finger-bar of the machine, a bore in the forward end of such recess adapted to receive the point of a finger, and a set-screw passing upwards through the lower member, and the head of which is adapted to rest and bear upon the top of the finger when the attachment is placed thereon, substantially as specified.

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

No. 21167.—17th May, 1906.—NEHEMIAH GUTHRIDGE, of 486 Collins Street, Melbourne, Victoria, Australia, Merchant (assignee of William Legrand Card and Frank Smith Card, both of Denver, Colorado, United States of America, Mechanical Engineers). Multiplane deck for ore-concentrator.

*Extract from Specification.*—I preferably construct the table or deck of a plurality of planes or surfaces of constant area, said planes being inclined with respect to each other, and one or more of said surfaces being inclined downwardly from the rear end towards the front end and having a decreased transverse inclination, whereby the side flow of the pulp is sufficiently retarded to induce proper stratification, and at the same time a longitudinally forward travel of the values is established, and such a construction embodies a further feature of my invention. In order to adapt the gradient of such of said planes or surfaces of the deck or table as are inclined forwardly downward towards the front end of the table to the varying character of the pulp or other material to be operated upon

and to the varying volume of dressing-water required therefor, I preferably render said planes adjustable, or, in other words, I preferably construct the multiplane deck with its planes relatively adjustable, and such a construction embodies a further feature of my invention.

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

(Specification, £1 3s.; drawing, 5s.)

No. 21168.—17th May, 1906.—NEHEMIAH GUTHRIDGE, of 486 Collins Street, Melbourne, Victoria, Australia, Merchant (assignee of William Legrand Card and Frank Smith Card, both of Denver, Colorado, United States of America, Mechanical Engineers). Self-lubricating dust-proof head-motion for ore-concentrator.

*Extract from Specification.*—One feature of my invention, generally stated, resides in a mechanism for actuating concentrator-tables, wherein the co-acting elements are comprised of vibrating members having rolling contact, the point of contact receding from one centre of motion and simultaneously approaching the other centre of motion, so that a gradual acceleration and gradual retardation of the concentrator-table is alternately effected, and the power applied with greatest advantage. A further feature of my invention resides in the provision of an oil-well and protective cover for the operative mechanism, and means for automatically lubricating the pivots and bearings thereof, whereby labour and oil are saved and the life of the mechanism prolonged.

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

(Specification, 14s. 6d.; drawings, 2s.)

No. 21169.—17th May, 1906.—NEHEMIAH GUTHRIDGE, of 486 Collins Street, Melbourne, Victoria, Australia, Merchant (assignee of William Legrand Card and Frank Smith Card, both of Denver, Colorado, United States of America, Mechanical Engineers). Improved concentrator-feeder.

*Extract from Specification.*—In carrying out my invention, I construct a pulp-feeder for concentrators with a series of transverse riffles extending from the rear towards the front of the feeder for substantially two-thirds or three-fourths the length thereof, more or less, whereby the coarser particles of the pulp are arrested and directed towards the discharge-orifices at a distance from the rear of the feeder proportionate to the size of the particles, while the finer particles and slimes are carried to the front or plane portion of the feeder and discharged upon the table well forward and near the feed side thereof, and such a construction embodies one feature of my invention. In order that the fine metallic particles and slimes shall be discharged from the front end of the feeder upon the upper forward portion of the table, and to prevent their escape from the feeder at or near its rear end, I form the feeder-bottom with a transverse inclination downward towards the discharge side of the feeder, and adjacent to said side render the inclination abrupt so as to form a narrow channel contiguous to the discharge-orifices of the feeder, adapted to induce an accumulation of the coarser pulp and enable the fine metallics and slimes to be driven back from the discharge-orifices by a suitable flow of water introduced into the feed-box adjacent to the discharge-orifices thereof, and such a construction embodies a second feature of my invention. In order to arrest and guide the pulp-particles towards the discharge side of the feed-box at gradually increasing distances from the rear end of the box proportional to the relative size and specific gravity of the particles, I preferably arrange the riffles at an acute angle to the discharge side of the feed-box and reduce the height of the riffles gradually from the rear to the front of the box, whereby the advance of the fine metallics and slimes toward the front end and plane portion of the box is facilitated, and such a construction embodies a third feature of my invention.

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

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

No. 21235.—30th May, 1906.—PIERRE MARIE MAZÉ, of 25 Rue Dutot, Paris, France, Agricultural Engineer. Apparatus for pasteurising milk and other substances.

*Extract from Specification.*—The present invention comprises an apparatus whereby the desired result is obtained

by utilising, as heating medium, the saturant vapour of methyl alcohol at atmospheric pressure, and which boils at the temperature above stated, or by employing such other liquid as boils at the particular temperature required. Consequently the invention is applicable to liquids other than milk by selecting, as the heating medium, a liquid the saturant vapour of which at atmospheric pressure corresponds to the temperature it is desired to attain.

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

(Specification, 10s. 6d. ; drawings, 2s.)

No. 21245.—31st May, 1906.—THE NEW ZEALAND 20TH CENTURY GAS COMPANY (LIMITED), having their registered office at Hunter Street, Wellington, New Zealand (assignees of Allan Jay Way, of Hunter Street, Wellington aforesaid, Engineer). Improvements in gas-burners.

*Claims.*—(1.) In a gas-burner, a rib integral with the burner and having a plurality of holes in close proximity to each other, substantially as set forth. (2.) In a gas-burner, a rib or lengths of rib integral with the burner and having holes arranged in groups and in close proximity to each other, substantially as set forth. (3.) The combination and arrangement of parts comprising the improvements in gas-burners, substantially as and for the purpose set forth, and illustrated on the drawing.

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

No. 21279.—9th June, 1906.—ERNEST WILLIAM GEORGE COLERIDGE, of Lambton Quay, Wellington, New Zealand, Architect. An improved adjustable handle for cooking-utensils.

*Claims.*—(1.) An adjustable handle for cooking-utensils and the like, constructed, arranged, and operating substantially as specified, and as illustrated in the drawing. (2.) An adjustable handle for cooking-utensils, made of one piece of wire bent to form three loops, the lowest of which passes beneath the cooking-utensil while the wire connecting the other two loops grips the top of the side thereof, an extension of the wire being made to form a handle, and the opposite end of the wire passing through the first loop, substantially as specified, and as illustrated in the drawing.

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

No. 21294.—13th June, 1906.—SAMUEL GEORGE PLUCKNETT, of Stratford Lodge, Livingstone Road, Petersham, near Sydney, New South Wales, Australia, Company-manager (assignee of Henry Herbert Davies, of 74 Samuel Street, St. Peter's, near Sydney aforesaid, Accountant, and himself). Improved concentrating-machine, usable also as an amalgamator.

*Claims.*—(1.) Improved puddler or washer or mixer for finely divided metalliferous material, wherein are oppositely inwardly revolving beaters or mixers above a third beater or mixer, substantially as described and explained. (2.) In puddlers, washers, or mixers of the class set forth, the constructions of beaters with radial arms supporting strips of twisted thin metal—say, band-iron—substantially as described and explained. (3.) The combination and arrangement together of all the parts or integers forming an improved puddler, washer, or mixer, substantially as described and explained, and as illustrated in the drawings. (4.) The combination and arrangement in and with the puddler, washer, or mixer as set forth in the preceding (first and third) claims of baffles and covers of amalgamating-plate, or lined with amalgamated plate and with or without mercury-troughs, substantially as described and explained. (5.) Improved concentrating-wells, consisting of one or a series or gang of stationary or vibrating wells, wherein are segregators and revolving in each successive well of a gang or series at decreased speed, substantially as described and explained. (6.) In a trough or well such as 21, segregators having a boss such as 28, and arms such as 27 set in advance of one another, substantially as described and explained, and as illustrated in the drawings. (7.) In a well such as 21, having discharge such as 37, with or without discharge-orifice such as 36, and segregators therein, of a downtake such as 20 discharging below the level of the contents of the same, and a discharge-conduit such as 35 above a baffle-plate such as 34, and with or without jets or nozzles such as 31, substantially as described and explained, and as illustrated in the drawings. (8.) The combination and arrangement together

of all mechanical parts or integers for the purposes set forth constituting the series of vibrating wells, substantially as described and explained, and as illustrated in the drawings. (9.) Improved concentrating-machine, usable also as an amalgamator, characterized by the combination with a washer or mixer having therein a series of beaters of a series or gang of vibrating wells, substantially as described and explained, and as illustrated in the drawings.

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

No. 21298.—13th June, 1906.—WILLIAM JAMIESON, of 52 New Road, Gray's, Essex, England, Engineer. Improvements in machines for clamping together pieces of wood or other material.

*Claims.*—In a machine for clamping wood or other material, the employment of a presser-bar worked by a crank and connecting-rod through a lever having no fixed or immovable fulcrums, and the work of which is measured by the strength of a spring to which it is attached, substantially as described with reference to the drawings. (2.) In a machine for clamping wood or other material, the device for preventing the work rising from the table when pressure is applied, consisting of a bar hinged to the presser and having its lower end extended through a slot in the table, against the end of which slot it engages and is tilted up to allow work to be placed on the table. (3.) In a machine for clamping wood or other material, having a bar hinged to the presser for the purpose of holding the work down on to the table, the arrangement of a piece fixed to the end of the table and having a hole in it through which the said bar can pass (as the presser moves forward) for the purpose of further strengthening and securing it, substantially as described. (5.) In a machine for clamping wood or other material, the arrangement of a clutch so disposed as will allow the machine to perform one revolution and then stop, such device consisting of a shoe resting on the edge of a disc and controlling the rise and fall of a catch, and working in conjunction with a projecting ring on the side of a driving-wheel, substantially as described and set forth with reference to the drawings.

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

No. 21302.—12th June, 1906.—DANIEL SMITH and FREDERICK WILLIAM SMITH, both of Christchurch, New Zealand, Boot-importers. Improvements in and relating to goloshes, gum-boots, and other rubber foot-wear.\*

*Claims.*—(1.) In the manipulation of goloshes, gum-boots, and other rubber foot-wear, a strip or strips of leather or like material secured upon the insole of the article, and covering the portions corresponding to the wearing-surfaces thereof, and a rubber outer sole moulded upon the surface of such strip or strips, substantially as specified. (2.) In the manufacture of goloshes, gum-boots, and other rubber foot-wear, a strip or strips of leather or like material secured upon the insole of the article provided with projections upon the outer face thereof, and a rubber outer sole moulded upon the surface of such strip or strips, and so formed that its outer face forms a uniform surface with the surfaces of the projections, substantially as specified. (3.) In the manipulation of goloshes, gum-boots, and other rubber foot-wear, a strip or strips of leather or like material secured upon the insole of the article, provided with recessed and (or) cut-away portions at intervals in its outer surface, and a rubber outer sole moulded upon the surface of the strip or strips, substantially as specified.

(Specification, 3s. 9d. ; drawing, 1s.)

No. 21303.—11th June, 1906.—WALTER VILLA GILBERT, of 11 Seymour Street, Port Elizabeth, South Africa, Secretary. Improved means for effecting reciprocal movements applicable to amusement and other apparatus.

*Extract from Specification.*—This invention relates to a resilient device acting as a spring operating flexible compound lever, and serving, upon being actuated in one direction as by being compressed from its normal condition, to cause motion in another direction or in various directions, and, in resiling to its normal condition upon being relieved from actuation, to cause corresponding motion reciprocal to that caused by its actuation, the device (hereinafter referred to as a "vilcar") being available for various industrial applications and amusement purposes, as hereinafter by way of example described. The "vilcar" may be made of steel, aluminium, cardboard, or other suitable flexible resilient

material, and is of such formation as would result from bending, pressing, or otherwise shaping a flat piece of such material into an indented arched form having projecting end parts or wings, as more particularly described.

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

(Specification, 8s. 6d.; drawings, 4s.)

No. 21309.—14th June, 1906.—JOSEPH HOPKIRK, of Hawera, New Zealand, Engineer. Improvements in or relating to force and lift pumps.

*Claims.*—(1.) In force and lift pumps, the combination with the cylinder of valves and passages arranged for the alternate admission of the liquid to each end of the cylinder and its ejection therefrom, substantially as described, and as illustrated in the drawings. (2.) In force and lift pumps, the combination with the cylinder of valves and passages arranged for the alternate admission of the liquid to each end of the cylinder and its ejection therefrom, the face of such valves being inclined at an angle outwards towards the bottom edge thereof, substantially as specified. (3.) The improvements in or relating to force and lift pumps, substantially as described and explained, as illustrated in the drawings, and for the several purposes set forth.

(Specification, 4s.; drawing, 1s.)

No. 21321.—13th June, 1906.—SAMUEL FRANK WOMERSLEY, of Traralgon, Victoria, Australia, Butter-factory Manager. An improved butter-weighing and packing machine.

*Extract from Specification.*—The essential feature of the invention is the combination in one machine of a weighing-chamber, an indicating-dial, a descending diaphragm or plunger, and a travelling carriage or tray for the packing-box.

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

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

No. 21324.—15th June, 1906.—JAMES NICHOLSON, of Riverton, New Zealand, Mill-manager. Improved tramway-trolley brake.

*Extract from Specification.*—The leading feature of my invention is the arrangement of eccentric cams adapted to be operated by a lever to press brake-plates against the sides of the rails.

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

(Specification, 5s.; drawings, 2s.)

No. 21325.—16th June, 1906.—MARK BOWLES, of Auckland, New Zealand, Plumber. Improvements in reaming pipes and tubes.

*Claim.*—A reamer working inside the end of the tube, and being fed by the female thread of the tool screwing down on the male thread of the pipe, cuts away the burr inside same, leaving a clean bore.

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

No. 21332.—22nd June, 1906.—WENCESLAUS NIKOLSKY, of the Ochta Gunpowder-factory, St. Petersburg, Russia, Colonel. Process and apparatus for distilling off and recovering the solvent used in the manufacture of explosives.

*Claims.*—(1.) The described process for distilling off and recovering the solvent from freshly prepared "cords" of smokeless powder or similar explosive, which consists in slowly heating the said cords in a closed receptacle while they are enveloped in vapours of the solvent, partly condensing the solvent vapours by artificial cooling and compression, and continually returning the uncondensed vapours to the place where they were generated. (2.) The described apparatus for performing the process specified above comprising a jacketed chest (A) for the reception of powder-cords, a water-heater (F) and pump (K) communicating with the jacket of the said chest, an air-compressor (B) adapted to draw vapours from the interior of the chest at its lower part through a pipe (a), a cooler (C) communicating with the

compressor and adapted to condense solvent vapours supplied by the same, and a receiver (D) communicating with the said cooler and with the upper part of the chest, so as to collect the vapours contained in the cooler and to return the uncondensed vapours to the chest. (3.) The improvement in the art of recovering solvents from smokeless gunpowder and similar explosives in the process of manufacture, which consists in slowly heating freshly prepared "cords" of the explosive in a closed receptacle while they are surrounded by vapours of the solvent and regulating the supply or temperature of the heating medium, substantially as described.

(Specification, 10s.; drawings, 3s.)

No. 21354.—26th June, 1906.—HARVEY COALE, of 1511 Guilford Avenue, Baltimore, Maryland, United States of America, Manufacturer. Improvements in the manufacture of artificial cork.

*Claims.*—(1.) As a new article of manufacture, an artificial, non-porous, tasteless, inodorous cork composed of granules bound together by an insoluble binding-material, substantially as described. (2.) An artificial cork composed of finely divided or granulated cork and binding-material composed of albumen, substantially as described. (3.) The method of making artificial cork consisting in taking granulated cork, mixing therewith a binding-material capable of becoming insoluble in the presence of heat, and finally subjecting the material to heat. (4.) The method of making artificial cork consisting in taking granulated cork, mixing therewith a binding-material, and finally subjecting the composition to a moist heat under pressure to render the binding-material insoluble. (5.) The method of making artificial cork consisting in taking granulated cork, mixing therewith albumen, and subjecting the composition to such heat as will render the albumen insoluble and retain the natural elasticity and flexibility of the cork, substantially as described. (6.) The method of making artificial cork consisting in taking granulated cork, mixing it with albumen, and subjecting the composition to moist heat, substantially as described. (7.) The method of making artificial cork consisting in taking granulated cork, cleansing and purifying the same, adding thereto albumen as a binding-material, subjecting the composition to pressure and to a moist heat whereby the albumen is coagulated and becomes insoluble while the product retains all the elasticity and flexibility of the natural material, substantially as described. (8.) The method of purifying granulated cork or the like consisting in placing the granules in a receptacle, submerging the receptacle in a liquid, and allowing the granules to escape from the receptacle, whereby the granules rise to the surface cleansed and purified while the impurities sink, substantially as described. (9.) The method of purifying granulated cork or the like consisting in placing the granules in a closed receptacle, submerging the receptacle in a bath of purifying or cleansing liquid, and then allowing the granules to escape to the surface, becoming cleansed and purified in their passage and leaving the impurities behind, substantially as described.

(Specification, 7s. 6d.; drawing, 1s.)

No. 21355.—26th June, 1906.—PHILIP GEORGE NUERNBERGER and GEORGE RETTIG, Jun., both of 32 South Jefferson Street, Chicago, Illinois, United States of America, Manufacturers. Type-casting machine.

*Claims.*—(1.) In a type-casting machine, the provision of mould-supporting blocks wherein both blocks may be simultaneously adjusted and wherein one may be adjusted independently of the other. (2.) A matrix-holder which maintains the matrix in an aligned casting-position, together with devices associated with the holder for withdrawing the matrix from the mould on a straight line. (3.) In a matrix-holder as set forth in claim 2, wherein means are provided for retaining the matrix in alignment with reference to the casting-position of the mould, together with means for imparting reciprocating movement to the matrix on a straight line. (4.) In a matrix-holder as set forth in claims 2 and 3, wherein a movable support is provided for the matrix, together with means for imparting reciprocating movement to said support on a straight line. (5.) In a matrix-holder as set forth in claims 2, 3, and 4, wherein the matrix is maintained in position from its under-side by a yielding support which is limited in its upward movement. (6.) A mould-actuating arm for mould-supporting blocks comprising means for operating said arm, and means connecting said arm with one of the mould-blocks to permit limited movement of the arm prior to opening the mould. (7.) A mould-locking arm for mould-blocks comprising a locking-



arm having its free end overhanging the mould at an angle corresponding to the inclination of the mould, and means for operating said arm to move the same into and out of a locking-position.

(Specification, 12s. ; drawings, 7s.)

No. 21356.—26th June, 1906.—PHILIP GEORGE NUERNBERGER and GEORGE RETTIG, Jun., both of 32 South Jefferson Street, Chicago, Illinois, United States of America, Manufacturers. Type-casting moulds.

*Claims.*—(1.) A type-casting mould provided with a gate having a jet-forming aperture delivering to and adapted to project within the mould-cavity. (2.) A type-casting mould as set forth in claim 1, wherein the gate is movably mounted within the mould and normally maintained in a position to hold the jet-forming aperture outside the mould-cavity and wherein contact with the metal-supplying device serves to thrust the jet-forming aperture into said mould-cavity. (3.) A type-casting mould as set forth in claim 1, wherein devices are provided to thrust the gate outwardly to break off the jet after the type is formed. (4.) A type-casting mould as set forth in claims 1 and 2, wherein portions or shoulders are provided to engage the base of the type to prevent withdrawal when the jet is broken. (5.) A type-casting mould as set forth, wherein the gate is provided with a key-cavity to form a retaining-tongue on the jet.

(Specification, 6s. 6d. ; drawings, 3s.)

No. 21359.—26th June, 1906.—ERNST AUGUST GIESELER, of 121 Eisenacherstrasse, Berlin, Germany, Engineer. Improvements in gravity filters.

*Claims.*—(1.) In gravity filters, the combination of means to compress the filter-bed in order to produce and maintain a filtering-skin on the top of the filter-bed and means to prevent said filter-skin from being injured, substantially as described and for the purpose specified. (2.) In gravity filters, the combination of an outflow reservoir and a movable outlet opening in said reservoir, substantially as described and for the purpose specified. (3.) Gravity filter in which the outflow of the filtrate takes place below the filter-bed through a siphon (12), the opening of which (13) is placed sufficiently deep under the filter-bed that its suction may overcome the adhesion between the air-bubbles and the sand-grains of the filter-bed, the siphon (12) opening into a tank (16) in which there is below such opening of the siphon (12) an annular outlet which rises and falls with the float (20), thus securing above such outlet a water-column of constant height, substantially as described and for the purpose specified. (4.) Gravity filter in which the outlet of the tank (16) is annular, and is formed by a disc (18) rigidly connected with the float (20), between which disc and the inner wall of the pipe (17) the annular opening for the outflow is formed, which annular opening rises and falls with the float (20), so that there always stands a water-column of the constant height (h) above such annular opening, substantially as described and for the purpose specified. (5.) In a gravity filter, the combination of an outlet opening of a reservoir (15), consisting of two perforated plates (21, 22) lying closely above each other, and one of them (22) firmly connected to a float by means of a pipe (20), while the other is attached to an axis passing through pipe and float, and can be turned by means of such axis, substantially as described and for the purpose specified. (6.) Gravity filter in which there is inserted a tank (1) of smaller diameter containing the filter-bed into the upper part of an outer tank (2), the annular space between the two tanks being closed by a bottom so that there is formed below the filter-tank (1) and the annular space a lower space in tank (2) which serves as subsidence-tank for the raw water, and into which the latter is admitted and from which it rises to the filter-bed through a central pipe passing through the filter-bed, the said annular space being used for the purpose of discharging the wash-water, substantially as described and for the purpose specified. (7.) Gravity filter in which a system of collecting-pipes and strainers at the bottom of the filter-bed are provided through which the filtered water as well as the wash-water can freely flow, but which prevent the escape of sand, substantially as described and for the purpose specified. (8.) Gravity filter in which the upper half of the filter-tank is enveloped by an outer tank of larger diameter, thus forming between the two an annular space enveloping the upper half of the filter-tank, and used for admitting the raw water which is to be filtered and for discharging the wash-water, the filter-tank being provided with

a system of collecting-pipes and strainers at the bottom, substantially as described and for the purpose specified. (9.) Gravity filter in which the sieves of the strainers are arranged so that the wash-water issuing from them sweeps the entire space between two adjacent strainers, substantially as described and for the purpose specified. (10.) Gravity filter in which the sieves of the strainers are placed at an angle of 90 degrees or less to the filter-bed, substantially as described and for the purpose specified. (11.) Gravity filter in which the sieves are secured in the casing by burnishing or pressing a rim, and thus jamming the sieves firmly against the face of a rebate, substantially as described and for the purpose specified.

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

No. 21366.—28th June, 1906.—JOSEPH FREDERICK CLARKE, of Alexandra Street, Hunter's Hill, New South Wales, Australia, Factory-manager. An improved machine for filling bottles or suchlike receptacles with liquid.

*Claims.*—(1.) In an improved machine for filling bottles or suchlike receptacles with liquid, one or more wedge-shaped devices suitably operated so as to compress and release flexible supply-pipes for the purpose of controlling the flow of liquid. (2.) The improved machine for filling bottles or suchlike receptacles with liquid as described, and illustrated in the drawings.

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

No. 21370.—26th June, 1906.—WILLIAM McCORD JAMIESON, of Te Papapa, near Onehunga, Auckland, New Zealand, Engineer. An improved pneumatic centre for wheels of bicycles and motor-cars, and for other wheels.

*Extract from Specification.*—This invention has for its object the providing an inner wave curve or corrugation to the inner rim which outwardly surrounds the pneumatic tire held to surround the hub fitted to the spindle of the wheel when pneumatic tires or bags are fitted to around the hubs of wheels, whereby vibration is reduced and greater comfort is insured.

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

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

No. 21373.—28th June, 1906.—LEWIS GRANT ABRAMS, of Phoenix Chambers, 158 Pitt Street, Sydney, New South Wales, Australia, Broom and Brush Manufacturer and Custom-house Agent (assignee of John Matherson, of Sydney aforesaid, Brush-handle Maker). Improvements in certain descriptions of brooms, brushes, and the like.

*Claim.*—An improved broom or brush with a handle, the top portion of the said handle is grooved, hollowed, or scooped out, such as shown in Fig. 2, in combination with wire, tin, twine, or other suitable material passing through the groove, and properly secured to the handle with nails, cleats, or other devices so as to firmly hold the bristle, fibre, or hair in the groove of the handle, substantially as described.

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

No. 21383.—27th June, 1906.—WILLIAM FRASER CLAUGHTON KELLY, of 8 Perham Road, Kensington, Barrister-at-Law, and JOHN ARTHUR BENTHAM, of 36 Beaumont Street, Portland Place, Gentleman, both in London, England. Improvements in and relating to the preparation and development of photographic plates, films, and the like.

*Extract from Specification.*—According to the present invention, we prepare a concentrated developing-mixture in a thick or semi-fluid condition, and containing as a preservative and alkaline constituent borax, boracic acid, or a soluble borate, and this mixture we spread on the back of the plate, film, or the like. We allow the developing-composition to dry, and if, after such a plate or film has been exposed in the camera, it is immersed in water, the water will dissolve the backing, and so become itself a developing-fluid.

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

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

No. 21391.—29th June, 1906.—EDWARD BYRON MACKENZIE, Clerk, NORMAN HAWKINS MACKENZIE, Engineer, and MERVYN KENNETH MACKENZIE, Engineer, all of 743 and 745 Harris Street, Ultimo, near Sydney, New South Wales, Australia. Machine for making horse-shoes.

*Claims.*—(1.) In horse-shoe machines, a die and die-box such as B, B<sup>1</sup> for impressing the rod of which the shoe is to be made with the necessary indentations and seating to form a blank, as set forth. (2.) In horse-shoe machines, in combination, a disappearing die-block such as K, an elliptical "former" such as O having articulated prongs, and two fixed inclines such as O<sup>1</sup> for curving the blank about the shoe-die, as specified. (3.) In horse-shoe machines, in combination, a disappearing die-block such as K, an elliptical "former" such as O having articulated prongs and an ejector apparatus, part of which is attached to and moves with the elliptical "former" and part of which is pivoted as a trigger Q in advance of the elliptical "former," so that when the shoe is formed from the blank by the "former" the recoil of the latter shall eject the formed shoe from the machine by striking the trigger, as set forth. (4.) In horse-shoe machines, the clipping-device shown in Fig. 3, consisting of a horizontal plate for flattening the shoe when it is ejected from the forming-machine, a cross-head or plunger provided with a roller for rolling out the clip-projection on the shoe and forming the finished clip, and suitable mechanical means for operating the parts, as specified. (5.) The general arrangement, construction, and combination of parts in the machine for making horse-shoes, as described, as illustrated in the drawings, and for the purposes specified.

(Specification, 7s. 6d.; drawings, 2s.)

No. 21407.—6th July, 1906.—ROBERT MARTIN, of Wellington, New Zealand, Oil and Colour Merchant. An improved case for storing and displaying prints, pictures, and the like.

*Claims.*—(1.) Means for storing and displaying prints, pictures, or the like, comprising a case and a number of vertical frames adapted to have the goods suspended thereon pivoted within such case, one behind the other, and the pivot-points of which are arranged on an angle extending inwards and outwards from the front corner of the case, substantially as specified. (2.) The improved case for storing and displaying prints, pictures, and the like, substantially as described, and as illustrated in the drawings.

(Specification, 2s. 3d.; 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 drawings 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.

F. WALDEGRAVE,  
Registrar.

*Provisional Specifications accepted.*

Patent Office,  
Wellington, 8th August, 1906.

**A** PPLICATIONS for Letters Patent, with provisional specifications, have been accepted as under:—

- No. 21234.—R. R. Douglas, umbrella.
- No. 21260.—J. Rae, steering ships.
- No. 21274.—T. C. Hement, lead-headed nail.
- No. 21276.—P. Jensen, perambulator.
- No. 21278.—J. Small, heating system for buildings.
- No. 21286.—W. Wenlock and W. B. Anderson, picture hanger.
- No. 21291.—G. Warne, music-leaf turner.
- No. 21297.—I. G. Wieneke, racehorse-starter.
- No. 21299.—J. H. McFarlane, portable derrick for loading vehicles.
- No. 21300.—R. A. Bradbury, waterproof garments.
- No. 21304.—R. Watson, non-refillable bottle.
- No. 21306.—C. L. K. H. Foot, lighting gas by an electric spark.
- No. 21307.—M. W. Winter, ladies'-skirt holder.
- No. 21310.—J. S. Hawkes, milk-can.
- No. 21320.—E. Lockerbie, tap.
- No. 21322.—W. Harvey, combined strainer and aerator.
- No. 21326.—C. A. Beal, folding gate and partition.

- No. 21328.—T. E. Bridger, teeth-extractor.
- No. 21329.—S. Millar, harvester.
- No. 21330.—F. B. C. Allen, lock nut and bolt.
- No. 21331.—R. O. Jarrett, disc loading-bar and dumbbell.
- No. 21333.—A. J. Fortescue, wheel-tire.
- No. 21334.—Maganite Explosives Syndicate, Limited, manufacture of explosives. (H. C. L. Bloxam.)
- No. 21341.—N. R. Gordon, flying-machine.
- No. 21342.—T. Beckett, propelling vessels.
- No. 21343.—J. Stewart, shifting-spanner.
- No. 21344.—G. Gray, seed-sower.
- No. 21345.—T. Bush, cap.
- No. 21347.—E. Oliver, wheel-presser foot-ge r for sewing-machine.
- No. 21348.—A. L. J. Tait, washing and drying flax.
- No. 21349.—F. A. Alcock, billiard and dining table.
- No. 21362.—R. E. Hay, tool for boring holes in clay, &c.
- No. 21364.—United Shoe Machinery Company, machine for assembling parts of boots and shoes. (O. Ashton.)
- No. 21365.—United Shoe Machinery Company, pounding-machine. (O. Ashton.)
- No. 21368.—H. Watt, mail-bag fastening and label-check.
- No. 21369.—R. P. Park, centrifugal pump.
- No. 21371.—R. Rayson, cooling air.
- No. 21372.—G. W. Pointon, sen., perpetual motor. (C. Pointon.)
- No. 21374.—C. Rask and E. A. Cameron, travelling-race or alley-way.
- No. 21377.—C. Suggate and W. E. C. Alexander, ore-refining furnace.
- No. 21380.—J. O. Galbally, window-sash.
- No. 21381.—J. W. Hardley, metal-shaping machine.
- No. 21382.—C. B. Smith, cushion tire.
- No. 21385.—A. H. Bridger, boot-heel.
- No. 21386.—G. Ritchie, lamp.
- No. 21388.—W. Grace, foot-warmer.
- No. 21389.—A. Ashcroft and C. Strachan, hub and rim for bicycle and motor wheels.
- No. 21390.—A. H. Brookes and E. Broughton, prevention of clogging in sink-pipes.
- No. 21395.—D. C. McArthur, gate-fastener.
- No. 21396.—C. J. Ladbroke, wheel for perambulator, go-cart, &c.
- No. 21398.—T. Sampson, automatic time-switch.
- No. 21410.—A. Loft, fencing-post.
- No. 21411.—J. Brown, lever jack, stump-puller, and cramp.
- No. 21412.—P. J. Brown, water-pipe valve.
- No. 21415.—W. Coyle, lock-shackle.
- No. 21416.—R. R. Douglas, dredge-tumbler.
- No. 21427.—United Shoe Machinery Company, supporting and positioning work in making boots and shoes. (E. E. Winkley.)
- No. 21428.—United Shoe Machinery Company, jack for supporting and positioning work in making boots and shoes. (E. E. Winkley.)
- No. 21439.—J. Whyte, tie-frame.

**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.

*List of Letters Patent sealed.*

**L**IST of Letters Patent sealed from the 24th July to the 8th August, 1906, inclusive:—

- No. 19296.—T. Hilton, wire mattress.
- No. 19297.—T. Hilton, wire-mattress tightener.
- No. 19298.—T. Hilton, wire mattress.
- No. 19304.—G. T. Voorhees, fluid-compression.
- No. 19318.—N. Setterwall, centrifugal separator. (F. O. Nilsson.)
- No. 19337.—C. W. Merrill, pressure-filter.
- No. 19367.—H. Braby, burner.
- No. 19368.—United Shoe Machinery Company, heel and heel-nailing machine. (W. H. Taylor.)
- No. 19427.—G. T. Macfarlane, derrick and winch.
- No. 20355.—W. E. Hughes, casting curved stereotypes. (The Printing Machinery Company, Limited.—H. A. W. Wood.)
- No. 20484.—R. Barnes, boot or shoe heel.
- No. 20534.—La Societe Anonyme Westinghouse and M. le Blanc, ejector.
- No. 20556.—A. V. Leggo, ore-furnace.
- No. 20587.—J. Snodgrass, precipitating gold and silver.
- No. 20682.—C. L. Higgins, overshoe.
- No. 20880.—Marconi's Wireless Telegraph Company, Limited, wireless telegraphy. (G. Marconi.)

*Letters Patent on which fees have been paid.*

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

SECOND-TERM FEES.

- NO. 14870.—J. Ford and A. C. Murray, perambulator. 31st July, 1906.  
 No. 15222.—F. W. Williams, E. R. Ludbrook, and A. B. Jackson, dust and draught preventer for doors. 6th August, 1906.  
 No. 15241.—L. Roberts, dress-cutting chart. 1st August, 1906.  
 No. 15282.—W. H. James and R. F. Wells, sheep-shears. 2nd August, 1906.  
 No. 15316.—W. Rowe, railway-traffic-control system. 2nd August, 1906.  
 No. 15522.—The Toledo Glass Company, gathering and shaping glass. (M. J. Owens.) 26th July, 1906.

THIRD-TERM FEE.

- No. 11897.—The British Westinghouse Electric and Manufacturing Company, Limited, circuit-breaker. (J. P. Campbell—H. P. Davis and G. Wright.) 1st August, 1906.

*Subsequent Proprietors of Letters Patent registered.*

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

- NO. 16141.—John Joseph Anderson, of Dunedin, in the Colony of New Zealand, Hat-manufacturer. Dressing fur. [The New Zealand Co-operative Manufacturing Company, Limited—C. Anderson.] 26th July, 1906.  
 No. 19445.—Henry Frederick Moss, of Dunedin, in the Provincial District of Otago, in the Colony of New Zealand, Timber-merchant, registered as Proprietor for the Provincial District of Otago and Southland. Scaffolding-bracket. [G. E. Humphries.] 26th July, 1906.  
 No. 20713.—The British Westinghouse Electric and Manufacturing Company, Limited, having their registered office at Westinghouse Building, Norfolk Street, Strand, in the City of Westminster, in England, Manufacturers. System of electrical distribution. [J. P. Campbell—R. Braun.] 26th July, 1906.

*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 26th July to the 8th August, 1906, inclusive:—

- No. 20090.—H. Ham, flax-stripper frame.  
 No. 20095.—W. E. Hughes, candle or lamp holder. (H. M. Levinge.)  
 No. 20097.—F. Olsen, attaching trace-spreader to traces.  
 No. 20103.—A. C. Ford, oil drum or can.  
 No. 20105.—H. W. Aspinall and E. J. Rigby, supplying water to rock-drill.  
 No. 20106.—W. E. Hughes, poison layer. (H. H. Hinds and G. J. Lewis—H. Grass.)  
 No. 20108.—C. J. Lamkin, C. H. G. Croll, and A. S. Mitchell, producer-gas generator.  
 No. 20109.—W. T. Ashton, planing-machine.  
 No. 20111.—L. A. Orr, cycle-driving gear.  
 No. 20113.—G. I. Lowe, bicycle-pump.  
 No. 20114.—J. S. Mail, W. J. Stanton, and P. H. Storie, folding-chair.  
 No. 20120.—A. Matheson, cutter for wall-paper.  
 No. 20127.—W. Campbell, bread-tin.  
 No. 20129.—H. Leah, shade-holder for electric light.  
 No. 20130.—G. V. Kemsley, fire-alarm.  
 No. 20142.—W. Dempsey, flax-tail stripper.  
 No. 20146.—J. H. Love, horse-collar.  
 No. 20150.—A. H. Baskville, cuff-protector and blotter.  
 No. 20156.—R. O. Clark, earthenware kiln.  
 No. 20157.—A. S. Ford, weighing-machine attached to dray-axle.  
 No. 20192.—A. Campbell, pocket.

*Applications for Letters Patent void.*

APPLICATION for Letters Patent, with which complete specifications have been lodged, void, owing to non-acceptance of such complete specifications, from the 26th July to the 8th August, 1906, inclusive:—

- No. 19401.—A. Johnstone, preparing food for infants.  
 No. 19405.—B. A. Harkness and J. F. Batey, weighing-machine.  
 No. 19431.—C. M. Wall, toasting-fork.  
 No. 19442.—G. Methven and S. Gardner, stacking-machine.

*Applications for Letters Patent lapsed.*

LIST of applications for Letters Patent lapsed, owing to Letters Patent not being sealed, from the 26th July to the 8th August, 1906, inclusive:—

- No. 18954.—A. Storrie, turnip-ridger.  
 No. 18994.—F. A. Vaughan, door.  
 No. 19016.—J. Hindmarsh, screws, nails, &c.  
 No. 19029.—W. F. Lietz, portable receptacle for perishable goods.  
 No. 19040.—R. Scobie, securing coulter to plough-beam.

*Letters Patent void.*

LIST of Letters Patent void through non-payment of renewal fees, and through expiry of term of fourteen years, from the 26th July, 1906, to the 8th August, 1906, inclusive:—

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

- No. 14802.—J. Clegg, umbrella.  
 No. 14805.—C. Bristow, stretching trousers.  
 No. 14809.—W. E. Hughes, mechanical cashier. (Mechanical Cashier Syndicate, Limited—I. S. Dement, F. J. Hull, and A. D. King.)  
 No. 14816.—E. J. and W. R. Hume, harrow.  
 No. 14817.—E. J. and W. R. Hume, wire fence.  
 No. 14819.—C. E. Nicholas, table cricket.  
 No. 14820.—F. Finlay and C. J. Hebblewhite, checking-markers for games.  
 No. 14821.—P. C. Louat, steam-generator.  
 No. 14822.—A. O. Bridgman, mat-fastener.  
 No. 14827.—A. M. White, plough-share. (J. Ainsworth.)  
 No. 14828.—W. H. Fahey and W. Wardrop, pin-fastening.  
 No. 14830.—J. Smaill, determining quantity of liquid in refrigerator.  
 No. 14831.—H. Thomas and A. C. Mitchell, feed-water heater for boiler.  
 No. 14833.—J. L. Dewar and E. J. Tripp, treating beer for bottling.  
 No. 14841.—C. Tandy, lifting-trigger for telescope-ladder.  
 No. 14842.—C. Tandy, vehicle-wheel tire.  
 No. 14845.—G. H. Bigelow, nut-lock.  
 No. 14846.—J. Crook, production of air-gas.  
 No. 14848.—F. J. Maindonald, vaporising and condensing water.  
 No. 14856.—A. H. Brownley, securing buttons to garments. (A. H. Brownley and T. B. Jacobsen.)  
 No. 14857.—C. W. Haines, spark-extinguisher.  
 No. 14858.—J. E. Waygood, gate or door hinge.  
 No. 14868.—The Smethurst Furnace and Ore-treatment Syndicate, Limited, treating substances with nascent carbon-dioxide. (W. Smethurst.)

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

- No. 11560.—The Aerated Cream and Dairy Company, Limited, preservation of milk. (W. E. Hughes—T. K. Freeman—T. Eves.)  
 No. 11564.—A. H. Bowell, glazed-earthenware house-block.  
 No. 11598.—M. G. Heeles, gold-saving blanketing.

THROUGH EXPIRY OF TERM.

- No. 5688.—The Valveless Gas-engine Syndicate, Limited, gas-engine. (J. Day.)

*Design registered.*

DESIGN has been registered in the following name on the date mentioned:—

- No. 291.—Max Leser, of Auckland, in the Colony of New Zealand, Clerk. Class 6. 26th May, 1906.

*Subsequent Proprietor of Design registered.*

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

- NO. 286.—Frederick John Cooper, of Victoria Street, Auckland, in the Colony of New Zealand, Chemist. [Harding and Billing.] 3rd August, 1906.

## Applications for Registration of Trade Marks.

Patent Office, Wellington, 8th August, 1906.

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: 5951.

Date: 9th May, 1906.

The words

TRADE MARK.



NAME.

RICHARD HOWARD WALL, proprietor of the firm of "Howard Wall and Co.," of Hackney Road Works, Hackney Road, N.E., in the County of London, England, Manufacturers.

No. of class: 13.

Description of goods: Metal goods not included in other classes.

No. of application: 5952.

Date: 9th May, 1906.

TRADE MARK.

(The mark as shown in preceding notice, No. 5951.)

NAME.

RICHARD HOWARD WALL, proprietor of the firm of "Howard Wall and Co.," of Hackney Road Works, Hackney Road, N.E., in the County of London, England, Manufacturers.

No. of class: 38.

Description of goods: Articles of clothing.

No. of application: 6060.

Date: 16th July, 1906.

TRADE MARK.

(The mark as shown in preceding notice, No. 6059.)

NAME.

THE HEDWORTH BARIUM COMPANY, LIMITED, of 1 St. Nicholas Buildings, Newcastle-upon-Tyne, England, Chemical-manufacturers.

No. of class: 2.

Description of goods: Binoxide of barium, oxide of barium, chloride of barium, nitrate of baryta, hydrate of baryta, peroxide of hydrogen, sulphide of barium, and sulphate of copper; all the said goods being chemical substances specially prepared for sanitary purposes.

No. of application: 6059.

Date: 16th July, 1906.

TRADE MARK.



NAME.

THE HEDWORTH BARIUM COMPANY, LIMITED, of 1 St. Nicholas Buildings, Newcastle-upon-Tyne, England, Chemical-manufacturers.

No. of class: 1.

Description of goods: Binoxide of barium, oxide of barium, chloride of barium, nitrate of baryta, hydrate of baryta, peroxide of hydrogen, sulphide of barium, and sulphate of copper; all the said goods being chemical substances used in manufactures, photography, or philosophical research, and anti-corrosives.

No. of application: 6061.

Date: 16th July, 1906.

TRADE MARK.

(The mark as shown in preceding notice, No. 6059.)

NAME.

THE HEDWORTH BARIUM COMPANY, LIMITED, of 1 St. Nicholas Buildings, Newcastle-upon-Tyne, England, Chemical-manufacturers.

No. of class: 3.

Description of goods: Binoxide of barium, oxide of barium, chloride of barium, nitrate of baryta, hydrate of baryta, peroxide of hydrogen, sulphide of barium, and sulphate of copper; all the said goods being chemical substances specially prepared for use in medicine and pharmacy.

No. of application : 6065.  
Date : 18th July, 1906.

The word  
**“ STELEONITE.”**

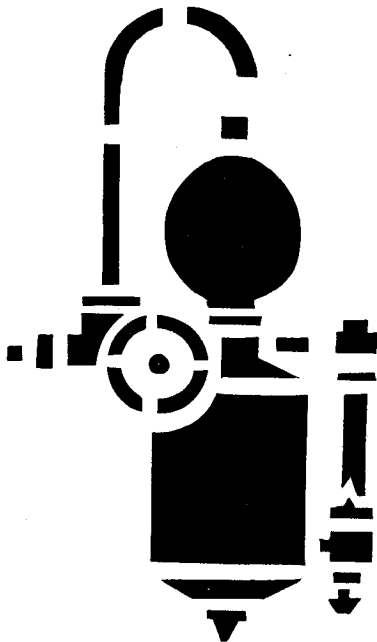
TRADE MARK.

NAME.  
THE BRITISH STAMPED AND METAL CEILING COMPANY,  
LIMITED, of 97 Queen Victoria Street, London, E.C.,  
England.

No. of class : 18.  
Description of goods : Stamped-steel ceilings and acces-  
sories.

No. of application : 6072.  
Date : 20th July, 1906.

TRADE MARK.



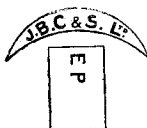
NAME.

GALENA-SIGNAL OIL COMPANY, of Franklin, Pennsylvani,  
United States of America.

No. of class : 47.  
Description of goods : Lubricating, heating, illuminating,  
and all other oils and goods in this class.

No. of application : 6077.  
Date : 23rd July, 1906.

TRADE MARK.



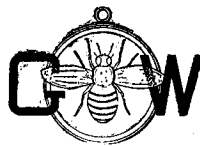
NAME.

JOHN A. McINTOSH, of Farish Street, Wellington, in the  
Colony of New Zealand, Indent Agent.

No. of class : 14.  
Description of goods : Electro-plated ware, electro-plate  
on nickel silver and Britannia metal.

No. of application : 6080.  
Date : 26th July, 1906.

TRADE MARK.



**“ GOLD MEDAL SERIES.”**

The essential particular of this trade mark is the dis-  
tinctive device ; and any right to the exclusive use of the  
added matter is disclaimed.

NAME.

GEORGE WILLIAM BENNETT, of 143 Hereford Street, Christ-  
church, in the Colony of New Zealand, Indent Agent.

No. of class : 39.  
Description of goods : Reproduced photographic post-  
cards.

No. of application : 6082.  
Date : 26th July, 1906.

TRADE MARK.



NAME.

F. W. COTTERILL, LIMITED, of Atlas Works, Darlaston,  
in the County of Stafford, England, Bolt, Nut, and Rivet  
Manufacturers.

No. of class : 13.  
Description of goods : Metal goods not included in other  
classes—namely, bolts and nuts of every description, set pins  
or screws, screwed studs, screws, rivets, spanners, straining  
eye-bolts or strainers, wing-nuts, washers, carpenters' bench-  
screws, axle cap and other wrenches, lathe-carriers (being  
clamps or holdfasts), rigging or straining screws and pins,  
carvers' screws, bench holdfasts, joiners' cramps (being  
hand tools), screwed coupling-boxes and roof fittings, signal-  
fittings, coach ironwork of every description, drop-stampings  
not included in any other class, builders' ironwork, and  
general smiths' work.

No. of application : 6083.

Date : 26th July, 1906.

TRADE MARK.



The essential particulars of this trade mark are the device and the word "Ivy"; and the applicants disclaim any right to the exclusive use of the added matter except their name and address.

NAME.

SPRAY, BIRD, AND CO., of 12 Maitland Street, Dunedin, in the Colony of New Zealand, Merchants.

No. of class : 50.

Description of goods : Boot-polish.

No. of application : 6084.

Date : 26th July, 1906.

TRADE MARK.



NAME.

FIDDIS, TODD, AND CORRY, LIMITED, of Adelaide Street, Belfast, Ireland, Manufacturers.

No. of class : 27.

Description of goods : Linen piecegoods.

No. of application : 6085.

Date : 26th July, 1906.

TRADE MARK.

The word

FORMAWN.

NAME.

KARL AUGUST LINGNER, of Nossenerstr., 2-4 Dresden, Saxony, Germany, trading as "Odol Chemical Works," 26 Southwark Bridge Road, London, S.E., England, Merchant and Manufacturer.

No. of class : 8.

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

No. of application : 6086.

Date : 26th July, 1906.

TRADE MARK.

The word

IREX.

NAME.

KARL AUGUST LINGNER, of Nossenerstr., 2-4 Dresden, Saxony, Germany, trading as "Odol Chemical Works," 26 Southwark Bridge Road, London, S.E., England, Merchant and Manufacturer.

No. of class : 48.

Description of goods : Perfumery (including toilet articles, preparations for the teeth and hair, and perfumed soap).

No. of application : 6088.

Date : 30th July, 1905.

TRADE MARK.



The essential particulars of this trade mark are the device and the words "Welcome Nugget"; and any right to the exclusive use of the added matter is disclaimed.

NAME.

JAMES RUSSELL, of 212 Tinskori Road, and Northland, Wellington, in the Colony of New Zealand, General Store-keeper.

No. of class : 42.

Description of goods : Butter.

No. of application : 6089.

Date : 30th July, 1906.

TRADE MARK.

The word

"CHAMPION."

NAME.

H. D. EDWARDS AND SON, of 98 Manners Street, Wellington, in the Colony of New Zealand.

No. of class : 38.

Description of goods : Boots, shoes, and slippers.

No. of application : 6090.  
Date : 30th July, 1906.

TRADE MARK.

The word

**WINCHURCH.**

NAME.

ALFRED TYREE AND Co., LIMITED, of Christchurch, in the Colony of New Zealand, Merchants and Importers.

No. of class : 22.  
Description of goods : Bicycles.

No. of application : 6093.  
Date : 1st August, 1906.

TRADE MARK.



NAME.

WILLIAM FRANK NEWSON, of 30 Cuba Street, Wellington, in the Colony of New Zealand, Tailor and Outfitter.

No. of class : 38.  
Description of goods : Articles of clothing—such as bespoke tailored garments, hats of all kinds, caps and bonnets, hosiery, gloves, boots and shoes, other ready-made clothing.

No. of application : 6101.  
Date : 2nd August, 1906.

TRADE MARK.



The essential particulars of this trade mark are the words "Sweet Buds" in combination with a bunch of rose-buds; and any right to the exclusive use of the word "Cigarettes" is disclaimed.

NAME.

WILLIAM FREDERICK JAMIESON, of 56 Queen Street, Auckland, in the Colony of New Zealand, Tobacconist and Cigarette-manufacturer.

No. of class : 45.  
Description of goods : Cigarettes.

No. of application : 6102.  
Date : 2nd August, 1906.

TRADE MARK.



**FRIEDENREICH**

NAME.

LOUIS FRIEDENREICH, of Thornleigh, in the State of New South Wales, in the Commonwealth of Australia, Baker.

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

No. of application : 6103.  
Date : 3rd August, 1906.

TRADE MARK.

The words

**" GOLD SEAL."**

NAME.

ALFRED TYREE AND Co., LIMITED, of Christchurch, in the Colony of New Zealand, Merchants.

No. of class : 38.  
Description of goods : Gum-boots.

F. WALDEGRAVE,  
Registrar.

*Trade Marks registered.*

LIST of Trade Marks registered from the 25th July to the 8th August, 1906, inclusive:—  
No. 4659; 5894.—J. Carr and Sons; Class 25. (*Gazette* No. 42, of the 31st May, 1906.)  
No. 4660; 5895.—J. Carr and Sons; Class 25. (*Gazette* No. 42, of the 31st May, 1906.)  
No. 4661; 5896.—Goldingham and Beckett; Class 42. (*Gazette* No. 42, of the 31st May, 1906.)  
No. 4662; 5944.—C. Dickinson; Class 50. (*Gazette* No. 42, of the 31st May, 1906.)  
No. 4663; 5965.—International Harvester Company of America; Class 7. (*Gazette* No. 42, of the 31st May, 1906.)  
No. 4664; 5966.—International Harvester Company of America; Class 7. (*Gazette* No. 42, of the 31st May, 1906.)

No. 4665; 5976.—Barrett's Food Company Proprietary, Limited; Class 42. (*Gazette* No. 42, of the 31st May, 1906.)  
 No. 4666; 5971.—Sargood, Son, and Ewen; Class 30. (*Gazette* No. 42, of the 31st May, 1906.)  
 No. 4667; 5978.—R. Martin; Class 1. (*Gazette* No. 42, of the 31st May, 1906.)

No. 460/375.—3rd May, 1892.—Lister Henry, trading as Lister Henry and Co., of Sydney, N.S.W. Class 50.  
 No. 463/347.—6th May, 1892.—Thomson, Bridger, and Co., of Dunedin, N.Z. Class 7.  
 No. 467/555.—7th May, 1892.—E. J. Thomas, of Auckland, N.Z. Class 42.

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*Trade Mark Renewal Fees paid.*

**F**EEES paid for the renewal of the undermentioned trade marks for fourteen years from the date first noted:—

No. 560/478.—7th September, 1906.—S. King and P. Engel, trading as Lange and Thoneman, Melbourne, Vic. 3rd August, 1906.

No. 567/481.—15th September, 1906.—S. King and P. Engel, trading as Lange and Thoneman, Melbourne, Vic. 3rd August, 1906.

No. 573/444.—19th September, 1906.—T. Kincaid, of Christchurch, N.Z. 26th July, 1906.

No. 588/460.—12th October, 1906.—Murray, Roberts, and Co., of Napier, N.Z. 2nd August, 1906.

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*Trade Marks removed from the Register.*

**T**RADe Marks removed from the Register owing to the non-payment of the renewal fees, from the 25th July to the 8th August, 1906, inclusive:—

No. 457/352.—25th April, 1892.—D. H. Brown and Son, of Christchurch, N.Z. Class 42.

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*Advertisements.*

**A**DVERTISEMENTS 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.

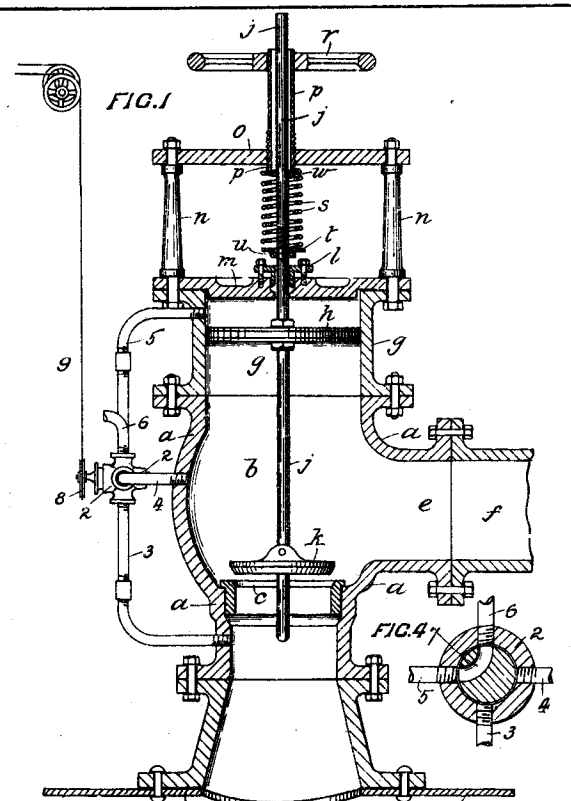
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By Authority: JOHN MACKAY, Government Printer, Wellington.

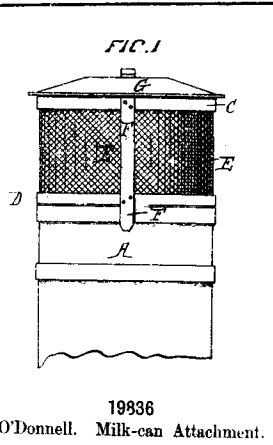


# ILLUSTRATIONS OF INVENTIONS.

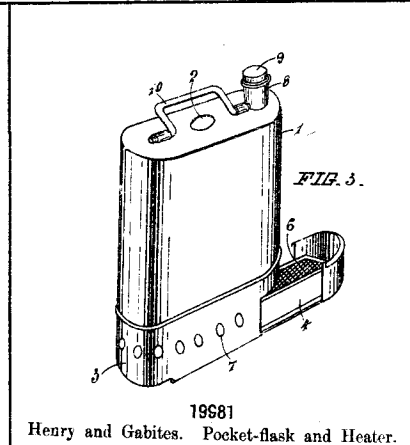
[These illustrations refer to the complete specifications accepted, and advertised in this *Gazette*.]



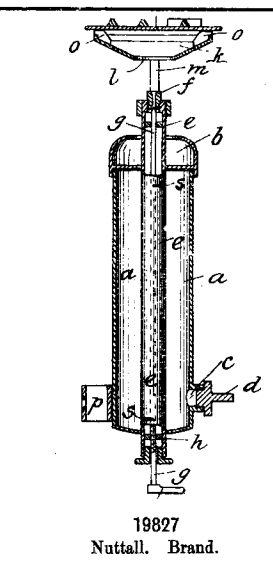
19819  
Farmer. Steam-valve.



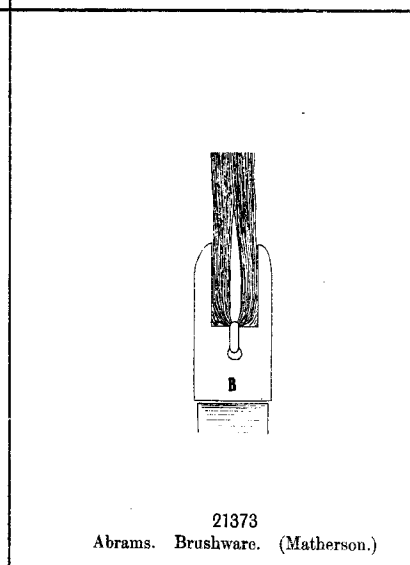
19836  
O'Donnell. Milk-can Attachment.



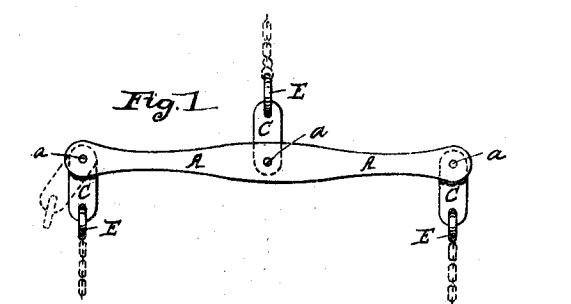
19681  
Henry and Gabites. Pocket-flask and Heater.



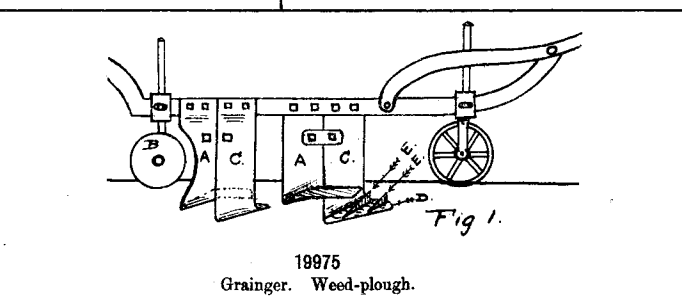
19827  
Nuttall. Brand.



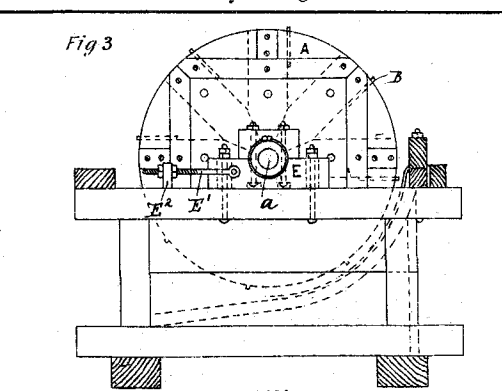
21373  
Abrams. Brushware. (Matherson.)



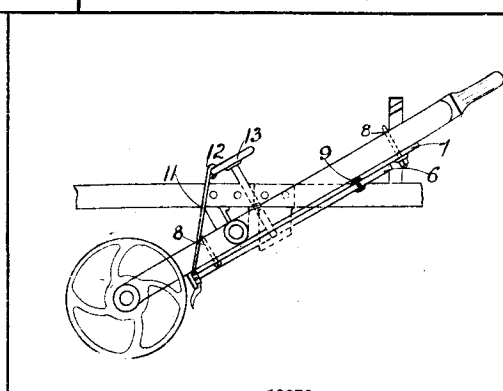
19837  
Healy. Swingletree.



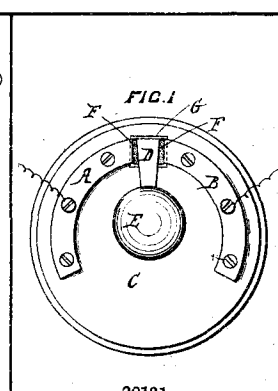
19975  
Grainger. Weed-plough.



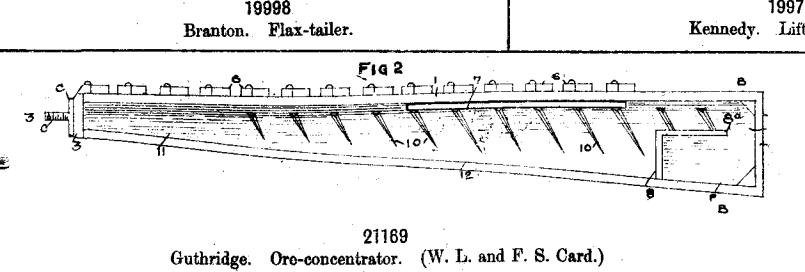
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Branton. Flax-tailer.



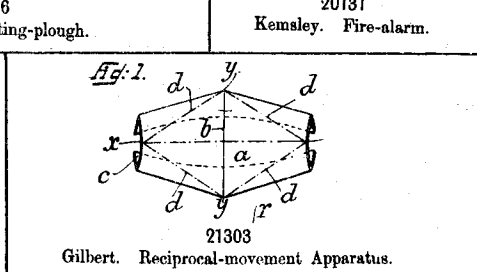
19976  
Kennedy. Lifting-plough.



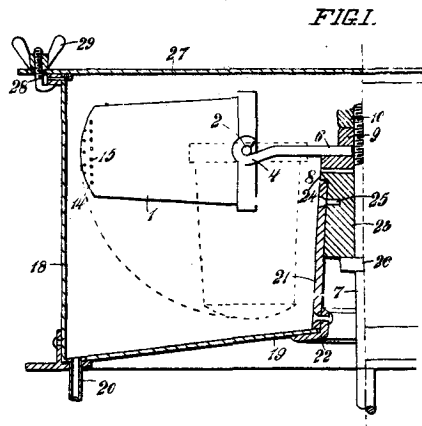
20181  
Kemsley. Fire-alarm.



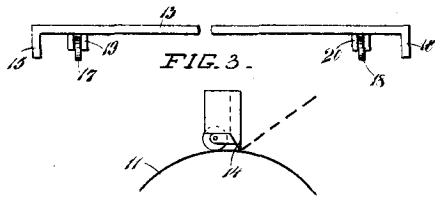
21169  
Guthridge. Oro-concentrator. (W. L. and F. S. Card.)



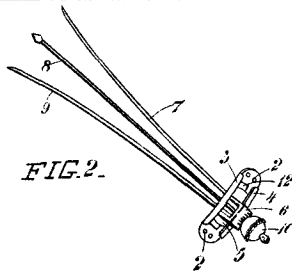
21303  
Gilbert. Reciprocal-movement Apparatus.



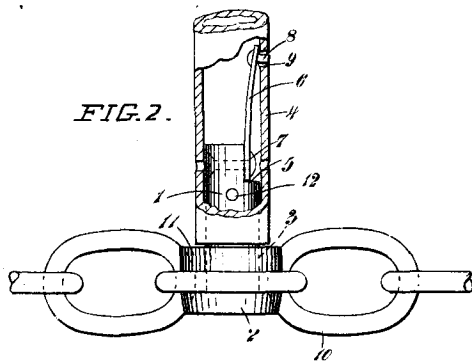
19881  
Airey. Mercury-separator.



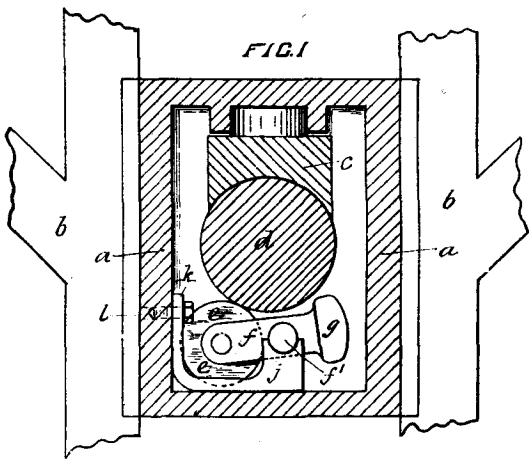
20083  
Irwin. Paper-holder and -cutter.



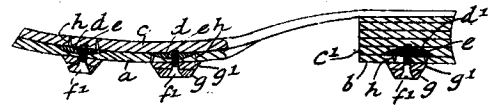
20151  
Fenton. Hat-fastener.



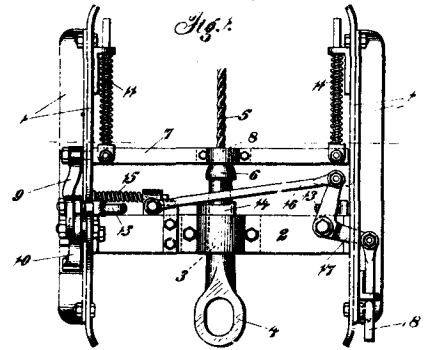
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Watson. Trace-spreader.



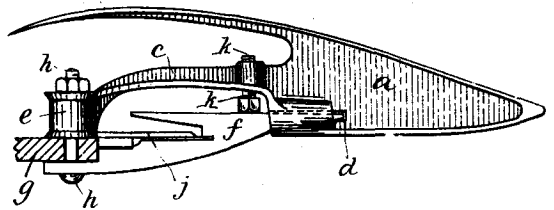
20569  
Cowdery. Lubricator.



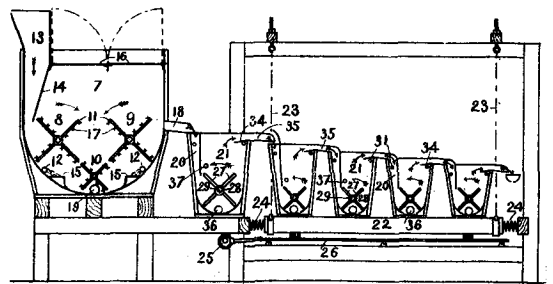
20631  
Jenkins. Boot-sole Attachment.



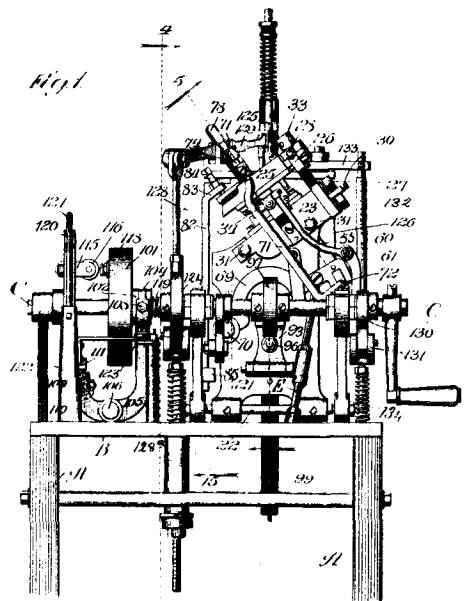
21150  
Jeffrey. Bucket-hauler. (Pickles.)



21165  
International Harvester Co. of America. Finger for Mower and Reaper. (Bywater.)



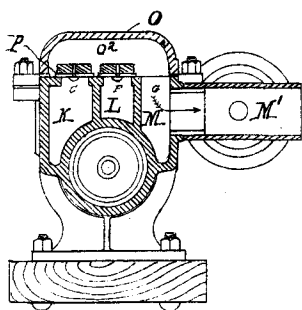
21294  
Plucknett. Concentrator and Amalgamator. (Plucknett & Davies.)



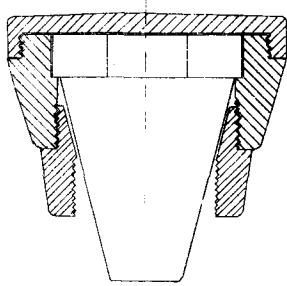
21355  
Nuernberger and Rettig jun. Type-casting Machine.



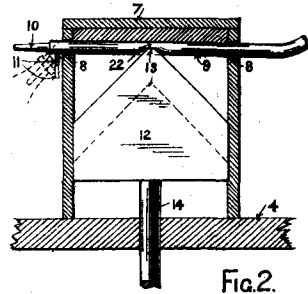
21383  
Kelly and Bentham. Photographic-plates, &c.



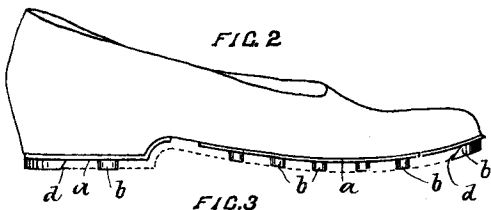
21309 Hopkirk. Pump.



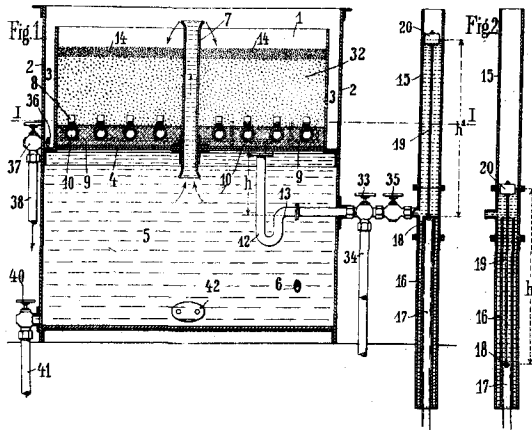
21325 Bowles. Pipe and Tube Reamer.



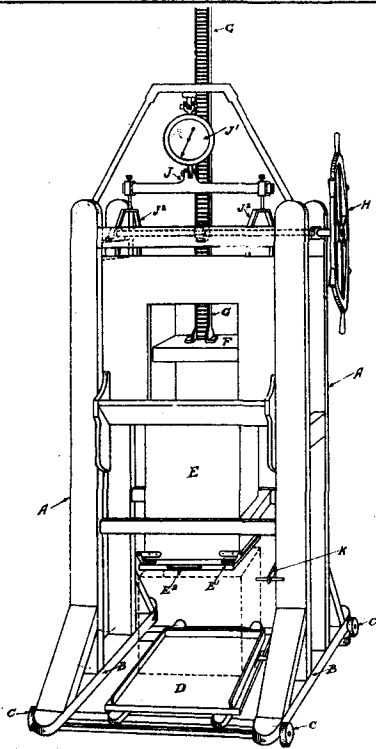
21366 Clarke. Bottle-filler. Fig.2.



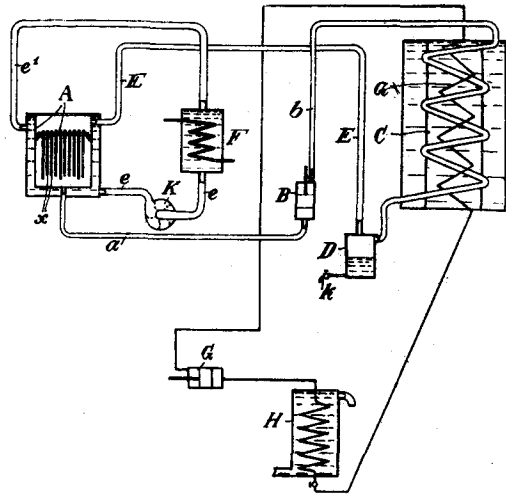
21302 D. and F. W. Smith. Rubber Boot-wear.



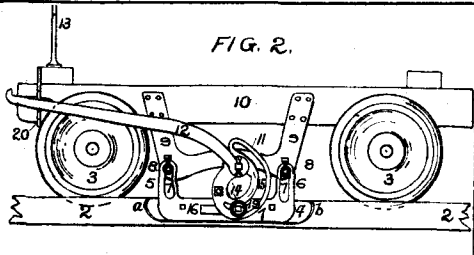
21359 Gieseler. Gravity-filter.



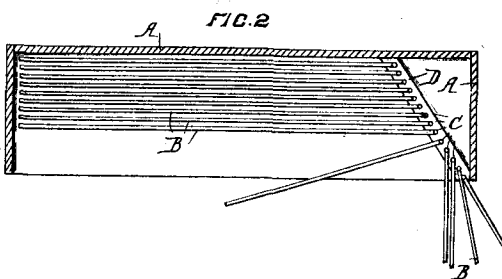
21321 Womersley. Butter-weigher and -packer.



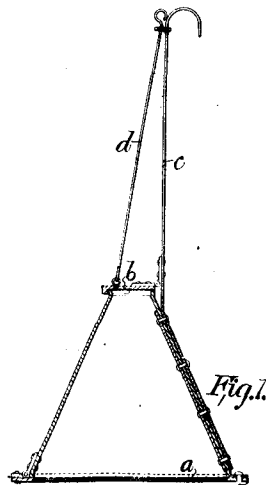
21332 Nikolsky. Recovering-solvent used in making Explosives.



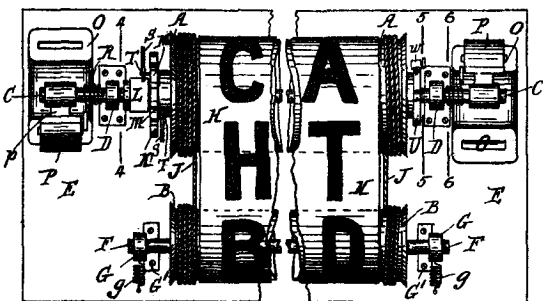
21324 Nicholson. Tramway-brake.



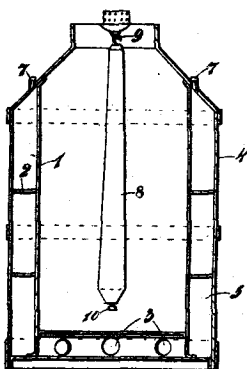
21407 Martin. Show-case.



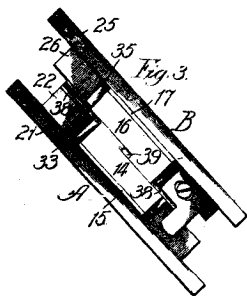
21354 Coale. Cork-manufacture. Fig.1.



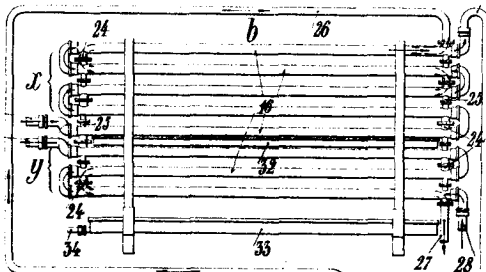
20742  
Border and Coventry. Indicator.



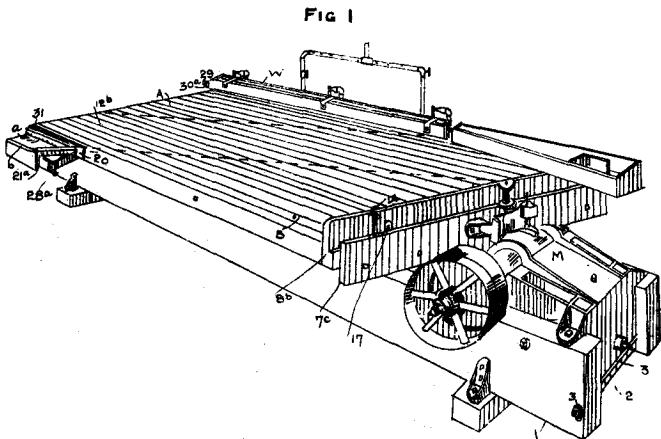
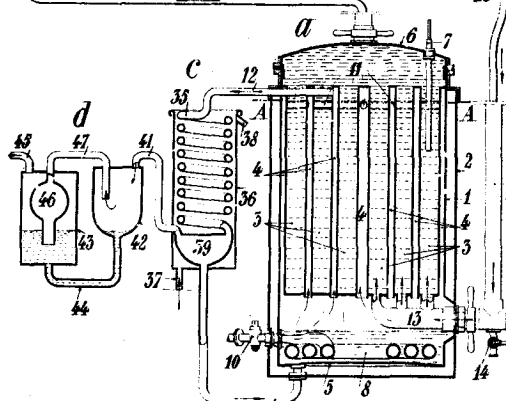
21091  
Barker. Milk-can.



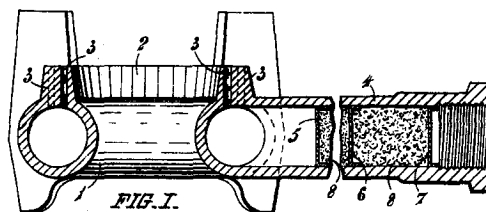
21356  
Nuernberger and Rettig jun.  
Type-casting Mould.



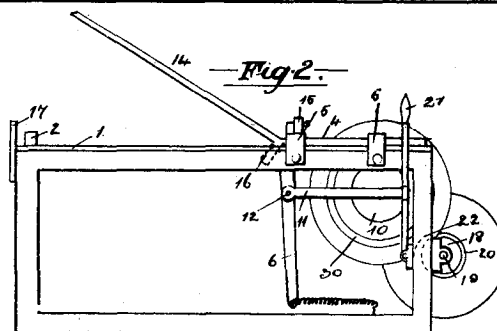
21235  
Mazé. Milk-pasteuriser.



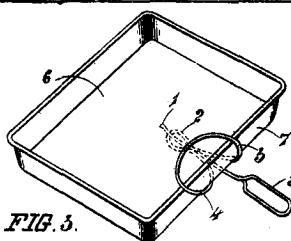
21167  
Guthridge. Ore-concentrator. (W. L. and F. S. Card.)



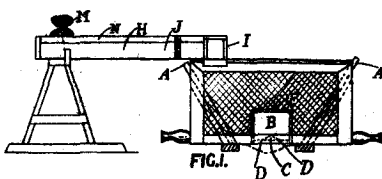
21245  
The N.Z. Twentieth-century Gas Co., Ltd. Gas-burner. (Way.)



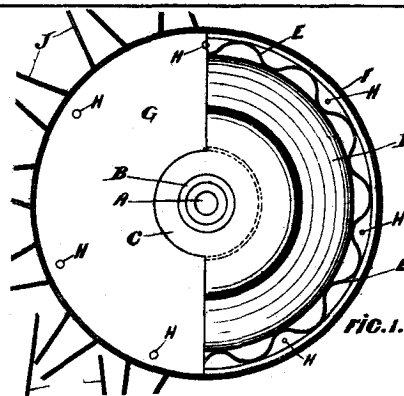
21298  
Jamieson. Clamp.



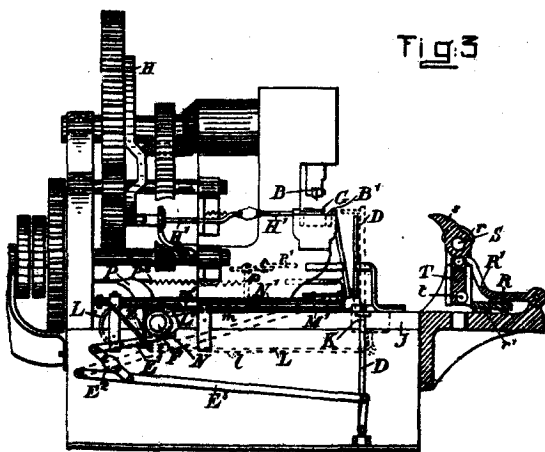
21279  
Coleridge. Handle.



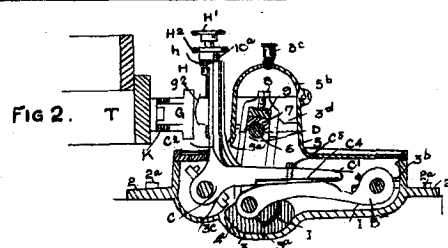
19999  
Grainger. Bird-trap.



21370  
Jamieson. Wheel.



21391  
E. B., N. H., and M. K. Mackenzie. Horse-shoe Machine.



21168  
Guthridge. Ore-concentrator. (W. L. and F. S. Card.)