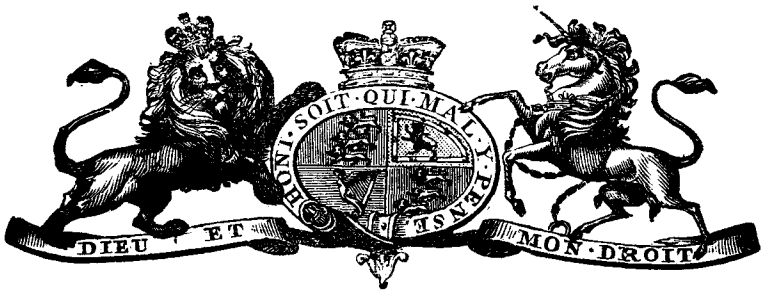

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, JANUARY 10, 1907.

Published by Authority.

WELLINGTON, THURSDAY, JANUARY 10, 1907.

CONTENTS.

Patents Supplement to Gazette.

PERSONS interested in Patents, Designs, and Trade Marks will find valuable information about such matters in the Patents Supplement to the *Gazette*, issued fortnightly. Each number contains a list of applications for patents during the current fortnight, claims and drawings of complete specifications that have been accepted, lists of trade marks and designs registered, latest official information, &c.

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Patent Publications in New Zealand.

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

WELLINGTON.—PATENT OFFICE LIBRARY.

United Kingdom.

The full text of the specifications and complete drawings of inventions patented from the year 1617 up to the 27th September, 1906.

Classified illustrated abridgments of inventions from 1855 to 1904.

Illustrated Official Journal, containing lists of recent applications, abridgments of inventions for which patents have been lately granted, patents void, &c., to October, 1906.

Index of Applicants.

Subject-matter Index.

Commissioner of Patents Journal, &c.[a].

Trade Marks Journal to August, 1906.

Canada.

Patent Office Record (containing illustrated abridgments of inventions, &c.) to 31st May, 1906.

Australia.

The full text of the specifications and complete drawings in respect of applications accepted from the 11th to the 30th January, 1906, inclusive.

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

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

Specifications, drawings, abridgments, and indexes of Victoria, New South Wales, Queensland, and South Australia[b].

United States.

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

Mexico.

The Official Gazette of the Patent and Trade Mark Office.

General.

La Propriété Industrielle (the official organ of the International Bureau of the Union for the Protection of Industrial Property).
Patent laws of the world.
Patent and Trade Mark Review.
Text-books and handbooks on patents and trade marks.

AUCKLAND.—PUBLIC LIBRARY.

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Classified abridgments of inventions from 1855 to 1904.
Illustrated Official Journal from 1897 to date.

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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.

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

Australia.

The Official Journal of Patents from 1905 to date.

DUNEDIN.—TOWN HALL.

United Kingdom.

Classified abridgments of inventions from 1855 to 1904.
Illustrated Official Journal from October, 1905, to date.

Australia.

The Official Journal of Patents from 1905 to date.

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

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

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

PATENTS.

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

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

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1. Register of Designs, with Index of Names of Proprietors.
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5. Index of Trade Marks.
6. Classified Representations of Trade Marks, with indexes.

MISCELLANEOUS.

Register of Patent Agents.

FORMS AND PUBLICATIONS.

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

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

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

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

Printed specifications to the end of the year 1879.

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

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

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

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Auckland	Supreme Court Offices.
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Dunedin	
Thames	District Court Offices.
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Greymouth	
Timaru	
Oamaru	
Ashburton	
New Plymouth	
Westport	
Hokitika	
Invercargill	
Lawrence	

PATENT AGENTS.

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

Application 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. 22181.—11th December.—A. Parker, Dannevirke, N.Z.
Ticket-issuing machine.

No. 22182.—12th December.—C. Cooper, Mangatoki, N.Z.
Scales.*

No. 22183.—12th December.—C. Harper, Guildford, W.A.
Disposal of effluent from septic tanks.*

No. 22184.—12th December.—J. Attwill, Perth, W.A.
Railway-ticket dater.

No. 22185.—12th December.—L. Decker, Sturgis, U.S.A.
Whiffle-tree attachments.*

No. 22186.—12th December.—E. B. Baker, Melbourne, Vic.
Treating substances under pressure.*

No. 22187.—12th December.—W. C. V. Harwood and S. Reed, London, Eng.
Supplying disinfectant to flushing-cistern.*

No. 22188.—12th December.—J. Layfield and A. V. Crisp, Vancouver, B.C.
Cement building-blocks.*

No. 22189.—12th December.—H. Braby, Sydney, N.S.W.
Liquid-fuel burner.

No. 22190.—12th December.—A. E. Moir, Melbourne, Vic.
Milk-can.

No. 22191.—12th December.—W. E. Hughes, Wellington, N.Z.
Bicycle-support. (*G. S. Meredith.*)

No. 22192.—11th December.—H. E. Billson, Christchurch, N.Z.
Tapered plug for soles of boots and shoes.

No. 22193.—13th December.—S. A. Bradley, Merrigum, Vic.
Fruit-carrying case.

No. 22194.—13th December.—S. A. Bradley, Merrigum, Vic.
Punnet.

No. 22195.—13th December.—T. Sutherland, Wellington, N.Z.
Cooking-vessel.

No. 22196.—13th December.—M. Fry, Port Awanui, N.Z.
Sheep-race.*

No. 22197.—10th December.—G. Gilchrist, Invercargill, and J. A. Milne, Alexandra South, N.Z.
Water-motor.

No. 22198.—10th December.—R. J. Turnbull, Dunedin, N.Z.
Rotary shaking-table.*

No. 22199.—14th December.—T. J. P. Cobb, Masterton, N.Z.
Folding crate.

No. 22200.—14th December.—C. S. Bayley and W. H. Markle, Auckland, N.Z.
Ticket-holder.

No. 22201.—14th December.—G. Stevenson, Christchurch, N.Z.
Bottle.

No. 22202.—11th December.—R. Hopkins, Dunedin, N.Z.
Vehicle-tire.

No. 22203.—11th December.—C. M. Trebilcock, Malvern, Vic.
Milk-bucket cover and strainer.

No. 22204.—11th December.—J. Eddey, Dunedin, N.Z.
Wire cheese-cutter.*

No. 22205.—12th December.—J. Graham, Auckland, N.Z.
Street-watering method.

No. 22206.—12th December.—W. B. Eyre, Auckland, N.Z.
Rendering and keeping accounts.

No. 22207.—15th December.—A. McLean, Brae Side, N.Z.
Wheel.*

No. 22208.—12th December.—F. F. Twemlow, sen., Invercargill, N.Z.
Skimmer for ploughs.

No. 22209.—13th December.—W. Robinson, Riverton, N.Z.
Trolley-brake.

No. 22210.—13th December.—T. Smith, Dunedin, N.Z.
Dinner-plate.*

No. 22211.—13th December.—W. Wilson and T. P. Burke, Dunedin, N.Z.
Egg-carrier.

No. 22212.—14th December.—T. R. Christie, Dunedin, N.Z.
Skylight.*

No. 22213.—14th December.—A. H. Imbert, Grand-Montrouge, France.
Treating zinc and lead sulphide ores.*

No. 22214.—15th December.—E. A. Holman, Opotiki, N.Z.
Cart-jack.

No. 22215.—18th December.—L. Anderson, New York, U.S.A.
Hydrocarbon-engine.*

No. 22216.—19th December.—A. C. Raine, Melbourne, Vic.
Germ-excluder.

No. 22217.—19th December.—A. Morgan, Palmerston North, N.Z.
Operating electric bells.

No. 22218.—19th December.—W. J. Prouse, Wellington, N.Z.
Rusticated boarding.*

No. 22219.—20th December.—A. C. Webber, Marrickville, N.S.W.
Tool for removing and replacing tires.*

No. 22220.—20th December.—F. E. Penfold, Sydney, N.S.W.
Hand-sweeper for street-cleaning.*

No. 22221.—20th December.—J. T. Keane, Bendigo, Vic.
Displaying mathematical tables.

No. 22222.—20th December.—United Shoe Machinery Company, Paterson, U.S.A.
Machine for inserting fastenings. (*A. Bates and H. P. Gamble.*)

No. 22223.—20th December.—H. S. Marks, Leongatha, Vic.
Door or gate holder.

No. 22224.—20th December.—A. J. Webster, Pirron, Yallock, Vic.
Milking-bail.

No. 22225.—20th December.—R. S. Badger, Christchurch, N.Z.
System of advertising.

No. 22226.—20th December.—H. E. Parry, Guildford, W.A.
Compound counting-machine.*

No. 22227.—20th December.—D. Houston, St. George, Queensland.
Acetylene-gas generator.*

No. 22228.—20th December.—J. D. Jackson, Prahran, Vic.
Bath-water heater.

No. 22229.—20th December.—H. J. Best, Fitzroy, Vic.
Boot or shoe sole sewing-machine.

No. 22230.—20th December.—A. A. Carson, Palmerston North, N.Z.
Water-heater.

No. 22231.—18th December.—F. E. McLean, Henley, N.Z.
Fastening for mouthpiece of teat-cup.

No. 22232.—21st December.—A. Jack, Palmerston North, N.Z.
Gas-production from hydrocarbon oils.

No. 22233.—21st December.—F. W. Munt, Wellington, N.Z.
Stamp-affixer.

No. 22234.—21st December.—J. O. Galbally, Wellington, N.Z.
Weather-boarding.

No. 22235.—19th December.—J. S. Plummer, Auckland, N.Z.
Portable cot or stretcher.

No. 22236.—22nd December.—J. K. Hitchens, Petone, N.Z.
Axe-handle attachment.

No. 22237.—22nd December.—T. F. McGarva, Christchurch, N.Z.
Cradle.

No. 22238.—22nd December.—H. C. Kettle, Dunedin, N.Z.
Heating water from waste heat of gas-engines.

No. 22239.—22nd December.—R. R. Woodcock, Napier, N.Z.
Flushing apparatus.

No. 22240.—21st December.—J. B. Davies, Melbourne, Vic.
Spouting-bracket.*

No. 22241.—21st December.—T. J. Heskett, Brunswick, Vic.
Extraction of zinc from its sulphide.

No. 22242.—22nd December.—R. O. Clark, Hobsonville, N.Z.
Surface-glazed earthenware blocks.*

No. 22243.—22nd December.—R. O. Clark, Hobsonville, N.Z.
Yard-sinks.*

No. 22244.—22nd December.—R. O. Clark, Hobsonville, N.Z.
Strengthening earthenware pipes.*

No. 22245.—22nd December.—R. O. Clark, Hobsonville, N.Z.
Grate fastening for drains.*

No. 22246.—27th December.—James Hanslow, Cambridge, Tas.
Wire gripper and strainer.*
No. 22247.—27th December.—J. Mackie and A. G. Huggins, Riverlea, N.Z.
Milk-weighing can.
No. 22248.—27th December.—J. Darnell, Brisbane, Q.
Boot-heel.*
No. 22249.—27th December.—C. Butters, London, Eng.
Slimes-filter.*
No. 22250.—27th December.—J. S. Heithersay, Adelaide, S.A.
Perpetual calendar.*
No. 22251.—27th December.—T. S. Humble, Geelong, Vic.
Combustion chamber of gas-engines.*
No. 22252.—27th December.—J. W. Manley, New Barnet, Eng.
Electric indicator.* (*The Electric Safety Appliances Company, Limited.*)
No. 22253.—27th December.—C. Bristow, Christchurch, N.Z.
Milking-machine.
No. 22254.—28th December.—W. Platt, Highbank, N.Z.
Potato, &c., peeler.*
No. 22255.—28th December.—C. F. Primmer, Christchurch, N.Z.
Centrifugal separator.
No. 22256.—29th December.—G. Drummond, Waipahi, N.Z.
Artificial minnow.*
No. 22257.—29th December.—T. B. Sutton, Rongotea, N.Z.
Cardboard butter-box.*
No. 22258.—29th December.—G. M. Nichol, Hauiti, N.Z.
Axe-heads.
No. 22259.—2nd January.—F. W. Smith, Blenheim, N.Z.
Milk-sampler.
No. 22260.—2nd January.—J. Taucher, Wellington, N.Z.
Clothes-pegs.
No. 22261.—2nd January.—The Malcolm Fraser Wheel Syndicate Limited, London, E.C.
Tire. (*A. R. Hubbard.*)
No. 22262.—2nd January.—J. T. Hunter, Wellington, N.Z.
Magnetic separator.* (*The Edison Ore-milling Syndicate—W. Simpkin and J. B. Ballantine.*)
No. 22263.—2nd January.—J. J. Weaver, Southport, Eng.
Incubator.*
No. 22264.—3rd January.—R. H. Lucas, Melbourne, Vic.
Puncture-seal.* (*W. H. Hunt.*)
No. 22265.—3rd January.—A. LeBlanc, Carlton, Vic.
Fumigating rabbits.
No. 22266.—3rd January.—S. A. M. Rose, Richmond, Vic., and H. B. Crowle, St. Kilda, Vic.
Target.*
No. 22267.—3rd January.—H. Quertier, Dunedin, N.Z.
Rail-cleaner.
No. 22268.—3rd January.—H. S. Griffiths, Wai-iti, N.Z.
Axe-head.
No. 22269.—4th January.—J. F. P. Berendsen, Wellington, N.Z.
Extracting gold from sand and gravel.

Complete Specifications filed after Provisionals.

LIST of complete specifications filed after provisional specifications from the 11th December, 1906, to the 7th January, 1907, inclusive.

No. 20819.—G. Ridgway, atmospheric filter.
No. 20841.—D. Bower, milk-strainer.
No. 20843.—A. E. Woodhouse, electric-conductor conduit.
No. 20849.—H. C. Becker, extracting fat and wool from fleshings.
No. 20850.—H. M. Crimp, egg-beater.
No. 20873.—E. H. Waddington, cinder-sifter.
No. 20874.—D. Hartwell, flax-dressing.
No. 20914.—E. S. Baldwin and H. H. Rayward, winches and hoists. (J. H. and J. M. Holman.)
No. 20933.—A. Thompson, horse-cover fastening.
No. 20936.—H. Quertier, tram-rail cleaner.
No. 20955.—A. L. J. Tait, treating flax.
No. 21003.—A. G. Harvey, bit for horse.
No. 21004.—A. S. Sargison, A. J. Debenham, and C. F. A. Cambridge, music-stand.
No. 21038.—A. W. Burbury, securing strand of fencing-wire.
No. 21273.—C. Bristow, seed-sower.
No. 21615.—A. Adcroft, gas-burner.
No. 21689.—W. Dall, bias adjustment for bowls.

Notice of Acceptance of Complete Specifications.

Patent Office,
Wellington, 10th January, 1907.

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

No. 20026.—13th September, 1905.—HENRY GREYSHOTT CORNWALL, of Ellice Avenue, Wellington, New Zealand, Civil Servant. Improved combined envelope and sheet of paper.*

Claim. — A combined envelope and communication-sheet of the kind referred to, wherein there is a line of perforations along the line of attachment between the communication-sheet and the address-sheet, substantially as described and shown.

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

No. 20034.—14th September, 1905.—THOMAS HENRY PERROTT, of Exchange Hotel, Broken Hill, New South Wales, Australia, Engineer. Improvements in lubricators.*

Extract from Specification.—The object of my invention is to provide a lubricator of simple construction and operation, whereby the oil may be supplied to the bearings automatically with the rotation of the shaft or axle, or any boss or pulley revolving thereon. I accomplish this object by providing the rotating bearings and bosses with an oil-retaining casing and a metallic piston (or pistons) in such a manner that the centrifugal action caused by the rotation and also the combined forces of centrifugal action and gravity will cause the oil to flow from the casing through an oilway to the bearings.

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

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

No. 20122.—2nd October, 1905.—CHARLES EDWARD LARSEN, of Wellington, New Zealand, Plumber and Tinsmith. Spouting-bracket.*

Claims.—(1.) A spouting-bracket formed of a single thickness of metal, and with a facia provided with a downward extension formed by cutting out and bending down a portion thereof, in combination with a clip formed continuously with the front end of the bracket and weakened, so as to be capable of bending, by having a portion or portions cut out therefrom, substantially as specified. (2.) A spouting-bracket such as that described in claim 1, in combination with a tongue, such as F, permanently curved inwards from the clip portion, substantially as specified.

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

No. 20735.—13th February, 1906.—ISAAC STEVENSON and JOHN COOK, both of Port Chalmers, New Zealand, Marine Engineers. Improved stone-shoot for dredges.*

Extract from Specification.—The leading feature of our invention is making the stone-shoot rock so as to rock the stones down the shoot. The dredged material is deposited on the stone-shoot direct from the buckets. The shoot is provided with projections at intervals preferably of triangular shape on top and below. The projections underneath are pivoted to fixed supports at the apex of the triangular projections. Preferably two of the upper projections are pivotally connected each with a forked lever, which is pivotally connected eccentrically to a wheel which is driven by intermediate gear from the usual motive power.

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

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

No. 20743.—15th February, 1906.—ARTHUR STEELE FORD, of Coromandel, New Zealand, Mechanical Engineer. Improved apparatus for forcing liquid from containers.*

Extract from Specification.—The liquid to be ejected or forced from a cask or other receptacle by connecting the top of the cask or other receptacle with the top of a cylinder charged with carbonic-acid gas or other chemical gas. The pressure is produced by admitting water at the bottom of the cylinder and producing the required pressure to force the liquid when required.

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

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

No. 20841.—12th March, 1906.—DAVID BOWER, of No. 6 Walker Street, Dunedin, New Zealand, Tinsmith. Improved milk-strainer.*

Claim.—A milk-strainer comprising a body portion provided with an internal cylinder, over which a sheet of filtering fabric is secured by a collar formed with an external annular bead, and having wires fitted across its upper end, another sheet of filtering fabric being secured over the collar by a lid with perforated sides, substantially as described.

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

No. 20850.—14th March, 1906.—HARVEY MARSHALL CRIMP, of Strzlecki, Victoria, Australia, Headmaster. Improvements in egg-beaters and the like.*

Claims.—(1.) An egg-beater, comprising a rigid handle (to be reciprocated) made of comparatively stout wire or other rigid material distinct from the member next mentioned, in combination with a compressible coil member, having a guide member extending from its lower end into operative sliding relation with said handle, substantially as described. (2.) An egg-beater, comprising a rigid handle (to be reciprocated) a compressible coil member, and an upwardly extending guiding member arranged as in figure 6, substantially as described. (3.) An egg-beater, comprising a rigid handle (to be reciprocated) consisting of (or having affixed to it) a tube, in combination with a compressible coil, and a member entering the tube, as described relatively to figure 1, or figure 3. (4.) An egg-beater having a rigid doubled wire handle (to be reciprocated), and in engagement therewith a sliding member connected to a compressible coil, all as described relatively to figure 7. (5.) An egg-beater of one or more pieces of wire or suitable material adapted to act substantially as in the case of the beater illustrated in figure 6.

(Specification, 4s. 3d.; drawing, 1s.)

No. 20852.—14th March, 1906.—JAMES DELAHANTY, of "Roscrea," Kensington Road, Kensington Park, South Australia, Australia, Insurance Manager. Improvements in rotary engines.*

Extract from Specification.—A rotary engine consisting of an outer casing preferably of slightly elliptical section, within which is rotatably and eccentrically mounted an inner cylinder or drum in such manner that its peripheral surface bears against the outer casing upon one side. The inner cylinder or drum is provided with a sliding piston comprising a heavy plate working shuttle-like in a slot, the said plate having recessed ends provided with adjustable rollers, which engage the outer casing and form a steam-tight connection. On steam or other fluid being introduced into the outer casing it impinges against one of the projecting portions of the sliding plate causing it to rotate and carrying with it the inner cylinder or drum and its shaft. As the cylinder rotates the rollers bearing against the inner surface of the outer casing cause the plate to slide to and fro within the slot, sufficiently to adjust its rollers to the elliptical track provided by the outer casing. A suitable exhaust-port is provided in the outer casing. When adapted for compounding purposes I employ one or more additional outer casings and inner cylinders equipped and operating in a similar manner to the above. These casings and cylinders are preferably arranged and coupled together so as to form a chamber between them for the steam to pass through, when passing from one to the other of the said outer cylinders.

[NOTE.—The above extract from the specification is inserted in place of the claims, and drawings will appear in next *Gazette*.]

(Specification, 8s.; drawing, 1s.)

No. 20853.—14th March, 1906.—ALBERT ERNEST THOMAS, of Forrest Street, Coolgardie, Western Australia, Mining Engineer (assignee of John Arthur, of 6 Boulder Road, Kalgoorlie, Western Australia, Engineer). Improvements in rock-drills.*

Claims.—(1.) In a rock-drill, a twist bar, having its head formed with one or more semi-circular recesses, in each of which a correspondingly shaped pawl is adapted to partially rotate, one end of said pawl being arranged to project into engagement with the teeth of an internally toothed ratchet wheel substantially as described, and as illustrated in the drawings. (2.) In a rock-drill, a twist bar, having its head provided with a hole passing transversely through its centre to receive a helical spring, the ends of which are connected to and operate two semi-circular pawls fitting in correspondingly shaped recesses in said head and free to operate in an internally toothed ratchet wheel substantially as described, and as illustrated in figures 2 and 3 of the drawings. (3.) In a rock-drill, a twist bar, having its head fitted with one, two, or more semi-circular pawls, situated diametrically opposite each other, and having a retaining-pin passing longitudinally through their rear ends, said pawls being grooved or recessed at the rear end to receive a helical spring, the ends of which are bent round the retaining-pin in said pawls, substantially as described, and as illustrated in figures 2 and 3 of the drawings.

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

No. 20929.—30th March, 1906.—GEORGE MOORE, of 44 and 46 Leadenhall Street, London, England, Merchant. Improvements in machinery or apparatus for separating particles of gold or other more or less precious metals or substances from the gangue or material with which they are associated.

Extract from Specification.—The principal feature of novelty in the present invention consists in the combination with an endless travelling belt having side flanges, of a second belt lying within such first belt and between its flanges, which second belt is formed of two layers, an upper layer of burlap and an under layer of wire screens, and is carried in such a manner as to separate if for an interval from the first belt. Other features relate to details of construction in the machine for effecting the working of these belts, and which are hereinafter more fully outlined by the claiming clauses forming part of this specification.

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

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

No. 21007.—18th April, 1906.—WILLIAM GEORGE MEIN, of 168 Upton Lane, Forest Gate, London, England, Engineer, and ERNEST GAMINARA, of 17 Cranmer Road, Forest Gate, London, Builder. Improvements in or relating to castors for furniture, trucks, trolleys, and the like.

Claims.—(1.) A castor constructed substantially as described. (2.) A castor comprising a centre bearing spindle and a fork stamped or made in one piece, and a frame into which the spindle, which is provided with an annular groove for receiving balls, projects, the said castor being characterised in that the frame is provided with a groove into which it is adapted to take a dished washer or ring which initially holds the balls round the spindle while this is inserted in the frame, and which is finally by means of thickness pieces and a press-block pressed flat, and thereby held in the said groove for holding the spindle and frame together without pins, screws, collars, or the like, substantially as described and shown.

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

No. 21008.—18th April, 1906.—INTERNATIONAL TELEGRAPHIC CALL COMPANY, a corporation incorporated, organised, and existing under the laws of the State of West Virginia, United States of America, and having its principal place of business at No. 95 William Street, New York, United States of America (assignees of Edwin Ruthven Gill, of Park Hill, Yonkers, Westchester, New York, United States of America, Electrician.) Improvements in selective signalling apparatus.

Claims.—(1.) A selective mechanism comprising a reversible machine element (such as a ratchet-wheel or sector), impelling means, a retaining device (such as a pawl) for pre-

venting reversal of the machine element, and two separate means for freeing said machine element from the retaining device, one of which means is operated by the machine element alone and the other of which is controlled by movement of the impelling means. (2.) The selective mechanism described in claim 1 hereof, wherein the two freeing means are arranged so that one (which is retarded in action) may be utilised at will to prevent operation of the other freeing means. (3.) A selective mechanism comprising a reversible ratchet-wheel, a retaining pawl therefor mounted so as to move laterally, and automatic means operated by reverse movement of the ratchet-wheel for moving said pawl laterally out of engagement with said wheel. (4.) A selective mechanism comprising a reversible ratchet-wheel, a device for driving the same, a retaining pawl, a hook for the pawl, and a separate retarded means for tripping said hook controlled by the device which drives said wheel. (5.) A selective mechanism comprising a reversible ratchet-wheel, some of the teeth of which are bevelled across a portion of their faces, and a pawl arranged to be moved out of engagement with the wheel by the thrust of said bevelled teeth. (6.) The construction set forth in claim 3 hereof wherein some of the teeth are bevelled across their tops and others across their bases, in combination with means for raising and lowering the pawl so that it engages with the upper or lower parts of the teeth at will. (7.) A selective mechanism of the class described wherein the retarding agent comprises an inertia-wheel which is made to rapidly revolve while rolling slowly in one direction on a track, but can be quickly slid backward on said track without material rotary movement. (8.) A selective mechanism of the class described in which a ratchet-wheel is operated by a pawl-bearing lever connected to a bowed spring so mounted as to be straightened by movement of a magnet armature. (9.) The selective mechanism comprising substantially the combination and arrangement of parts described.

(Specification, 8s. 6d.; drawing, 3s.)

No. 21038.—26th April, 1906.—ALFRED WILLIAM BURBURY, of Woodbury, Tasmania, Australia, Pastoralist. Improved means for securing the strands of a wire fence to the standards or droppers.*

Claims.—(1.) A clip, adapted to be locked upon a dropper or standard, consisting of a piece of sheet-metal bent medially to form a ridge in which a hole is bored horizontally and an incision made about opposite to and obliquely with such hole, as and for the purpose specified. (2.) The combination with clips of the character described in claim 1 of the droppers and standards in a fence, the strands of which are held in the clips which are lockable at any point with the droppers or standards, as specified. (3.) The combination in a wire fence with the droppers and standards, of clips of the character indicated in claim 1, and additional clips, having parallel or right-angled incisions for the top and bottom strands of the fence, and a tapered pin for locking the strands in said additional clips, as described. (4.) The modified form of clip, consisting of a filleted piece of sheet-metal bent at its middle part into a ridge, and adapted to be locked upon a fencing-dropper or standard, substantially as described and as illustrated. (5.) The special tool for putting on or taking off the clips, characterized by two parts pivotally attached, the one part having a slotted claw and the other a pair of horns or short arms, as specified and operating in the manner explained.

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

No. 21175.—21st May, 1906.—EMIL DEISTER, of 1415 Webster Street, Fort Wayne, Allen, Indiana, United States of America, Mechanic. Ore-concentrators.

Extract from Specification.—This invention relates to ore-concentrators of the class which comprise a shaking or reciprocating table having riffles across its face and over which the ore is washed, so that the heavier particles are separated from the lighter, and collected at different points. The invention consists in improvements in this class of concentrator, and the object thereof is to effect the removal of mineral from the concentrating table as rapidly as the same becomes clean, and this is done by providing local washing surfaces adjacent the mineral discharge side of the table, and suitably supplying the same with dressing water; and also by the particular form of the concentrating table.

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

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

No. 21207.—1st June, 1906.—JOHN ALBERT FERGUSON, of 811 Seventeenth Street, Denver, Colorado, United States of America, Manufacturer (assignee of George Patchett White, of Wallace, Shoshone, Idaho, United States of America, Manufacturer). A moulding-machine for building-blocks.

Extract from Specification.—The objects of my invention are to provide a moulding-machine which will apply the pressure to the material in the mould in a degree commensurate with the depth or thickness of the material to be compressed; also to provide a moulding-machine constructed so that the operator can produce the moulded articles with maximum speed and convenience, and one which will enable him to remove the moulded product from the machine in a ready and expeditious manner; also one which can be actuated by any suitable power, either by hand-levers or by any power contrivance adapted for imparting an oscillating movement to the principal crank-shaft controlling the operative means of the machine; and also one in which the toggle mechanism is compounded in such a manner that the machine can be "set" ready to receive the heavy pressure adapted to sufficiently compress the material in the mould without the long oscillating stroke which is usually employed in machines of this character.

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

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

No. 21666.—18th August, 1906.—ARTHUR JOSEPH HALL, of Strathmore, Thornleigh, Sydney, New South Wales, Australia, Orchardist. Improved appliances for feeding brushes with pigment.

Claim.—In combination, a brush, a handle attached to the top of the brush, a reservoir carried by the handle, a regulating spindle supported axially within the reservoir, a tube through the wooden top of the brush, and means for depressing the spindle so that the flow of liquid from the reservoir to the bristles of the brush may be regulated or stopped, as set forth.

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

No. 21769.—26th March, 1906.—JOHN WILLS CLOUD, of 82 York Road, King's Cross, London, England, Engineer. Improvements in automatic compressed-air brake apparatus for railway and other vehicles.

[NOTE.—This is an application under Section 106 of the Act, the date given being the official date of the application in Great Britain.]

Claims.—(1.) In a triple valve for a compressed-air brake, means whereby the rate of flow from the source of supply to the brake-cylinder is automatically governed in accordance with variations in brake-cylinder pressure, substantially as and for the purposes set forth. (2.) For a compressed-air brake a triple valve in which the rate of flow of air to the brake-cylinder from the source of supply is confined between maximum and minimum limits, and a valve operated by variations in the pressure of air in the brake-cylinder is provided for regulating the rate of flow within said limits, substantially as and for the purpose specified. (3.) A triple valve having a passage leading from the brake-cylinder to the exhaust separate from that by which air is supplied to the brake-cylinder for the purpose specified. (4.) Triple valves constructed substantially as described and shown in the drawings.

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

No. 21823.—21st September, 1906.—HERMANN HEINRICH REIMERS, of Auckland, New Zealand, General Agent. An improved steamer for dairying and other purposes.

Claim.—In a steamer, a copper boiler with inlet and outlet pipes and copper tube coiled closely round the outside heating surface having one end inserted and secured at the extreme bottom and the other inserted and secured at a point above half the depth of said boiler, all for the purposes above set forth, substantially as described and as illustrated in the drawings.

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

No. 21887.—4th October, 1906.—ROBERT MILLAR, of Dunedin, New Zealand, Inventor. Improved spraying-machine.

Claims.—(1.) In spraying-machinery, carried on wheeled vehicles and worked by a wheel thereof, in combination, a tank having a strainer, a force-pump driven by said wheel of vehicle, a pressure-cylinder in which the force can be maintained equally to the last by weights acting on a plunger, said cylinder collecting and passing evenly the pumped stream of spraying fluid, with a receptacle for maintaining traction by loading it with weights as the liquid diminishes, all substantially as set forth in the drawing and as explained and described. (2.) In spraying-machinery, in combination a pump driven by one of the wheels of the vehicle it is carried on, with a pressure-cylinder that can have the force kept up to the end of its stroke, guards to prevent destruction of plants by the wheels unnecessarily passing over them, and weights to preserve the traction for pump-driving, all substantially as set forth.

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

No. 21916.—13th October, 1906.—HARRY BOSTOCK AND JOHN ANGELL PECK, both of Aaron's Exchange Hotel, Gresham Street, Sydney, New South Wales, Australia, Boot and Shoe Manufacturers (assignees of Henry James Swain, of Sydenham Road, Sydenham, Sydney, aforesaid, Carpenter). An improved lock-nut.

Claims.—(1.) A lock-nut, consisting of a saucer-shaped washer, having radial ribs upon its convex side and corresponding grooves upon its concave side, in combination with corresponding radial grooves in the underside of the nut, or of the head, such grooves being adapted to receive the radial ribs on the washer, as specified. (2.) A lock-nut, consisting of a nut having radial grooves on its under-side, a saucer-shaped washer having radial ribs upon its convex side, corresponding grooves upon its concave side, and a helical spring washer with a terminal tooth or cog adapted to enter any one of the grooves in the concave side of the saucer-washer, as set forth.

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

No. 21947.—20th October, 1906.—THOMAS HARRY GILLMAN, of Hawera, Taranaki, New Zealand, Architect. Improvements in jointing timber.

Claim.—The jointing of timbers with joint as described, comprising in combination tongues A and D, throats or grooves E and F, space G, rounded corners H, and optional splay or square joint J, as may be desired.

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

No. 22055.—14th November, 1906.—JOHN ISAAC MOSS, of 196 Vere Street, Abbotsford, Melbourne, Victoria, Australia, Agent. Improved self-locking window-fastener.

Claims.—(1.) In an improved self-locking window-fastener, an outer casing or frame such as A having secured therein by means of a pin an eccentrically pivoted dog or catch, with a thumb or finger plate at the rear end thereof, said thumb or finger plate having flanges to rest upon said outer casing to keep the lock in operative position, as described and illustrated, and for the purposes set forth. (2.) In an improved self-locking window-fastener the combination and arrangement of the several parts described and illustrated for the purpose set forth.

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

No. 22108.—26th November, 1906.—JOHN EDWARD FRIEND, of Albion Street, Annandale, New South Wales, Australia, Engineer. Improvements in rotary engines.

Extract from Specification.—The invention relates to the class of rotary engines wherein a piston or pistons connected directly to a main shaft are rotated within an annular chamber by steam-pressure. A motor embodying my improvements comprises a circular casing having one end integrally formed and its opposite end closed by a cover. Inwardly projecting bearings integral with the end of the casing and the cover are provided for a main shaft, which is further supported by bearings supported upon brackets upon the exteriors of the casing and cover. These bearings are adjustable in all directions by set-screws and lock-nuts in order that the shaft may be maintained truly axial with the casing. Corresponding circular walls integral with the end of the casing and with the cover project towards each other within the casing, a space being provided between the ends of said walls which is occupied by a disc fixed to the main shaft. An annular chamber or cavity is thus formed between the walls and the casing. A piston fitting and rotatable within the annular chamber is formed integrally upon the disc, and special means are provided for making the piston steam-tight in the said chamber. Admission of steam to and exhaust of steam from the annular chamber is controlled by a valve working within a cylinder having steam and exhaust ports, the steam-ports leading to a steam-chest upon the top of the casing. This valve is oscillated by means of an eccentric mounted upon the main shaft, and having forked eccentric rod pivoted to a slotted quadrant fixed upon the spindle of the valve. A reversing handle pivoted upon the pin of the fork of the eccentric rod is slidable upon the slotted quadrant, and is provided with a spring catch adapted to engage teeth formed upon each end of the said quadrant. The engine is reversed by moving the reversing handle to one end or the other of the slotted quadrant. A rocking-valve is mounted upon a shaft within the steam-chest referred to, and has a rounded top made steam-tight with the top of the steam-chest by means of a packing-bar. The ends of the rocking-valve are likewise made steam-tight with the steam-chest. When the piston during its rotation has passed the top of the casing the valve is immediately rocked across the chamber so that one of its edges bears upon the top of the wall referred to, steam passing into the annular chamber between it and the piston until it is cut off by the valve referred to. Exhaust steam upon the other side of the rocking-valve escapes through the valve, and passing round the casing issues through an exhaust-pipe at the bottom thereof. The rocking-valve is operated by means of a cam provided with grooves adapted to receive rollers mounted upon the end of a lever pivoted upon a bracket secured to the end of the casing. The upper end of this lever is slotted to receive a roller mounted upon a crank-pin of a crank secured to the shaft of the rocking-valve. The revolution of the cam oscillates the lever as required to rotate the piston in either direction.

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

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

No. 22115.—27th November, 1906.—MICHAEL JOHN HOOPER, 552 Station Street, North Carlton, Melbourne, Victoria, Australia, Carpenter. Improvements in and connected with oil-lamp burners.

Extract from Specification.—According to this invention, which has been designed specially with a view to enable the improvements to be used with lamps at present in use, the burner is furnished with a pivoted extinguisher comprising preferably two members or plates adapted to be actuated by the removal of the lamp chimney and by the placing of the same in position on the gallery over the burner. Each of these members is attached to an arm or lever passing downwardly through apertures in the base of the burner-cone, and they are constructed in such a manner that they may be conveniently connected to and actuated by the chimney holders or clamps of the burner gallery. The extinguisher plates, which are projected outwardly by the placing of the chimney in position spring inwardly immediately the chimney is removed, and enclose the wick-tube, thereby extinguishing the flame. A casing is provided which surrounds the uppor portion of the wick-tube for the purpose of regulating the air-supply to the flame, part of the air ascending the spaces between the casing and the wick-tube, and part between the casing and the inner sides of the burner-cone.

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

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

No. 22128.—29th November, 1906.—HARRY ROBERT LEES, of Daylesford, Victoria, Australia, Teacher of Music. Improvements in potato diggers, cleaners, graders, and baggers, usable also for analogous purposes.

Claims.—(1.) In a machine for harvesting potatoes, the combination of plant-top removal means, a revolvable drum having curved trenching-forks, means to adjust the working height of the removal and trenching devices, a series of fork cleaning and potato-tipping chutes, means to operate the said chutes, a swing rake or fork, means to move the same, a screen set transversely behind the swing rake, and gearing to drive the drum and screen, substantially as described. (2.) In a machine for harvesting potatoes, a swing rake actuated

by means of a bell crank which is moved to normal position by a spring or the like, and is moved therefrom intermittently by pins on a revolvable drum having chutes by which potatoes and earth are tipped to the said rake. (3.) In a machine for harvesting potatoes, a series of curved forks, a series of tipping-chutes, pins on the chutes to clear the forks, pivoted bell-crank frames to support the chutes, projections or lugs on the frames, and striking-plates to be met by the said projections to tip the chutes, substantially as described. (4.) In a potato-harvesting machine, the combination with a transverse revolvable screen open at front and rear of a rotatable external roller or rollers and means to press the same against the screen for the purpose set forth. (5.) In a potato-harvesting machine, the combination with a helical conveyor screen adapted to raise potatoes and earth to one side and allow the same to fall back, of a shoot under one side of the screen to return to the trench material which falls through the screen. (6.) In a potato-harvester, a transverse screen having a helical conveyor, the front part of the periphery of the screen consisting of bars to allow soil through and the rear part of removable meshing adapted to allow through potatoes of predetermined size, and means to revolve the screen.

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

No. 22138.—27th November, 1906.—FRANCIS ARTHUR RICH, of Remuera, Auckland, New Zealand, Engineer. An improved tacheometer.

Claims.—(1.) In the improved tacheometer specified, the telescope fitted with eye and object lenses, and having reflectors fixed within said telescope and the movable tangent scale placed on body of instrument in combination with the tacheometer for the purpose set forth, as described and illustrated. (2.) In the improved tacheometer covered by claim 1, the application thereto of the telescope fitted with eye and object lenses and having reflectors fixed within said telescope as specified for the purpose set forth, as described and illustrated. (3.) In the improved tacheometer covered by claim 1, the movable tangent scale placed on body of instrument fitted to be read from either end or from centre to either end for the purpose set forth, as described and illustrated.

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

No. 22149.—3rd December, 1906.—JOHN HAMMIL DAVIDSON, of Christchurch, New Zealand, Insurance Agent. Marking device for use with tailors, dressmakers, or the like.

Claims.—(1.) The marking device for the purpose indicated, comprising a cylindrical stand, a bracket extending outwards from the stand and adapted to be moved around it, a curved board on the inner end of the bracket, a vertical frame upon the outer end of the bracket and carrying a marker adapted to engage with the outer face of the curved board, substantially as specified. (2.) In marking devices of the nature referred to in the preceding claim, a sliding block mounted on the vertical frame and adjustable thereon, a sleeve or barrel extending horizontally through a slotted aperture in the block and pivoted therein so as to be capable of a swinging movement in a horizontal plane, and a spring-controlled rod passing longitudinally through the barrel, having a chalk-grip at its inner end, substantially as specified. (3.) The marking device for use with tailors, dressmakers, or the like, substantially as described and explained and as illustrated in the drawings.

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

No. 22152.—5th December, 1906.—WILLIAM MARTIN MAYBURY, and WILLIAM HENRY MAYBURY, both of Iona, Victoria, Australia, Farmers. Improvements in grading and screening apparatus for potatoes, onions, apples, and otherwise.

Claims.—(1.) In a grader, the combination of all parts described which are illustrated in figure 1. (2.) In a grader, the combination of all parts described which are illustrated in figure 4. (3.) In a grader having over suitable shoots an inclined adjustable cylindrical or polygonal revolvable screen having slats, the combination therewith of such cleansing material as rope, substantially as described, and the slats and coils being located to allow products of larger size to fall through the lower part of the screen than through the upper, and the screen being open at its lower end to discharge products too large to pass through the screen. (4.) In a revolvable grader-screen, open at both ends, locating in combination with slats or the like, such material as rope, so that its surface shall project internally of the slats and act as set forth.

(Specification, 4s. 3d. ; drawing, 1s.)

No. 22153.—5th December, 1906.—OTTO RIEGELHUTH, of Ballarat East, Victoria, Australia, Jeweller. Improvements in electrical signalling devices.

Extract from Specification.—This invention relates to improvements in means for electrical signalling. It is applicable for fire-alarm services, or others in which any one of a large number of signals is to be transmitted. For example, it is suitable for railway working, and can be used by persons inexperienced in electrical apparatus, as by miners to transmit signals from underground to the surface. In mining, signals have to be sent (from below) to the engine-driver at the surface. Slow methods may answer in shallow workings, but for deep mining a quicker and simpler method is desirable than the use of, for example, a steel rope for "knocking"—and such ropes are expensive—and it is also desirable not only that men underground should be able to communicate with the engine-driver, but that the latter may be able to reply. I use insulated wires, and locate transmitting-boxes where required on, say, different mine-levels. Any particular signal of a predetermined series may be sent from any box, to be read in plain words on dials of the receiving and also the transmitting instruments. The miner, or sender, by pressing a button at a box causes the desired signal to appear in view of the engine-driver or other person receiving, and the latter can signal back to get the message repeated or to ask that the telephonic communication, when provided, be used. The telephones may be made to use the same line wires (as will be well understood) by cutting out the instruments. The means used for the said signals back are the establishing of one or more circuits by means of one or more plugs, which cause one or more shutters to fall at the transmitting-box in the mine, or as the case may be. In calling a fire-station from a street alarm-box, when my invention is employed, the sender will cause an indication to appear at the fire-station, in plain wording, showing the street-location of the alarm-box he has used, or any other predetermined information. He will move a pointer or indicator handle on a dial: that will cause a pointer to move to a corresponding position on the dial of the receiving instrument at the fire-station. My mechanism works on open circuits, no current flowing except during transmission of a signal. This system is more economical than those in which current is constantly flowing. Any number of transmission boxes can be incorporated in my arrangement.

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

(Specification, 4s. 9d. ; drawing, 2s.)

No. 22177.—10th December, 1906.—EDWIN HOWLETT, of Auckland, New Zealand, Upholsterer. Improvements in or relating to easy chairs.

Claims.—(1.) In chairs, an inclined underframe and a seat-frame hinged together at their forward edges, so that the seat-frame will extend back over the underframe, cushion springs interposed between their back edges, and means whereby such back edges may be locked at any desired distance apart, substantially as specified. (2.) In chairs of the class referred to in the preceding claim, a plate with apertures at intervals therein, extending upwards from the back edge of the underframe and passing freely through a slot formed in the back member of the seat-frame, a spring bolt passing transversely through such member and adapted to enter any one of the apertures in the plate or to be freed therefrom, and means for operating the bolt from the front of the chair, substantially as specified. (3.) The improvements in or relating to easy chairs, substantially as specified and explained, as illustrated in the drawings, and for the several purposes set forth.

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

No. 22179.—10th February, 1906.—ROBERT BERESFORD, of 24 Merrial Street, Newcastle-under-Lyme, Stafford, England, Cycle-maker. Improvements for wheel-rims for inflated tires.

[NOTE.—This is an application under section 106 of the Act, the date given being the official date of the application in Great Britain.

Claims.—(1.) In rims for pneumatic-tired wheels, the employment of a split or segmental and detachable tire-retaining ring having upon its inner side a seating for the edge of the tire-cover whilst its outer side is provided with a

lateral extension or is formed so that it will engage with or against a lip or abutment on the rim at a point which is so far removed from the said inner seating as to insure the locking of the ring to the rim solely by inflation stresses and to obviate the use of mechanical fastenings between the ends of the ring or ring-segments, or between the ring and rim. (2.) In a pneumatic-tired wheel having an inflation-locked retaining-ring; the use of a rim or felloe having an annular recess or channel which is adapted to receive the retaining-ring and is provided around its outer edge with the lip or abutment with which the laterally extended outer side of the said ring is adapted to be engaged, substantially as described and set forth. (3.) In rims for pneumatic-tired wheels, the combination with the split or segmental and detachable retaining-ring, of a rim having a hook-sectioned outer edge, into which the lateral outer flange or extension of the said ring is adapted to be engaged and locked by inflation in the manner and for the purposes described. (4.) A wheel-rim in which the annular recess B is bounded on the one side by a shoulder rising to the seating which is adapted to receive one edge of the tire-cover, and on the other side by a lip or abutment such as 8, the top of which lies in the same plane as the said seating, for the purpose described.

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

No. 22185.—12th December, 1906.—LEVI DECKER, of Sturgis, Meade, South Dakota, United States of America, Inventor. Improvements in whiffle-tree attachments.

Extract from Specification.—The invention comprises a pair of oppositely disposed brackets secured to the vehicle-tongue, and arranged longitudinally thereof, the rear bracket carrying the whiffle-tree, to the under-face of which is attached a wheel-segment, similar to the fifth wheel of a vehicle, the front end of the rear bracket being raised to permit a swinging movement of the whiffle-tree upon its pivot-bolt, the front bracket having its free end raised in like manner and extended over the wheel-segment. The tongue is further provided with a sleeve arranged intermediate the brackets, the sleeve carrying a curved guide on which the wheel-segment moves.

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

(Specification, 7s.; drawing, 3s.)

No. 22187.—12th December, 1906.—WILLIAM CHARLES VINEY HARWOOD, Merchant, and SAMUEL REED, Mechanic, both of 25 Victoria Street, Westminster, London, England. An improved apparatus for automatically supplying liquid disinfectant to flushing-cisterns or the like.

Claims.—(1.) Apparatus for automatically introducing small quantities of liquid disinfectant from a reservoir into a flushing-cistern, comprising a duct leading from the reservoir to the cistern, means for closing the said duct, and a float mounted within the said cistern and adapted to operate the said closing means in rising and falling to allow the disinfectant to flow only during a part of the time that the cistern is filling or emptying. (2.) Apparatus of the kind claimed in claim 1, comprising a siphon-pipe leading from the reservoir to the cistern, a tap having a rotatable plug mounted on the end of the longer limb of the siphon, a float mounted upon the operating lever of the said tap within the cistern and adapted to rotate the said plug in rising and falling, and a perforated regulating-cap mounted on the outlet aperture of the said tap. (3.) Apparatus of the kind claimed in claim 1, comprising a siphon-pipe leading from the reservoir to the cistern, a tap having a two-way rotatable plug mounted on the end of the longer limb of the siphon, a float mounted upon the operating lever of the said tap within the cistern and adapted to rotate the said plug in rising and falling, and means for holding said float tilted when in its lowermost position.

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

No. 22207.—15th December, 1906.—ALEXANDER MCLEAN, of Brae Side, Ti Tree Point, Hawke's Bay, New Zealand, Farmer. Improvements in wheels.

Claims.—(1.) In combination, a wheel comprising a rim, a pneumatic tire thereon, a protective ring independent of the tire and contacting therewith throughout its circumference, and flexible strips between the rim and the protective ring. (2.) In combination, a wheel comprising a rim, a pneumatic tire thereon, a protective ring independent of the tire and contacting therewith throughout its circumference, and flexible connecting means between the rim and the protective ring. (3.) In combination, a wheel comprising a rim, a pneumatic tire thereon, a protective ring independent of the tire and contacting therewith throughout its circumference, and flexible strips connecting the edges of the protective ring with the edges of the rim. (4.) In combination, a wheel comprising a rim, a pneumatic tire thereon, and an independent protective ring parti-cylindrical in transverse cross-section and bent to touch the tire at its centre throughout its length but to be free therefrom at the edges. (5.) In combination, a wheel comprising a rim, a pneumatic tire thereon, and an independent protective ring parti-cylindrical in general transverse cross-section but having an incurved central portion adapted to touch the centre of the tire throughout its length. (6.) In combination, a wheel comprising a rim, a pneumatic tire thereon, an independent protective ring parti-cylindrical in general transverse cross-section but having an incurved central portion adapted to touch the centre of the tire throughout its length, and a tread seated in such recessed portion. (7.) In combination, a wheel comprising a rim, a pneumatic tire thereon, an independent protective ring parti-cylindrical in general transverse cross-section but having an incurved central portion adapted to touch the centre of the tire throughout its length, and a rubber tread seated in such recessed portion.

(Specification, 4s. 9d.; drawing, 1s.)

No. 22218.—19th December, 1906.—WILLIAM JOHN PROUSE, of Wellington, New Zealand, Timber-merchant. Improvements in rusticated boarding.

Claim.—In a rusticated board having its lower edge considerably thicker than its upper edge, the combination of a rebate upon the inner face and at the lower edge of the board, and a tongue formed within the said rebate, a groove near the top and upon the outer face of the board, and a tongue above and below the said groove adapted to bear against the face of the said rebate above and below the tongue, substantially as set forth.

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

No. 22219.—20th December, 1906.—ARTHUR COURTIS WEBBER, of Warren Road, Marrickville, Sydney, New South Wales, Australia, Grazier. An improved tool for removing and replacing the outer covers of pneumatic tires.

Claims.—(1.) An improved tool for removing and replacing the outer covers of pneumatic tires, consisting of a pair of members, one being curved and having at its extreme end a groove, while the other member is hooked-shaped and provided with a pair of shoulders for the purposes, and substantially as described and illustrated in the drawings. (2.) A tool for removing and replacing the outer covers of pneumatic tires of the form and combination described and illustrated in the drawings.

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

No. 22220.—20th December, 1906.—FREDERICK EDWIN PENFOLD, of 183 Pitt Street, Sydney, New South Wales, Australia, Printer and Stationer. An improved hand sweeper for use in street-cleaning.

Claims.—(1.) In an improved hand sweeper for use in street-cleaning, a brush rotated by means of connecting gear from one or both of the wheels of the carriage, said brush being adapted to be lifted out of contact with the ground and to rest upon the handle of the carriage of the machine. (2.) In an improved hand sweeper for use in street-cleaning, a detachable dirt-receptacle consisting of a lipped hopper provided with a hinged flap at the lip, and a hood on the top thereof for the purposes set forth, and as illustrated in the drawings. (3.) In an improved hand-sweeper for use in street-cleaning, the combination of a brush rotated by means of connecting gear from one or both of the wheels of the carriage, said brush being adapted to be lifted out of contact with the ground and to rest upon the handle of the carriage of the machine, and a detachable dirt-receptacle, consisting of a lipped hopper provided with a hinged flap at the lip and a hood on the top thereof, said hopper being mounted on a carriage as set forth, and as illustrated in the drawings. (4.) An improved hand sweeper for use in street-

cleaning, consisting of the parts constructed, arranged, and operating substantially as described and illustrated in the drawings.

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

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

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

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

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

J. C. LEWIS,
Deputy Registrar.

Provisional Specifications accepted.

Patent Office,
Wellington, 9th January, 1907.

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

No. 21918.—R. A. Bradbury, hat.
No. 22075.—S. B. Hunter, H. Wilson, and E. J. Rigby, boring through sand, &c.
No. 22076.—C. Suttie and M. H. Wynyard, cleansing flax-fibre, &c.
No. 22078.—C. O. Marklund, water-engine.
No. 22080.—G. H. Saywell, race-starting machine.
No. 22086.—W. J. Teese, milking-apparatus.
No. 22100.—A. Gunn, liquid washing-soap.
No. 22103.—H. Ellis, making bands of straw and binding sheaves.
No. 22107.—G. B. Holmes and A. D. Allen, trolley-head.
No. 22111.—B. Ward, braces attachment.
No. 22114.—W. G. Richardson, preparing flax-waste as cattle-food.
No. 22116.—S. Dickens, mouth organ.
No. 22122.—C. Loomes, testing baled materials from centre of bale.
No. 22123.—A. R. Randall, chamber.
No. 22125.—J. P. Lynn, stamp battery.
No. 22127.—A. Gillies, teat-cup.
No. 22129.—R. J. Oldfield, saw.
No. 22130.—G. C. Palmer, supporting-strap for knee-pad of saddle.
No. 22131.—R. Bowman, tread for pneumatic tire.
No. 22132.—J. Hammond, A. A. Preuss, and T. H. Mutch, concentrating alluvial deposit.
No. 22134.—H. Quertier, clearing tramway-rails, elevating spoil, &c.
No. 22136.—C. Lindsay, drawbar for traction-engine.
No. 22137.—A. Ashcroft and C. Richardson, electrically distilling gum.
No. 22139.—W. F. J. Curnow, hose-coupling.
No. 22140.—W. W. Wilson, estimating specific gravity.
No. 22142.—T. Lester, A. C. Murray, and J. McLoughlin, treatment of asthma, &c.
No. 22145.—J. Brockbank, piano, &c., tuner.
No. 22146.—W. H. Bird, tire-cover.
No. 22147.—A. E. Body, pulling up tramway-rails.
No. 22151.—P. Browne, centrifugal separator, &c.
No. 22154.—R. J. Fry, power gear.
No. 22155.—United Shoe Machinery Company, assembling parts of boots, &c. (O. Ashton.)
No. 22156.—United Shoe Machinery Company, attaching heels to boots, &c. (J. Gouldbourn.)
No. 22162.—A. Storrie, disc furrower.
No. 22163.—J. Macalister, harrow.
No. 22164.—F. B. Clapcott, billiard-board.
No. 22165.—Lamson Store Service Company, Limited, parcel, &c., conveying apparatus. (E. C. Phillips.)
No. 22166.—G. E. Humphries, scaffolding.
No. 22167.—J. H. Brown, cleaning metal surfaces, &c.
No. 22168.—C. H. Gannaway, bowlers' measure.
No. 22170.—H. W. Cleary, pulley for motor-cycles, &c.
No. 22172.—F. J. Darling, concrete-mixer.
No. 22175.—A. Waltho, stopper for bottles, &c.
No. 22181.—A. Parker, machine for issuing tickets.
No. 22184.—J. Attwill, dating-press.
No. 22189.—H. Braby, burner for liquid fuel.
No. 22190.—A. E. Moir, can.
No. 22197.—G. Gilchrist and J. A. Milne, water-motor.
No. 22199.—T. J. P. Cobb, crate.
No. 22201.—G. Stevenson, bottle.
No. 22202.—R. Hopkins, vehicle-tire.
No. 22203.—C. M. Trebilcock, strainer.
No. 22205.—J. Graham, watering streets, &c.
No. 22208.—F. F. Twemlow, sen., plough-skimmer.
No. 22209.—W. Robinson, trolley-brake.
No. 22211.—W. Wilson and T. P. Burke, egg-carrier.
No. 22214.—E. A. Holman, cart-jack.
No. 22222.—United Shoe Machinery Company, inserting fastenings. (A. Bates and H. P. Gamble.)

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

Letters Patent sealed.

LIST of Letters Patent sealed from the 13th December, 1906, to the 9th January, 1907, inclusive:—

No. 19911.—J. Hansen, gum-hook.
No. 19956.—J. Dawson, suspension bridge.
No. 19978.—W. Davidson, brake.
No. 19992.—J. T. Hooke, luncheon-can.
No. 19996.—G. Griffiths, bearings of wheels, &c.
No. 19997.—J. Troup, machinery for printing bags.
No. 20017.—J. F. Shelton, valve.
No. 20020.—E. H. J. Mitchell and B. Fox, plough.
No. 20042.—C. J. Alley, chiming and crozing machine.
No. 20043.—E. J. Parrish, device for sustaining window-sashes.
No. 20044.—C. Craigh, sighting-apparatus.
No. 20047.—F. Blackburn and J. Robertson, non-refillable bottle.
No. 20055.—R. S. Haughton, emptying tins.
No. 20061.—H. Stebbing, post and letter card.
No. 20094.—J. B. Crump, potato or potato-seed planter.
No. 20115.—A. T. W. Allan and W. McCullough, saving gold from ores, &c.
No. 20119.—R. J. Charlton, preventing a horse from kicking.
No. 20121.—E. M. Edkins, reversing-gear.
No. 20126.—R. Perry, fastening sash-cord pulleys to window-frames.
No. 20187.—D. G. Watson, trace-spreader.
No. 20215.—C. E. Hayward, jun., and W. E. Hunter, appliance for leg-ropes, hobbles, &c.
No. 20226.—W. Brady and B. Tunstall, non-wearing axle.
No. 20228.—J. F. McNeill, go-carts.
No. 20260.—D. Robertson, postmarking-machine.
No. 20371.—D. Robertson, postmarking-machine.
No. 20458.—A. B. Robertson and R. W. Bond, cow-bailing appliance.
No. 20490.—J. F. Lutjohann, raising surface of billiard-table.
No. 20545.—P. Wright, extractor of gold, precious stones, &c.
No. 20586.—E. Phillips, treatment of ores. (P. Gredt.)
No. 20915.—T. Walters, non-refillable bottle. (T. Waters and J. B. Henderson.)
No. 21043.—F. G. B., R., and H. Sanders, electric drilling-machine.
No. 21074.—G. Chessell, spring.
No. 21119.—H. Trinder and F. C. Engeler, gold and mineral saving.
No. 21220.—The Australian Coal Briquette Company, Limited, coal briquettes. (G. L. Croudace.)
No. 21264.—H. P. Rasmussen and H. Davies, closet-seat cover.
No. 21184.—C. A. Parsons, dynamo electric machinery.
No. 21302.—D. and F. W. Smith, goloshes, gum-boots, &c.
No. 21309.—J. Hopkirk, force and lift pump.
No. 21417.—A. Schultze, cycle stand or support.
No. 21538.—R. M. Smith, coupling-sockets for drainpipes.
No. 21659.—D. Hayward, currycomb and brush.
No. 21677.—H. Doyle, vacuum cleaning-apparatus.
No. 21722.—F. J. Newberry and A. Walker, chimney.
No. 21724.—W. C. Lawrence, spade.
No. 21734.—E. W. Hart and W. P. Durtnall, propulsion of railway, tramway, or similar vehicles.
No. 21764.—A. Polson, collapsible boxes. (P. Henrich.)
No. 21772.—J. Morris, artificial teeth.

Letters Patent on which Fees have been paid.

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

SECOND-TERM FEES.

NO. 15783.—J. W. Kincaid, mechanical stokers. 9th January, 1907.

No. 15808.—M. Bjornstad and J. Stacey, medicated sweetmeat to cure consumption, &c. 19th December, 1906.

No. 15827.—United Shoe Machinery Company, machine for compressing heels. (S. D. Leland.) 27th December, 1906.

No. 15828.—United Shoe Machinery Company, machine for compressing heels. (C. L. Allen.) 27th December, 1906.

No. 15834.—United Shoe Machinery Company, shoe-sewing machine. (F. L. Alley.) 27th December, 1906.

No. 15836.—H. W. Blaisdell, handling material. 27th December, 1906.

No. 15844.—The Clayton Fire Extinguishing and Ventilating Company, Limited. (T. A. Clayton.) Generating hot or cold gas for fumigation, &c. 2nd January, 1907.

No. 15846.—R. A. Fessenden, signalling by electro-magnetic waves. 15th December, 1906.

No. 15847.—R. A. Fessenden, current-operated receiver. 15th December, 1906.

No. 15856.—J. Nathan and Co., Limited, can-making machine. (F. W. Feaver.) 9th January, 1907.

No. 15938.—United Shoe Machinery Company, waxing threads and cords. (F. L. Alley.) 27th December, 1906.

No. 15940.—Universal Fiber Company, breaking and cleaning fibrous material. (W. A. and A. M. Shely.) 12th December, 1906.

No. 15941.—T. Edwards, rotatable rabbles for furnace. (G. G. Turri.) 27th December, 1906.

No. 15942.—T. Edwards, ore-roasting. (G. G. Turri.) 27th December, 1906.

No. 15963.—W. D. Quigley and J. H. Gay, leather-splitting machine. 28th December, 1906.

No. 16164.—J. L. Williams, flushing latrines. 20th December, 1906.

No. 16231.—H. W. Blaisdell, handling material. 27th December, 1906.

THIRD-TERM FEES.

No. 12259.—F. Gold, nail. 12th December, 1906.

No. 12270.—E. Shaw, cooking and evaporating. 28th December, 1906.

No. 12288.—F. H. Wrigley, lifting-jack. 8th January, 1907.

No. 12309.—New Zealand Loan and Mercantile Agency Company, Limited, seed-feeding device. (C. Bristow.) 27th December, 1906.

No. 12314.—L. C. Nielsen, heating and pasteurising fluids. 19th December, 1906.

No. 12656.—G. Westinghouse, car-coupling. 7th January, 1907.

Subsequent Proprietors of Letters Patent registered.

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

NO. 6019.—Dunlop Rubber Company of Australasia, Limited, of No. 108 Flinders Street, Melbourne, Victoria, Australia. Rubber tire and metal rim. [The Pneumatic Tire and Booth's Cycle Agency, Limited—C. K. Welch—Pneumatic Tire Company, Limited—The Dunlop Pneumatic Tire Company, Limited—The Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

No. 17003.—Oakley Steel Foundry Company, Limited, of 20 Bucklersbury, London, England. Electric rail bond. [W. E. Oakley.] 2nd January, 1907.

No. 17125.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Electric furnace. [Gysinge Aktiebolag — Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 17343.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Reducing iron-ore to iron-sponge. [Gustaf Gröndal—Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 17344.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Magnetic separation of iron-ore. [Gustaf Gröndal—Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 17842.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Furnace for burning cement. [Gustaf Gröndal—Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 18916.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Magnetic ore-separator. [Gustaf Gröndal—Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 19838.—The Gröndal Kjellin Company, Limited, of No. 20 Abchurch Lane, London, England. Electric furnace. [F. A. Kjellin—Metallurgiska Patentaktiebolaget.] 17th December, 1906.

No. 20523.—Linotype and Machinery, Limited, of 188 and 189 Fleet Street, London, England. Linotype machine. [W. E. Hughes—Linotype and Machinery, Limited—F. W. Sutcliffe.] 17th December, 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 13th December, 1906, to the 9th January, 1907, inclusive:—

No. 20734.—H. G. Mills and S. Wootton, sifting and mixing machine.

No. 20736.—C. P. M. Benson, crayfish-trap.

No. 20737.—F. Steele and W. J. Pile, crayfish-trap.

No. 20738.—F. E. Ward, gold-saving appliance.

No. 20739.—J. Christie, utilising scrap sheet metal.

No. 20744.—J. H. Mitchelle and F. M. Melville, curtain-pole bracket.

No. 20746.—J. S. Ryan, flying-machine.

No. 20749.—H. G. Cornwall, message and envelope form.

No. 20756.—J. H. Matthews and J. Mues, loading ships.

No. 20759.—G. Burney, removing foul air.

No. 20760.—H. J. Suckling, cinder-sifter.

No. 20761.—D. W. McKewen, blinker.

No. 20762.—R. Stewart, trace-spreader.

No. 20764.—R. Glendining and G. Beaumont, take-up for looms.

No. 20765.—R. Glendining and G. Beaumont, gearing for picking motion in looms.

No. 20770.—G. Grimmer, spark-arrester.

No. 20774.—C. P. M. Benson and S. Macdonald, crayfish-trap.

No. 20775.—J. E. P. Cannell, brake-grip for cars.

No. 20777.—A. Mortland, paper-stand.

No. 20782.—J. H. Rush, clothes-prop.

No. 20784.—W. T. Weekley, slimes treatment.

No. 20788.—P. W. Hughes, T. S. A. Widdop, and F. Drew, railway-brake.

No. 20789.—W. H. Osborn, handle for cooking-utensil.

No. 20792.—P. and D. Duncan, Limited (J. Keir), loading-crane.

No. 20794.—N. Amrein, stone-breaker.

No. 20796.—A. Hay, wire-strainer.

No. 20797.—J. Shepherd and G. H. Chapman, rotary engine.

No. 20799.—G. B. Cartwright and S. J. G. Douglas, caving-remover.

No. 20801.—R. Walker, milk-strainer.

No. 20802.—D. Gilmour and C. M. Moore-Jones, floor-cleaner.

No. 20805.—J. D. Jackson, tap.

No. 20809.—T. Danks, skylight-bar.

No. 20810.—J. E. Broad, horse-cover fastening.

No. 20812.—W. J. Bradford, toasting-fork.

No. 20814.—G. F. Reynell, stretching wire-woven mattress.

No. 20815.—H. A. E. Kelly, paper-holder.

No. 20818.—S. E. Evans, incandescent burner.

No. 20824.—A. G. Davies, coal-unloader.

No. 20825.—E. E. Collins, hot well.

No. 20827.—M. Squire, house.

No. 20830.—A. Marr, curtain-pole support.

No. 20834.—R. Dunne, shaving-appliance.

Applications for Letters Patent void.

APPLICATIONS for Letters Patent, with which complete specifications have been lodged, void, owing to non-acceptance of such complete specifications, from the 13th December, 1906, to the 9th January, 1907, inclusive:—

No. 20059.—J. McCallum, bale-fastener.

No. 20063.—F. J. Shelton, iron-heater.

No. 20084.—J. Gale, attaching shoe to traction-engine.

No. 20145.—A. R. Morrison, wire mattress.

Applications for Letters Patent lapsed.

LIST of Letters Patent lapsed, owing to Letters Patent not being sealed, from the 13th December, 1906, to the 9th January, 1907, inclusive:—

No. 19652.—J. Dunbar, flax-stripper.
No. 19659.—O. Paora, weight-raiser.
No. 19678.—R. N. R. Lindsay, cattle-dehorner.
No. 19679.—J. W. Compton, wheel-lock.
No. 19689.—R. Weston, pedal-strap.
No. 19692.—C. Cook, cloth-cutter.

Letters Patent void.

LIST of Letters Patent void through non-payment of renewal fees, and through expiry of term of fourteen years, from the 13th December, 1906, to the 9th January, 1907, inclusive:—

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

No. 15395.—J. P. Vibert and G. Cozens, closet.
No. 15406.—C. A. Bergersen, wire-strainer.
No. 15417.—E. S. Baldwin and H. H. Rayward, distributing sewage. (G. E. Ridgway.)
No. 15418.—E. S. Baldwin and H. H. Rayward, self-flushing valve. (G. E. Ridgway.)
No. 15419.—T. Stevenson, removable shaft-bushes.
No. 15420.—The Trades Unionists Sheep Shear Co-operative Society, Limited, sheep-shears. (O. Bors.)
No. 15423.—H. L. Wallace, valves. (J. W. Nethery.)
No. 15424.—G. Mitchell and L. D. Copeland, slag steam-generator.
No. 15425.—C. H. Izard, S. A. Ward, E. Burgess, R. Collins, and F. W. Wake, cow-leg holder. (W. A. Collins.)
No. 15426.—J. Cox, rock-drilling and earth-boring.
No. 15429.—J. Whitehouse, spark-arrester.
No. 15437.—W. J. Evans and J. D. Campbell, dredge-bucket. (W. J. Evans.)
No. 15439.—L. W. Grayson and C. S. Cunningham, rowing-machine.
No. 15442.—Fairbanks, Morse, and Co., gas-generator. (F. G. Hobart.)
No. 15443.—The Shedd Electric and Manufacturing Company, ventilator. (T. R. Weyant.)
No. 15449.—J. Armstrong, securing cords to window-sashes.
No. 15456.—E. S. Burman, canning butter.
No. 15458.—H. B. Gibbons, table game. (W. Dawson.)
No. 15461.—W. A. Thomsen, securing hat to head.
No. 15464.—T. W. North, E. Jennings, W. Reece, and H. Forwood, securing hat to head. (T. W. North.)
No. 15467.—J. Winepress, opening oysters.
No. 15474.—J. Paterson and A. J. Pool, draining-apparatus.
No. 15475.—T. S. Philpott, non-refillable bottle.
No. 15478.—L. Adamson, perambulator.
No. 15479.—G. Westinghouse, linings of vessels. (W. J. Knox.)
No. 15482.—D. W. Healy, "hold-all."
No. 15486.—J. Anderson, printing-roller.
No. 15487.—R. S. Black, animal-trap.
No. 15490.—F. L. Whitney, wool-scouring machinery.
No. 15494.—T. S. C. Lowe, coke-manufacture.

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

No. 12014. — W. Hildesheim, cocoa-manufacture. (A. Denaeyer.)

THROUGH EXPIRY OF TERM.

No. 5968.—J. Copeland, wire-strainer.
No. 5982.—J. C. Teare, mushroom-headed nail. (F. Gold.)
No. 5983.—W. R. S. Jones, buffer for railway-vehicles.

Request for Restoration of Trade Mark to Register.

A REQUEST has been left at this office for the restoration of the following Trade Mark to the Register:—

No. 407/307.—Kerr and Co., Limited, of Paisley, Scotland. (Advertised in *New Zealand Gazette* No. 16, of the 18th February, 1892.)

Applications for Registration of Trade Marks.

Patent Office,
Wellington, 9th January, 1907.

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

No. of application: 6183.
Date: 1st June, 1906.

TRADE MARK.

NAME.

GILLETTE SAFETY RAZOR COMPANY, a corporation organized under the laws of the State of Maine, doing business at First and Colton Streets, Boston, County of Suffolk, State of Massachusetts, United States of America.

No. of class: 12.

Description of goods: Cutlery, particularly razors and razor-blades.

[NOTE.—This application is made in accordance with the "International Arrangements" (section 106), the date given being that of the application in the United States of America.]

No. of application: 6317.
Date: 1st November, 1906.

TRADE MARK.

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

NAME.

SKELTON, FROSTICK, AND CO., LIMITED, of Hereford Street, Christchurch, in the Colony of New Zealand.

No. of class: 38.

Description of goods: Boots, shoes, slippers, and leather goods included in this class.

No. of application: 6351.
Date: 22nd November, 1906.

TRADE MARK.

The essential particular of this trade mark is the combination of devices within a shield; and applicants disclaim any right to the exclusive use of the added matter, except and save the trading name of the company and their address.

NAME.

WHITTOME, STEVENSON, AND CO., LIMITED, of Domain Factory, Auckland, in the Colony of New Zealand, Manufacturers.

No. of class: 42.

Description of goods: Substances used as food or as ingredients in food, such as cereals, flour, oatmeal, cornflour, bread, scones, pastry, cakes, biscuits, malt, pulses, hops, yeast, baking-powder, custard-powder, powdered gelatine, egg-powder, lard, butter, cream tartar, tartaric acid, citric acid, dripping, honey, condensed milk, tea, coffee, cocoa, chocolate, confectionery, fresh fruit, preserved fruit, canned fruit, dried fruit, preserved pineapples, cocoanut, milk, cream, sugar, jam, marmalade, bonbons, olive-oil, salad-oil, oil-cakes, sago, essences, jellies, cheese, dairy produce, pepper, mustard, anchovies, vinegar, cayenne pepper, chutney, curry-powder, ketchup, pickles, sauces, condiments, unfermented and non-alcoholic bitters, chemical food, salt, egg-preservative, eggs, canned vegetables, preserved vegetables, garden produce, beer-clarifier, lime-juice, cordials, non-aerated beverages, non-alcoholic beverages, salmon, fish, preserved fish, salted fish, canned fish, dead rabbits, dead hares, dead game, dead poultry, bacon, ham, preserved meat, extract of meat, canned meat, spiced meat, regged meat, salted meat, and frozen meat.

No. of application: 6354.
Date: 22nd November, 1906.

TRADE MARK.

The word

"PARAGON."

NAME.

GREEN AND COLEBROOK, LIMITED, of Hamilton, in the Colony of New Zealand, General Merchants.

No. of class: 6.
Description of goods: Sewing-machines.

No. of application: 6369.
Date: 5th December, 1906.

TRADE MARK.

The word

KYLETS

NAME.

APPLIED INVENTIONS, LIMITED, of 30 Denman Street, London Bridge, London, England, Manufacturers.

No. of class: 3.
Description of goods: A medicine for human use.

No. of application: 6370.
Date: 5th December, 1906.

TRADE MARK.

NAME.

APPLIED INVENTIONS, LIMITED, of 30 Denman Street, London Bridge, London, England, Manufacturers.

No. of class: 48.
Description of goods: Toilet preparations.

No. of application: 6377.
Date: 12th December, 1906.

TRADE MARK.

NAME.

J. AND J. BALDWIN AND PARTNERS, LIMITED, whose registered office is situate at No. 1 Station Street Buildings, Huddersfield, in the County of York, in England, and who carry on business as Worsted-spinners at Clark Bridge Mills, Halifax, in the said County of York, in England.

No. of class: 33.

Description of goods: Yarns of wool, worsted, or hair.

No. of application: 6378.
Date: 12th December, 1906.

TRADE MARK.

The word

"MOTOSACOCHE."

NAME.

SOCIÉTÉ ANONYME H. AND A. DUFAUX AND CIE, of Route des Acacias, Geneva, in Switzerland, Manufacturers.

No. of class: 22.

Description of goods: Cycles, automobiles, and cars of any kind.

No. of application: 6379.
Date: 12th December, 1906.

TRADE MARK.

The word

"FERRINE."

NAME.

ALEXANDER BAGLEY, of No. 4 George Street, Dunedin, in the Colony of New Zealand, Chemist and Druggist.

No. of class: 3.

Description of goods: Proprietary medicine.

No. of application: 6380.
Date: 13th December, 1906.

TRADE MARK.

The essential particulars of this trade mark are the distinctive label, the figure, and the invented word "Kayaness"; and any right to the exclusive use of the added matter is disclaimed.

NAME.

KIRKCALDIE AND STAINS, LIMITED, of Wellington, in the Colony of New Zealand, Drapers.

No. of class: 47.

Description of goods: Glove-cleaner solution.

No. of application: 6381.
Date: 14th December, 1906.

TRADE MARK.

The essential particulars of this trade mark are the words "Golden Pastures"; and applicants disclaim any right to the exclusive use of the words "Guaranteed Pure Creamery Butter."

NAME.

VAN VEEN, REID, AND CO., of Elliott Street, Auckland, in the Colony of New Zealand, Import and Export Merchants.

No. of class: 42.

Description of goods: Butter.

No. of application: 6382.
Date: 14th December, 1906.

TRADE MARK.

The essential particular of this trade mark is the word "Venus"; and applicants disclaim any right to the exclusive use of the words "Guaranteed Pure Creamery Butter."

NAME.

VAN VEEN, REID, AND CO., of Elliott Street, Auckland, in the Colony of New Zealand, Import and Export Merchants.

No. of class: 42.

Description of goods: Butter.

No. of application: 6383.
Date: 14th December, 1906.

TRADE MARK.

The essential particular of this trade mark is the word "Devonia"; and the applicants disclaim any right to the exclusive use of the words "Guaranteed Pure Creamery Butter."

NAME.

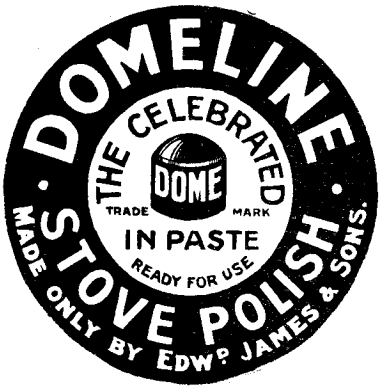
VAN VEEN, REID, AND CO., of Elliott Street, Auckland, in the Colony of New Zealand, Import and Export Merchants.

No. of class: 42.

Description of goods: Butter.

No. of application: 6384.
Date: 17th December, 1906.

TRADE MARK.



The essential particulars of this trade mark are the distinctive label device and the word "Domeline"; and applicants disclaim any right to the exclusive use of the added matter, except the name of Edwd. James & Sons.

NAME.

RECKITT AND SONS, LIMITED, of Wellington, in the Colony of New Zealand, and of Hull and London, England, Manufacturers.

No. of class: 50.

Description of goods: Blacklead and other stove-polish.

No. of application: 6385.
Date: 19th December, 1906.

TRADE MARK.

NAME.

JOHN ALFRED HENDERSON, trading as "John A. Henderson and Company," of No. 62 Pitt Street, Sydney, New South Wales, Commonwealth of Australia, Merchants.

No. of class: 1.

Description of goods: Chemical substances and materials used in manufactures.

No. of application: 6388.
Date: 21st December, 1906.

TRADE MARK.

The word

"TRIUMPH."

NAME.

SMITH'S PATENT TRIUMPH GOLOSH SYNDICATE, of Christchurch, in the Provincial District of Canterbury, in the Colony of New Zealand.

No. of class: 38.

Description of goods: Boots, shoes, and the like.

No. of application: 6389.
Date: 22nd December, 1906.

TRADE MARK.

The words

"LIXALL,"
THE RELIABLE WEED-DESTROYER.

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

NAME.

CALEB YEOMAN DALLY, Austral Botanic Manufacturing Company, of Masterton, in the Colony of New Zealand.

No. of class: 2.

Description of goods: Weed-destroyer.

No. of application: 6390.
Date: 27th December, 1906.

TRADE MARK.

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

NAME.

ACME WHITE-LEAD AND COLOUR WORKS, Manufacturer, a corporation duly organized and existing under and by virtue of the laws of the State of Michigan, and having its principal office and place of business located at Milwaukee Junction, in the City of Detroit, in the County of Wayne and State of Michigan, one of the United States of America.

No. of class: 1.

Description of goods: Paints, enamels, stains, varnishes, and similar goods.

No. of application: 6391.

Date: 27th December, 1906.

TRADE MARK.

The word

"EMPIRE."

NAME.

TAYLOR BROS. AND CO., LIMITED, of Clarence Iron and Steel Works, Clarence Road, Hunslet, in the City of Leeds, England, Iron and Steel Manufacturers.

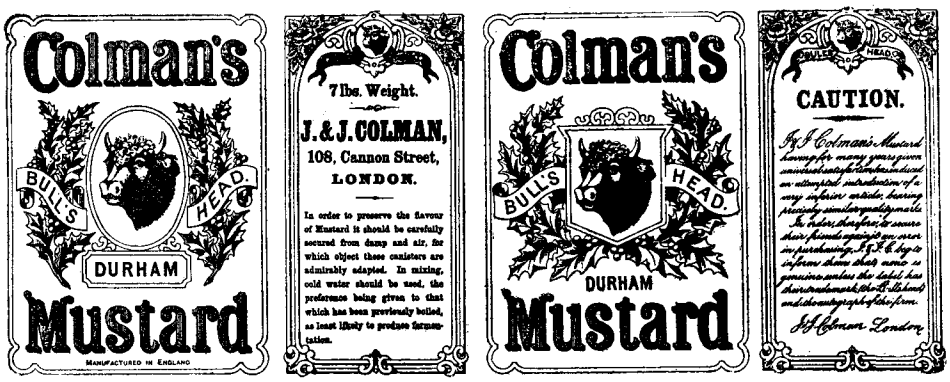
No. of class: 6.

Description of goods: Steel railway-tires for locomotives.

No. of application: 6393.

Date: 27th December, 1906.

TRADE MARK.



The applicants claim that this trade mark has been in use by them and their predecessors in business in respect of the article mentioned for upwards of one year before the 1st January, 1890.

NAME.

J. AND J. COLMAN, LIMITED, of Carrow Works, Norwich, and of 108 Cannon Street, London, England; Mustard, Starch, Blue, and Cornflour Manufacturers.

No. of class: 42.

Description of goods: Mustard, whether in a powdered or a liquid state.

No. of application: 6394.

Date: 27th December, 1906.

TRADE MARK.

The word

"PERIOL."

NAME.

EDWARD BEVAN JONES, of Invercargill, in the Colony of New Zealand, Chemist.

No. of class: 3.

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

No. of application: 6395.
Date: 27th December, 1906.

TRADE MARK.

The applicants claim that this trade mark has been in use by them and their predecessors in business in respect of the article mentioned for upwards of one year before the 1st January, 1890.

NAME.

J. AND J. COLMAN, LIMITED, of Carrow Works, Norwich, and of 108 Cannon Street, London, England; Mustard, Starch, Blue, and Cornflour Manufacturers.

No. of class: 42.
Description of goods: Mustard, whether in a powdered or a liquid state.

No. of application: 6398.
Date: 28th December, 1906.

TRADE MARK.

The word

"SILVERETTE."

NAME.

HOLZAPFEL'S COMPOSITIONS COMPANY, LIMITED, of Milburn House, Dean Street, Newcastle-on-Tyne, England, Manufacturers and General Merchants.

No. of class: 1.
Description of goods: Paint.

No. of application: 6399.
Date: 29th December, 1906.

TRADE MARK.

The word

"SUCROSINE."

NAME.

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

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

J. C. LEWIS,
Deputy Registrar.

Trade Marks registered.

LIST of Trade Marks registered from the 13th December, 1906, to the 9th January, 1907, inclusive:—

No. 4842; 6191.—Kenderdine and Kirkup. Class 50. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4843; 6218.—The Wanganui Meat-freezing Company. Class 42. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4844; 6227.—The Wanganui Meat-freezing Company. Class 42. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4845; 6184.—I. Brown and Co. Class 22. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4846; 6179.—A. R. Hardy. Class 13. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4847; 6180.—A. R. Hardy. Class 18. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4848; 6222.—J. Lysaght, Limited. Class 5. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4849; 5858.—E. D. Wall. Class 22. (*Gazette* No. 74, of the 23rd August, 1906.)
No. 4850; 6192.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4851; 6193.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4852; 6194.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4853; 6195.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4854; 6196.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4855; 6197.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4856; 6198.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4857; 6199.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4858; 6200.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4859; 6201.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)
No. 4860; 6204.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4861; 6205.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4862; 6207.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4863; 6208.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4864; 6209.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4865; 6210.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4866; 6211.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4867; 6212.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4868; 6213.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4869; 6214.—Lever Bros., Limited. Class 47. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4870; 6215.—Lever Bros., Limited. Class 48. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4871; 6228.—P. Jones. Class 3. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4872; 6243.—G. G. Sandeman, Sons, and Co., Limited. Class 43. (*Gazette* No. 84, of the 4th October, 1906.)

No. 4873; 6143.—Nicholson File Company. Class 12. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4874; 6258.—Congreve and Kibblewhite. Class 22. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4875; 6272.—S. Barry. Class 8. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4876; 6278.—Kelsall and Kemp, Limited. Class 34. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4877; 5653.—K. S. Ramsay. Class 1. (*Gazette* No. 110, of the 14th December, 1905.)

No. 4878; 6217.—Bing, Harris, and Co., Limited. Class 38. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4879; 6221.—J. Lysaght, Limited. Class 5. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4880; 6267.—Lowney Chocolate Company. Class 42. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4881; 6268.—The W. M. Lowney Company. Class 42. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4882; 6270.—The W. M. Lowney Company. Class 42. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4883; 6280.—A. S. Paterson and Co. Class 42. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4884; 5701.—F. Reddaway and Co., Limited. Class 50. (*Gazette* No. 93, of the 1st November, 1906.)

No. 4885; 6246.—Alfred Tyree and Co., Limited. Class 38. (*Gazette* No. 88, of the 18th October, 1906.)

No. 4886; 6079.—Miraculum Proprietary, Limited. Class 50. (*Gazette* No. 81, of the 20th September, 1906.)

No. 4887; 6296.—Schott and Gen. Class 15. (*Gazette* No. 93, of the 1st November, 1906.)

Subsequent Proprietors of Trade Marks registered.

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

NO. 1663/1336.—Dunlop Rubber Company of Australasia, Limited, of 108 Flinders Street, Melbourne, Victoria. [The Pneumatic Tire Company, Limited—The Dunlop Pneumatic Tire Company, Limited—Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

No. 2592/2018.—Dunlop Rubber Company of Australasia, Limited, of 108 Flinders Street, Melbourne, Victoria. [The Dunlop Pneumatic Tire Company, Limited—Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

No. 2664/2095.—Dunlop Rubber Company of Australasia, Limited, of No. 108 Flinders Street, Melbourne, Victoria. [The Dunlop Pneumatic Tire Company, Limited—Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

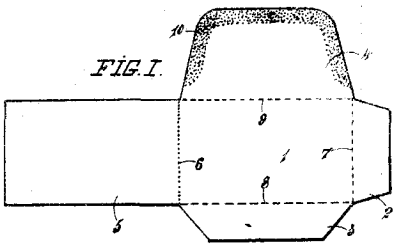
No. 2665/2096.—Dunlop Rubber Company of Australasia, Limited, of No. 108 Flinders Street, Melbourne, Victoria. [The Dunlop Pneumatic Tire Company, Limited—Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

No. 2742/2172.—Dunlop Rubber Company of Australasia, Limited, of No. 108 Flinders Street, Melbourne, Victoria. [The Dunlop Pneumatic Tire Company, Australasia, Limited—Dunlop Pneumatic Tire Company of Australasia, Limited.] 14th December, 1906.

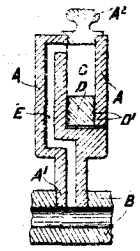
By Authority: JOHN MACKAY, Government Printer, Wellington.

ILLUSTRATIONS OF INVENTIONS.

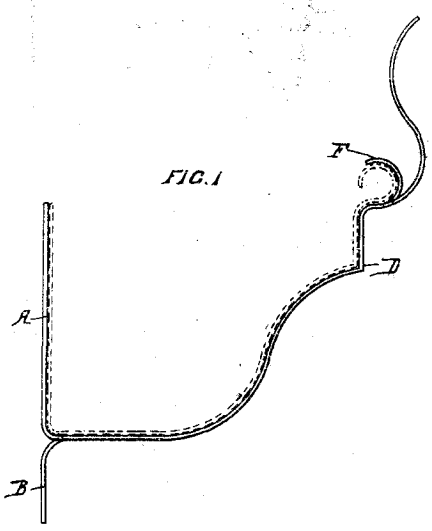
[These illustrations refer to the complete specifications accepted, and advertised in this *Gazette*.]



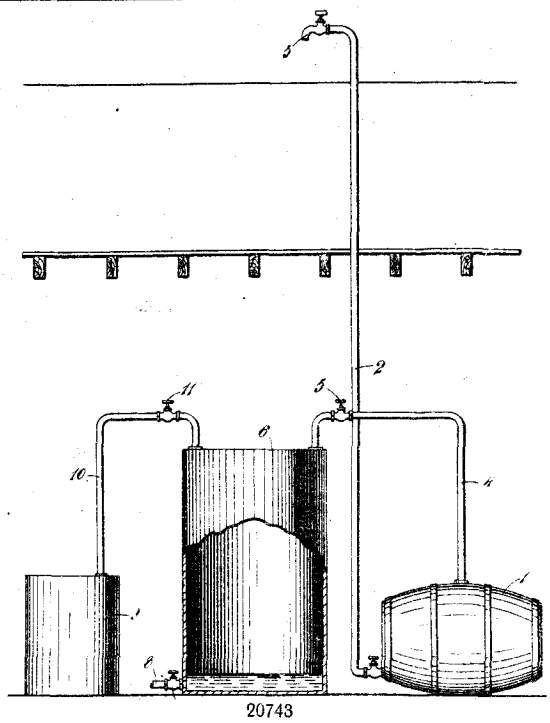
20026
Cornwall. Envelope.



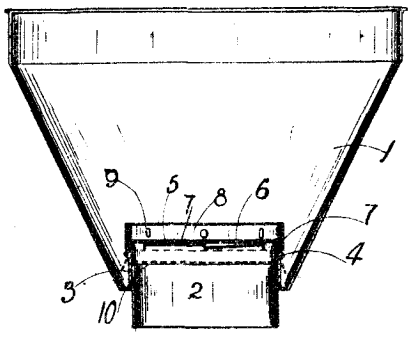
20034
Perrott. Lubricator.



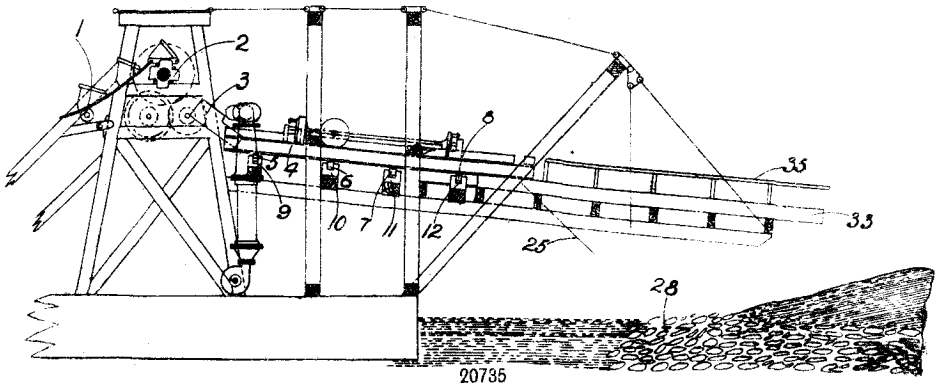
20122
Larsen. Spouting-bracket.



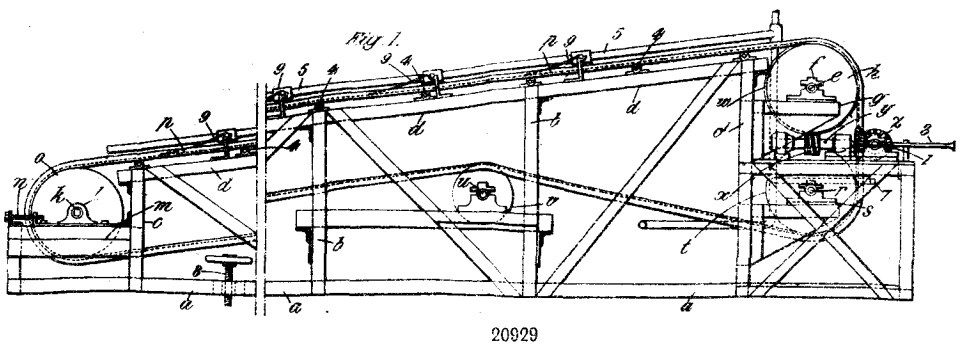
20743
Ford. Forcing liquid.



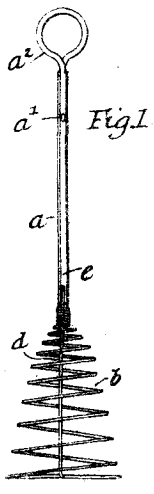
20841
Bower. Milk-strainer.



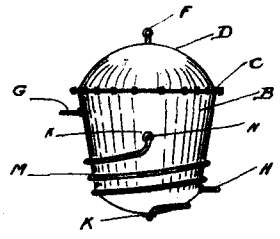
20735
Stevenson and Cook. Stone-shoot.



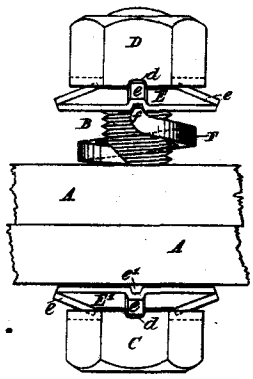
20929
Moore. Separating gold.



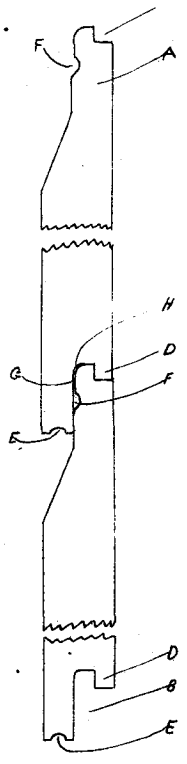
20850
Crimp. Egg-beater.



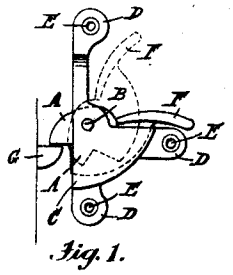
21823
Reimers. Steamer.



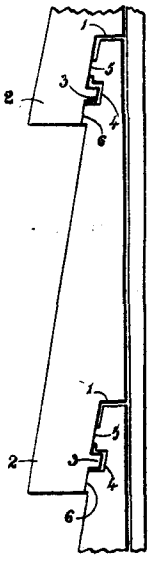
21916
Bostock and Peck. Lock-nut. (Swain.)



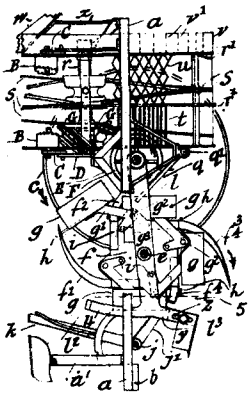
21947
Gillman. Timber-joint.



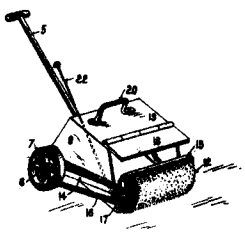
22055
Moss. Window-fastener.



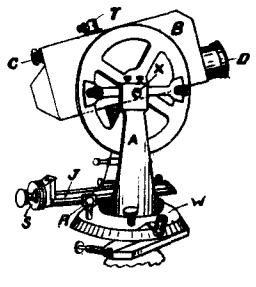
22218
Prouse. Rusticated Boarding.



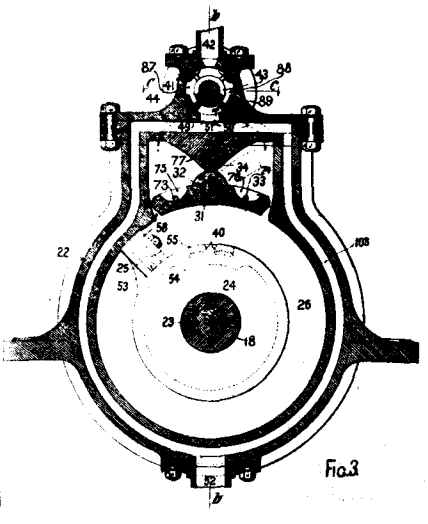
22128
Lees. Potato-digger.



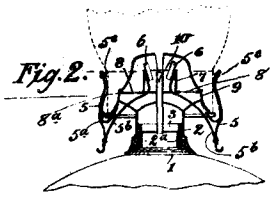
22220
Penfold. Street-sweeper.



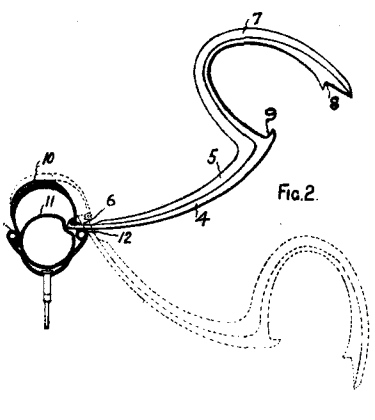
22138
Rich. Tacheometer.



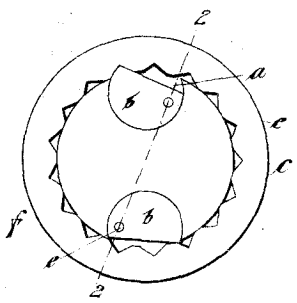
22108
Friend. Rotary Engine.



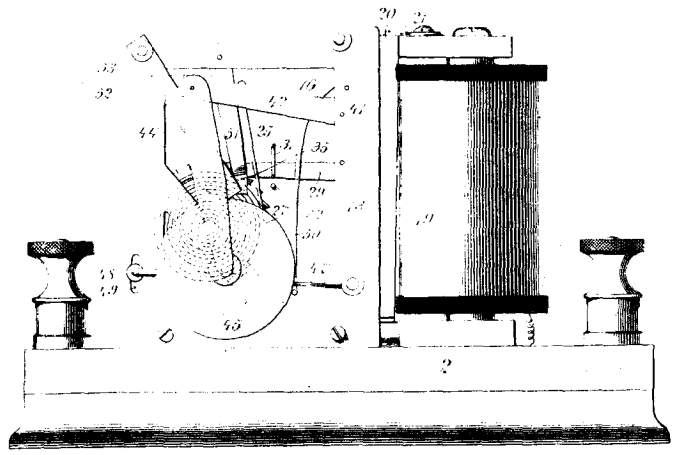
22115
Hooper. Oil-lamp Burner.



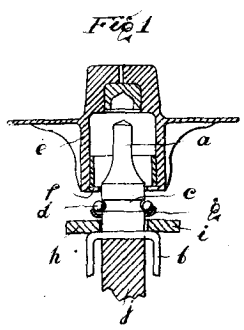
22219
Webber. Tire-tool.



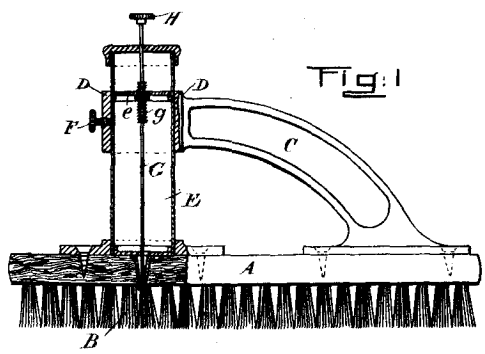
20853
Thomas. Rock-drill. (Arthur.)



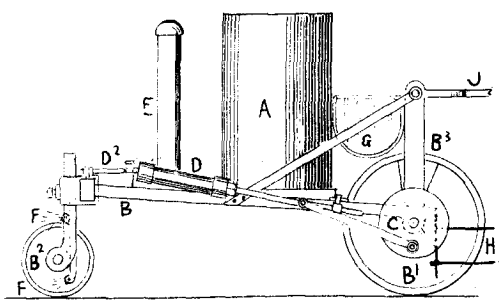
21008
International Telegraphic Call Co. Signalling-apparatus. (Gill.)



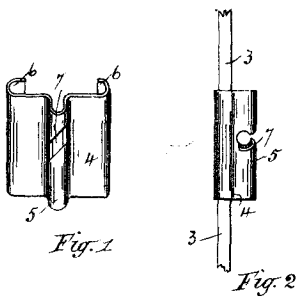
21007
Main and Gaminara Castor



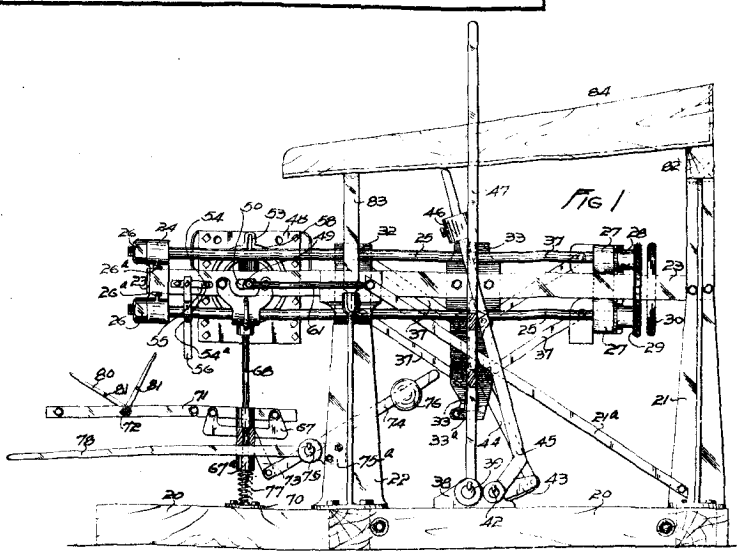
21666
Hall. Reservoir-brush.



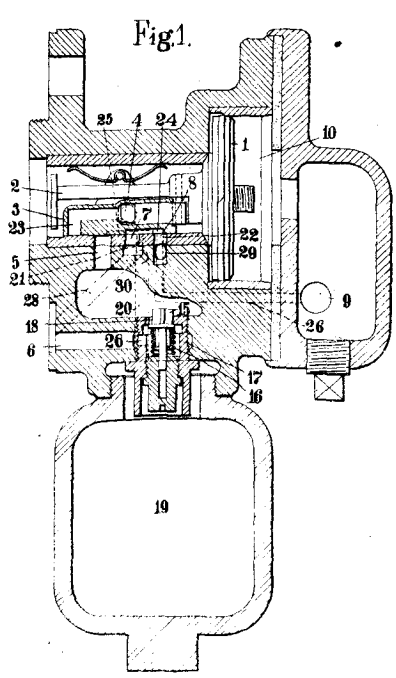
21887
Millar. Spray.



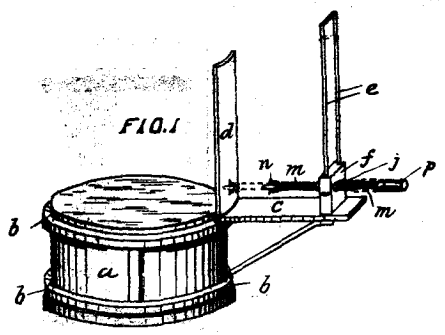
21038
Burbury. Wire-fastener.



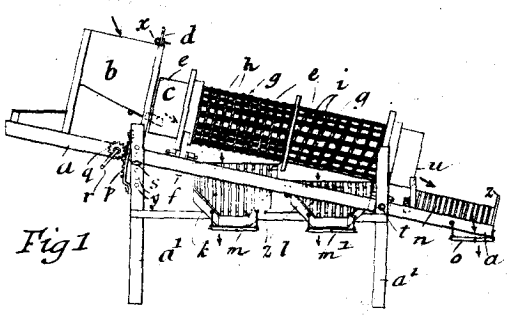
21207
Ferguson. Building-block Mould. (White.)



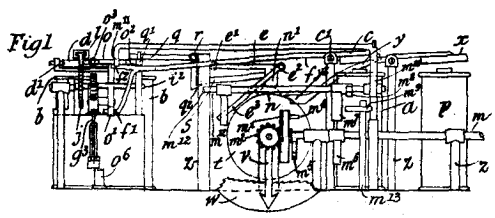
21769
Cloud. Air-brake.



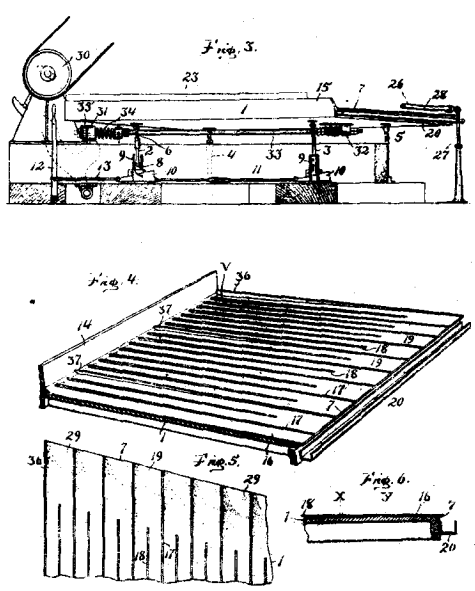
22149
Davidson. Dressmakers' Marker.



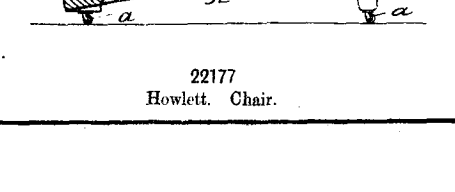
22152
W. M. and W. H. Maybury. Grader and Screener.



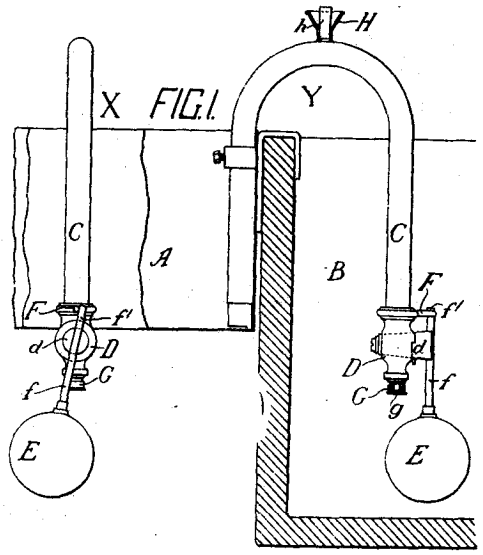
22153
Riegelhuth. Signal.



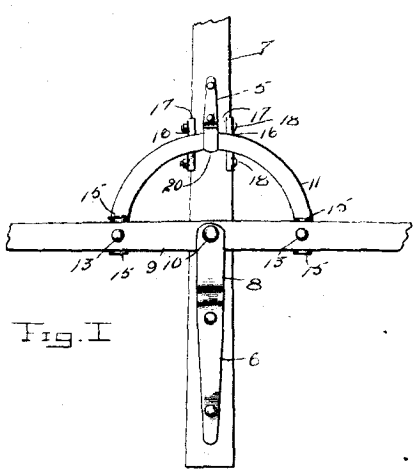
21175
Deister. Concentrator.



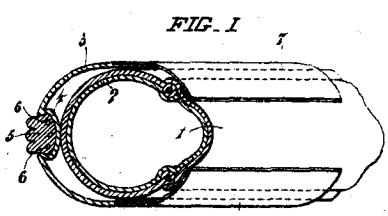
22177
Howlett. Chair.



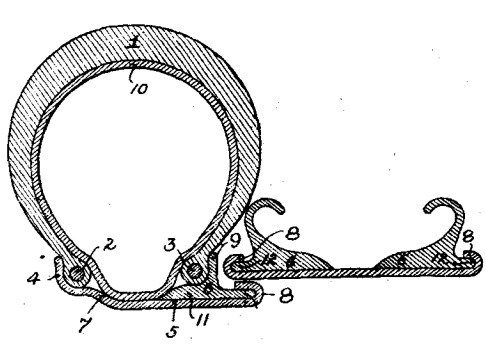
22187
Harwood and Reed. Disinfectant supply.



22185
Decker. Whiffletree.



22207
McLean. Wheel.



22179
Beresford. Wheel.