

Patents, Designs, and Trade Marks

SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

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International and Intercolonial Arrangements for the Mutual Protection of Patents and Trade Marks.

INTERNATIONAL CONVENTION.

THE following countries now belong to the Convention :—

Australia.	Italy.
Austria-Hungary.	Japan.
Belgium.	Mexico.
Brazil.	New Zealand.
Ceylon.	Norway.
Cuba.	Portugal, with the Azores and Madeira.
Denmark and Faroe Islands.	Servia.
Dominican Republic.	Spain.
France, with Algeria and Colonies.	Sweden.
Germany.	Switzerland.
Great Britain.	Tunis.
Holland, with East Indian Colonies, Curaçoa, and Surinam.*	United States of America.

* Trade marks only.

Separate arrangements have been made between Australia and New Zealand.

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

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

Applications for Letters Patent filed.

LIST of applications for Letters Patent filed. (Where a complete specification accompanies an application an asterisk is affixed; in all other cases a provisional specification has been lodged. In all cases where the applicant is not the inventor the name of the latter appears in italics in brackets. † Denotes an application under the International and Intercolonial Arrangements.)

Richards, R. . . . .	..	..	..	Swivel-block for ferry-punt; 27780; 10th June.
King, J. B., Clyde, U.S.A. . . . .	..	..	..	Mausoleum*; 27785; 11th January.†
Hughes, W. E., Clyde, U.S.A. . . . .	..	..	..	Mausoleum*; 27785; 11th January.†
Hall, F. W., Detroit, U.S.A. . . . .	..	..	..	Mausoleum*; 27785; 11th January.†
Wellwood, J. J., Morven, N.Z. . . . .	..	..	..	Trace-chain spreader*; 27786; 27th May.
Duxfield, A. H., Hawera, N.Z. . . . .	..	..	..	Hock-boot; 27787; 27th May.
Macpherson, J., Auckland, N.Z. . . . .	..	..	..	Acetylene generator; 27788; 26th May.
Lund, T., Beverly, U.S.A. . . . .	..	..	..	Boot-top lift*; 27789; 29th May, 1909.†
Schadick, J., Westport, N.Z. . . . .	..	..	..	Envelope; 27790; 26th May.
Wallace, H. V., Auckland, N.Z. . . . .	..	..	..	Plastering; 27791; 27th May.
Wardrop, R. S., Kaikorai Valley, N.Z. . . . .	..	..	..	Plastering; 27791; 27th May.
Wills, C. W., Pahiatua, N.Z. . . . .	..	..	..	Cattle-medicine*; 27792; 27th May.
Taberner, R., Auckland, N.Z. . . . .	..	..	..	Petrol strainer and gauge*; 27793; 27th May.
Davey, T. H., Christchurch, N.Z. . . . .	..	..	..	Locomotive, &c., head-light; 27794; 30th May.
Burns, J. E., Christchurch, N.Z. . . . .	..	..	..	Fireguard; 27795; 30th May.
Hewlett, G. R., Ikamatua, N.Z. . . . .	..	..	..	Hat-pin; 27796; 30th May.
Arbuokle, A. J., Belgravia, Transvaal. . . . .	..	..	..	Mineral-separation vats and tanks*; 27797; 30th May.
Caverhill, F. J. S., Christchurch, N.Z. . . . .	..	..	..	Sheep-shear-driving gear; 27798; 30th May.
Maioha, S., jun., Tolaga Bay, N.Z. . . . .	..	..	..	Sunken-rock locator*; 27799; 30th May.
Holt, P. W. M., Papakura, N.Z. . . . .	..	..	..	Poultry-feeding device; 27800; 28th May.
Bulger, J. K., San Francisco, U.S.A. . . . .	..	..	..	Pipe lock-joint, &c., coupling*; 27801; 28th May.
Safety Tire Company, New York, U.S.A. (<i>Crawford, G. W.</i>) . . . . .	..	..	..	Wheel-tire*; 27802; 28th May.
Dring, T. A., Sunnybank, Eng. . . . .	..	..	..	Flying-machine*; 27803; 31st May.
Petersen, O. R., Masterton, N.Z. . . . .	..	..	..	Curtain-suspender; 27804; 31st May.
Smallbone, R. E., Auckland, N.Z. . . . .	..	..	..	Turbine-motor; 27805; 31st May.
Godfree, E. G., Hampton, Vic. . . . .	..	..	..	Electro-mechanical selector*; 27806; 31st May.
Dunne, R., Dunedin, N.Z. . . . .	..	..	..	Paperholder, &c.; 27807; 30th May.
Croll, A. H., Dunedin, N.Z. . . . .	..	..	..	Broom, &c.; 27808; 30th May.
Forsyth, G., Christchurch, N.Z. . . . .	..	..	..	Soap-manufacture*; 27809; 31st May.
Carr, W., Blenheim, N.Z. . . . .	..	..	..	Acetylene-gas producer*; 27810; 1st June.
Hale, E., Kaikuri, N.Z. . . . .	..	..	..	Lamb-docking, &c., implement*; 27811; 1st June.
Fortescue, G. E., and Sons, Limited, Arncliffe, N.S.W. (<i>Fortescue, A. J., and Murray, W.</i>) . . . . .	..	..	..	Windmill*; 27812; 10th June, 1909.†
Baxter, W. H., South Yarra, Vic. . . . .	..	..	..	Scaffold-bracket; 27813; 1st June.
Yost, F. W., Chicago, U.S.A. . . . .	..	..	..	Material-treatment*; 27814; 1st June.
McLeod, A., Auckland, N.Z. . . . .	..	..	..	Califont; 27815; 31st May.
Dil, W. J., Balclutha, N.Z. . . . .	..	..	..	Clarinet, &c., reed; 27816; 2nd June.
Hayes, E., Otarehua, N.Z. . . . .	..	..	..	Wire-grip*; 27817; 2nd June.
Harrison Printing Company, Limited, Toowoomba, Q. (<i>Harrison, M. R.</i>) . . . . .	..	..	..	Time-table booklet*; 27818; 2nd June.
Long, A. M., Gisborne, N.Z. . . . .	..	..	..	Weed-destroying fluid; 27819; 28th May.
Martin, W. M., Redruth, Eng. . . . .	..	..	..	Ore-treatment*; 27820; 1st June.
Valentine, J., Waikouaiti, N.Z. . . . .	..	..	..	Wheelbarrow-bush; 27821; 2nd June.
Morris, T., Mornington, N.Z. . . . .	..	..	..	Wire-clip; 27822; 2nd June.
Burk, W. J., Dunedin, N.Z. . . . .	..	..	..	Curtain-pole, &c., lifter; 27823; 2nd June.
Irwin, H., Tikokino, N.Z. . . . .	..	..	..	Poultry nest-box*; 27824; 4th June.
Morley, G. W. K., Christchurch, N.Z. (<i>Milkningsmaskin Aktiebolaget—Dalen, G.</i>) . . . . .	..	..	..	Milking-machine; 27825; 4th June.
Watson, G. H., Tokomaru, N.Z. . . . .	..	..	..	Milking machine; 27825; 4th June.
Morgan, A. G. P., Palmerston North, N.Z. . . . .	..	..	..	Power-multiplying device; 27826; 4th June.
Telford, T., Otanomomo, N.Z. . . . .	..	..	..	Froth-preventing appliance; 27827; 6th June.
Bate, J., Auckland, N.Z. . . . .	..	..	..	Flax-stripper; 27828; 4th June.
McLeod, H. F., Auckland, N.Z. . . . .	..	..	..	Gold-separator; 27829; 2nd June.
Connor, M. J., Auckland, N.Z. . . . .	..	..	..	Gold-separator; 27829; 2nd June.
Scott, M. H., Auckland, N.Z. . . . .	..	..	..	Gold-separator; 27829; 2nd June.
Morley, G. W. K., Christchurch, N.Z. . . . .	..	..	..	Milk-heater, &c.; 27830; 6th June.
Topp, W. B., Wellington, N.Z. . . . .	..	..	..	Spouting-bracket-forming machine; 27831; 6th June.
Wakely, W. W., Featherston, N.Z. . . . .	..	..	..	Flax-stripper; 27832; 6th June.
Gray, A., Wellington, N.Z. . . . .	..	..	..	Letter-sheet and envelope*; 27833; 7th June.
Davidson, H. J., Wellington, N.Z. . . . .	..	..	..	Flying-machine; 27834; 7th June.
Jorgensen, O. A., Wellington, N.Z. . . . .	..	..	..	Caseament-window fastener; 27835; 7th June.
Craw, G., Linton, N.Z. . . . .	..	..	..	Flax-treating apparatus; 27836; 7th June.
Hale, A. H., Palmerston North, N.Z. . . . .	..	..	..	Hot-water circulator from gas-engine exhaust; 27837; 7th June.
Nathan, F. J., Palmerston North, N.Z. . . . .	..	..	..	Hot-water circulator from gas-engine exhaust; 27837; 7th June.
Coulthard, J., Ngaruawahia, N.Z. . . . .	..	..	..	Handle-making machine; 27838; 6th June.
Ridley, W. H. J., Auckland, N.Z. . . . .	..	..	..	Gold-extraction process*; 27839; 6th June.
Connor, M. J., Auckland, N.Z. . . . .	..	..	..	Gold-extraction process*; 27839; 6th June.
Hurring, J., Blue Spur, N.Z. . . . .	..	..	..	Tap; 27840; 6th June.
Hazelden, A., Auckland, N.Z. . . . .	..	..	..	Order-board for hotels, &c.; 27841; 8th June.
Brook, E., Christchurch, N.Z. . . . .	..	..	..	Dredge*; 27842; 8th June.
Wilkinson, M., Auckland, N.Z. . . . .	..	..	..	Hat-pin; 27843; 8th June.
Clapcott, F. B., Auckland, N.Z. . . . .	..	..	..	Latch; 27844; 6th June.
Moon, C., Auckland, N.Z. . . . .	..	..	..	Bamboo-furniture scroll*; 27845; 7th June.
Palmer, S. R., Rotorua, N.Z. . . . .	..	..	..	Lubricator for trucks, &c.; 27846; 7th June.
Howard, E., London, Eng. . . . .	..	..	..	Bottle-filling machine*; 27847; 27th August, 1909.†
Dowell, H. J., London, Eng. . . . .	..	..	..	Bottle-filling machine*; 27847; 27th August, 1909.†
Stone, J., and Co., Limited, Deptford, Eng. . . . .	..	..	..	Railway-carriage lighting*; 27848; 9th June.
Darker, A. H., Blackheath, Eng. . . . .	..	..	..	Railway-carriage lighting*; 27848; 9th June.
Wester, C., Helsingborg, Sweden . . . . .	..	..	..	Explosive*; 27849; 9th June.
Clark, W. E., Mexico City, Mexico . . . . .	..	..	..	Filtering solutions; 27850; 9th June.
Goddard, H. A., Concord, N.S.W. . . . .	..	..	..	Concrete wall*; 27851; 9th June.
Page, F. T., Dannevirke, N.Z. . . . .	..	..	..	Wire-strainer*; 27852; 9th June.
Quirk, L. M. V., Melbourne, Vic. (<i>Officer, C.M.</i>) . . . . .	..	..	..	Carburetter*; 27853; 9th June.
Quirk, W. M., Melbourne, Vic. (<i>Officer, C.M.</i>) . . . . .	..	..	..	Carburetter*; 27853; 9th June.

Rossiter, L. J., Sydney, N.S.W.	..	..	Tobacco-pipe* ; 27854 ; 15th June, 1909.†
Almond, W. J. C., Alberton, S. Aust.	..	..	Railway-brake mechanism ; 27855 ; 9th June.
Opie, J. A., Queenstown, S. Aust.	..	..	Railway-brake mechanism ; 27855 ; 9th June.
Bray, G. W., Footscray, Vic.	..	..	Fruit-case ; 27856 ; 9th June.
Harvey, N., Wellington, N.Z.	..	..	Metal-joining composition ; 27857 ; 9th June.
Andrews, F., Mercer, N.Z.	..	..	Cattle ear-mark* ; 27858 ; 9th June.
Throp, B., Christchurch, N.Z.	..	..	Door-lock ; 27859 ; 9th June.
Fell, R. E., Wanganui, N.Z.	..	..	Hat-pin ; 27860 ; 9th June.
Watson, G. A., Mataura, N.Z.	..	..	Milk-strainer ; 27861 ; 9th June.
Gray, A., Wellington, N.Z.	..	..	Letter-form* ; 27862 ; 9th June.
Dement, W. G., Te Kuiti, N.Z.	..	..	Mattress-clamp* ; 27863 ; 9th June.
Walker, W. E., Te Kuiti, N.Z.	..	..	Mattress-clamp* ; 27863 ; 9th June.
Ookerby, F. W., Launceston, Tas.	..	..	Threshing-machine* ; 27864 ; 12th May.
The Clapham Gas Light Manufacturing and Agency Company, Limited, Auckland, N.Z. (Clapham, H.)	..	..	Hydrocarbon-gas production ; 27865 ; 8th June.
McLeod, A., Auckland, N.Z.	..	..	Safety-valve, &c. ; 27866 ; 8th June.

ERRATUM.—In place of the name, &c., "E. Hayes—Windmill," inserted against No. 27780 in the preceding *Gazette* insert the following: "No. 27780.—R. Richards, swivel-block for ferry-punt."

Complete Specifications filed after Provisionals.

LIST of complete specifications filed after provisional specifications, from the 25th May to the 10th June, 1910, inclusive:—

- No. 26307.—E. Hayes, windmill.
- No. 26384.—H. Quartier, ticket-printing device.
- No. 26441.—United Shoe Machinery Company, sheet-material cutting-out machine. (A. Bates.)
- No. 26443.—United Shoe Machinery Company, press. (I. C. Buckminster.)
- No. 26483.—W. B. Topp, spouting.
- No. 26492.—F. H. Bridger, pressure-maintaining. (T. E. Bridger.)
- No. 26501.—A. W. Schaef, aeroplane.
- No. 26522.—G. Gray, ridging-machine.
- No. 26545.—H. F. Nelson, clothes-drying apparatus.
- No. 26550.—F. and V. J. Roberts, hose-coupling.
- No. 26562.—J. Wilson, table.
- No. 26595.—United Shoe Machinery Company, boot-machine. (E. Brothers.)
- No. 26596.—United Shoe Machinery Company, boot-machine. (E. Brothers.)
- No. 26597.—United Shoe Machinery Company, work-support. (R. F. McFeely.)
- No. 26598.—United Shoe Machinery Company, fastenings-inserting machine. (G. Goddū.)
- No. 26599.—United Shoe Machinery Company, boot-making apparatus. (R. F. McFeely.)
- No. 26600.—United Shoe Machinery Company, tack-pulling machine. (L. V. Miller.)
- No. 26601.—United Shoe Machinery Company, heel-nailing machine. (H. Hall.)
- No. 26602.—United Shoe Machinery Company, heel-blackening machine. (F. M. Furber.)
- No. 26623.—United Shoe Machinery Company, shoe-manufacture. (K. Engel.)
- No. 27372.—T. J. Watson, harrow.

Notice of Acceptance of Complete Specifications.

Patent Office,
Wellington, 15th June, 1910.

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.

The copies of claims and extracts from the specifications and drawings are merely intended to give some further indication of the invention than is disclosed in the title, and the complete specifications and drawings should be referred to for a description of the invention.

No. 26032.—2nd June, 1909.—GEORGE ALEXANDER MCGREGOR, a member of the firm of J. McGregor and Co., of Lower Stuart Street, Dunedin, New Zealand, Engineers (nominee of John McGregor, also a member of the above-mentioned firm). Combined gravity fuel-feed and combustion chamber.*

Claims.—(1.) In apparatus of the kind described, in combination with furnaces and an elevated hopper, combined crushing and fuel-feeding mechanism mounted in the said hopper to produce a regular and uniform fuel-feed by gravitation. (2.) In apparatus of the kind described, in combination with furnaces, a combined crushing and fuel-feeding apparatus mounted directly over a combustion-chamber. (3.) The combination and arrangement of parts comprising my combined gravity fuel-feed and combustion chamber, substantially as set forth and as described, and as illustrated in the drawings. (Specification, 3s. 6d.)

No. 26140.—25th June, 1909.—JAMES VALENTINE COLEMAN, of Balboa Building, Market Street, San Francisco, California, United States of America, Miner. Apparatus for separating and recovering metals and mineral-bearing matter from streams of water carrying the same in suspension and for other purposes.*

Claims.—(1.) An apparatus of the character described in which an endless sluice composed of pliable material and provided with alternately arranged pockets and ridges is suspended between endless travelling belts to which progressive movement is imparted by means of carrying-pulleys. (2.) An apparatus of the character described in which an endless sluice composed of flexible sides and a bottom comprising a succession of folding pockets separated by transverse ridges is suspended between two endless movable carrying-belts arranged to travel over carrying-pulleys on parallel lines and is caused to move continuously in the opposite direction to the flow of the stream being operated on.

[NOTE.—Here follow eight other claims.]

(Specification, 17s.)

No. 26264.—19th July, 1909.—OTTO BREEDON ELLIOTT, of Auckland, New Zealand, Chauffeur. An improved fire-alarm system.*

Claims.—(1.) The improved fire-alarm system specified consisting of the alarm-box constructed in the manner particularised, and the indicator arranged and fitted and connected to the alarm-box in the manner and for the purpose set forth, as described and illustrated. (2.) In the fire-alarm system specified, the alarm-box having a disc with a number of pins mounted thereon and a single pin oppositely mounted thereon, a stud-lifter placed on face of said disc, a winding-stem for winding up geared-wheel system operating shaft mounted centrally to said disc so as to rotate said disc with attachments specified, a push button placed to operate and raise a pawl held from off the periphery of the said disc by a spring attachment, spring provided to drive and operate cog-wheeled system; back, front, and side plates, said side plates carrying contact-breaker contacts which join said contact-breaker to terminals; double-ended stud provided for setting alarm by allowing said pawl to drop into nicked part of said disc, spiral spring for pushing said double-ended stud into position, plate for supporting and holding said double-ended stud in place, self-setting arrangement for operating said double-ended stud, insulator having said terminals and contacts fitted thereto, and pillars for supporting and regulating distances between said back and said front plate, combined in the manner and for the purpose set forth, as described and illustrated.

(Specification, 6s.)

No. 26295.—26th August, 1908.—JOSEPH GURDON LEY-CESTER STEPHENSON, of 33A The Broadway, Hammersmith, London, England, Engineer. Improvements in carburetters.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in Great Britain.]

Claims.—(1.) In a carburetter, arranging a series of inclined shelves or plates for the purpose of causing the inflowing liquid to be spread or divided; substantially as set forth, and as illustrated in the drawings.

[NOTE.—Here follow three other claims.]

(Specification, 3s.)

No. 26475.—24th August, 1909.—GEORGE WALKER, of Tuakau, Auckland, New Zealand, Gentleman. An improved automatic machine for the treatment of flax and fibrous substances.

Claims.—(1.) In the improved automatic machine for the treatment of flax and fibrous substances, the slats made of thin steel with hollows on their travelling face and V-shaped clips secured at each of the ends of said slats for the purpose set forth as described and illustrated. (2.) In the improved automatic machine for the treatment of flax and fibrous substances, the stripper-feeder consisting of endless chains or belts with slats mounted thereon, said chains or belts running on pulleys or sprocket-wheels and being driven by suitable pulleys, said conveyor having an endless belt or band running transversely on pulleys to aforesaid chains or belts, and an endless belt of leather or the like with slats mounted thereon running above such belt, for the purpose set forth, as described and illustrated.

[NOTE.—Here follows one other claim.]

(Specification, 7s. 6d.)

No. 26483.—26th August, 1909.—WILLIAM BETHRIDGE TOPP, of Birkenhead, New Zealand, Manufacturers' Agent. Improvements in ogee spouting.*

Claim.—In ogee spouting, a bead formed upon the outer edge of the spouting and having its inner end extending inwards in a straight line towards the centre of the bead, substantially as and for the purposes specified.

(Specification, 2s.)

No. 26512.—2nd September, 1909.—WILLIAM ANTHONY BENN, of 6 Hoskins Building, Spring Street, Sydney, New South Wales, Australia, Refrigeration Expert; and EDWARD SUTHERLAND STOKES, of Ben Boyd Road, Neutral Bay, Sydney aforesaid, Doctor of Medicine. Improved process for preserving fish.*

Claims.—(1.) A process for preserving fish wherein freshly caught fish is immersed in sea-water or brine containing hypochlorites or a hypochlorite in the proportion set forth, substantially as described.

[NOTE.—Here follow four other claims.]

(Specification, 4s. 6d.)

No. 26568.—9th September, 1909.—HARRY OSWALD BIoLETTI, of 11 Vincent Street, Auckland, New Zealand, Builder. A door-holder.*

Claim.—The door-holder specified, shaped with two ends, each having a circular knob or cylindrical formation and with a flat part between them, and having a screw-hole made centrally in said flat part in the manner and for the purpose set forth, as described and illustrated.

(Specification, 2s.)

No. 26981.—2nd December, 1909.—WILLIAM JOHN HASTINGS BEACH, Wellington, New Zealand, Mechanic. An improved aeroplane.*

Extract from Specification.—The essential feature of novelty in the improved machine consists in the combination of two monoplane arranged one behind the other upon a single frame of triangular cross-section and each of which planes is

provided with its own means of propulsion. Other features of the construction consist in the combination with each of such planes of a small plane arranged below it and secured transversely across the base of the frame, and to the combination with each of the main planes of flexibly hinged extensions that normally incline rearwards from the back edge of the plane.

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

(Specification, 5s.)

No. 27097.—29th December, 1909.—HENRY HOWARD GREENWAY, Metallurgist, of 62 London Wall, London E.C.; HENRY LIVINGSTONE SULMAN, Metallurgist, of 44 London Wall, London E.C.; and ARTHUR HOWARD HIGGINS, Metallurgist, of Broken Hill, New South Wales, Australia. Improvements in or relating to the concentration of ores.

Extract from Specification.—The crushed ore is mixed with water containing in solution a small percentage of a mineral-frothing agent—that is, of one or more organic substances which enable metallic sulphides to float under conditions hereinafter specified—and containing also a small percentage of a suitable acid, such as sulphuric acid, and the mixture is thoroughly agitated. The ore-particles are caused to come into contact with a gas such as air; thus a gas may be liberated in, generated in, or effectively introduced into the mixture so that the ore-particles come into contact with the gas, and the result is that metallic sulphide particles float to the surface in the form of a froth or scum and can thereafter be separated by any well-known means. Among the organic substances which, in solution, we have found suitable for use as mineral-frothing agents with certain ores are alcohols, such as methyl-, propyl-, ethyl-, butyl-, or amyl-alcohol or mixtures of these; organic acids—viz., acetic acid, propionic acid, butyric acid, and valerianic and lactic acid; ethereal salts, such as ethyl acetate, amyl acetate; aromatic hydroxy compounds—viz., phenol, cresol, and their homologues and many of their derivatives, such as resorcin, trinitrophenol, salicylic acid; ketones, such as acetone or camphor; aldehydes, such as formaldehyde and furfural, or mixtures of these.

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

(Specification, 7s. 6d.)

No. 27155.—13th January, 1910.—THOMAS JOSEPH MURPHY, of Rochester, New York, United States of America, Electrical Engineer. Electricity-rectifiers.

Claims.—(1.) In an electric valve, the combination of a conductor body, a second comparatively warm conductor body, and a means for warming the said second body. (2.) In an electric valve, the combination of a conductor body and a warm wire. (3.) In an electric valve, the combination of a conductor body, a wire, and means for heating the said wire. (4.) In an electric valve, the combination of a thick disc having rounded edges, a looped wire located opposite said disc, and a source of current connected to said disc for heating it.

[NOTE.—Here follow four other claims.]

(Specification, 14s. 6d.)

No. 27198.—25th January, 1910.—EMIL DEISTER, 1415 Webster Street, of Fort Wayne, Indiana, United States of America, Mechanic. Driving-mechanism for ore-concentrators.

Claims.—(1.) In apparatus of the class described, a frame, a shaft journaled therein, a fixed eccentric on the shaft, a roller loosely mounted on the eccentric, a pivoted lever having a curved bearing-face, the said roller having rolling-contact on said face and being adapted to actuate the lever, a drive-pulley mounted eccentric of the shaft and having a drive-pin, a box-crank rigidly fixed on the shaft and having a sliding block therein which has connection with said pin, and a reciprocating-table having suitable relation with the lever to be actuated thereby.

[NOTE.—Here follow five other claims.]

(Specification, 5s.)

No. 27237.—3rd February, 1910.—ELIAS ELKEN RIES, of 110 Nassau Street, New York, United States of America, Electrical Engineer. Method of and means for manufacturing metal pipe and tubing.

Claims.—(1.) That improvement in the art of electrically uniting adjacent metallic surfaces which consists in subjecting such surfaces to be united to the action of a suitable direct, alternating, or other electric-heating current confined wholly to those portions of the metal adjacent to the line of union, and preferably by three pole contacts, fixed or stationary, sliding or rotary. . . . (4.) That improvement in the art of forming tube from hot tube-skelp which consists in augmenting the residual heat in newly formed hot skelp by raising the edges of the hot tube-skelp to welding-temperature and welding said edges together. . . . (12.) In an apparatus for electrically uniting adjacent metal surfaces, the combination with contact-means, preferably a three-pole contact device, fixed or stationary, sliding or rotary, for confining the action of the current wholly to those portions of the metal adjacent to the line of union, and a suitable source of direct, alternating, or other electric-heating current electrically connected with said contact-means in such a manner as to assure the confinement of the current to the areas specified.

[NOTE.—Here follow seven other claims.]

(Specification, £1.)

No. 27520.—2nd April, 1910.—HERBERT EDWARD TERRICK HAULTAIN, Professor of Mining in the University of Toronto, Ontario, Canada; and JAMES WILLIAM MOFFAT, Mining Engineer, of 366 Sackville Street, Toronto aforesaid. A process of and apparatus for reducing metallic-oxide ores.

Claims.—(1.) A process of reducing metallic-oxide ores which consists in passing ore through a reduction-chamber containing a reducing-gas, and burning surplus reducing-gas in the reducing-chamber outside the ore. . . . (4.) A specific manner of carrying out the process set out in the preceding claims in which the reducing-atmosphere is produced by introducing pulverised carbon into the showered ore intermediate the bath of molten metal and the point of introduction of the ore. . . . (7.) A process of reducing metallic-oxide ores which consists in continuously showering finely divided ore through an unobstructed chamber directly into a bath of the molten material heated by electric energy, introducing pulverised carbon into the shower intermediate the surface of the bath and the point of introduction of the ore, and gradually withdrawing the molten metal from the bath at a point sufficiently remote from the shower to avoid the immediate withdrawal of the newly smelted metal.

[NOTE.—Here follow six other claims.]

(Specification, 9s. 6d.)

No. 27524.—7th April, 1910.—ALEXANDER JOHN ARBUCKLE, of 1 Main Street, Belgravia, near Johannesburg, Transvaal, Mechanical Engineer. Improvements in apparatus for treating crushed-ore products for the recovery of the metal-contents thereof.

Claims.—(1.) In apparatus or plant for treating crushed-ore products for the recovery of the metal-contents thereof, the combination with a settling or dewatering vessel of one or a plurality of sectional screw conveyors arranged in sectional intercommunicating casings, substantially as described and shown.

[NOTE.—Here follow four other claims.]

(Specification, 10s. 6d.)

No. 27556.—14th April, 1910.—ALFRED HENRY WILLIAMS, of King William Road, Hyde Park, South Australia, Store-keeper. Improvements in the manufacture of incandescent mantles for gas-lighting.

Claims.—(1.) The method of producing an incandescent mantle which consists in dipping the impregnated and burnt-off stocking in petroleum oil, then drying it, then dipping it in a bath consisting of a mixture of collodion, alcohol, olive oil, and spirits of camphor, then drying it, then dipping it in a solution of gelatine, and finally drying it, substantially as described.

[NOTE.—Here follow four other claims.]

(Specification, 3s.)

No. 27584.—19th April, 1910.—HERMAN WILLEM KNOTTEN-BELT, of Rue Defacqz 55, Brussels, Belgium, Manufacturer. Improvements in petroleum and shale oils.

Claims.—(1.) The improved process of treating petroleum and shale oils consisting in separating by distillation fractions suitable after treatment as substitutes for turpentine and for illuminating purposes, and in treating the lighter fraction with nitric oxide, and in treating the heavier fraction with a solution of ammonia carrying litmus, substantially as described, for the purpose of obtaining an approximately odourless light spirit and a higher percentage of illuminating-oil.

[NOTE.—Here follow six other claims.]

(Specification, 10s.)

No. 27604.—18th April, 1910.—ALEXANDER STORRIE, of Invercargill, New Zealand, Engineer and Implement-maker. Means of and apparatus for inspecting vacuum or air tubes in milking-machinery while working.

Extract from Specification.—I make a glass protected as in sight feed-glasses and somewhat like the protected glasses well known in milk-tubes, but place these in the tubes where it is essential that milk should not pass or get in to.

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

(Specification, 2s.)

No. 27636.—8th May, 1909.—FRANCOIS DALLEMAGNE, of Pasajes, Spain, Civil Engineer; and HENRI DALLEMAGNE, of Pasajes aforesaid, Civil Engineer. Improvements in ore-concentrating and -separating apparatus.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in France.]

Claims.—(1.) An apparatus of the type described in the principal patent, wherein the variable circular oscillating movement of the grooved platform can be varied as desired by means of eccentrics mounted on the transverse-shafts and connected together by cranks and a coupling-rod, one of these eccentrics being given an oscillating movement from the motor-shaft, the setting-angle of the first eccentric being adjustable with regard to the actuating-crank which allows of varying the form of movement communicated to the platform.

[NOTE.—Here follows one other claim.]

(Specification, 3s. 3d.)

No. 27711.—13th September, 1909.—WILLIAM ASTON, of 44 Charles Street, Footscray, Victoria, Australia, Furnaceman; and JOHN ASTON, of 44 Charles Street aforesaid, Clerk. Improvements in air-bridges for furnaces.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in Australia.]

Extract from Specification.—According to this invention the bars 1 of the air-bridge are inclined and formed on their faces with a dovetail channel 2 into which is removably fitted a correspondingly shaped firebrick facing 3, portion of which extends forwardly from said bars and projects laterally sufficiently to protect the sides of same.

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

(Specification, 4s. 6d.)

No. 27730.—12th May, 1910.—FRANCIS ARTHUR RICH, of Remuera, Auckland, New Zealand, Civil Engineer. An improved stove, oven, and hot-water heater for use with gaseous and vapourised fuels.

Claims.—(1.) The improved stove, oven, and water-heater combination consisting of the fire-box with water-pipes placed above, below, or beside the burners therein, deflector for deflecting heat into flue leading to other flue surrounding oven-chamber, and exhaust-outlet from said other flue, said fire-box and other flue around said oven-chamber having insulating-chambers around them respectively, said oven-chamber having door fitted to cover it and lids to cover said burners in the manner and for the purpose set forth, as described and illustrated. (2.) In the improved stove, oven, and

water-heater specified, the placing the oven in position to be connected by flues to the fire-box, and the arrangement of said flues to lead the heat from the burners in said fire-box to around the oven-chamber in the manner and for the purpose set forth as described and illustrated. (3.) The application, arrangement, and combination of the parts specified in the manner and for the purpose set forth, as described and illustrated.

(Specification, 4s.)

No. 27736.—13th May, 1910.—JAMES BRUCE, of New Plymouth, Taranaki, New Zealand, Coachsmith. An improvement in tire-shrinking machines.

Claim.—In a tire-shrinking machine, a vertical stud with a sliding arm constructed so as to hold the head of the bolt through the movable dog-clutch so as to prevent it from tilting. In a tire-shrinking machine, a vertical stud with a sliding arm constructed to hold the head of the bolt through the movable dog-clutch in whatever position the said dog-clutch may be placed, subject only to the number of holes in the beds of the dog-blocks, substantially as shown and described.

(Specification, 2s. 6d.)

No. 27737.—14th May, 1910.—THOMAS CHRISTOPHER DONNELLY, of Matakani, New Zealand, Mine-manager. Improved sluice-box.

Extract from Specification.—I use an ordinary rectangular sluice-box, rather deeper than usual, and furnish same with tray-like tables in tiers, each tier being shorter than the one below it, but preferably all coming to the lower or delivery end of the box.

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

(Specification, 2s. 3d.)

No. 27738.—14th May, 1910.—ROBERT THORN HAINES, of Foote Street, Elsternwick, Victoria, Australia, Scientific Expert. An improved method of and apparatus for economizing fuel in cooking and analogous heating operations.

Extract from Specification.—Consists briefly in consuming the fuel within a confined space or chamber and providing means for directing the heat-fumes to those points desired.

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

(Specification, 7s.)

No. 27740.—17th May, 1910.—ROBERT MACPHERSON, of 9 Exeter Road, Brondesbury, Middlesex, England, Engineer; and WILLIAM EDWIN HEYS, of Bushey Hall Road, Bushey, Hertford, England, Technologist. Improvements in and relating to the manufacture of soaps.

Claims.—(1.) The process of producing a detergent agent by acting upon vegetable material with a concentrated caustic-alkali lye, as described. (2.) The production of soap from the alkalinized vegetable material of claim 1 which consists in mixing the alkalinized vegetable material with the requisite fatty acid or fatty acids together with any water or further caustic-alkali lye which may be required. (3.) The process of producing soap which consists in first treating a vegetable material with concentrated caustic alkali and subsequently adding thereto and mixing therewith fatty acid or fatty acids together with any water or further caustic-alkali lye which may be required.

(Specification, 4s. 6d.)

No. 27744.—24th March, 1910.—VICTOR CHARLES JOHN NIGHTINGALL, of 191 Russell Street, Melbourne, Victoria, Australia, Electrical Engineer. Method of and composition for preventing the destruction of root and other crops by bacteriological and fungoid growths and parasites.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in Australia.]

Claims.—(1.) The described method of preventing the destruction of root and other crops by bacteriological and fungoid growths and parasites, consisting in applying a small portion of radio-active material, substantially as and for the purposes specified. . . . (3.) The use of a radio-active material combined with a phosphate fertiliser, substantially as and for the purposes specified.

[NOTE.—Here follow two other claims.]

(Specification, 2s. 6d.)

No. 27747.—14th May, 1910.—JOHN STUART-EDWARD, of Christchurch, New Zealand, Plasterer. Improved cultivating-impliment.

Claims.—(1.) In a machine of the class described, the use of a table upon which the furrow is fed-hinged at its forward end to the framework and supported at its rearward end by spring-controlled connections depending from the framework, substantially as described and for the purpose indicated. (2.) In a machine of the class described, the use of a rotating drum or drums to the periphery of which are secured projecting blocks of convenient width or blunt teeth, substantially as described and for the purpose indicated. (3.) The improved cultivating-impliment substantially as described and shown, and operating in the manner described.

(Specification, 3s.)

No. 27750.—18th May, 1910.—THOMAS EDWARDS, of Webster Street, Ballarat, Victoria, Australia, Metallurgist. Improvements in dust-preventing ore-dropping apparatus and the like for roasting-furnaces.

Claims.—(1.) In a dropping-apparatus for ore-roasting furnaces, a series of dust-preventing ore-saving chambers one below another, each having an inlet opening, a discharge opening not vertically below the inlet, an apertured rotatable carrier, and above the carrier a stop-plate or the like.

[NOTE.—Here follow seven other claims.]

(Specification, 3s.)

No. 27760.—18th May, 1910.—CHARLES WHITE, of 1006 Edmonston Avenue, Baltimore, Maryland, United States of America. Improvement in method of operating gas-engines, and apparatus therefor.

Extract from Specification.—My invention relates to gas-engines, and is characterized by the method of and means for heating and delivering the charges of oil, which may be of heavy character, in which the said oil is heated in single confined charges and then forced in its highly heated condition to the point of delivery by the incoming fresh charge and released from restraint in any suitable place outside the explosion-chamber so the flash into vapour will be mixed with the incoming air into the cylinder.

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

(Specification, 4s.)

No. 27763.—17th June, 1909.—SVEND HARTMANN, Manager of "The Rialto," Collins Street, Melbourne, Victoria, Australia. Improvements in or connected with butter churns and workers.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in Australia.]

Claims.—(1.) In butter churns or workers, in combination, means for facilitating the collection of the butter, consisting of a curved collector closed at one end and open at the other, a movable tray placed in said collector, and means for placing said tray in and out of such said collecting position, substantially as described.

[NOTE.—Here follow two other claims.]

(Specification, 3s.)

No. 27766.—24th May, 1910.—CHARLES ROBERT MAYO, of Alderman's House, Bishopsgate, London, England, Engineer. Method of and apparatus for the extraction of grease and similar matter from and for treating wool, skins, textile, and other materials.

Extract from Specification.—According to this invention the vacuum principle is applied to a plant comprising a separator or degreasing vessel arranged so as to allow the contents to decant or overflow into the upper end of a still or grease-collector, which latter is connected to a condenser; and for this purpose a suction or vacuum pump is connected to the condenser, and draws off from the separator still and condenser any air which is present at the commencement of operations, or which may accumulate in the plant or be admitted thereto from time to time, so that a partial or complete vacuum is constantly maintained by the pump. Of course, if

there be one or more series of separators, the last member of a series would overflow into the still. A further feature of the present invention, which may be regarded as subsidiary to the foregoing principal movement, consists in a particular arrangement of condenser in which the condensed solvent is passed down through or into a column of liquid, and the suction of the pump is applied to the space above the column. The pump may deliver into a scrubber, either directly in the known manner or indirectly, as, for instance, by interposing between the pump and the scrubber a compression or air vessel in which the increased pressure to which the small traces of solvent vapours are subjected overcomes the vapour-tension, and causes the vapours to condense in the form of dew, thereby facilitating the action of the scrubber.

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

(Specification, 13s. 6d.)

No. 27777.—25th May, 1910.—VACUUM SPECIALTY MANUFACTURING COMPANY, a corporation of Arizona, having its principal place of business at 238 Sacramento Street, San Francisco, California, United States of America, Manufacturers (assignees of George S. Bennett, of 238 Sacramento Street, San Francisco aforesaid, Mechanical Engineer). Improved vacuum cleaner.

Claims.—(1.) In a vacuum cleaner, a base-plate, a motor having a vertical shaft carried by said base-plate, a fan secured to said shaft above the motor, a casing having an opening immediately over the fan-shaft, said casing being closely adjacent to the fan, and a casing producing a chamber above the first casing, substantially as described.

[NOTE.—Here follow two other claims.]

(Specification, 4s.)

No. 27789.—29th May, 1909.—THOMAS LUND, of 86 McKay Street, Beverly, Massachusetts, United States of America, Foreman. Improvements in top lifts.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in the United States of America.]

Claims.—(1.) A moulded top lift having the fin formed during the moulding operation at the junction of its peripheral surface with its inner face projecting approximately in the plane of said face. (2.) A top lift condensed by pressure applied both laterally and vertically thereto, and having the fin formed during the condensing operation at the junction of its peripheral surface with its inner face projecting approximately in the plane of said face. (3.) A condensed top lift having the fin formed during the condensing operation at the junction of its peripheral surface with its inner face projecting laterally from said surface. (4.) A moulded top lift having the fin formed during the moulding operation at the junction of its peripheral surface with its inner face lying outside of the line of intersection of said peripheral surface and inner face.

(Specification, 4s. 6d.)

No. 27792.—27th May, 1910.—CLEMENTINA WALLACE WILLS, wife of Tracy Pengirven Wills, of Pahiatua, New Zealand, Chemist. An improved cattle and stock medicinal drench.

Claims.—(1.) The improved cattle and stock medicinal drench specified, composed of methyl, alcohol, aurantine, and oil of aniseed mixed in the proportions stated, for the purpose set forth as described.

[NOTE.—Here follows one other claim.]

(Specification, 1s. 6d.)

No. 27797.—30th May, 1910.—ALEXANDER JOHN ARBUCKLE, of 1 Main Street, Belgravia, near Johannesburg, Transvaal, Mechanical Engineer. Improvements relating to vats, tanks, or vessels for separating solids from liquids.

Claims.—(1.) In vats, tanks, or vessels for separating solids from liquids, the employment of a device comprising a spiral or helical blade, screw, or worm, and means for rotating the same within the mass of settled material in the separating vat, tank, or vessel, substantially as and for the purpose described.

[NOTE.—Here follow three other claims.]

(Specification, 6s. 6d.)

No. 27799.—30th May, 1910.—SAM MAIOHA, jun., of Tolaga Bay, Auckland, New Zealand, Inventor. Improved means for employment on board ship for indicating the position of sunken rocks, shallows, and other obstacles.

Claim.—Apparatus for the purpose indicated consisting of a beam or the like pivoted vertically upon the vessel, and projecting beneath the keel thereof, and connected at its upper end with alarm mechanism, substantially as specified.

(Specification, 1s. 6d.)

No. 27801.—28th May, 1910.—JOHN KING BULGER, of 510 Battery Street, San Francisco, California, United States of America, Marine Engineer. Improvements in lock-joint couplings.

Claims.—(1.) A lock-joint coupling comprising opposing complementary members between the meeting-faces of which the joint is established, each of said members having in its wall a recess which intersects the face of the member, the recess of one member having housed within it a pivoted cam-tongue, which is turnable from the exterior of the wall by means of a key applied to its pivot, in order to project said cam-tongue from the face of the member, and the recess of the other member having housed within it a fixed lug, which is so shaped and disposed as to receive behind it the engagement of the cam-tongue when the latter is projected, with the effect of drawing and locking the two members together, substantially as described.

[NOTE.—Here follows one other claim.]

(Specification, 4s.)

No. 27802.—28th May, 1910.—THE SAFETY TIRE COMPANY, a corporation organized and existing under the laws of the State of Maine, United States of America, Manufacturers and Dealers in Wheel-tires, having their principal office at 949 Broadway, New York, United States of America (assignees of George William Crawford, of Perth Amboy, New Jersey, United States of America, Innkeeper). Improvements in wheel-tires.

Claims.—(1.) A wheel-tire characterized by this: the shoe has an interior spring support comprising one or more circumferential spring members normally under tension, each of said spring members comprising a split ring which decreases in cross-section through substantial portions of the ring's length from an intermediate portion to or towards the ends for the purpose of distributing the strain on said ring.

[NOTE.—Here follow two other claims.]

(Specification, 3s. 6d.)

No. 27809.—31st May, 1910.—GEORGE FORSYTH, of Christchurch, New Zealand, Soap-manufacturer. Improved manufacture of soap.

Claim.—The soap comprising a mixture of caustic soda, borax, lemon-juice, benzine, water, ammonia, kerosene, and fat in the approximate proportions, substantially as set forth.

(Specification, 1s.)

No. 27811.—1st June, 1910.—EDGAR HALE, of Kaikuri, New Zealand, Station Hand. An improved combined implement for castrating, docking, spraying, and ear-marking lambs.

Claims.—(1.) In means for the purposes described, the combination with a fixed jaw and a sliding jaw mounted in a frame of a lever pivoted to the frame and connected at its end with the sliding jaw, a toothed quadrant on such lever, a handle-lever pivoted to the frame, and a toothed quadrant thereon gearing with the toothed quadrant on the lever, substantially as specified.

[NOTE.—Here follow four other claims.]

(Specification, 4s.)

No. 27812.—10th June, 1909.—GEORGE E. FORTESCUE AND SONS, LIMITED, of Arncliffe, New South Wales, Australia, Manufacturers (assignees of Albert John Fortescue, of Loftus Street, Arncliffe aforesaid, Manufacturer, and William Murray, of Wollongong Road, Arncliffe aforesaid, Mechanic). Improvements in the gearing of windmills.

[NOTE.—This is an application under section 98 of the Act, the date given being the official date of the application in Australia.]

Claims.—(1.) In windmill-gearing, two sprockets secured vertically to each other and connected by a link chain to which the crank-rod is secured, one sprocket being keyed to the wind-wheel spindle, and the other so fixed as to be capable of adjustment relatively to the first, substantially as described and as illustrated.

[NOTE.—Here follow four other claims.]

(Specification, 3s. 3d.)

Copies of drawings may be obtained at the uniform price of 1s. each. In exceptional cases this price may be increased at the discretion of the Office.

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

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

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

J. C. LEWIS,
Registrar.

Provisional Specifications accepted.

Patent Office,
Wellington, 15th June, 1910.

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

- No. 26089.—J. Arnaboldi, soldering-bolt.
- No. 27248.—C. Vowell, liquid level-indicator, &c.
- No. 27362.—W. Morton, hat-pin.
- No. 27404.—J. Scott, railway-brake.
- No. 27709.—J. Cook and H. Thompson, oven-slide holder.
- No. 27751.—E. N. Davies, water-meter, &c., protective coating.
- No. 27762.—G. E. Cluett, fencing-dropper.
- No. 27767.—J. Leonard, table-game apparatus.
- No. 27769.—D. Lundy, windmill-controlling means.
- No. 27774.—F. Whitley, excavating-machine.
- No. 27775.—J. Liggins, flax-scutcher.
- No. 27776.—H. J. Davidson, ladder.
- No. 27781.—J. P. Maloney, box wiring and stapling.
- No. 27782.—W. Buhmann, brooch-fastening.
- No. 27783.—E. G. Sander and H. F. Mander, corrugated iron.
- No. 27784.—United Shoe Machinery Company, feather-edging machine. (J. N. Busell.)
- No. 27794.—T. H. Davey, locomotive, &c., head-light.
- No. 27798.—F. J. S. Caverhill, sheep-shearing machine driving-gear.
- No. 27804.—O. R. Petersen, curtain-suspending.
- No. 27805.—R. E. Smallbone, turbine-motor.
- No. 27807.—R. Dunne, paper holding and delivering apparatus.
- No. 27808.—A. H. Crolly, broom.
- No. 27813.—W. H. Baxter, scaffold-bracket.

- No. 27815.—A. McLeod, water-heater.
- No. 27821.—J. Valentine, wheelbarrow-bush.
- No. 27823.—W. J. Burk, curtain-pole-lifting appliance.
- No. 27831.—W. B. Topp, spouting-bracket-forming machine.
- No. 27832.—W. W. Wakely, flax-stripper.
- No. 27836.—G. Craw, flax-treating apparatus.

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 28th May to the 10th June, 1910, inclusive:—

Nil.

Letters Patent on which Fees have been paid.

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

SECOND-TERM FEES.

- NO. 21116.—J. P. Johansson, centrifugal liquid-separator. 31st May.
- No. 21252.—L. Banks and W. Gray, paper box. 30th May.
- No. 21290.—W. Youlton, separating dirt from cotton waste. 9th June.
- No. 21324.—J. Nicholson, tramway-trolley brake. 8th June.
- No. 21354.—H. Coale, cork-manufacture. 9th June.
- No. 21364.—United Shoe Machinery Company, boot and shoe assembling machine. (O. Ashton.) 9th June.
- No. 21365.—United Shoe Machinery Company, pounding-up machine. (O. Ashton.) 9th June.
- No. 21626.—F. A. Lakin, securing fencing-wire to standards. 31st May.
- No. 25496.—E. Schwer, sheet-metal bath. 1st June.

THIRD-TERM FEES.

- No. 16221.—The New Zealand Acetylene Gas Lighting Company, Limited, acetylene generator. (R. L. H. Murray.) 6th June.
- No. 16409.—E. S. Koch, curtain-pole. 27th May.
- No. 16445.—G. T. Booth and W. Brew, plough-skeith-lubricating mechanism. 4th June.
- No. 16464.—F. W. Bursill, fencing-standard. 9th June.
- No. 16509.—United X-pedite Finishing Company, heel-finishing machine. (C. Pease.) 9th June.
- No. 16510.—United X-pedite Finishing Company, heel-finishing machine. (R. W. Thomson.) 9th June.
- No. 16580.—R. Paterson, plough-wheel actuating. 30th May.
- No. 17866.—W. E. Martin, hay, &c., delivering. 31st May.
- No. 25496.—E. Schwer, sheet-metal bath. 1st June.

Subsequent Proprietors of Letters Patent registered.

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

No. 20239.—Haworth William Bartram and George Herbert Hope, trading together as J. Bartram and Son, of 19 King Street, Melbourne, Victoria, Manufacturers and Importers of Dairy Apparatus and Supplies, &c. Milking-machine teat-cup. (A. Ridd.) 6th June, 1910.

Notice of Request to amend Specification.

Patent Office,
Wellington, 15th June, 1910.

REQUEST for leave to amend the undermentioned application for Letters Patent has been received, and is open to public inspection at this office. Any person may, at any time from one month from the date of this *Gazette*, give me notice in writing of opposition to the amendments. Such notice must set forth the particular grounds of objection, and be in duplicate. A fee of 10s. is payable thereon.

No. 27372.—T. J. Watson. Flexible harrow. (Advertised in Supplement to *New Zealand Gazette*, No. 27, of the 24th March, 1910.)

The nature of the proposed amendment is as follows:—
To include the following name and address in the documents: "James McIntyre, of Onehunga, Engineer."

The applicant states, "The reason for amendment is so as to include the name of James McIntyre in the complete specification and the letters patent to be granted, as the said James McIntyre has an interest in the invention. At the time the application was made Mr. McIntyre's name was overlooked."

J. C. LEWIS,
Registrar.

Requests for Correction of Clerical Errors in Applications for Letters Patent allowed.

No. 25746.—G. L. Pearson, well-borer. (Advertised in Supplement to *New Zealand Gazette*, No. 37, of the 21st April, 1900.)

No. 26603.—H. L. T. Blackwell, body-belt. (Advertised in Supplement to *New Zealand Gazette*, No. 22, of the 10th March, 1910.)

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 28th May to the 10th June, 1910, inclusive:—

- No. 26308.—A. H. Wright, advertisement-displaying.
- No. 26309.—W. F. Remus, aeroplane.
- No. 26311.—H. Harcastle, soap-bubble blowing.
- No. 26314.—J. Bate and H. F. McLeod, gold-extractor, &c.
- No. 26315.—C. J. Wilkinson, trolley-head controller.
- No. 26316.—E. Fisher, tie-fastening.
- No. 26317.—H. J. Spencer, heat-radiator.
- No. 26319.—J. E. Brydges, billiard-table.
- No. 26321.—R. Kibblewhite and J. Stempa, swingletree-mounting.
- No. 26325.—R. W. Swindley, bottle.
- No. 26328.—J. Ellis, game.
- No. 26329.—G. Walker and C. R. Bell, alcohol from flax waste.
- No. 26330.—J. T. Kibblewhite, wheelbarrow.
- No. 26331.—W. G. Hancox, floor-polishing appliance.
- No. 26332.—W. H. Fitchett, cycle handle-bar.
- No. 26336.—H. Irwin, grass-cutter.
- No. 26337.—H. Fisher, non-refillable bottle.
- No. 26338.—T. B. Longstaff, portable oven.
- No. 26339.—D. Armishaw, flying-machine.
- No. 26340.—S. McDonald, aeroplane.
- No. 26342.—L. G. Grace, milking-machine.
- No. 26343.—A. W. Reid, milking-machine pulsator.
- No. 26344.—F. F. Fisher, letter-carrier's hood.
- No. 26358.—A. H. Schmidt, wire-link-making machine.
- No. 26360.—W. H. Anscombe, wire-splice shield.
- No. 26361.—P. H. Pritchett, plough.
- No. 26363.—P. Ellis and W. Forester, flying-machine.
- No. 26365.—The Utility Manufacturing Company, Limited, mouldable articles from flax fibre. (W. F. Lietz.)
- No. 26369.—A. C. Denness, billiard-marking register.
- No. 26370.—P. L. Ritchie, toy.
- No. 26371.—R. Dunne and A. J. Park, mitre-box and clamp.
- No. 26374.—H. M. Douglas, loose-leaf account-book.
- No. 26375.—A. Gannaway, letter-copying press.
- No. 26379.—H. W. Jones, W. W. Jones, and E. Foote, lunch-box.
- No. 26380.—H. W. Jones, W. W. Jones, and E. Foote, cake-tin.
- No. 26381.—C. S. Munro, maintaining heat in feeding-bottle.
- No. 26383.—J. Mead, show-case fastener.
- No. 26385.—C. W. Clayton, boot back-seam stay.
- No. 26386.—W. T. Taylor, grab and bucket for coaling.
- No. 26388.—F. W. G. Levestam, rooting-nail.
- No. 26395.—W. T. Cooper, water-pipe collar joint.
- No. 26396.—J. S. Dawes, internal-combustion-engine valve.
- No. 26404.—W. Withell, flying-machine.
- No. 26406.—T. Telford, flax-stripper.
- No. 26412.—A. L. J. Tait, flax cutting and bundling machine.
- No. 26792.—J. T. Walker, perpetual motor.

Application for Letters Patent void.

APPLICATION for Letters Patent, with which complete specifications have been lodged, void owing to non-acceptance of such complete specifications, from the 28th May to the 10th June, 1910, inclusive:—
Nil.

Applications for Letters Patent lapsed.

APPLICATIONS for Letters Patent lapsed, owing to Letters Patent not being sealed, from the 28th May to the 10th June, 1910, inclusive:—

- No. 25295.—F. E. Ross, sanitary apparatus for milking-shed.
- No. 25298.—T. F. Long, thistle-exterminator.
- No. 25319.—G. E. White, R. P. Baker, and F. J. Jackson, liquid-measuring apparatus.
- No. 25332.—H. L. Mainland, spring-jaw trap attachment.
- No. 25335.—J. A. Brown, cock and tap.

Letters Patent void.

LIST of Letters Patent void through non-payment of renewal fees, and through expiry of term of fourteen years, from the 28th May to the 10th June, 1910, inclusive:—

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

- No. 20783.—G. G. Turri, carburetter. (H. M. Reichenbach.)
- No. 20790.—T. Gare, wheel.
- No. 20795.—E. Hill, harness-tug.
- No. 20800.—J. Macalister, turnip, &c., thinning attachment.
- No. 20803.—G. Kyme, transposing music.
- No. 20808.—C. Harris and C. Todd, fruit-tree protector.
- No. 20816.—C. Steffensen, crayfish-pot.
- No. 20822.—J. McGuire, cooking-oven.
- No. 20823.—International Steam Pump Company, pump. (C. H. Jaeger.)
- No. 20826.—R. B. Forsyth, ink-eradicator.
- No. 20828.—E. W. and G. H. Buckridge, electrical conduction.
- No. 20897.—Aktiebolaget Separator milking-machine. (F. Ljungström.)

THROUGH NON-PAYMENT OF THIRD-TERM FEE.

Nil.

THROUGH EXPIRY OF TERM.

Nil.

Design registered.

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

- No. 512.—Scott Bros., Limited, Christchurch, New Zealand, Ironfounders and Engineers. Class 1. 4th June, 1910.

Applications for Trade Marks filed.

LIST of applications for registration of Trade Marks filed from the 28th May to the 10th June, 1910, inclusive:—

- No. 8771.—28th May.—Oliver Chilled Plow Works, South Bend, U.S.A. Class 7.
- No. 8772.—28th May.—W. and G. Turnbull and Co., Wellington, N.Z. Class 42.
- No. 8773.—28th May.—Sharland and Co., Limited, Wellington, N.Z. Class 1.
- No. 8774.—30th May.—A. H. Wright and N. S. McNab, Dunedin, N.Z. Class 6.
- No. 8775.—30th May.—A. A. Corban, Henderson, N.Z. Class 47.
- No. 8776.—30th May.—Standard Oil Company of New York, Thompson and Bedford Department, New York, U.S.A., and elsewhere. Class 47.

- No. 8777.—31st May.—“Klingo” Manufacturing Company, Nelson, N.Z. Class 2.
 No. 8778.—31st May.—American Horticultural Distributing Company, Martinsburg, U.S.A. Class 2.
 No. 8779.—31st May.—Gramophone Company, Limited, London, Eng. Class 8.
 No. 8780.—1st June.—W. G. Breese, Onehunga, N.Z. Class 37.
 No. 8781.—1st June.—S. Monteith, Reefton, N.Z. Class 43.
 No. 8782.—1st June.—W. Spilhaus and Co., Cape Town, South Africa. Class 42.
 No. 8783.—2nd June.—R. I. Clark and Co. (Australasia), Limited, Sydney, N.S.W. Class 1.
 No. 8784.—2nd June.—F. Abraham and Co., London, England. Class 42.
 No. 8785.—2nd June.—A. Buchanan, Palmerston North, N.Z. Class 42.
 No. 8786.—4th June.—J. Granville, Wanganui, N.Z. Class 43.
 No. 8787.—6th June.—J. H. Clay, Wanganui, N.Z. Class 43.
 Nos. 8788 and 8789.—6th June.—Clement Talbot, Limited, London, England. Class 22.
 No. 8790.—7th June.—Neuchatel Asphalte Company, Limited, Wellington and elsewhere, N.Z. Class 17.
 No. 8791.—7th June.—J. Robertson, Inaha, N.Z. Class 37.
 No. 8792.—8th June.—Martins, Limited, London, England. Class 45.
 No. 8793.—9th June.—W. Ramsay, “McKellan and Ramsay,” Melbourne, Vic. Class 50.
 No. 8794.—9th June.—American Axe and Tool Company, Pittsburg, U.S.A. Class 12.
 No. 8795.—9th June.—R. I. Clark and Co (Australasia), Limited, Sydney, N.S.W. Class 1.
 No. 8796.—10th June.—Actien-Gesellschaft Für Mechanische Holzbearbeitung A. M. Luther, Reval, Russia. Class 50.
 No. 8797.—10th June.—W. E. Reynolds and Co., Dunedin, N.Z. Class 42.
 No. 8798.—10th June.—A. E. Kernot, Wellington, N.Z. Class 43.

Applications for Registration of Trade Marks.

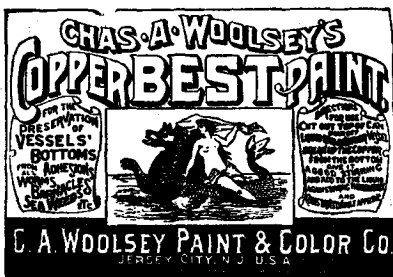
Patent Office,
Wellington, 15th June, 1910.

A PPLICATIONS 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 : 8537.

Date : 3rd February, 1910.

TRADE MARK



The essential particulars of the trade mark are as follow : The pictorial device of a Naiad riding a sea-horse, and the name “Chas. A. Woolsey” printed in the particular and distinctive manner shown ; and applicant company disclaims any right to the exclusive use of the added matter, except in so far as it consists of its name and address.

NAME.

C. A. WOOLSEY PAINT AND COLOR COMPANY, a corporation duly organized under the laws of the State of New Jersey, of 500 Grand Street, Jersey City, Hudson County, New Jersey, United States of America.

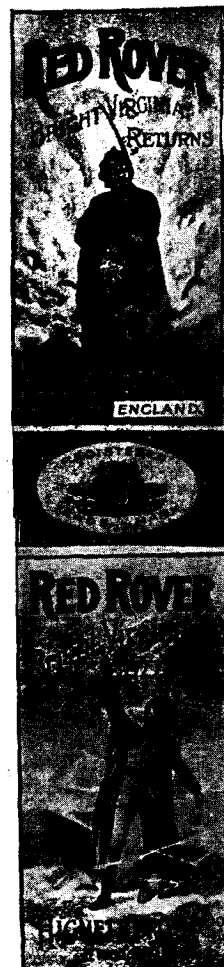
No. of class : 1.

Description of goods : Paints.

No. of application : 8669.

Date : 9th April, 1910.

TRADE MARK.



The essential particulars of this trade mark are the words “Red Rover,” the distinctive label including the mephistophelian device and the boars’ heads ; and any right to the exclusive use of the added matter is disclaimed.

NAME.

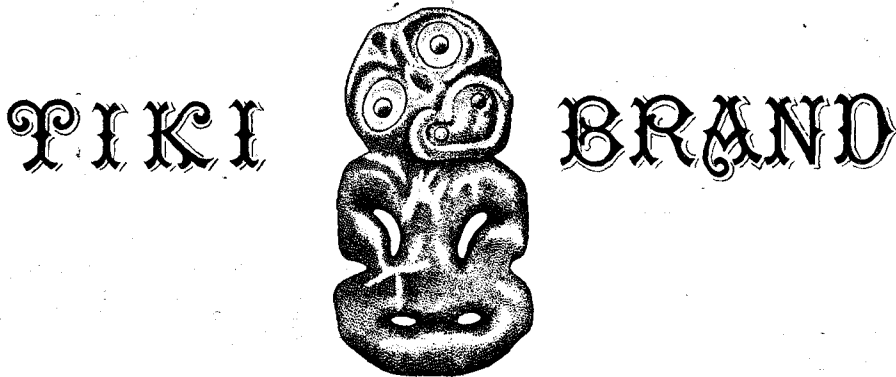
BRITISH-AMERICAN TOBACCO COMPANY, LIMITED, whose registered office is at 86 Strand, London W.C., England, Tobacco-manufacturers.

No. of class : 45.

Description of goods : Manufactured tobacco.

No. of application: 8732.
Date: 13th May, 1910.

TRADE MARK.



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

NAME.

SARGOOD, SON, AND EWEN, LIMITED, of Dunedin, in the Provincial District of Otago, and elsewhere in the Dominion of New Zealand, Warehousemen.

No. of class: 50.
Description of goods: Tobacco-pipes.

No. of application: 8744.
Date: 17th May, 1910.

TRADE MARK.

The word

KLINGO.

NAME.

THE "KLINGO" MANUFACTURING COMPANY, of Nelson, in the Dominion of New Zealand.

No. of class: 50.
Description of goods: Belt-dressing.

NAME.

GEORGE WILLIAM BENNETT, of 148 Hereford Street, Christchurch, in the Dominion of New Zealand, Manufacturers' Agent.

No. of class: 1.
Description of goods: All goods included in this class.

[NOTE.—Class 1 is for "Chemical substances used in manufactures, photography, or philosophical research; and anti-corrosives, such as acids, including vegetable acids, alkalies, artists' colours, pigments, mineral dyes."]

No. of application: 8753.
Date: 23rd May, 1910.

TRADE MARK.

BEE



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

No. of application: 8752.
Date: 21st May, 1910.

TRADE MARK.



The essential particulars of this trade mark are the distinctive device, with the initial letters "G.W." and the word "Paramol"; and any right to the exclusive use of the added matter, including the letters "G.W." used by themselves, is disclaimed.

NAME.

GEORGE WILLIAM BENNETT, of 148 Hereford Street, Christchurch, in the Dominion of New Zealand, Manufacturers' Agent.

No. of class: 39.

Description of goods: A dry mounting-tissue for the purpose of mounting pictures, photographs, and the like.

No. of application: 8756.

Date: 24th May, 1910.

TRADE MARK.

The word

LISTER.

The applicants claim that the said trade mark has been used by them and their predecessors in business in respect of the articles mentioned for about twenty-five years prior to 1st January, 1890.

NAME.

R. A. LISTER AND Co., LIMITED, of Dursley, Gloucestershire, England, Manufacturers.

No. of class: 7.

Description of goods: Cream-separators, engines included in this class, sheep-shear machinery and other agricultural and horticultural machinery, and parts of such machinery.

No. of application: 8761.

Date: 24th May, 1910.

TRADE MARK.



NAME.

BRISCOE AND Co., LIMITED, of Victoria and Harris Streets, Wellington, in the Dominion of New Zealand, Merchants.

No. of class: 20.

Description of goods: Cartridges.

No. of application: 8766.

Date: 25th May, 1910.

TRADE MARK.



The applicants claim that the said trade mark has been in use by them and their predecessors in business in respect of the articles mentioned for upwards of eight years prior to the 1st day of January, 1890.

NAME.

LOCKE, LANCASTER, AND W. W. AND R. JOHNSON AND SONS, LIMITED, of 94 Gracechurch Street, in the City of London, England, Manufacturers.

No. of class: 1.

Description of goods: White-lead, red-lead, and paints.

No. of application: 8772.

Date: 28th May, 1910.

TRADE MARK.

The word

BUFFALO.

NAME.

W. AND G. TURNBULL AND Co., of Customhouse Quay, Wellington, in the Dominion of New Zealand, Merchants.

No. of class: 42.

Description of goods: Cornflour.

No. of application: 8773.

Date: 28th May, 1910.

TRADE MARK.

The word

MOTAK.

NAME.

SHEARLAND AND Co., LIMITED, of Wellington, in the Dominion of New Zealand.

No. of class: 1.

Description of goods: Photographic chemicals.

No. of application : 8774.
Date : 30th May, 1910.

TRADE MARK.

The word

UNIVERSAL.

NAME.

ARTHUR HARRY WRIGHT and NORMAN SINCLAIR McNAB, of 3 Dowling Street, Dunedin, in the Dominion of New Zealand, Commercial Traveller and Electrical and Mechanical Engineer respectively.

No. of class : 6.

Description of goods : Machines for stamping, impressing, embossing, and other purposes, for marking and indicating on mail matter and documents.

No. of application : 8777.
Date : 31st May, 1910.

TRADE MARK.

The word

KLINGO.

NAME.

THE "KLINGO" MANUFACTURING COMPANY, of Nelson, in the Dominion of New Zealand.

No. of class : 2.

Description of goods : Fly-papers.

No. of application : 8780.
Date : 1st June, 1910.

TRADE MARK.

The word

CHROMELLOW.

NAME.

WILLIAM G. BREESE, of Onehunga, in the Dominion of New Zealand, Tanner.

No. of class : 37.

Description of goods : Manufactured leather goods.

No. of application : 8790.
Date : 7th June, 1910.

TRADE MARK.

The word

FEROTAR.

NAME.

THE NEUCHÂTEL ASPHALTE COMPANY, LIMITED, of 101 Customhouse Quay, Wellington, and elsewhere in the Dominion of New Zealand, Paving-contractors.

No. of class : 17.

Description of goods : Asphalte, and paving-materials of a like description.

No. of application : 8793.
Date : 9th June, 1910.

TRADE MARK.



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

NAME.

WILLIAM RAMSAY, trading as "McKellan & Ramsay," of 317 Collins Street, Melbourne, Victoria, Australia, Manufacturers.

No. of class : 50.

Description of goods : Boot-polishes.

No. of application : 8796.
Date : 10th June, 1910.

TRADE MARK.

LUTERMA

NAME.

ACTIEN-GESELLSCHAFT FÜR MECHANISCHE HOLZBEARBEITUNG A. M. LUTHER, of Tartarenstrasse 53, Reval, in the Empire of Russia, Manufacturers.

No. of class : 50.

Description of goods : Compound sheets or strips of wood built up of two or more plies of veneers cemented together, and articles made therefrom, such as barrels, boxes, casks, chair-seatings, and like articles.

J. C. LEWIS,
Registrar.

Trade Marks registered.

LIST of Trade Marks registered from the 28th May to the 10th June, 1910, inclusive :—
No. 6826/8350.—W. E. Goss. Class 18. (*Gazette* No. 27, of the 24th March, 1910.)
No. 6827/8591.—J. Nathan and Co., Limited. Class 42. (*Gazette* No. 27, of the 24th March, 1910.)
No. 6828/8609.—The Western Block Manufacturing Company. Class 10. (*Gazette* No. 27, of the 24th March, 1910.)
No. 6829/8016.—S. Parker. Class 5. (*Gazette* No. 45, of the 4th June, 1909.)
No. 6830/8564.—D. MacLeod and Co. Class 3. (*Gazette* No. 27, of the 24th March, 1910.)
No. 6831/8589.—The Bosch Magneto Company, Limited Class 6. (*Gazette* No. 27, of the 24th March, 1910.)

No. 6832/8539.—M. Dooley. Class 2. (*Gazette* No. 22, of the 10th March, 1910.)

No. 6833/8531.—M. Dooley. Class 3. (*Gazette* No. 22, of the 10th March, 1910.)

No. 6834/8611.—J. M. Rayner. Class 48. (*Gazette* No. 27, of the 24th March, 1910.)

No. 6835/8582.—Milne and Choyce, Limited. Class 47. (*Gazette* No. 27, of the 24th March, 1910.)

No. 6836/8029.—J. Kronheimer and Co. Class 50. (*Gazette* No. 78, of the 23rd September, 1909.)

No. 6837/8551.—Sharland and Co., Limited. Class 3. (*Gazette* No. 22, of the 10th March, 1910.)

No. 6838/8596.—W. Illingworth. Class 2. (*Gazette* No. 32, of the 7th April, 1910.)

Trade Mark Renewal Fees paid.

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

Nos. 1652/1329 and 1653/1330.—4th March, 1910.—H. T. Vanner and E. Prest, London, England. 31st May.

No. 1702/1553.—30th May, 1910.—Marshall's Chemical Company, Limited, Dunedin, New Zealand. 30th May.

No. 1733/1391.—2nd July, 1910.—Chemische Fabrik von Heyden Gesellschaft mit beschränkter Haftung, Radebeul, Germany. 9th June.

No. 1771/1415.—7th August, 1910.—J. Ratray and Son, Dunedin, New Zealand. 9th June.

No. 1776/1416.—10th August, 1910.—J. Ratray and Son, Dunedin, New Zealand. 9th June.

No. 1782/1421.—12th August, 1910.—Besson and Co., London, England. 9th June.

Subsequent Proprietors of Trade Mark registered.

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

NO. 6631/5464.—Charles John Francis Ratjen and James Emanuel Tristram, of Napier, New Zealand, Chemists, carrying on business in co-partnership under the style of "Ratjen and Tristram." (Broad and Tristram.) 8th June, 1910.

Trade Marks removed from the Register.

TRAD E Marks removed from the Register owing to the non-payment of the renewal fee, from the 28th May to the 10th June, 1910, inclusive:—

Nil.

Application for Trade Mark withdrawn.

THE following application for a Trade Mark has been withdrawn:—

No. 8728.—T. W. Forster. (Advertised in Supplement to *New Zealand Gazette*, No. 54, of the 2nd June, 1910.)

Applications for Trade Marks abandoned or refused.

LIST of applications for registration of Trade Marks abandoned or refused from the 6th April to the 31st May, 1910, inclusive:—

No. 7689.—19th November, 1909.—A. G. Parry, "Messenger Corset Company," of Christchurch, N.Z. Class 38.

No. 7715.—2nd December, 1908.—Bryant and May, Limited, of London, Eng. Class 47.

Nos. 7754, 7755.—22nd December, 1908.—Hoffmann Manufacturing Company, Limited, of London, Eng. Classes 6 and 13.

No. 7768.—30th December, 1908.—A. J. White, Colonial, Limited, of London, Eng. Class 3.

No. 7818.—3rd February, 1909.—J. Nathan and Co., Limited, of Wellington, N.Z. Class 45.

No. 7834.—13th February, 1909.—Browne and Morrison, of Christchurch, N.Z. Class 50.

No. 7856.—26th February, 1909.—F. College, of Auckland, N.Z. Class 38.

No. 7857.—26th February, 1909.—T. N. Blomfield, of Hastings, N.Z. Class 48.

No. 7867.—6th March, 1909.—G. B. Chignell, of Auckland, N.Z. Class 50.

No. 7868.—6th March, 1909.—A. Tyree and Co., Limited, of Christchurch, N.Z. Class 37.

No. 7892.—18th March, 1909.—J. Nathan and Co., of Wellington, N.Z. Class 42.

No. 7919.—26th March, 1909.—Murray, Roberts, and Co., of Wellington, N.Z. Class 42.

No. 7921.—30th March, 1909.—Fragra Tea Company, of Wellington, N.Z. Class 42.

No. 7928.—30th March, 1909.—Mason, Struthers, and Co., Limited, of Christchurch, N.Z. Class 47.

No. 7931.—3rd April, 1909.—Aitchison, Steans, and Co., of Christchurch, N.Z. Class 50.

No. 7959.—22nd April, 1909.—Scoltock and O'Gorman, of Westport, N.Z. Class 42.

No. 7960.—24th April, 1909.—R. Arthur, "Arthur and Dormer," of Auckland, N.Z. Class 6.

No. 7976.—10th May, 1909.—Wanganui Fresh Food and Ice Company, of Wanganui, N.Z. Class 42.

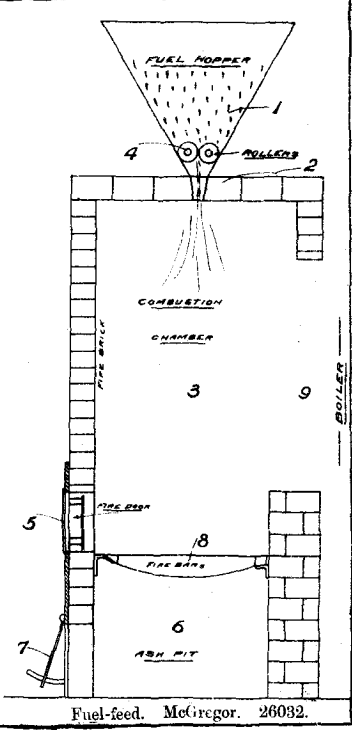
No. 7980.—13th May, 1909.—W. H. Newcombe, of Auckland, N.Z. Class 41.

No. 7995.—21st May, 1909.—Taiawhio Te Tau and Co., of Masterton, N.Z. Class 39.

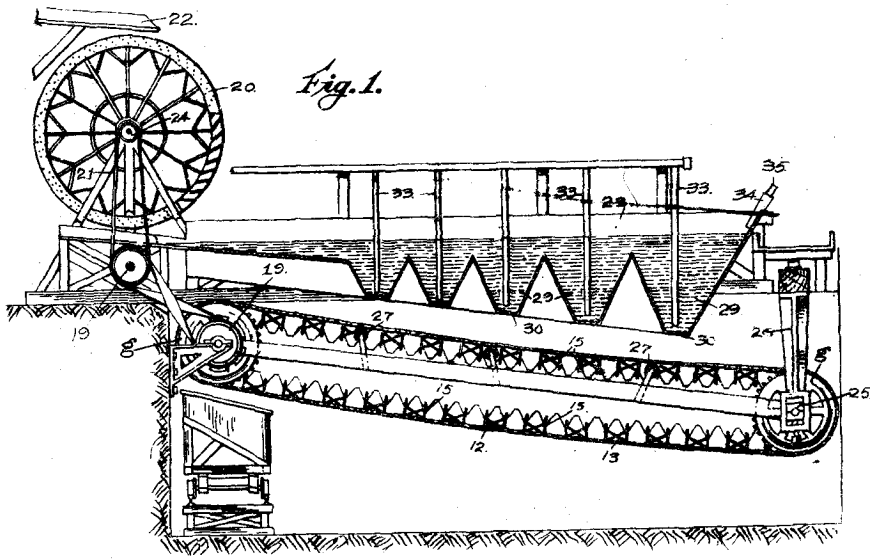
No. 8007.—25th May, 1909.—Ellis and Manton, of Wellington, N.Z. Class 42.

ILLUSTRATIONS OF INVENTIONS.

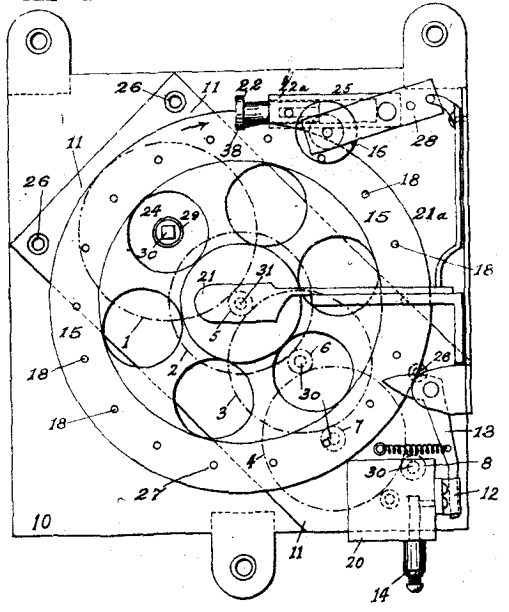
[These illustrations refer to the complete specifications accepted, and advertised in this Gazette.]



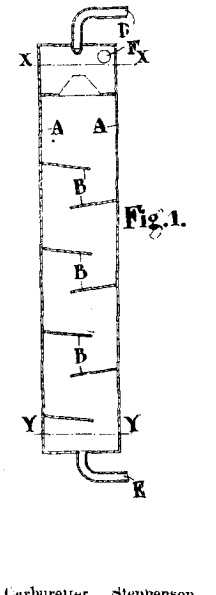
Fuel-feed. McGregor. 26032.



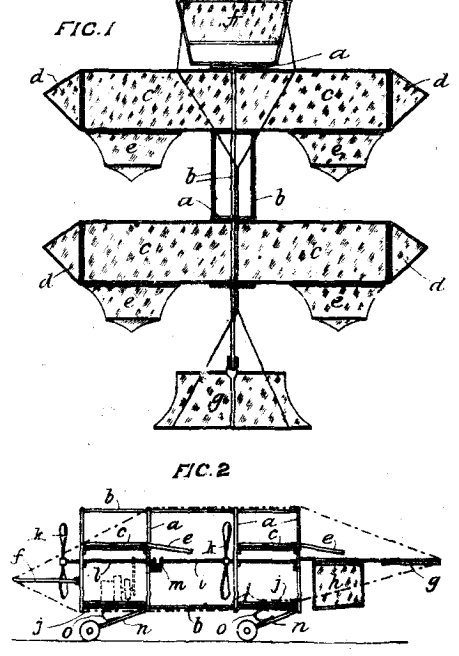
Metal-separator. Coleman. 26140.



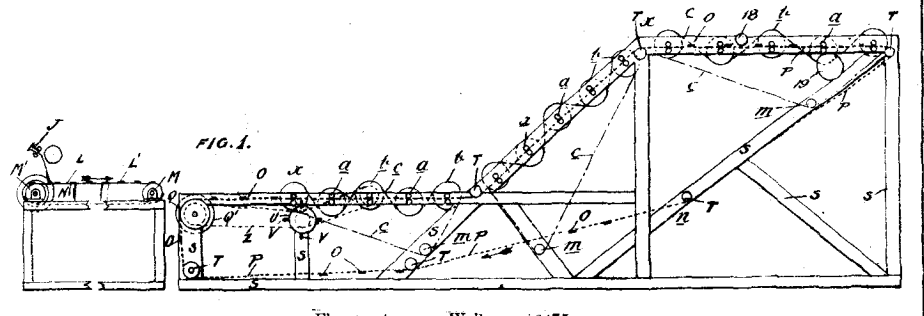
Fire-alarm. Elliott. 26264.



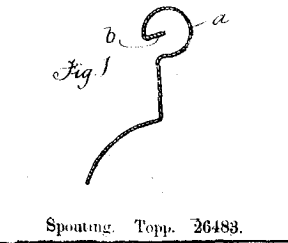
Carburettor. Stephenson. 26295.



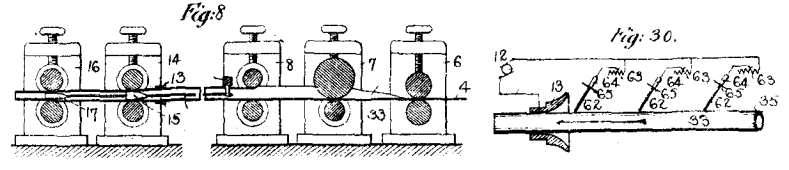
Aeroplane. Beach. 26981.



Flax-treatment. Walker. 26475.



Spouting Top. 26483.



Pipe. Ries. 27237.

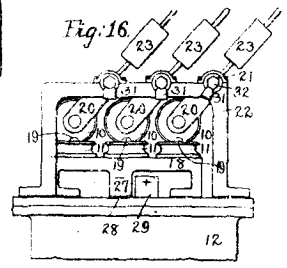
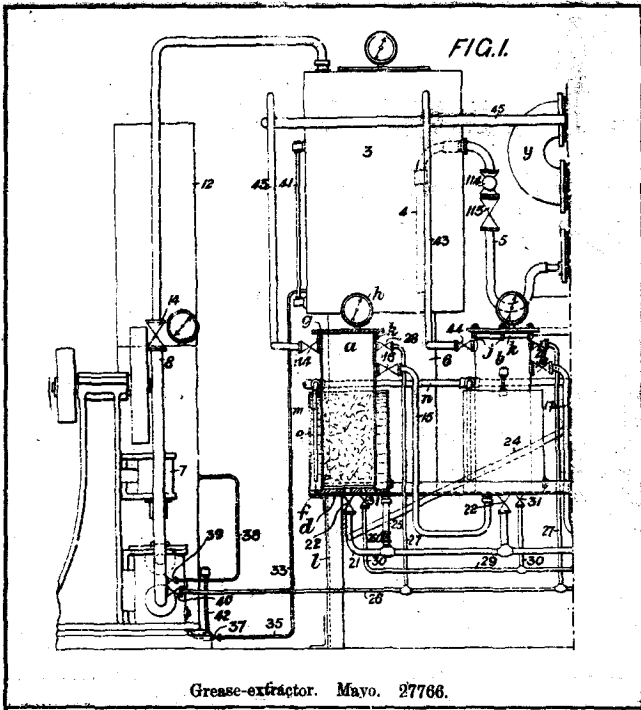
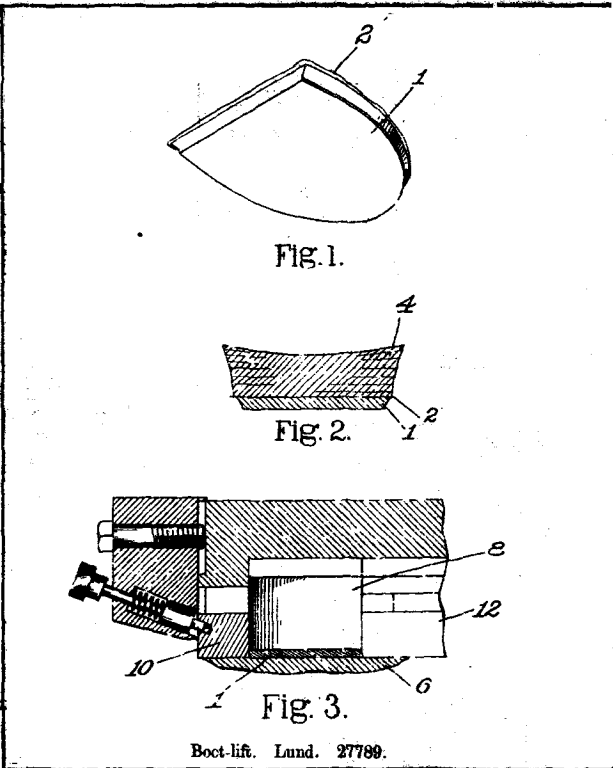


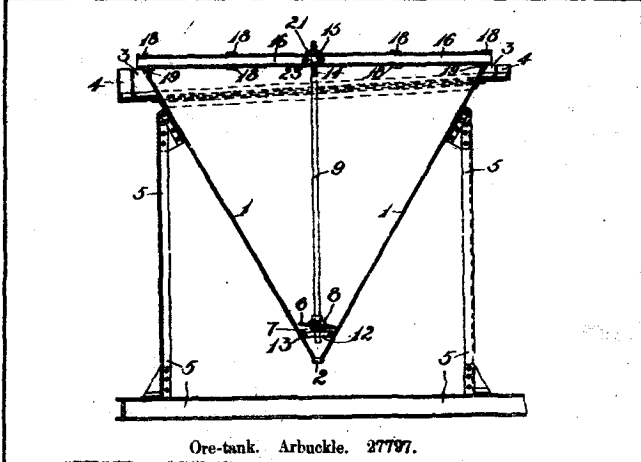
Fig. 16.



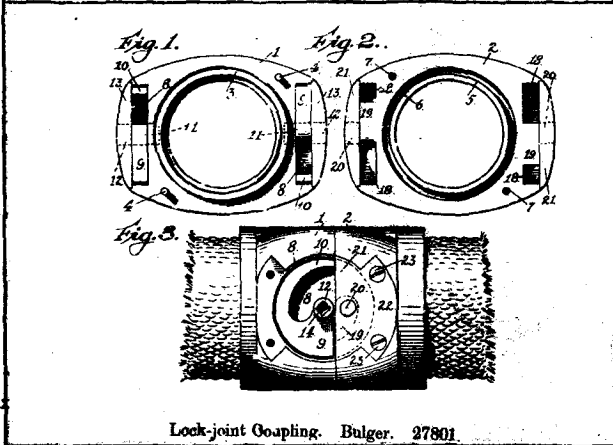
Grease-extractor. Mayo. 27766.



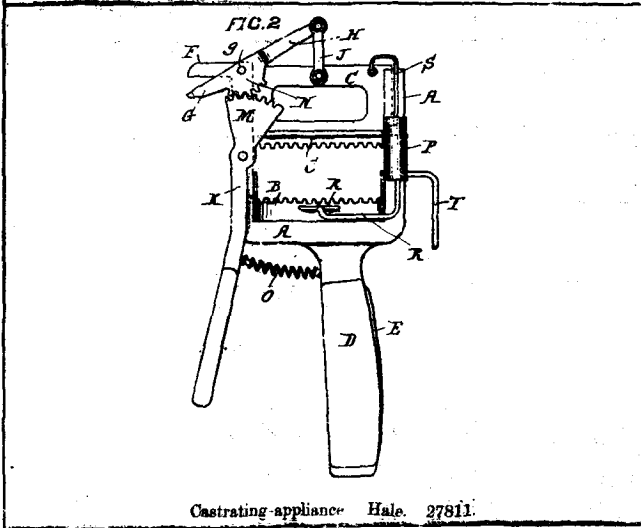
Boct-lift. Lund. 27789.



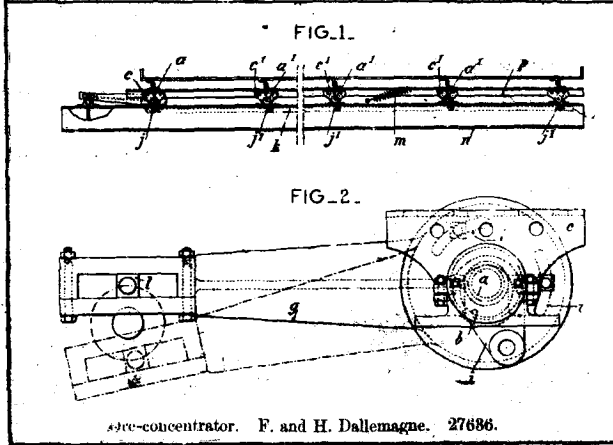
Ore-tank. Arbuckle. 27797.



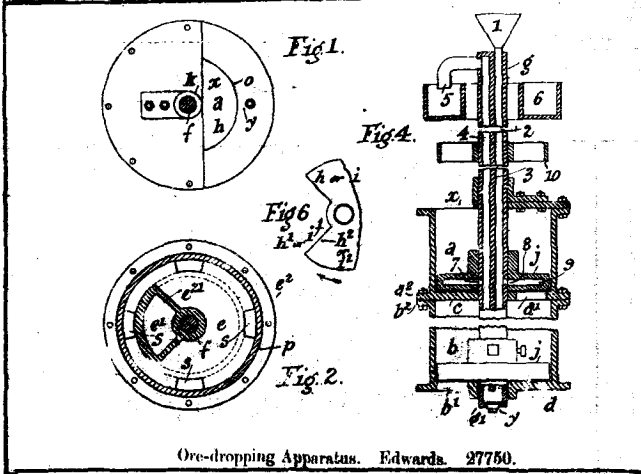
Lock-joint Coupling. Bulger. 27801.



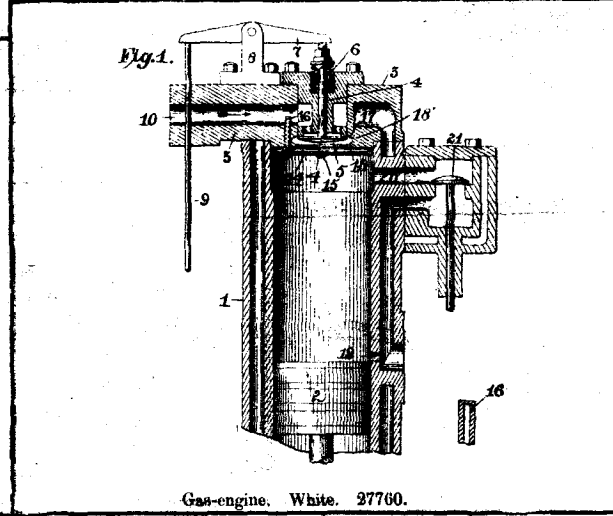
Castrating-appliance. Hale. 27811.



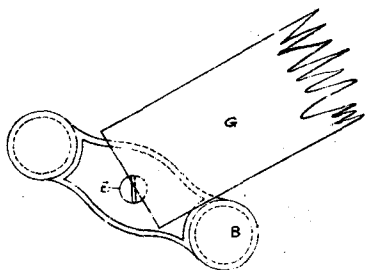
Ore-concentrator. F. and H. Dallemagne. 27686.



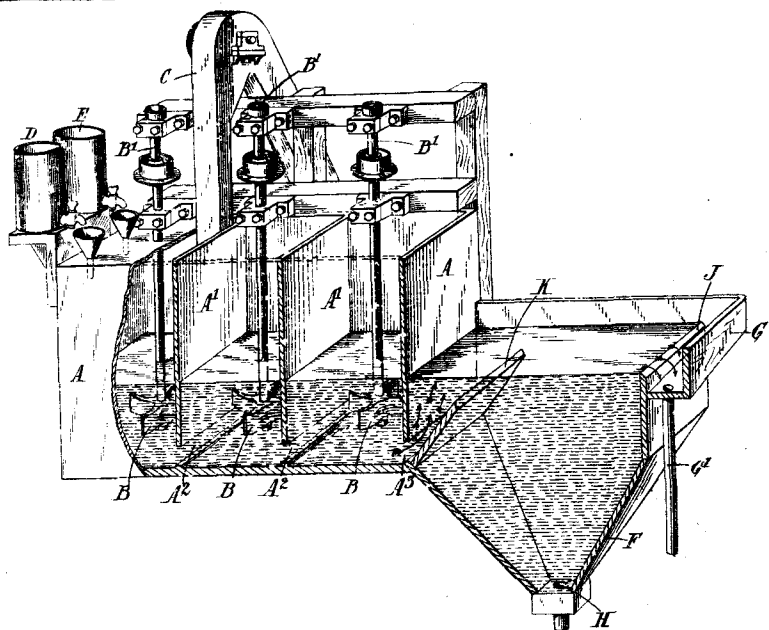
Ore-dropping Apparatus. Edwards. 27750.



Gas-engine. White. 27760.

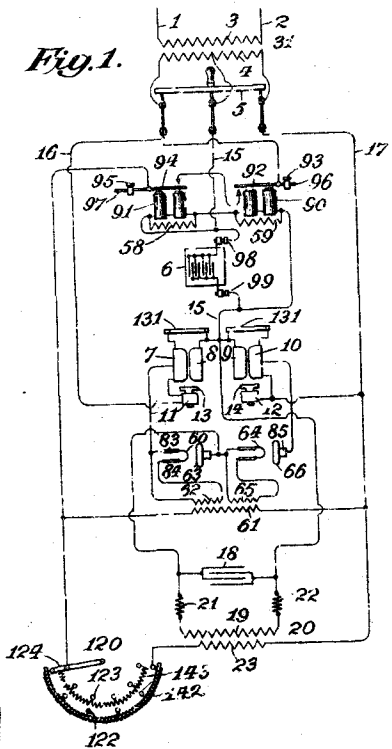


Door-holder. Bioletti. 26568.

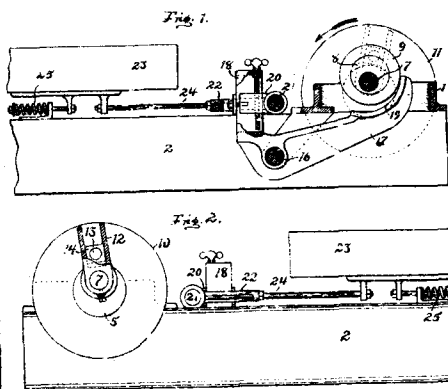


Ore-concentrator. Greenway, Sulman, and Higgins. 27077.

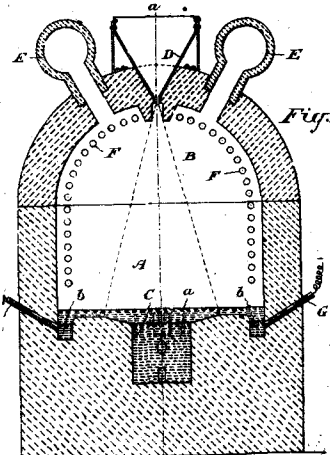
Fig. 1.



Electricity-rectifier. Murphy. 27155.



Ore-concentrator Deister. 27198.



Metals, Reducing. Haitain and Moffat. 27520.

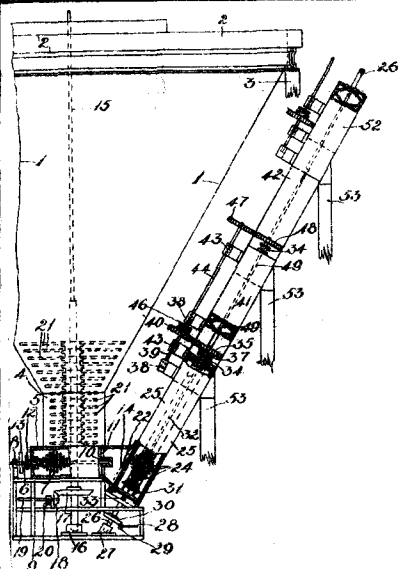


Fig. 1.

Ore-treatment. Arbnckle. 27524.

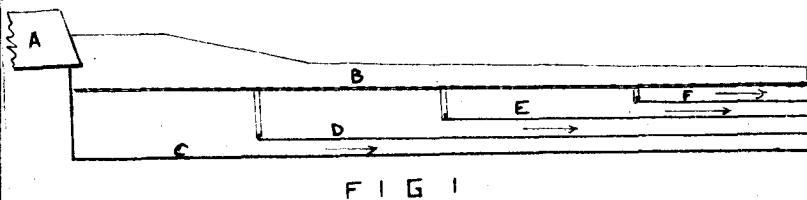
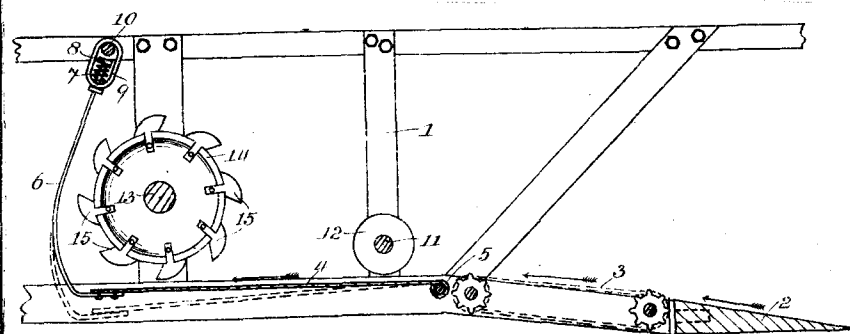
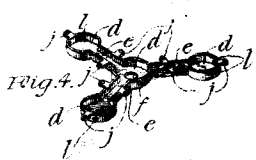


FIG 1

Sluice-box. Donnelly. 27737.



Cultivator. Stuart-Edward. 27747.



Fuel-economizer. Haines. 27798.

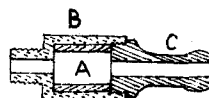
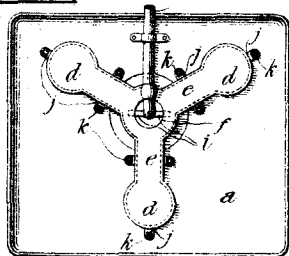


FIG 1

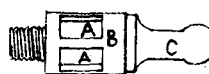
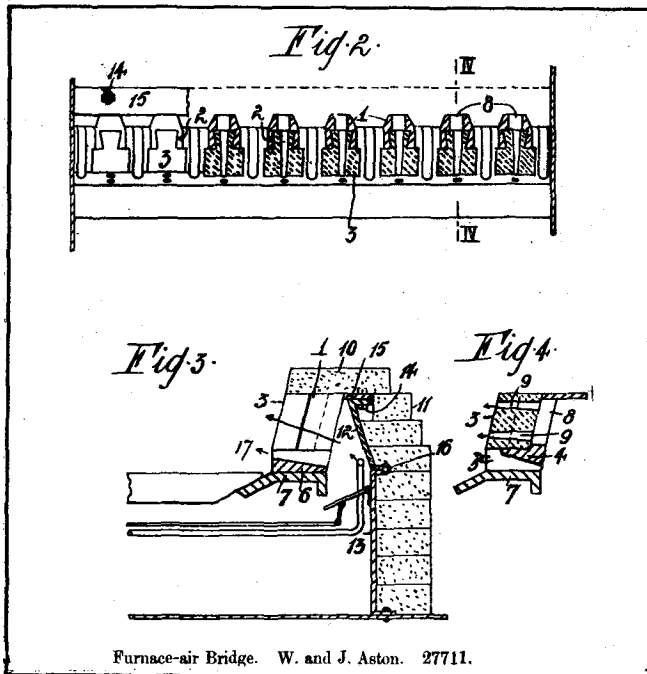


FIG 2

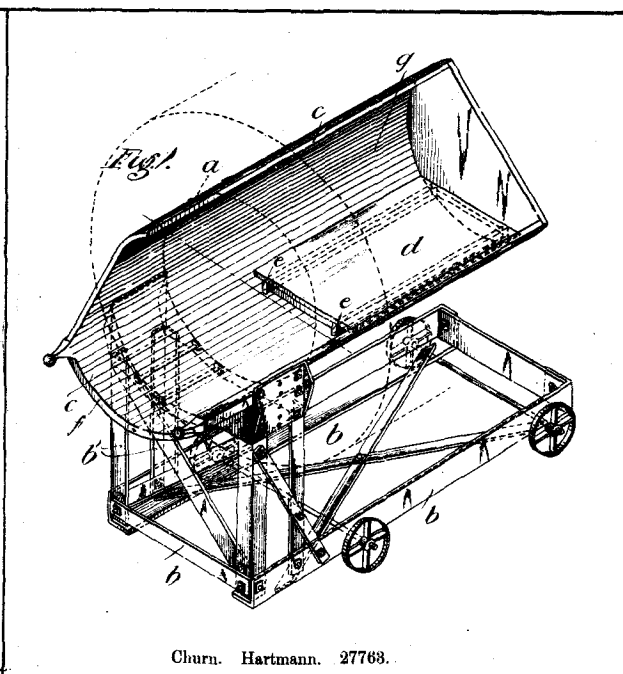


FIG 3

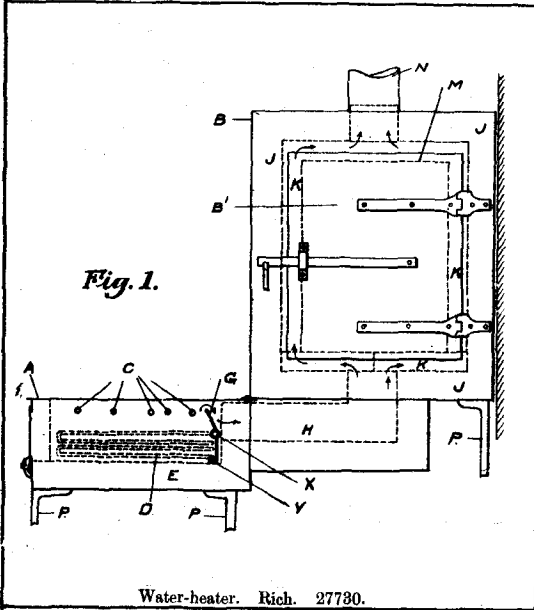
Milking-machine. Storrie. 27604.



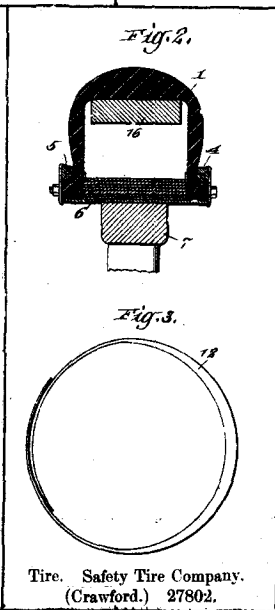
Furnace-air Bridge. W. and J. Aston. 27711.



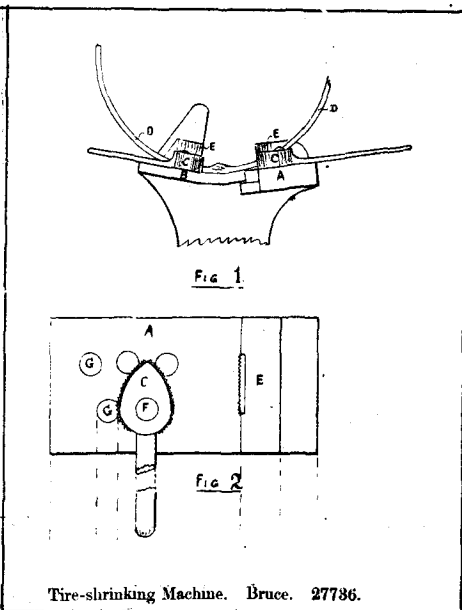
Churn. Hartmann. 27768.



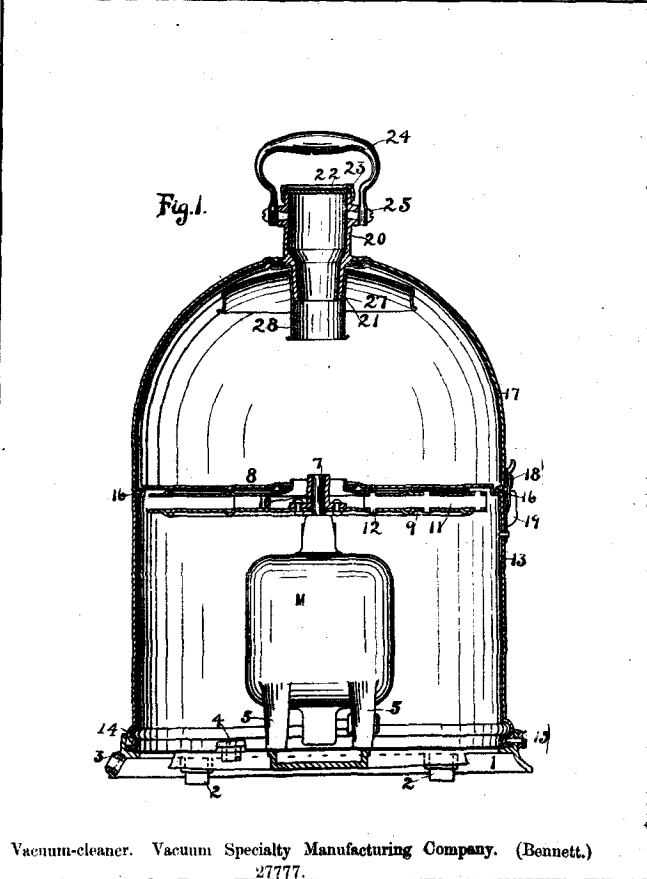
Water-heater. Rich. 27730.



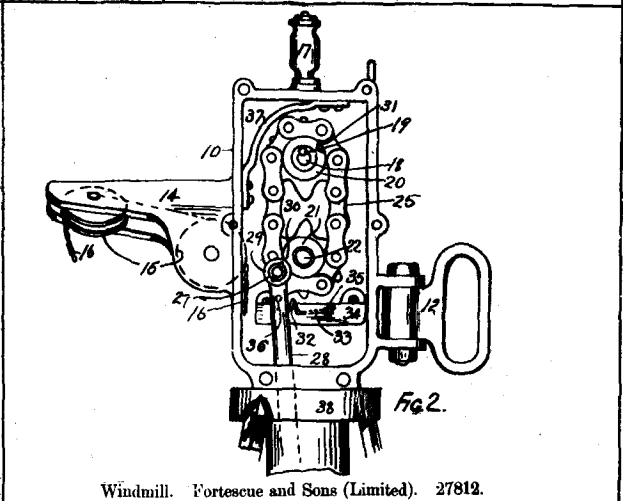
Tire. Safety Tire Company. (Crawford.) 27802.



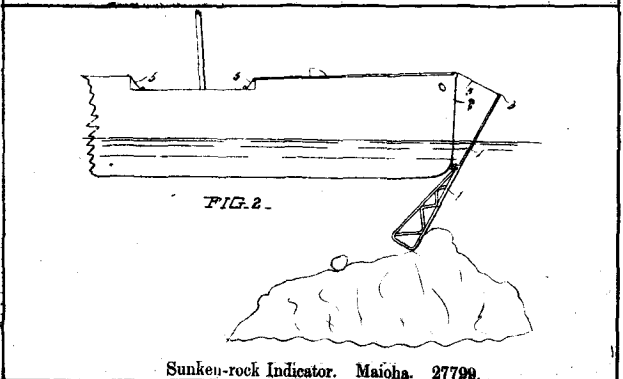
Tire-shrinking Machine. Bruce. 27786.



Vacuum-cleaner. Vacuum Specialty Manufacturing Company. (Bennett.) 27777.



Windmill. Fortescue and Sons (Limited). 27812.



Sunken-rock Indicator. Maioha. 27799.