

SUPPLEMENT

TO THE

EW ZEALAND GAZET

THURSDAY, JULY 20, 1899.

Published by Authority.

WELLINGTON, THURSDAY, JULY 20, 1899.

Patent Agent registered.

Patent Office, Wellington, 18th July, 1899.

T is hereby notified that

EDWARD HENRY FEATON of Gisborne, New Zealand, draughtsman, has been registered as a Patent Agent.

F. WALDEGRAVE, Registrar.

Notice of Acceptance of Complete Specifications.

Patent Office

Wellington, 18th July, 1899. Wellington, 18th July, 1899. COMPLETE specifications relating to the under-men-tioned 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 face of 10s, is payable thereon fee of 10s. is payable thereon.

No. 10662.—8th June, 1898.—QUENTIN MUIR, of Grantham, Hawera, New Zealand, Farmer. An improved method of and an apparatus for, ploughing couchy or other grass land.*

Claims.—(1.) The method of cutting up any sod by means of rotary cutters substantially as described, and as illus-trated by the drawings. (2.) The share D, for purpose in-dicated. (3.) The gratings E, hinged or rigid, for purpose indicated. (4.) The knives or cutters C, of different shapes, for the purpose indicated. (5.) The driving-wheel G, so fixed or upheld as to follow the inequalities of the ground. (Specification, 1s. 6d.; drawings, 8s.)

No. 11062.---13th October, 1898.-JOHN JAMES FREDERICK WALKER, Manufacturing Chemist, and JAMES SUTHERLAND, Boot Salesman, both of 183, Hereford Street, Christchurch, New Zealand. Improved apparatus for making toast.*

Glaim.—Improved apparatus for making toast, consisting of the metal diaphragm, to which is attached a wire grid, said grid

being formed with a handle by which the apparatus may be manipulated, substantially as and for the purposes described, and illustrated in the drawing.

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

No. 11637.—16th May, 1899.—JOHN STUART WHITE, of 31, Moray Place, Dunedin, New Zealand, Cement-works Manager. Improvements in funnels used in filling narrow-necked ves-sels and suchlike.

Claim.—In funnels for decanting or filling receptacles with liquids, the forming of the part of the funnel that sits on the neck of the vessel to be filled of other shape than such neck, for the purpose of allowing the confined air to escape outwards, substantially as described and explained. (Specification, 1s, 6d.) (Specification, 1s. 6d.)

No. 11673.—6th June, 1899.—HORACE FINLAY MALCOLM, of 691¹/₂, George Street, Sydney, New South Wales, Watch-maker. An improved mailbag-fastener.

Claims.—(1.) A secure mailbag-fastener, requiring only a paper seal or a seal made of other material of a similar thickness, to detect if it has been tampered with in transit, and being so arranged that the seal is protected from being accidentally injured or soiled, by means of a glass or other covering of a transparent nature, substantially as and for the purpose specified, and as illustrated in the drawings. (2.) The construction and arrangement of parts constituting an improved mailbag-fastener, said parts being constructed and arranged substantially as and for the purpose aforesaid, and as illustrated in the drawings. and as illustrated in the drawings. (Specification, 2s. 6d.; drawings, 5s. 6d.)

No. 11755.-29th June, 1899.-FREDERICK JAMES WATTY, Settler, and THOMAS GORDON, Blacksmith, both of Wanganui, New Zealand. An improved fire-escape ladder.

Claim.—A ladder made in sections and jointed with a stop-joint, as shown in Figs. 5, 6, 7, 8; a ladder made in sections, that will fold up, as shown in Figs. 3 and 4, and having stop-joints, and also having links to hold same at the top, one of which has a rung, kept off the sill by a strut at G, Fig. 1. (Specification 25 23 \cdot 4-----

(Specification, 2s. 3d.; drawings, 6s.)

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No. 11768.—5th July, 1899.—WILLIAM ABBAHAM SHORE, Dredgemaster, and JOHN WHITE, Solicitor, both of 2, Com-mercial Chambers, Manse Street, Dunedin, New Zealand. Improvements in apparatus for saving gold.

Claims.-(1.) In gold saving apparatus, a chain fixed upon a swivel so that it may revolve in the screen during the revoa swivel so that it may revolve in the screen during the revo-lution of the said screen, substantially as and for the pur-poses set forth. (2.) In gold-saving apparatus, in com-bination, a screen for breaking up or separating auriferous material, a distributing-box below the screen, a well fixed at the lower end of the distributing-box, a second box below the distributing-box, angle-pieces below the second box, and gold saving tables, substantially as and for the purposes set forth. (3.) In gold-saving apparatus, in combination, a revolving screen and chain for breaking up or separating auriferous material, an inclined distributing-box below the screen and holes in the bottom at each side, calice and coccoanut-matting upon the bottom of the distributing-box held in place by angle-irons, a well fixed at the lower end of the distributing-box and having sides which may be raised held in place by angle-irons, a well fixed at the lower end of the distributing-box and having sides which may be raised or lowered to regulate the discharge, and having a chute for discharge of surplus water, a second box below the distribut-ing-box having a perforated bottom and inclined in a direc-tion opposite to the distributing-box, angle-pieces below the second box provided with small holes, and gold saving tables covered with wire-netting, substantially as and for the purposes set forth. (4.) The improvements in gold-saving apparatus consisting of parts constructed, arranged, operat-ing, and combined substantially as and for the purposes set forth. forth.

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

No. 11773.—6th July, 1899.—JOHN GEORGE LEYNER, of Sheridan Building, Denver, Colorado, United States of America, Manufacturer of Rock-drilling Machinery. Rockdrilling engines.

-(1.) In a rock-drilling engine, the combination Claims.with the cylinder and the piston, of a front cylinder-head comprising an integral cylindrical member adapted to be threaded to the end of the said cylinder, an axial bore through said head, a counterbore at its inner end, a chuck-bearing ring rotably seated in said bore, and a drill-holding chuck ring rotably seated in said bore, and a drill-holding chuck rotably mounted in said chuck-ring, substantially as de-scribed. (2.) In a rock-drilling engine, the combination with the cylinder, the piston, and the cylinder-head, of a rotable chuck-ring, axially supported in said cylinder-head, and a drill-holding chuck supported by said chuck-ring, with a rock-entting drill bit loosely supported in said chuck, and having its shank extending into said chuck and adapted to be im-pinged by the reciprocative movement of the piston, sub-stantially as described. (3.) In a rock-drilling engine, the combination with the cylinder, the piston, and the front cylinder-head having an axial hore, of a counterbore adja-cent to its cylinder-end, a chuck-ring in the larger bore of said cylinder, a second counterbore intermediate of the other two counterbores, a steel-ring bearing against the outer end said cyinder, a second counterfort intermediate of the outer and of said ring, a spring between said ring and a shoulder formed in said chuck-ring, a drill-holding chuck rotably mounted in said chuck.ring, a drill-bit adapted to be held loosely by said-chuck, and a chuck-sleeve in said cylinder-head adapted to be manually turned to lock said drill-bit loosely and re-movably to said chuck, substantially as described. (4.) In a rock-drilling engine, the combination with the cylinder and the piston, of the front cylinder-head, the chuck-ring therein, the chuck supported by said chuck-ring; the chuck-sleeve sur-rounding the chuck and extending beyond the end of said cy-linder-head far enough to be turned by the hand of an operator, the spring and the spring-ring, substantially as described. (5.) In a rock-drilling engine, the combination with the cylinder and the piston, of the front cylinder-head, the chuck therein, the chuck-ring for supporting the same, a fluted nut in the end of said chuck, a hammer-bar forming an extension of the said ohuck, a drill-bit loosely supported by said chuck and extending into the reciprocating path of said piston, and means for manually locking and for unlocking said drill-bit to and from said chuck, substantially as de-scribed. (6.) In a rock-drilling engine, the combination with the cylinder and the piston, of the front cylinder-head, a drill-holding chuck rotably supported axially therein, a drill-bit operatively supported by said chuck, means for manually locking said drill-bit to and for unlocking it from said chuck, and means connected with the said piston for rotating or turning said chuck and drill-bit step by step, substantially as described. (7.) In a rock-drilling engine, the combination with the cylinder, the piston; and the front cylinder-head, of a drill-bit, adapted to be operatively held and supported loosely in said cylinder-head so as to be withdrawn there-from and inserted therein instantly at will, and adapted to extend into the reciprocal path of said pist two counterbores, a steel-ring bearing against the outer end of said ring, a spring between said ring and a shoulder formed

IAND GAZETTE. [No. 68 to its outting point to blow out from the hole being drilled the rock-cuttings, and means for mingling a supply of water with said actuating-fluid in said rock-cutting drill, sub-stantially as described. (16.) In a rock-drilling engine for expelling rock-cuttings from holes while drilling them, consisting of an operative drilling-engine, having rock-cutting drills arranged and adapted to extend into the cylinder of the drilling-engine and to be struck and actuated to out rock by the reciprocative movements of the piston im-pinging against its inner end, and in which the cutting-drills

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have an axial hole through them from end to end, and the piston's actuating-fluid is controllably supplied automatically to the axial hole in said rock-cutting drill, and means for leading a supply of water into the axial hole in said drill-bit and for mingling the air and water together and for dis-charging them in the bottom of holes in rock while drilling them, substantially as described. (17.) In a rock drilling engine, a rock-cutting drill arranged to be struck by the reciprocal movements of the piston, and provided with a collar, projection, or shoulder adjacent to its striking-end, adapted to form a locking, securing, and positive means for holding and rotating said drill-bit, and a passage axially through said cutting-drill, arranged to conduct a portion of the piston's actuating-fluid from the cylinder to the cut-ting-point of said rock-cutting drill, and a valve for con-trolling the supply of actuating-fluid flowing to the drill-bit, substantially as described. (18.) In a rock-drilling engine, a drill-bit arranged to be operatively struck upon its end by the reciprocal movements of the engine's piston, and containing a passage or conduct from said anginge a vinder to or adjacent to said drill-bit's cuttingupon its end by the reciprocal movements of the engine's piston, and containing a passage or conduit from said engine's cylinder to or adjacent to said drill-bit's cutting-point, and a water passage or tube through said drilling-engine to said passage in said drill-bit, means to provide a suitable water supply for said passage and said drill-bit, whereby a commingled supply of the cylinder's actuating-fluid and water is conveyed from said drilling-engine through said drill bit to its cutting-point and to the bottom of holes in rock while drilling them, substantially as de-scribed. (19.) In a rock-drilling engine, a suitable cylinder, a reciprocative piston, a suitable controlling-valve and suit-able feeding-mechanism and drill bits arranged to project into said cylinder into the reciprocal path of said piston, and arranged and adapted to be struck directly on their cylinder-invading ends by the reciprocal movements of said piston, into said cylinder into the reciprocal path of said piston, and arranged and adapted to be struck directly on their cylinder-invading ends by the reciprocal movements of said piston, and containing a passage or conduit for the actuating-fluid of said rock-drilling engine, opening into or communicating with said engine's cylinder, and extending through said drill-bits to or adjacent to their cutting-points, a water-convey-ing tube or conduit connecting with the said passage or conduit in said drill-bits, means to provide a suitable water-supply and to mingle with it a portion of the cylinder's actuating-fluid, substantially as described. (20.) In a rock-drilling engine, the combination with the cylinder and the piston, of a drill-bit, containing an axial hole from end to end, and extending into the reciprocal path of the piston and passage in said cylinder, open to a controlled supply of the engine's actuating-fluid, an axial bore through said drill-bit, and means to provide a suitable water-supply under pressure, substantially as described. (21.) In a rock-drilling engine, the-combination of the cylinder, the piston, the cylinder-heads, the chuck-sleeve, the chuck, and the hollow drill, with a liquid- or water-conveying tube through said piston, connected with said hollow drill, and a valve-controlled passage from said cylinder adapted to allow a suitable sup-ply of the cylinder's actuating-fluid to flow into said hollow drill, wherehy a combined stream of liquid and actuating-fluid a suitable water and fluor said hollow drill, with a convertion of the cylinder adapted to allow a suitable sup-ply of the cylinder's actuating-fluid to fluor into said hollow drill, wherehy a combined stream of liquid and actuatingby of the cylinder's actuating fluid to flow into said hollow drill, whereby a combined stream of liquid and actuating-fluid is caused to flow through said drill-bit to the bottom of dril, whereby a combined stream of liquid and actuating-fluid is caused to flow through said drill-bit to the bottom of holes while drilling them, and means, including a valve, for controlling the volume and pressure of said liquid and actuating-fluid stream, substantially as described. (22.) In a rock-drilling engine, the combination with the cylinder, of a piston having an extension hammer-bar, the front cylinder-head, the chuck-sleeve, the chuck, the chuck-ring, and the cupped washers and rings surrounding said ham-mer-bar, with a hollow drill-bit held loosely to said chuck-sleeve and chuck, and arranged to be instantly withdrawn from or inserted in said chuck-sleeve and chuck, and provided with means for defining its operative position in said chuck-sleeve and chuck and to said cylinder and piston, and with a fixed tube projecting from the rear end of said drill-bit, substantially as described. (23.) In a rock-drilling engine, the combination with the cylinder and the piston, of a hollow drill-bit projecting into said cylinder into the reciprocating path of the piston, and arranged to convey a portion of the piston's actuating-fluid to the bottom of holes while drilling them, with a water-tube projecting into said drill-bit for supplying water under pressure and mingling it with the catuating drill drill, and disphareing while drilling them, with a water-tube projecting into said drill-bit for supplying water under pressure and mingling it with the actuating fluid of said drill-bit, and discharging into the bottom of holes, while drilling them, a combined stream of actuating fluid and water, and means for prevent-ing the water from entering said cylinder, substantially as desoribed. (24.) In a rock-drilling engine for expelling rock-cuttings from holes while drilling them and for laying the rock-dust, a substantially combined mixed or commingled operative supply of any suitable watery liquid and an operative portion of the engine's actuating-fluid, discharged steadily or intermittently during operative rock-drilling, or at each stroke of the piston, or at suitable intervals, in any suitable operative form, such as a spray or jet or as a stream,

suitable operative form, such as a spray or jet or as a stream, inte the bottom of holes in rock while drilling them, and

means for preventing the water from entering said cylinder, substantially as described. (25.) In a rock-drilling engine, the combination with the cylinder and the piston, of the means for preventing the water from entering said cylinder, substantially as described. (25.) In a rock-drilling engine, the combination with the cylinder and the piston, of the front, the rear, and the supplementary cylinder-heads, a hollow drill-bit projecting into the path of the piston, and a water-inlet tube secured to said rear cylinder-head and pro-jecting through said piston into said drill-bit, and an air-passage leading from said cylinder to said drill-bit, substan-tially as described. (26.) In a rock-drilling engine, the com-bination with the piston, the cylinder, and the valve and chest, of the drill-bit, the supplementary cylinder-head, the rifle-bar, and the rear cylinder-head having a water-inlet tube secured thereto and projecting therefrom loosely through the axial centre of said rifle-bar and suid piston into the striking-end of said drill-bit, and an actuating-fluid passage leading from the valve-chest and cylinder to said drill-bit, substantially as described. (27.) In a rock-drilling engine, the combination with the drill-bit, the cylinder, the valve-chest and valve, the piston and the rifle-bar, axial holes through said rifle-bar and piston, a water-inlet tube projecting loosely through said axial holes into said drill-bit, adapted to conduct a stream of water under pressure through said tubes and drill-bit, a valve for controlling the flow of water into said cylinder, substantially as described. (28.) In a rock-drilling engine, the combina-tion of a piston having a rifle-bar, a drill-bit having an axial hole through it, a cylinder having a water-conveying tube projecting through said rifle-bar and piston into said drill-bit, a water-passage to said tube, a valve adjacent to said tube for controlling said passage, means for mingling said water with a portion of the engine's actuating-fluid, means for conducting said actuating-fluid and water in a combined stream to the bottom of holes in rock while drilling them, and means for preventing a harmful flow of water into said cylinder, su hammer bar extension, the rife-bar, and the rear cylinder-head having a water-inlet tube projecting through said rifle-bar and piston into said drill-bit, a passage around said tube from said cylinder into said drill-bit, and means, including cupped washers arranged to surround the piston's hammer-bar, for preventing a harmful flow of water into said cylinder, substantially as described. (30.) In a rock-drilling engine, the combination with the cylinder and the piston of a hollow drill-bit mounted to be turned step by said piston, a water-inlet tube projecting into said drill-bit, and a valve-controlled actuating-fluid passage from said cylinder into said drill-bit, substantially as described. (31.) In a rock-drilling engine, the combination with the cylinder, the piston, said drill-bit, substantially as described. (31.) In a rock-drilling engine, the combination with the cylinder, the piston, the cylinder-head, and the sleeve of a hollow drill-bit pro-jecting into said cylinder, means for conveying a portion of the cylinder's actuating-fluid to its cutting-point, of a con-duit adapted to convey a stream of water under pressure to said drill point, a rear cylinder-head, a passage in said cylinder-head for said water, a valve adapted to control the admission and volume of said water, and a water-inlet coupling adapted to connect with a source of water-supply on either side of said cylinder, substantially as described. (32.) In a rock-drilling engine, the combination with the piston having an axial hole, the drill-bit, the rifle-bar having an axial hole, and the back cylinder-head carrying a water-inlet tube projecting through the axial bores of said rifle-bar and piston, with a water-inlet coupling rotably mounted on said cylinder head, a passage from said coupling to said tube, and means, including a nut and thread, for packing said coupling against leakage, substantially as described. (33.) In a rock-drilling engine, the combination with the piston and the hollow drill-bit, of the back cylinder-head for the admittance of water under pressure to said tube and drill-bit, a valve controlling said passage and a suitable packing-device for said valve, substantially as described. (34.) In a rock-drilling engine, the combination of the hollow drill-bit, the piston, the rifle-bar, and the back cylinder-head, with a tube projecting locsely through bores in said rifle-bar and piston, and with a water-inlet coupling having a hose- or pipe-connecting nipple, and a passage from said coupling to tube projecting loosely through bores in said rifle-bar and piston, and with a water-inlet coupling having a hose- or pipe-connecting nipple, and a passage from said coupling to said tube, substantially as described. (35.) In a rock-drill-ing engine, the combination with the back cylinder-head, of the rotable water-coupling mounted thereon, a shoulder or abutment adjacent to said coupling, a washer between said coupling and said shoulder, a second washer on the opposite side of said coupling, and a nut threaded to said cylinder-head adapted to tighten said washers and coupling against leakage, substantially as described. (36.) In a rock-drilling engine, the combination of the supplementary cylinder-head, the rear cylinder-head secured thereto, the water-inlet tube, the rifle-bar revoluble on said tube, the piston arranged to

reciprocate and turn on said tube, and the hollow drill-bit surrounding the discharging-end of said tube, substantially as described. (37.) In a rock-drilling engine, the combina-tion with the back cylinder-head, of the water-inlet coupling rotatively mounted thereon, the washer at its sides, and the tightening-nut, substantially as described. (38.) In a rock-drilling engine, the combination with the cylinder, of the piston, the hollow drill-bit, the rifle-bar and the water-inlet tube projecting through said rifle-bar and the water-inlet tube projecting through said rifle-bar and the water-inlet point, with the back cylinder-head, the water-inlet passage therein, the water-inlet coupling, and the valve for con-trolling said water-inlet passage, substantially as described. (39.) In a rock-drilling engine, the combination of the cylin-der, the piston, the rifle-bar and back cylinder-head, the pawl trunnion supporting-ring, a water-inlet tube, a threaded hole in said cylinder and into said supplement-ary cylinder-head, a cap-screw in said threaded hole, and an oil - hole leading from said cap-screw hole to said pawls and rifle-bar, substantially as described. (40.) In a rock-drilling engine, the combination of a drill-bit having a passage to its cutting-point, a water- or liquid into said water-conduit or to said drill-bit, means for introducing a portion of the engine's actuating-fluid into said water from said drill-bit, and for delivering a combined and commingled spray, stream, or jet of actuating-fluid and water from said drilling engine, the combination of the cylinder head the piston with the front cylinder-head, having a drill-holding chuck rotably mounted therein, and arranged to be turned step by step by said piston, a drill-bit operatively supported by said chuck and arranged to conduct a portion of the engine's cylinder to its cutting-point, a chuck-sleeve surrounding said chuck, a collar on said chuck-dener from the engine's cylinder to its cutting-point, a surrounding the discharging-end of said tube, substantially as described. (37.) In a rock-drilling engine, the combinawater from the engine's cylinder to its cutting-point, a chuck-sleeve surrounding said chuck, a collar on said chuckchuck-sleeve surrounding said chuck, a collar on said chuck-sleeve, a ring mounted on said collar, a spring between said ring, and an abutment in said cylinder-head, and means whereby the ring may be moved by the collar of said chuck-sleeve to compress said spring, substantially as described. (42.) In a rock-drilling engine, the combination of the cylinder, the piston, and the front cylinder-head, a rock-cutting drill-bit having projections near the end of its shank, a drill-bit supporting-mechanism consisting of a chuck com-prising a cylindrical tube containing two oppositely arranged prising a cylindrical tube containing two oppositely arranged slots in its forward end, a fluted axial hole in its opposite end, a hammer bar extension to said piston, a fluted portion at its end fitting loosely in said fluted end of said chuck, projections on said chuck, means for rotably supporting said projections on said chuck, means for rotably supporting said chuck in said cylinder-head, a chuck-sleeve surrounding freely said chuck, stops on said chuck-sleeve arranged to engage said projections of said chuck, an end-flange ex-tending over the end of said chuck, and an oblong hole axially through the flanged end of said sleeve-chuck, adapted to fit loosely said drill-shank and lugs, substantially as de-scribed. (43.) In a rock-drilling engine, the combination of scribed. (43.) In a rock-drilling engine, the combination of the cylinder, the piston, the front and rear cylinder heads, the rifle-bar rotating-mechanism and the feed-mechanism, with a water-conveying tube projecting from the rear cylinder head through said rifle-bar and piston, a drill-holding chuck and chuck sleeve, revolubly mounted in said cylinder-head, an axial bore through said sleeve and chuck, a drill-bit opera-tively supported by said sleeve and chuck, and arranged to be operatively rotated step by step by said piston and chuck, and provided with a conduit or passage communi-cating with said cylinder and with the discharge-end of said water-conveying tube. and arranged and adapted to cating with said cylinder and with the discharge-end of said water-conveying tube, and arranged and adapted to convey a combined and commingled stream of water and actuating-fluid to the outting-point of said drill-bit, and having said drill-bit project into the reciprocal path of said piston and arranged to be impinged by said piston, a collet lossely mounted on said chuck-sleeve, a ring mounted on said collet, a spring arranged between said ring and an abutment in said collet. loosely mounted on said chuck-sleeve, a ring mounted on said collet, a spring arranged between said ring and an abutment in said cylinder-head, substantially as described. (44.) In a rock drilling engine, the combination of the cylinder and the front cylinder-head, of a piston in said cylinder having an extended bar adapted to strike on the shank-end of a rock-outting drill-bit and a series of flutes cut around said bar, a drill-holding chuck mounted loosely on the fluted portion of said bar, a rock-cutting drill-bit, means for romovably securing said drill-bit to said chuck, and means for rotating said piston and chuck and rock-cutting drill-bit, substantially as described. (45.) In a rock-drilling engine, the combination of the cylinder and the front cylinder-head with a rock-cutting drill-bit, a drill-holding chuck arranged to hold the drill loosely and in such a manner that it can be instantly inserted or removed from said chuck manually, a piston in said cylinder having a hammer bar extension adapted to strike the shank-end of said drill-bit, means for rotating said piston step by step, and means for rotating said drill-bit step by step from said piston, substantially as described. (46.) In a rock-drilling engine, the combination of the cylinder and the cylinder-

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different strengths of blows may be struck by the piston at the will of the operator, substantially as described. (55.) In a rock-drilling engine, the combination with the cylinder, the cylinder-head, and the piston, of a drill-bit arranged to be struck by said piston, and having lugs, shoulders, or pro-jections adjacent to its shank-end, a drill-holding chuck containing an axial bore adapted to receive the shank of said drill-bit, and lateral recesses radiating from said bore adapted to receive the lugs of said drill-bit; a sleeve rotably mounted on said chuck and extending beyond the end of said cylinder-head far enough to be grasped by the hand of an operator, and containing a flanged end extending down over the end of said chuck; an oblong aperture in the end of said chuck and concaring a nanged end extending down over the end of said chuck; an oblong aperture in the end of said chuck-sleeve arranged to admit the shank and lugs of said drill-shank to pass through said flange into said chuck when said chuck-sleeve is manually turned to bring its drill-shank-receiving aperture in line with the chuck's drill-shank-receiving aperture, and having said chuck-sleeve arranged to be partially rotated manually on said chuck after the drill-shank is admitted to the chuck to a position in which its drill-shank-receiving aperture will stand crosswise or at sub-stantially right angles to the drill-shank-receiving aperture of the chuck, and means including stops or abutting surfaces for locking said chuck-sleeve's drill-shank-receiving aperture in its crossed or right-angled position relative to the drill-receiving aperture of said chuck, substantially as described. (Specification, £2 6s.; drawings, £2 2s.)

No. 11779.—6th July, 1899.—EDWARD ROBERTS, of 31, Moray Place, Dunedin, New Zealand, Consulting Engineer. Improvements in dredging ladders.

Claims.—(1.) In a dredge, the combination of the ladder such as C and swinging-shaft such as D with a movable sliding bearing such as E, E, sliding on and bolted to a girder such as F, for the purpose of lengthening or shortening the ladder, and so increasing the efficiency of the dredge, substantially as described and explained, and as illustrated in the drawing. (2.) In a dredging-machine, the bearings of the ladder arranged to slide on a beam or girder, instead of or as well as the ladder itself, being telescopic, sub-stantially as described, and for the purposes set forth. (Specification, 1s. 6d.; drawings, 3s.)

No. 11780.—6th July, 1899.—WALTER ERNEST POTTS, of 31, Moray Place, Dunedin, New Zealand, Mechanical Engi-neer. Improved convertible frame for utilising tins.

Claim.-In an apparatus for utilising tins or boxes, the combination with such box or tin such as X with a double frame such as A, B, B', B², O, C¹, C², for holding long or short tins or boxes, and easily detachable as needed, substantially as described and as shown, and for the purposes specified.

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

No. 11782.—7th July, 1899.—EDWARD ROBERTS, of 31, Moray Place, Dunedin, New Zealand, Consulting Engineer. Improvements in elevator buckets for dredges.

Claims.—(1.) In elevator - buckets for dredges, the links and ends of the buckets formed as one piece, such as A and B, or B' or B², substantially as described, and shown in the drawings. (2.) In elevator buckets for dredges, the whole bucket-ends and links formed as one piece such as A, B⁸, substantially as described, and shown in the drawings. (Specification, 1s. 3d.; drawings, 3s.)

No. 11787.—13th July, 1899.—ROBERT LATTA, of 31, Moray Place, Dunedin, New Zealand, Contractor. Cycle parcel-rest and lamp-bracket.

Claim. — In a cycle parcel-rest and lamp-bracket, the combination with the handle-bar of a cycle of a com-bined parcel-rest and lamp-bracket, such as B, B¹, B², or B³, B¹, B², substantially as and for the purposes described and explained, and as illustrated in the drawing. (Specification, 1s. 3d.; drawings, 3s.)

No. 11788.—11th July, 1899.—FRANCIS WILLIAM PAYNE, of 31, Moray Place, Dunedin, New Zealand, Consulting Engineer. Improvements in dredging appliances.

Claim.—In dredging, the combination of picks work-ing before the suction inlet or before buckets, driven by cam-motion, for loosening the bottom before the dredging, substantially as described and explained, and for the purposes set forth, and as illustrated in the drawing. (Specification, 1s. 9d.; drawings, 5s. 6d.)

No. 11795.—15th July, 1899.—THOMAS EDWARD KIERNAN, of Turakina, New Zealand, Blacksmith. A trace-spreader.

Claim.—A spreader for trace-chains made of tubing, and having a solid stud at each end, and also two hinged loops that, when closed, act as a lock on the spreader and trace-chain; the same being substantially as described in the application.

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

F. WALDEGRAVE, Registrar.

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

NOTE.—The cost of transcribing the specification, and an estimate of the amount required for copying the drawings, have been inserted after the notice of each application. An order for a copy or copies should be accompanied by a post-The date of acceptance of each application is given after

the number.

Provisional Specifications.

Patent Office.

Patent Office, Wellington, 18th July, 1899. A PPLICATIONS for Letters Patent, with provisional specifications, have been accepted as under:--No. 11701.--7th June, 1899.--JAMES BEGG, of Assam, India, at present of Sunny Vale, Timaru, South Canterbury, New Zealand, Tea-planter. An improved rotary speed digger, scarifier and wooder

India, at present of Sunny vale, Timaru, South Canserbury, New Zealand, Tea-planter. An improved rotary speed digger, scarifier, and weeder.
No. 11739.—12th July, 1899.—ALFRED SMITH, of Waka-tipu, Otago, New Zealand, Miner. Improvements in the damming of rivers and creeks for facilitating hydraulic elevating for gold-mining purposes.
No. 11752.—27th June, 1899.— WALTER CHARLES MCALISTER, of Ferry Road, Linwood, Christchurch, New Zealand, Surveyor. An improved device for plotting traverses by co-ordinates.
No. 11753.—29th June, 1899.—Ewen McGREGOR, of Orangipongo, Mangaonoho, New Zealand, Sawmiller. Im-provement in planing-machinery.
No. 11756.—27th June, 1899.—DUNCAN MCFARLANE, of Invercargill, New Zealand, Hotelkeeper. A magnetic magnetite-sand and gold separator.
No. 11764.—3rd July, 1899.—WILLIAM WOOD, of 24, Manse Street, Dunedin, New Zealand, Confectioner. Improve-ments in gold-saving apparatus.
No. 11767.—3rd July, 1899.—JAMES ROBINSON, of 75, Here-ford Street, Christchurch, New Zealand, Horse-cover Maker. Improvements in horse-covers.

No. 11769.—5th July, 1899.—HENRY SYMES, of 2, Com-mercial Chambers, Manse Street, Dunedin, New Zealand,

Austioneer. Improvements in gold-saving apparatus. No. 11770. — 5th July, 1899. — JEREMIAH DRUMMEY, of Alexandra, Otago, New Zealand, Contractor. Improvements in dredges

in dredges. No. 11771.—5th July, 1899.—PHILIP GEORGE DODD, of 72, Bishopsgate Street, London, England, Merchant. Im-provements in or connected with animal-traps. No. 11774.—5th July, 1899.—WILLIAM HENRY TRENGBOVE, of 183, Hereford Street, Christchurch, New Zealand, Cycle-manufacturer. Improvements in gear-wheels. No. 11775.—7th July, 1899.—ARTHUR TREADWELL, of 46, Willis Street, Wellington, New Zealand, Printer. A new or improved type-engraving process

improved type-engraving process. No. 11776. — 8th July, 1899.—JOSEPH TEMPERLEY, of Marton, New Zealand, Saddler. Improvement in horse- or cow-covers.

cow-covers. No. 11778.—5th July, 1899.—JOSEPH LOWDEN, of Eglin-ton Road, Mornington, Dunedin, New Zealand, Engineer. Automatic coupling for railway-vehicles. No. 11781.—11th July, 1899.—ROBERT WESSLY MANNING, of Awatuna, near Eltham, Taranaki, New Zealand, Farmer. An improvement in hand sheep-shears. No. 11783.—13th July, 1899.—HERMAN HOUSE, Manufac-turer's Agent, ANDREW LOUGHREY, Solicitor, JOHN ALEX-ANDER HOLMES, Sheep-farmer, and RICHARD TOMLINE, Engineer, all of 183, Hereford Street, Christchurch, New Zealand. Improved method of and apparatus for steeping grain. grain. No.

No. 11786.—7th July, 1899.—EDWIN LATIMER CLARK, of Auckland, New Zealand, Contractor. An improved rotary

no. 11789.—12th July, 1899.—WILLIAM FREDERICK SOFER and FRANK MOORE DREWITT, both of Christchurch, New Zealand, Printers. Combined ash-pan and cinder-sieve.

No. 11790 .--- 18th July, 1899 .---WILLIAM LIND MITCHELL,

No. 11790.---18th July, 1899.-- WILLIAM LIND MITCHELL, of 24, Manse Street, Dunedin, New Zealand, Law Student. An improved bicycle-pedal and toe-clip. No. 11791.--13th July, 1899.-- DAVID HUTCHINSON, of 56, Oxford Chambers, 477, Bourke Street, Melbourne, Victoria, Farmer. An improved method and apparatus for sampling wilk and other liquide milk and other liquids. F. WALDEGRAVE.

Registrar.

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

been accepted. The date of acceptance of each application is given after

Letters Patent sealed.

IST of Letters Patent sense from vice of the sense in the sense is the IST of Letters Patent sealed from the 6th July, 1899,

actuating-

mechanism. No. 10450.—A. Robertson, horse-cover. No. 10467.—E. Smethurst and W. C. Greig, securing

fencing-wire to standard. No. 10483.-G. F. Newman, waterproofing-composition

for garments. No. 10484.←

for garments.
No. 10484.-P. E. Kliworth, Cambridge roller.
No. 10493.-J. Wright and J. W. Mitchell, hat-fastener.
No. 10525.-A. H. Cotton; mustard-pot.
No. 10619.-C. B. H. Austin, cycle-mechanism:
No. 10619.-P. Tressder and A. Jackson, cigarette.
No. 11270.-The Empirer Cash Register, Limited, cash-register (C. J. Fauvel and N. Collins).
No. 11356.-W. E. Hughes, alternating-current apparatus
(E. M. Tingley and M. W. Shallenberger).
No. 11465.-H. P. Davis and F. Conrad, electric motor.
No. 11466.-E. G. Lamme, conversion of electric currents.
No.: 11480.-E. Kreuser, ore-separator.

No. 11480.—E. Kreuser, ore separator. No. 11486.—F. W. Martino and F. Stubbs, treating ores

No. 11487.-Merrell-Soule Company, vegetable powder (W. B. Gere). No. 11491.--Clemens, Baron Von Bechtolsheim, milking.

apparatus.

No. 11492.—D. Buchanan, potato digger. No. 11498.—G. Westinghouse, controller for railway-

motor.

motor.
No. 11499.—H. A. Saltmarshe, mining apparatus.
No. 11500.—L. C. Auldjo, furnace.
No. 11512.—H. Dunlop, top-dressing for wood blocks.
No. 11515.—W. E. Hughes, fireplace-devices (the Incandescent Fire mantel and Stove Company—W. H. Harvey).
F. WALDEGRAVE, Begietrer.

Registrar.

Letters Patent on which Fees have been paid.

[Norm.-The dates are those of the payments.]

SECOND-TERM FEES.

N O. 7681.-G. Claydon and H. Wood, stoker and fuel-economizer for steam-boiler. 13th July, 1899. No. 7740 .- R. Brinsley and P. S. Bett, range. 10th July, 1899.

No. 7800.—H. L. Mainland, rabbit-trap. 13th July, 1899. No. 7851.—E. Waters, gate (E. H. R. Evans). 17th July,

No. 7884.—The Gold-extraction and Bromine-recovery Company, Limited, extracting gold (B. C. Hinman). 6th July, 1899.

THIRD-TERM FEE.

No. 5723.—The Automatic Sight-testing and Optical apply Company, Limited, sight-testing apparatus (B. Supply Company, Lim Green). 6th July, 1899. F. WALDEGRAVE,

Registrar.

Subsequent Proprietors of Letters Patent registered.

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

the date is that of registration.] N. 0. 9406.-Henry Edward Partridge and John Jesse Odlum, of Auckland, New Zealand, General Mer-chants, hair-wash. [W. T. Trudgeon.] 11th July, 1899. F. WALDEGRAVE,

Registrar.

Application for Letters Patent withdrawn.

Nov. Zealand Gasette, No. 28, of the 30th March, 1899. F. WALDEGRAVE,

Registrar.

Applications for Letters Patent lapsed.

IST: of applications for Letters Patent (with which is complete specifications have been lodged) apred from the 6th July, 1899, to the 18th July, 1899; inclusive No. 10267.—B. Dawson, blight specific. No. 10281.—J. Harrison; apparatus for suspending dispery;

\$0.-

No. 10286.—G. Hall, earmark: No. 10288.—T. Garland, pail-handle. No. 10289.—W. Congreve, stove. No. 10813.—F. J.: Leonard and G.B. Hutton, clother F. WALDEGRAVER. Region e-peg; Règi

Letters Patent void.

ISTED Letters Patent word, through nen-payment of fees from the 6th July; 1829; toothe 18the July; 1899, inclusive :-

THROUGH NON-PAYMENT OF SECOND-TERM: FEE.

No. 7538.—A. MaRae, sheep-dipping apparatus. No. 7540.—W. H. Gaze, milk-testing. No. 7543.— P. A. Hadley, pile. (L., B. Doe — R. B. Markie). No. 7545.— J. H. Kitson, sterilising milk. No. 7548.—S. Cossgrove, washing machine.

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

Nil: F. WALDEGRAVE,

Registrer.

Clerical Errors corrected.

THE request to correct clerical errors in Specification. No. 11537-W. F. Williams, tire and rimz-advertised in the Supplement to New Zealand Gazette, No. 44, of the 25th May, 1899, has been allowed. F. WALDEGRAVE,

Registrar.

Applications for Registration of Trade Marks.

Patent Office, Wellington, 18th July, 1899. A PPLICATIONS for registration of the following trade: marks have been received.³ Notice of opposition to the registration of any of these applications may be lodged at this office within two months of the data of this data. at this office within two months of the date of this Gacette. Such notice must be in duplicate, and accompanied by a fee of £1.

No. of application : 2681. Date: 12th June, 1899.

TRADE MARKA

OLINE.

NAME.

BOURKE NEWING, of Redan Road, Caulfield, ARTHUR Victoria, Oil- and Colour-man.

No. of class: 1.

The word

Description of goods: Aniline dyes and pigments.

JULY 20.]

THE NEW ZEALAND GAZETTE.

1355

No. of application : 2683. Date: 12th June, 1899.



NAME.

HAROLD WATTS HOWRTH, of corner King and Howe Streets, Dunedin, New Zealand, Manufacturer.

No. of class: 42.

Description of goods: Substances used as food, or as ingredients in food.

No. of application : 2696. Date: 4th July, 1899.



HOUSEHOLD DELIGHT.

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

NAME. ROBERT KERR, of 115, Princess Terrace, Newtown, Welington, New Zealand.

No. of class : 47. Description of goods : Washing-cream.

F. WALDEGRAVE, Registrar.

Trade Marks registered.

F. WALDEGRAVE, Registrar.

Subsequent Proprietors of Trade Mark registered.

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

NO. 2441/2062.—Henry Edward Partridge and John Jesse Odlum, of Auckland, New Zealand, General Merchants. [W. T. Trudgeon.] 11th July, 1899.

F. WALDEGRAVE, Registrar.

By Authority: JOHN MACKAY, Government Printer, Wellington.

No. of application : 2684. Date: 12th June, 1899.

TRADE MARK.



NAME. HABOLD WATTS HOWETH, of corner King and Howe Streets, Dunedin, New Zealand, Manufacturer.

No. of class: 42.

Description of goods: Substances used as food, or as ingredients in food.

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