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Notice of Acceptance of Complete Specifications.

Patent Office.

Wellington, 4th February, 1903. Weilington, 4th February, 1903. OMPLETE specifications relating to the undermen-accepted, and are open to public inspection at this office. Any person may, at any time within two months from the date of this *Gazette*, give me notice in writing of opposition to the grant of any such patent. Such notice must set forth the particular grounds of objection, and be in duplicate. A fee of 10s. is payable thereon.

No. 14297.—2nd December, 1901.—JAMES COTTERILL, of Wallace Street, Wellington, New Zealand, Settler, and CHARLES MCINTYRE, Jun., of Pirie Street, Wellington aforesaid, Engineer. Improved means for automatically indicating the approach of a train or the like.* Α

Claims.—(1.) In means for indicating the approach of a train or the like, a swinging arm pivoted to the side of the rail and adapted to be engaged by the flanges of the wheels passing over it, a spring connecting-piece beneath the arm with which the arm shall form contact when engaged by the wheel-flanges, wires from opposite poles of an electric battery connected respectively with the arm and spring piece, and a bell or other signal arranged in circuit with the battery wires, as set forth. (2.) A swinging pendant arm pivoted to the side of a rail and provided with springs for normally keeping it in an upright position, and with an upwardly extending part adapted to be engaged by the flanges of the wheels passing along the rails, in combination with a spring contact-piece secured below the arm and upon which the pendant portion of the arm will press when it is forced to one side, and with an electric alarm circuit connected to the swinging arm and contact-piece, as and for the purposes specified. (3.) The general arrangement, construction, and combination of parts in our improved means for automati-cally indicating the approach of a train or the like, as described and explained, as illustrated in the drawings, and for the several purposes set forth. (Specification, 4s.; drawings, 1s.)

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

No. 14778.—17th April, 1902.—WILLIAM MOORE, of Yarrow Street, Invercargill, New Zealand, French - polisher, and CHABLES THOMAS KIERNAN, of Ythan Street, Invercargill aforesaid, Upholsterer. An improved box for packing rabbits, fish, poultry, and the like.*

Claims.—(1.) An improved box for packing rabbits, fish, poultry, and the like, consisting of the parts arranged, com-bined, and operating substantially as and for the purposes set forth, and illustrated in the drawing. (2.) In apparatus for the purposes indicated, an inner crate comprising a light framework covered with reticular material, in combination with an outer cover therefor adapted to be placed over said crate and to be readily removed therefrom, substantially as and for the purposes set forth, and illustrated in the drawing. (3.) An improved box for packing rabbits, fish, poultry, and the like, comprising an inner portion consisting of sides and ends made of light wood covered all round with wire netting or other wire fabric, and fastened at the side, and a cover adapted to go over the same made of wood or metal, and consisting of top and bottom portions kept in position by

strips of hoop-iron, said cover being adapted to keep the inner portion in shape, and to be taken off when the articles contained in said inner portion have been frozen, substantially as specified and set forth.

No. 14809.—1st May, 1902.—WILLIAM ERNEST HUGHES, of Queen's Chambers, Wellington, New Zealand, Patent Agent (nominee of the Mechanical Cashier Syndicate, Limited, of 111-113, Copthall House, Copthall Avenue, London, England—assignees of Isaac Strange Dement, of 108, Carnegie Avenue, East Orange, New Jersey, United States of America, Foster John Hull, of 250, Thirteenth Street, Brooklyn, New York, United States of America aforesaid, and Arthur D. King, of 20, Broad Street, New York aforesaid, Mechanical Engineers). Improvements in mechanical cashiers, registers, and recorders.*

Claims. - (1.) The mechanical cashier substantially as shown in Figs. 1 to 15 inclusive of the drawings. (2.) In a machine of the character described, the combination of a series of cash wheels, controlling mechanism therefor com-prising oscillating controlling-levers, a purchase or numeral keyboard comprising in addition to the purchase or numeral keys special or department keys, selecting mechanism inter-mediate between said purchase or numeral keyboard and said controlling mechanism, locking mechanism for said purchase or numeral keys, mechanism controlled by said special or department keys for unlocking said locking mechanism, locking mechanism for said special or department keys, and mechanism controlled by said con-trolling-levers for unlocking said department-key-locking mechanism, substantially as set forth. (3.) In a machine of the character described, the combination of a purchase or numeral keyboard, a series of tumblers or push-bars con-trolled thereby, a yoke adapted to engage and restore the said bars to normal position, a main operating handle or said bars to normal position, a main operating handle or lever, and a resetting device controlled thereby for engaging (4.) In a machine of the character described, the combination with cash receptacles, controller devices therefor operated on deposit of money in said receptacles, purchase keyboard mechanism, permutating mechanism connected to the controller and purchase keyboard mechanisms to control the de-livery of change, and extra permutating-devices corresponding troller and purchase-keyboard mechanisms to control the de-livery of change, and extra permutating-devices corresponding to denominations which are not commensurate and acting to vary the operation of the permutating-devices for said denominations, substantially as described, a main operating-handle and mechanism controlled thereby for restoring said extra permutating-devices to normal position. (5.) In a machine of the character described, the combination with the purchase or numeral keyboard, the tumblers or push-bars, and the permutation devices of the main operating handle or lever and a resetting-bar operated thereby, and mechanism controlled by said resetting-bar for restoring to normal position the purchase or numeral keyboard, the tumblers or push-bars, and the permutation devices. (6.) In a machine of the character described, the combination with a purchase or numeral keyboard, push-bars or tumblers con-trolled thereby, special permutating-devices for such push-bars or tumblers including rotating to the wheels, shafts carrying said wheels, spring retaining-devices for holding said shafts in any predetermined position, a series of cash wheels and controlling-devices and said permutation de-vices, and intermediate between said main handle or lever and said permutation devices. (7.) In a machine of the character described, the combination of a purchase or numeral key-board, a series of tumblers or push-bars controlled thereby, a series of auxiliary tumblers certain of which hold the main tumblers or push-bars normally in elevated position, and described, the combination of a purchase of humeral key-board, a series of tumblers or push-bars controlled thereby, a series of auxiliary tumblers certain of which hold the main tumblers or push-bars normally in elevated position, and means controlled by the said keyboard for shifting the said auxiliary tumblers to depress said normally elevated push-bars or tumblers, substantially as set forth. (8.) The con-trolling and operating devices for a mechanical cashier, substantially as shown in Figs. 1^a to 8^a of the drawings. (9.) In a mechanical cashier, the combination with a cash wheel of a pivoted controller key provided with a yielding portion arranged to engage the cash wheel to move it in one direction of movement of the key but allow return move-ment of the key without operation of the cash wheel, and means for moving the cash wheel in the other direction in-dependently of the controller key. (10.) In a mechanical cashier, the combination with a cash wheel and a locking-catch engaging same, of a controller key arranged to engage the cash wheel to move same, and provided with a projection engaging the locking-catch and arranged to release the cash engaging the locking-catch and arranged to release the cash wheel to allow it to be moved by the controller, and to then release the catch to allow it to again lock the cash

wheel. (11.) In a mechanical cashier, the combination with a cash-receptacle wheel and its controller-means adapted to a cash-receptacle wheel and its controller-means adapted to move same in one direction, of an operating-means separate from said controller means for moving said wheel in reverse direction, comprising an operating-shaft, an operating-device loose on said shaft, clutching - means for clutching said operating-device to the shaft, and connecting mechanism whereby operation of said controller-means controls the said clutching-means. (12.) In a mechanical cashier, the com-bination with a plurality of cash-receptacle wheels, of an operating-shaft, and operating-devices carried thereby and adapted to engage the cash-receptacle wheels to move the same to ejecting nosition, and ejecting-devices engaged reoperating-shaft, and operating-tervises carried unreasy and adapted to engage the cash-receptacle wheels to move the same to ejecting position, and ejecting-devices engaged re-spectively and operated independently by such operating-devices. (13.) In a mechanical cashier, the combination with a cash-receptacle wheel and locking-means therefor, of an operating-shaft, a cam operated by said shaft, and means operated by said cam to release the aforesaid locking-means, and an operating-device also operated by said shaft and adapted to operate the cash receptacle. (14.) In a mechanical cashier, the combination with the cash receiving and de-livery mechanism, and the purchase-key mechanism, a rotat-able operating shaft, and means engaged positively by said shaft in its rotation to move the resetting means alternately in opposite directions. (15.) The dogging-means for the cash receptacles of mechanical cashiers substantially as shown in Figs. 1⁶ and 2⁶ of the drawings. (16.) In a mechanical cashier, the combination of a movable cash receptacle, controller-means for moving said receptacle (16.) In a mechanical cashier, the combination of a movine cash receptacle, controller-means for moving said receptacle in one direction, a locking-device for preventing this move-ment, operating-means for moving the receptacle in reverse direction, and a locking-device separate from the first-named locking-device for preventing such reverse movement. (17.) In locking-device for preventing such reverse movement. (17.) In a mechanical cashier, the combination of controlling-means, a dogging-device comprising a rack and a detent engaging therewith, one of said parts being connected to the con-trolling-means to prevent back movement thereof, and means operated on the completion of the controlling operation to release said dogging-means. (18.) The cash receptacles for mechanical cashiers substantially as shown in Figs. 1° to 3° of the drawings. (19.) A cash wheel for mechanical cashiers having two central disc portions, pocket elements attached to the disc portions and arranged in separated series for the purpose described. (20.) The recording mechanism substan-tially as shown in Figs. 1^d to 12^d. (21.) The combination with the recording type-bars having type arranged in a plurality of purpose described. (20.) The recording mechanism substan-tially as shown in Figs. 1^d to 12^d. (21.) The combination with the recording type-bars having type arranged in a plurality of sets on one side of all the bars, means on the other side of all the bars for operating same, and a plurality of printing-platens adapted to co-operate with the respective sets of type, of means for operating all said platens simultaneously. (22.) The combination with the recording type-bars having type arranged in a plurality of sets, and means for operating said bars, of a shaft, a plurality of printing-hammers carried thereby and co-operating with the respective sets of type on the bars, and means for operating said shaft, comprising a cam, an arm carried by said shaft and bearing on said cam, and a spring tending to move the printing-hammers to printing position against the action of the cam. (23.) The combination with the type-bars having type arranged in a plurality of sets on one side of all the bars in different longitudinal positions thereon, and a plurality of platen devices, of means for carrying a record strip in position to be printed upon by one set of type and platen devices, and means for inserting a slip in position to be printed upon by another set of type and platen devices. (24.) The combina-tion with the recording type-bars, means for operating said bars, and a printing-platen, of a sliding support adapted to receive and hold a slip and movable to bring said slip between the type-bars and the printing-platen. (25.) The combina-tion with the recording type devices and the printing-platen, means for inserting a slip in the machine to enable coupon portion thereof to be printed on by said type devices and platen, cutting-off means for severing said coupon portion, and gripper means adapted and arranged to take hold of said platen, cutting-off means for severing said coupon portion, and gripper means adapted and arranged to take hold of said (26.) The combination of the main gripping-lever, the subsidiary gripping-lever pivoted thereto, means for moving the main gripping-lever, and means operated by the movement of such main lever to cause the subsidiary lever to move relasuch main lever to cause the subsidiary lever to move rela-tively to the main lever to open and close the gripping-parts. (27.) The combination with the plurality of parallel type-bars, each having a plurality of sets of type, of a plurality of inking-rolls for the respective sets of type and a movable support for all of said rolls, said movable support being also adapted to receive a slip and to move same into position to be printed on by the type. (28.) The check-severing means substantially as shown in Figs. 1° to 3° of the drawings. (29.) In a machine of the character described, the combina-tion of a sliding support movable and guided in said machine, and adapted to receive a slip and insert same in the machine of a severing-device located in fixed relation to the machine and having operating connections with the carrier whereby and having operating connections with the carrier whereby movement of the carrier operates the severing-device to

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

sever the slip. (30.) The operating mechanism for cash registers and recorders substantially as shown in Figs. 1^f to 3f.

(Specification, £2 5s.; drawings, 9s.)

No. 14813.—1st May, 1902.—RICHARD DAVID SANDERS, of 5, Kidbrook Grove, Blackheath, Kent, England, Engineer. Improvements in the electro-deposition of metals for the manufacture of compound wire bars and the like, and in annastic therefor * apparatus therefor."

Claums. - (1.) In apparatus for the manufacture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank, and a cathode connection between the coil and said shaft, substantially as described. (2.) In apparatus for the manufacture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank, and a cathode connection between the coil and said shaft, and a partition located in said tank between the anode and said partition located in said tank between the con and said shart, and a partition located in said tank between the anode and said coil and extending from the top of the tank to a point adjacent to the bottom thereof, substantially as described. (3.) In apparatus for the manufacture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte liquid, of a shaft above the same provided with a coating of liquid, of a shaft above the same provided with a coating of insulating material for supporting and rotating the coil, an anode located within said tank, and a cathode connect on between the coil and said shaft, and a partition located in said tank between the anode and said coil and extending from the top of the tank to a point adjacent to the bottom thereof, a compartment located within the coil to be acted upon and provided with apertures for the circulation of the electrolyte, and an anode located in said compartment, sub-stantially as described. (4) In annaratus for the manufacelectrolyte, and an anode located in said compartment, sub-stantially as described. (4.) In apparatus for the manufac-ture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte, of a shaft above the same pro-vided with a smooth coating of insulating material, collars of insulating material to prevent the endwise movement of the coil and collars, of conducting material to engage the end of the coil or prode within a southed or insulating material to prevent the endwise movement of the coil and collars, of conducting material to engage the end of the coil, an anode within said tank, and a cathode connection with said conducting-collars, substantially as described. (5.) In apparatus for the manufacture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte, of a supporting-shaft of smaller diameter than the coil of mother wire for supporting said coil, said shaft being provided with a coating of insulating material, means for rotating said shaft, and coil-engaging devices on said shaft for retaining the coil against lateral movement, substantially as described. (6.) In apparatus for the manufacture of wire or the like by electro-deposition upon a mother-wire in the form of a coil, the combination with the tank for containing the electrolyte, of a supporting-shaft of smaller diameter than the coil of mother-wire for supporting said coil, said shaft being provided with a coating of insulating material, means for rotating said shaft, a cathode connection between said coil and said shaft, a cathode connection between said coil and said shaft, a cathode connection between said coil and said shaft, and struts secured to said coil for pre-venting the lateral movement of the convolutions thereof, substantially as described. (Specification, 6s. 6d.; drawings, 1s.)

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

No. 14822.—30th April, 1902.—ARTHUR OSCAR BRIDGMAN, of Dunedin, New Zealand, Brass-finisher. Improved matfastener.

Claims.—(1.) A mat-fastener consisting of two similar wire members, each in the shape of an archer's bow, provided with a loop at the middle point, eyes at the extremities adapted to be secured to a mat, and means in conjunction with said loop for securing said members to a floor, substan-tially as described. (2.) A mat-fastener consisting of two similar wire members, each provided with an eye at each end, a central loop, outwardly bent portions on each side of and extending from the legs of said loop, downwardly bent portions, and from thence outwardly bent portions extend-ing to the rear of said eyes, the whole adapted to be secured to a mat, and means for securing said loop to a floor, substana mat, and means for securing said loop to a floor, substantially as described.

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

No. 14867.--1st May, 1902.--ROBERT STUART REID, of Timaru, New Zealand, Surgeon. Improvements in or relating to windows.*

Claims.—(1.) In windows, a toothed rack secured to the face of the top sash and upon the edge thereof, a sliding spring bolt secured transversely within the sash-slides of the window-frame and provid d with a tooth normally engaging with the rack and with a pin projecting into the slide of the bottom sash, in combination with an in-clined surface upon the edge of the bottom sash that is adapted to engage with the bolt-pin so as to free its tooth from the rack when the sash is raised, and with means for locking the lower sash in its closed position, as set forth. (2.) In means for locking windows, a pendant pivoted hook secured within a cavity in the bottom end of the lower sash-frame, provided with an inclined surface on its lower end and with a spring bearing against its back side, an upright staple secured upon the window-frame with which the hook will engage when the sash is lowered, and a push upon scape secured upon the window-frame with which the hook will engage when the sash is lowered, and a push upon the inside face of the sash-'rame whereby when the lower sash is down the upper sash may be locked in any posi-tion from further opening, and when the lower sash is rai-ed the upper sash will be unlocked, as specified. (3.) In windows a tasthed well upon the inside face of the tar such rai-ed the upper sash will be unlocked, as specified. (3.) In windows, a toothed rack upon the inside face of the top sash, a transverse sliding spring bolt within the sash-slides of the frame provided with a tooth normally engaging with the rack and with a pin projecting into a vertical groove upon the edge of the bottom sash, and an inwardly inclined sur-face upon one side of the groove, in combination with a pivoted spring hook mounted in a cavity formed in the bottom and of the lower sash, such hook being provided with an inclined undersurface and adapted to engage with an upright staple secured to the frame of the window when the sash is down, and a push for freeing such hook from the staple, as specified. (4.) The general arrangement, con-struction, and combination of parts in my improvements in or relating to windows, as described and explained, as illus-trated in the drawings, and for the several purposes set forth. forth.

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

No. 14875. - 10th May, 1902. - WILLIAM CRAIG, of Symonds Street, Auckland, New Zealand, Plumber. An improved ventilator."

Claim. — In combination with my ventilator secured to me by letters patent No. 6011, the improvements thereto con-sisting of lining fixed to the underpart of the top cone, pro-jection at bottom of cone, wire netting fixed round opening between top and bottom cones, and outlet holes, all for the purposes set forth, substantially as described. (Specification, 1s. 6d.; drawings, 1s.)

No. 14891.—19th May, 1902.—DANIEL MURPHY, of Tua-marina, New Zealand, Flax-mill Manager. Improved plummer-block for flax-stripper or other machinery.*

Claims.—(1.) In a plummer-block, a horn and stop cast solid with the bed-plate of the machine, and a removable block fitted between the said horn and stop and secured by bolts to the bed-plate, substantially as set forth. (2.) In a plummer-block, in combination, a horn and stop cast solid with the bed-plate of the machine, a removable block fitted between the said horn and stop, screws threaded into the said horn and provided with lock-nuts and wearing-plate, substantia ly as set forth. (3.) The combination and ar-rangement of parts comprising my improvements in plum-mer-block, substantially as and for the purposes set forth and illustrated. and illustrated.

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

No. 14930.—29th May, 1902.—JOHN JAMES COLLINS and RICHARD DACRE HARMAN, both of 203, Gloucester Street, Christchurch, Canterbury, New Zealand, Architects. Com-position for rendering brick and stone work impervious to water.*

water." Claims. - (1.) A composition for rendering brick and stone work impervious to water, consisting of the ingredients mixed in proportions approximately set forth. (2.) A composition for rendering brick and stone work impervious to water, con-sisting of resin, paraffin wax, spirits of turpentine, and spirits of wine, mixed or combined in the manner set forth, and in proportions approximately as stated. (Specification, 1s.)

No. 14939. - 30th May, 1902. - THOMAS TAPLIN, of Danne-virke, Hawke's Bay, New Zealand, Surveyor. Improved apparatus in which compressed air is employed for raising liquids to a high level.*

Claims.—(1.) Apparatus for the purpose indicated consist-ing of the parts arranged, combined, and operating substan-tially as specified. (2.) The combination in apparatus for the purpose indicated of a liquid-container, an air-vessel, a pump for compressing air in 'said vessel, a pipe conveying liquid from the container to a cock through which is a port leading to a spout, a pipe connecting the air-vessel with said cock which has also a port leading to a pipe communicating with the top of the liquid-container, substantially as speci-fied. (3.) The combination in apparatus for the purpose indicated of a liquid-container, an air-vessel, a pump for compressing air in said vessel, and a dynamo for operating said pump, substantially as specified. (Specification, 2s. 3d.; drawings, 1s.)

No. 15395.—13th September 1902.—John Pope VIBERT, Architect, and GEORGE COZENS, Customs Agent, both of High Street, Auckland, New Zealand. An improved closet.

Claim.—A closet or privy provided with separate recep-tacles for solids and liquids, and with a lip, funnel, spout, or saddle whereby the liquids and solids are separated at their sources and deposited in the receptacles intended for each, and a filter in the pan provided for liquids, substantially as and for the purposes specified, and as described and illus-trated trated.

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

No. 15425.--19th September, 1902.-WILLIAM AGUSTINE Collins, of Wanganui, New Zealand, Settler. An improved appliance for holding the legs of cows.*

Claims. -(1.) In means for holding the legs of cows, a hollow sleeve, to one end of which is attached a pair of arms-adapted to encircle the cow's leg, one of such arms being rigidly fixed to the sleeve, while the other arm is hinged thereto and is provided with an extension-piece beyond the hinge at an angle to the arm, in combination with a rod passing longitudinally through the sleeve and provided with a cross-head on its end encircling the arms, and means whereby such rod may be reciprocated within the sleeve so as to open and close the hinged arm and be locked in any position, as specified. (2.) In means for holding the legs of cows, a pair of arms attached to one end of a hollow sleeve, one of such arms being immovable, while the other is hinged and formed with an extension-piece beyond the hinge, a cross-head provided with apertures through which the arms are passed, such cross-head being secured to one end of a rod passing longitudinally through the sleeve, and means upon the other end of the rod whereby it may be reciprocated within the sleeve, in combination with a bowed spring at-tached to the outer surface of the sleeve and provided with a pin upon its inner face, indentations or teeth across the face if the allow a color. Claims. -(1.) In means for holding the legs of cows, a tached to the outer surface of the sleeve and provided with a pin upon its inner face, indentations or teeth across the face of the rod, and a collar loosely surrounding the sleeve and spring by means of which the spring may be pressed down so as to cause its pin to engage with the indentations in the rod, as specified. (3.) The general arrangement, construc-tion, and combination of parts in my "improved appliance for holding the legs of cows," as described and explained, as illustrated in the sheet of drawings, and for the several pur-noses set forth. poses set forth.

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

No. 15519.-14th October, 1902.-ALFRED WEAVER, of Riverslea Wool-scouring Works, Hastings, Hawke's Bay, New Zealand, Wool-scourer. Improved means or apparatus for washing woul."

Claims.—(1.) The general construction, combination, and arrangement of parts constituting the improved wool-washing apparatus described and illustrated in Figs. 1 and 2 of the drawings—that is to say, two circular vats or vessels fur-nished with central boxes, the first of which vats or vessels is mounted at a higher level than the second, the said vats or vessels or second vates of a short mounted at a higher level than the second, the said vars or vessels communicating with each other by means of a shoot furnished with a door, the first vat or vessel being supplied with water passing through a flume furnished with a valve (or through such flume and an overflow flume) from an elevated tank into which the water discharged from such vats or ves-sels is pumped by a suitable pump, and the second vat or vessel being supplied with water either from a tank supplied from an artesian well and communicating with the said vat or vessel by means of a flume furnished with a sliding valve, or from a dam on a creek communicating with the said vat or from a dam on a creek communicating with the said vat or vessel by like means, or direct from an artesian well, a portion of the bottom of each vat or vessel being perforated and communicating with outlet-passages through which the water escapes into drains through which it passes into a catch-pit, and a sumph from which the said water is pumped into the said elevated tank, the second vat or vessel commu-nicating by means of an opening furnished with a sliding door with a draining-pit, the water from which also passes to the catch-pit and sumph aforesaid, the aforesaid parts or

devices being arranged relatively to and co-operating with each other, essentially as and for the purposes described. (2.) The arrangement of two wool-washing vats in juxtaposi-tion to each other, the first vat being mounted at a higher level than the second and communicating therewith by means of a shoot furnished with a door, the second vat having a discharge-opening furnished with a door, the aforesaid parts or devices being arranged relatively to and co-operating with each other, essentially as and for the purposes described, and illustrated in Figs. 1 and 2 of the drawings. (3.) The construc-tion of wool-washing vats with bottoms having perforated por-tions situated slightly in advance of the points at which the water enters the said vats, and with outlet-passages in commu-nication with the said perforated portions, these parts or dewater enters the said vats, and with outlet-passages in commu-nication with the said perforated portions, these parts or de-vices being arranged relatively to and co-operating with each other essentially as and for the purposes described, and illus-trated in the drawings. (4.) The combination with wool-wash-ing vats of a catch-pit into which the water discharged from the said vats is conveyed by drains in order to recover a portion of the yolk contained in such water, essentially as described, and illustrated in Figs. 1 and 2 of the drawings. (5.) The combination with wool-washing vats of a catch-pit, sumph, pump, and elevated tank, and their subsidiary drains, pipes, and flumes, for the purpose of reusing in the scouring and wool-washing processes as described a portion of the washing-water containing a portion of the yolk of the wool. (Specification, 11s. 6d. ; drawings, 3s.)

No. 15536.—16th October, 1902.—ROBERT LOUIS HOWELL MURRAY, of 193, Karangahape Road, Auckland, New Zealand, Electrician. An improved wood-fuel water-heater.

The introduction of ribs between the inner and Claim. outer cylinders of water-heaters so as to prevent the water rising before it is properly heated, and in the general arrangement and construction and combination of parts as set forth in the drawings and specification. (Specification, 1s. 3d.; drawings, 1s.)

No. 15824.—31st December, 1902.—Tom Sutcliffe, of Allerton Road, Stoke Newington, London, England, gineer. A machine for aerating liquids and bottling No Engineer. same.

same. Claims.—(1.) In a machine for aerating or carbonating liquids, a mixing or carbonating chamber, a pump situated in alignment with said chamber, a piston or bucket-rod of sufficient length to extend thereinto, an agitator within said chamber carried by the pump-rod, and a forked connecting-rod connecting the pump-rod to a crank, all for the purposes and substantially as set forth. (2.) In a machine for aerating or carbonating liquids, the combination of a standard 4 fixed on a base 5, bearings on said standard, a spindle 6 carried in said bearings, a crank wheel 7 fixed at one end of said spindle, a crank 9 formed with a slot and having a scale marked thereon fixed to the other end of the said spindle, a crank-pin 10 adjustable in said slot, a pump 12, a mixing-chamber 11, the pump-rod 14 entering said mixing-chamber, and an agitator fixed to said pump-rod, all for the purposes and substantially as set forth. (3.) A machine for filling bottles or other vessels with aerated beer or other liquors of a foaming character, having in combination a standard 4 fixed on a base 5, bearings on said standard, a spindle 6 car-ried in said bearings, a crank-wheel 7 fixed at one end of said spindle, a crank 9 formed with a slot and having a scale marked thereon fixed to the other end of said spindle, a crank-pin 10 adjustable in said slot, a pump 12, a mixing-cham-ber 11, the pump-rod 14 entering said mixing chamber, an agitator fixed to said pump-rod, and a tube situated at the filling-head adapted to be raised and lowered as required by a cam on the main spindle of the machine, all for the pur-poses and substantially as set forth. a cam on the main spindle of the machine, all for the pur-poses and substantially as set forth. (Specification, 5s. 6d.; drawings, 1s.)

No. 15856. — 10th January, 1903. — FREDERICK WILLIAM FEAVER, of 12, Lawrence Road, South Norwood, Surrey, England, Metal-worker. Improvements in the manufacture of sheet-metal cans or boxes and apparatus therefor.

Claims.-(1.) Apparatus for grooving the lids or covers of sheet-metal cans or boxes, wherein a die, having ribs upon it corresponding with the grooves to be formed, is arranged to corresponding with the grooves to be formed, is arranged to co-operate with pressure rollers in such a manner that when the said die and rollers are rotated relatively with one an-other the said ribs will be pressed into a sheet of metal placed between the die and rollers, substantially as described. (2.) In apparatus for grooving the lids of sheet-metal cans or boxes, the combination of a rotary die having ribs upon it, pressure rollers mounted in a block adjacent to the said die, and means for moving the said block with the pressure rollers towards the die, substantially as described. (3.) In apparatus for grooving the lids or covers of sheet-metal cans or boxes, the combination of a cutting die adapted to be intermittently rotated and of pressure rollers mounted in a block reciprocated relatively with the said rotary die, sub-stantially as described. (4.) The improved apparatus for grooving the lids or covers of sheet-metal cans or boxes, consisting of the parts constructed and combined substan-tially in the manner described, and operating as and for the purposes set for the (5) A cheat metal how or each the lid or purposes set forth. (5.) A sheet-metal box or can the lid or cover of which has grooves formed by means of apparatus substantially as described, and wherein a portion of the metal between the grooves is pressed up and has a tongue attached to it for facilitating the tearing-out of the strip, substantially as set forth.

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

No. 15870.--15th January, 1903.-BRYAN TULLY, of Victor, Teller, Colorado, United States of America, Inventor. Improvements in barrel filters.

Claims .-- (1.) A filter of the class described, comprising a rotatable barrel provided with an acid-proof lining arranged in intimate contact with the interior of the barrel, for preventing the solvent coming in contact with the harrel, for pre-venting the solvent coming in contact with the barrel, and filters formed in the body of the lining, said barrel being apertured at the points where the filters are located, sub-stantially as described. (2.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, stantially as described. (2.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, the body of the barrel being provided with outlets, and the lining being perforated opposite said outlets, substantially as described. (3.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, the body of the barrel being provided with a pertures and the lining being perforated opposite said apertures, a launder arranged on the exterior of the barrel and provided with a plurality of branch pipes, said branch pipes at their inner ends being fitted in said apertures and connected to the lead lining about said perforations, substantially as described. (4.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, the body of the barrel being provided with a apertures, a lead launder arranged on the exterior of the barrel and provided with a plurality of lead branch pipes, said branch pipes at their inner ends being fitted in said apertures, a lead launder arranged on the exterior of the barrel and provided with a plurality of lead branch pipes, said branch pipes at their inner ends being fitted in said apertures, and connected to the lead lining about said perforations, substantially as described. (5.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, a lead launder arranged on the exterior of the barrel, a plurality of laterally projecting branch pipes, said pipes at one end being fused to the launder and at their ends extending through the shell or body of the barrel and fused to the lead lining, the lead lining being perforated at the points where the branch pipes are connected to it, substantially as described. (6.) A filter lining being perforated at the points where the branch pipes are connected to it, substantially as described. (6.) A filter of the class described, comprising a rotatable barrel provided with a lead lining, a launder arranged on the exterior of the barrel and parallel to the longitudinal axis of the latter, branch pipes connected at their outer ends to the launder and extending at their inner ends through the body of the barrel and united to the lead lining, said lead lining opposite barrel and united to the lead lining, said lead lining opposite the inner ends of each of said branch pipes being provided with a circular series of perforations, substantially as de-scribed. (7.) A filter of the class described, comprising a rotatable barrel provided with an acid-proof protective lining in direct contact with the interior of the barrel, and filter formed in the body of said lining, said lining being im-pervious to the solution at all points excepting those wherein the filters are located, substantially as described. (8.) A filter of the class described, comprising a rotatable barrel, an acid-proof lining fitted within said barrel and in close contact with the interior thereof, filters formed in the body of the lining, said barrel being apertured opposite the filters, and a launder arranged exteriorly of the barrel and in communica-Iming, said barrel being apertured opposite the hiters, and a launder arranged exteriorly of the barrel and in communica-tion with the filters, substantially as described. (9.) A filter of the class described, comprising a rotatable cylindrical barrel, and an acid-proof protective lining arranged in con-tact with the barrel, a filter located within the body of said lining, and a launder arranged exteriorly of the barrel and connected with said filter, substantially as described. (10.) A filter of the aless described acomprising a subjective state barrel and connected with said filter, substantially as described. (10.) A the class described, comprising a cylindrical rotatable barrel provided with an acid-proof lining closely conforming to the interior of the barrel and provided with a plurality of circular series of perforations, pipes secured at the inner ends to the lining about the circular series of perforations, and a launder arranged on the exterior of the barrel and con-ported to all of soid ring; for the numeroe movield (Specification, 5s. 6d.; drawings, 2s.)

No. 15871.-15th January, 1903.-Dr. HERMANN PASSOW, of 33, Billhorner Röhrendamm, of Hamburg, Germany, Manager. New and improved process for producing cement.

Claims.—(1.) Process of producing cement consisting in mixing air-granulated slag of glassy structure or dried slag sands, which in a ground state do not show any or only a

small rising in temperature when treated with carbonic acid, with roasted water-granulated slags or with air-granulated slags of pumiceous structure, which in a stream of carbonic stags of publiceous structure, which in a stream of carbonic acid show a great rising in temperature, substantially as described. (2.) The addition of a small quantity of a normal Portland cement, or other materials containing disposable lime, to the product of the process claimed in claim 1, for the purpose of regulating the time of setting or other qualities, substantially as described. (3.) A modification of the process claimed in claim 1, characterized thereby that to the slage not result carbonic acid thereby that to the slags not reacting with carbonic acid, Portland cement, Roman cement, hydraulic lime, or other substances containing disposable lime or forming such lime are added instead of adding the slags reacting with carbonic acid, substantially as described. (Specification, 7s.)

No. 15873.—12th January, 1903.—EDWYN ALBERT HOL-DEN, of Ashfield, Cumberland, New South Wales. An auto-matic lubricator.

Claim.—For lubricating purposes, in combination, an oil-cup, a contracted part or sump the bottom of which is in the form of an inverted cone, a leak-hole at the apex of the cone, a ball within the sump which shall overlie the aperture of the leak when the apparatus is at rest, and a hollow pillar extending upwards from the sump, such pillar being provided with means whereby the oil may, by capillary attraction, be conveyed from the oil-cup to the sump, as specified. specified.

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

No. 15874.—14th January, 1903.—WILLIAM McCALLUM, of Kyeburn, Dredgeman, and EDWARD ROBERTS, of Dunedin, Consulting Engineer, both of Otago, New Zealand. An improved revolving screen.

Claims. (1.) In revolving screens, the combination of the usual circular ends, races, and gearing, with the screening portion made and formed to an irregular cross-section for the purpose of turning the material to be screened and within the screen over and over to facilitate thorough screening, all substantially as described and as explained, and as illustrated in the drawing. (2.) In revolving screens, in com-bination, the usual races and gearing, with the whole body of the screen made and formed to an irregular cross-section for the purpose of turning the material to be screened and within the screen over and over to facilitate thorough screening, all substantially as described and as explained, and as illustrated in the drawing. (3.) In revolving screens, in combination with the usual races and driving gearing, either the screening portion or the whole body of the screen made and formed to a polygonal form, substantially as and for the purposes already set forth, and as illustrated in the drawing. (Specification, 3s.; drawings, 2s.)

No. 15877.-19th January, 1903.-JOHN WILSON TONG, of New Plymouth, New Zealand, Builder. An improved siphon.

Claims.--(1.) A siphon comprising a tube bent into U shape, having one member of the U longer than the other, a piston reciprocatable within the longer member, an air plug or valve near the top of the apparatus and between the two members, and a discharge tap or branch near the bottom of the longer member, substantially as and for the purposes specified. (2.) In a siphon for withdrawing liquids from a containing-vessel, a piston reciprocatable within the longer member of the siphon, an opening in the side of the piston for the passage of liquid closable by a washer upon the piston-rod, and a nut upon the end of the piston-rod adapted to engage the underside of the piston when said rod is drawn Claims.--(1.) A siphon comprising a tube bent into U to engage the underside of the piston-rod adapted to engage the underside of the piston when said rod is drawn up. (3.) In apparatus for the purposes indicated and as described, a reducing-socket upon the longer member of the siphon, and a screw-cap for closing one end of the said re-ducing-socket, substantially as and for the purposes specified. ducing-socket, substantially as and for the purposes specified. (4.) In apparatus for the purposes indicated, the means de-scribed for adjusting the depth of one member of a siphon in the liquid upon which it is desired to operate, consisting of a bridle surrounding the two members of the siphon, and having a thumb-screw by means of which its position upon the said members may be adjusted, substantially as and for the purposes specified and illustrated. (Specification, 3s.; drawings, 1s.)

No. 15880.-15th January, 1903.-Thomas Hewron, of Waianakarua, New Zealand, Mill-manager. Improved selftightening nut and washer.

Claims.-(1.) In bolts and nuts that are for use in places where they are liable to be shaken loose, the combination of a nut and washer formed to fit one another in the form of a

clutch, with a spring fitting over both nut and washer in tension so as to move the nut and washer further apart by sliding up the inclined surfaces of the clutch-face, all subtension so as to move the nut and washer lutter apart by sliding up the inclined surfaces of the clutch-face, all sub-stantially as set forth and for the purposes indicated. (2.) In bolts and nuts and washers, in combination, a nut and washer fitted where they meet with inclined clutch-faces, with 'a spring arranged to continually press nut and washer apart laterally by sliding them up said inclined faces, thus taking up and maintaining any possible slack that may be had by shaking or rattling of the material bolted, all substantially as described and explained, and as illustrated in the drawing. (3.) The taking up of any slack caused by shaking or wearing or the like and solidly maintaining same by means of a nut, washer, and spring, with a lock-nut when needed, used with an ordinary bolt, all substantially as shown on the drawing and described and explained. (Specification, 3s.; drawings, 1s.)

No. 15887. — 19th January, 1903. — ARTHUR KITSON, of York Mansion, York Street, Westminster, England, Managing Director to the Kitson Lighting Company of Great Britain (Limited). Improvements in or pertaining to vapour-burning apparatus.

Claims.—(1.) In vapour burning apparatus of the kind referred to, the combination of a vertically arranged burner-tube having inlets near its lower end, a perforated diaphragm tube having inlets near its lower end, a perforated diaphragm across its upper end, a diaphragm across the said burner-tube below the level of the said inlets, and a vertical vaporizing-tube, closed at the upper end, passing through the upper and inserted into the lower diaphragm, and arranged to discharge a jet of vapour below the level of the lower diaphragm. (2.) In vapour-burning apparatus of the kind referred to, the combination of a vertically arranged burner-tube having inlets near its lower end, a perforated diaphragm across its upper end, a diaphragm across the said burner-tube below combination of a vertically arranged burner-tube having inlets near its lower end, a perforated diaphragm across its upper end, a diaphragm across the said burner-tube below the level of the said inlets, and a vertical vaporizing-tube, closed at the upper end, passing through the upper and in-serted into the lower diaphragm, and arranged to discharge a jet of vapour below the level of the lower diaphragm, the discharge-nozzle of the said vaporizing-tube having an up-ward extension located within the said vaporizing-tube, and forming in the lower portion thereof a trap in which un-vaporized oil may collect. (3.) In vapour-burning apparatus of the kind referred to, the combination of a vertically arranged burner tube provided with air and vapour inlets, a perforated diaphragm across its upper end, a diaphragm across the said burner-tube below the level of the said air and vapour inlets, and a vertical vaporizing-tube passing through the upper and inserted into the lower diaphragm, and having a discharge-nozzle in its lower end, whilst its upper end is closed, the said discharge-nozzle having an upward extension located within said vaporizing-tube a trap in which unvaporized oil may collect, together with an oil-supply tube arranged to discharge into the said trap, means for conducting air to the vapour-jet, and means for conduct-ing the mixture of air and vapour so formed to the aforesaid air and vapour inlets. (4.) In vapour-burning apparatus of ing the mixture of air and vapour jee, and means for conduct-ing the mixture of air and vapour so formed to the aforesaid air and vapour inlets. (4.) In vapour-burning apparatus of the kind referred to, the combination of a vertically arranged burner-tube provided with air and vapour inlets, a per-formed dispherem across its upper and addispherem across forated diaphragm across its upper end, a diaphragm across the said burner-tube below the level of the said air and forated diaphragm across its upper end, a diaphragm across the said burner-tube below the level of the said air and vapour inlets, and a vertical vaporizing-tube passing through the upper and inserted in the lower diaphragm, and having a discharge-nozzle in its lower end, whilst its upper end is closed, together with a mixing tube below the said vaporizing - tube, a condensing - chamber closed at the bottom and having its walls joining the burner-tube at a point above the level of the said air and vapour inlets, and air-inlet tubes extending from apertures in the wall of said condensing-chamber to air-inlets in the said mixing-tube. (5.) In vapour-burning apparatus of the kind referred to, the combination of a burner having an annular perforated dia-phragm, a central perforated sleeve forming an inward con-tinuation of the said diaphragm, and a closed-ended vapor-izing-tube extending into the space within the said perforated sleeve, substantially as described. (6.) In vapour burning apparatus of the kind referred to, the combination of a ver-tically arranged burner-tube, a perforated diaphragm across the upper end, a vertical vaporizing-tube passing through the said diaphragm and having a discharge-nozzle in its lower end, whilst it- upper end is closed, a mixing-tube into which the vaporizing-tube τ ozzle discharges, a condensing-chamber within which the mixing-tube is enclosed, and air-inlet tubes extending from apertures in the wall of the said condensing chamber to air-inlets in the wall of the said chamber within which the mixing-tube is enclosed, and ar-inlet tubes extending from apertures in the wall of the said condensing-chamber to air-inlets in the wall of the said mixing-tube. (7.) Vapour-burning apparatus according to any of the preceding claims wherein suitable means, as wire gauze or a coil or bundle of wire, for causing carbon to be deposited upon itself rather than upon the vaporizing-tube or upon a tube inserted therein are provided in the space be-tween the peripheral wall of the said vaporizing-tube and

that of the said inserted tube. (8.) Vapour-burning apparatus of the kind referred to, comprising a vertical vaporizingratus of the kind referred to, comprising a vertical vaporizing-tube which is arranged to extend within a mantle, is closed at its upper end, and has within it a tube so shaped as to leave vacant between its peripheral wall and that of the vaporizing-tube a space of small cross-section, into which opens an oil inlet, so that oil supplied therethrough will be compelled to pass up in the said space and be vaporized by contact with the vaporizing-tube as will then descend through the interval tube into a wind with in period with the vaporized by contact with the vaporizing-tube as will then descend through the internal tube into a mixing-tube which is provided with means for admitting air from the external atmosphere, and is contained in and opens into a condensing-chamber in com-munication with the burner, substantially as described, the said space preferably containing a suitable means, as wire gauze or a coil or bundle of wire, for causing carbon to be deposited upon itself rather than upon the vaporizing-tube or upon a tube inserted therein. (9.) The improved vapour-burning apparatus constructed and arranged as described with reference to and shown respectively in Figs. 1, 2, and 3 and in Fig. 4 of the drawings. 3 and in Fig. 4 of the drawings. (Specification, 6s. 6d.; drawings, 1s.)

No. 15892.—21st January, 1903.—HERMAN CHARLES WOL-TERECK, of 3, Edinburgh Mansions, Howick Place, Victoria Street, London, England, Consulting Chemist. Process for producing ammonia by synthesis.

Claims.-(1.) The process for the synthetical production of ammonia, consisting in passing a mixture of air and a gas containing hydrogen in the presence of water-vapour over iron oxide heated to a dull-red heat. (2.) The process for the synthetical production of ammonia, consisting in passing a mixture of air and a gas containing hydrogen in the presence mixture of air and a gas containing hydrogen in the presence of water-vapour over an oxygen-carrier metallic oxide heated to a dull-red heat. (3.) The process for the production of ammonia, consisting in passing a mixture of nitrogen and oxygen and a g is containing hydrogen in the presence of water-vapour over iron-oxide heated to a dull-red heat. (4.) The process for the production of ammonia, consisting in passing a mixture of nitrogen and oxygen and a gas contain-ing hydrogen in the presence of water-vapour over an oxygen-carrier metallic oxide heated to a dull-red heat. (Specification 2s (d))

(Specification, 2s. 6d.)

No. 15898. – 23rd January, 1903. – MURRAY CORBINGTON, of 40, Wall Street, New York, United States of America, Engineer. Improvements in automatic fluid-pressure brake apparatus for railway vehicles.

-(1.) In a fluid-pressure brake mechanism, the Claims. combination with a triple valve having connections leading to a train-pipe, an auxiliary reservoir, and a brake-cylinder respectively, of a supplemental piston for forcing the triple valve into its normal or release position, and a second valve-device, actuated by an increase of fluid pressure independently device, actuated by an increase of full pressure independently of the movement of the triple-valve piston, for varying the pressures (n said supplemental piston, whereby the same may be actuated to force the triple valve into its normal or release position. (2.) In a fluid-pressure brake mechanism, the combination with a triple valve having connections lead-ing to a train-pipe, an auxiliary reservoir, and a brake cy-linder respectively, of a supplemental niston normally exposed the combination with a triple value having connections each ing to a train-pipe, an auxiliary reservoir, and a brake cy-linder respectively, of a supplemental piston normally exposed to fluid under pressure for effecting the movement of the triple value into the release position, a passage for releasing pressure from one side of said piston, and a value-device actu-ated by an increase of pressure, independently of the movement of the triple-value piston, for controlling said passage. (3.) In a fluid-pressure brake mechanism, the combination with a triple value of a recharging-passage for admitting pressure from train-pipe to reservoir while the triple value is in brake-setting position, a supplemental piston for forcing the triple value into its normal or release position, and a secondary value-device actuated by an increase of fluid pressure, inde-pendently of the movement of the triple-value piston, for varying the pressures on said supplemental piston, whereby the same may be actuated to force the triple value into its normal or release position. (4.) In a fluid-pressure brake mechanism, the combination with a triple value of a re-charging-passage for admitting pressure from train-pipe to reservoir while the triple value is in brake-setting position, a supplemental piston normally exposed to fluid under presreservoir while the triple valve is in brake-setting position, a supplemental piston normally exposed to fluid under pres-sure for effecting the movement of the triple valve into the release position, a passage for releasing pressure from one side of said piston, and a valve-d vice actuated by an increase of pressure, independently of the movement of the triple-valve piston, for controlling said passage. (5.) In a fluid pressure brake mechanism, the combination with a triple-valve device of a recharging-passage for admitting pressure from train-pipe to reservoir while the triple valve occupies the brake-setting position, a valve for controlling said re-charging-passage and closing the same while brakes are off, and a supplemental valve-device actuated by a variation of

pressure, independently of the movement of the triple-valve piston, for causing the triple valve to move into release piston, for causing the triple valve to move into release position. (6.) In a fluid-pressure brake mechanism, the com-bination with a triple valve of a supplemental valve, a valve-device actuated by a variation of fluid pressure, independently of the movement of the triple-valve piston, for controlling by its operation the ultimate movement of the triple valve to release position, and a passage controlled both by said sup-plemental valve and by said valve-device. (7.) In a fluid pressure brake mechanism, the combination with a triple valve of a recharging-passage for admitting pressure from train-pipe to reservoir while the triple valve is in the brake-setting position, and ports in the main valve and the gratrain-pipe to reservoir while the triple valve is in the brake-setting position, and ports in the main valve and the gra-duating valve of the triple valve forming parts of said re-charging-passage, whereby said passage is controlled both by the main valve and the graduating valve. (8.) In a fluid-pressure brake mechanism, the combination with a triple-valve device of a service-passage for admitting pressure from reservoir to brake cylinder, a recharging-passage for admitting pressure from train-pipe to reservoir while the triple valve is in the brake-setting position, and a single valve operated by the triple-valve piston for controlling both of said passages so that one shall be open while the other is closed, and *rice* so that one shall be open while the other is closed, and vice verså.

(Specification, 18s.; drawings, 3s.)

No. 15899.—23rd January, 1903.—CLIFFORD WALMSLEY BARLEE SCOTT, of Pietermaritzburg, Natal, Solicitor. An improved wall distemper.

-An improved distemper for coating walls, ceilings, Claim. and the like, consisting of a clay and compound such as de-scribed, a colouring matter, and (if required) a disinfectant, proportioned and blended substantially as described.

(Specification, 1s. 6d.)

No. 15906.—27th January, 1903.—JAMES PALMER CAMP-BELL, of Wellington, New Zealand, Solicitor (nominee of Peter Cooper Hewitt, of 11, Lexington Avenue, New York, United States of America, Scientist). Improvements in the method of and means for obtaining unidirectional current from a single-phase or polyphase alternating-current source.

Claims.—(1.) The method of obtaining a unidirectional current from a single-phase or polyphase alternating current source by means of a device possessing a high negative elec-trode reluctance, which consists in annulling the negative electrode reluctance to the flow of current in one direction and maintaining a consequent condition of low reluctance at one electrode, and opposing the original high negative elec-trode reluctance to the flow of current in the other direction at the other electrode. (2.) For obtaining a unidirectional current from a polyphase alternating-current source, an arrangement having a negative electrode and a plurality of positive electrodes, each of the positive electrodes being con-nected to a separate lead from the source of polyphase cur-rents, and the negative electrode being also connected to the said source of polyphase currents, substantially as described. Claims.-(1.) The method of obtaining a unidirectional (3.) The modification of the arrangement in which one of the positive electrodes is connected to the positive terminal of a source of direct current, the negative terminal of which is connected to the negative electrode, so that the device may be used with single phase alternating current if desired be used with single-phase alternating current if desired. (4.) The various arrangements for obtaining unidirectional electric current from an alternating source, substantially as described.

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

No. 15907. — 27th January. 1903. — AUGUSTINE WILLIAM SWIFT, of Oxford Terrace, Christchurch, New Zealand, Gentleman, and ROBERT HALL, of Cashel Street, Christ-church aforesaid, Hydropathist. An improved mould or dis for placin metasial die for plastic materials.

Claims. — (1.) A mould or die for plastic materials constructed, arranged, and operating as specified and illustrated. (2.) A mould or die for plastic material lined internally with glass and provided with means whereby lubricant is conveyed to the inner surface of said glass, being substantially as specified and illustrated. (3.) A mould or die for plastic materials comprising in combination an outer casing, a glass lining fixed therein, a flanged casing fitted around the broad end of the mould, a tube or pipe within the casing having perforations, and a pipe for supply of lubricant connected thereto, substantially as described and illustrated. and illustrated.

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

No. 15908. — 27th January, 1903. — WILLIAM ERNEST HUGHES, of Queen's Chambers, Wellington, New Zealand, Patent Agent (nominee of George Gibbs, care of Rapid

Tiansit Subway Construction Company, of Park Row Build-ing, New York, United States of America, Electrical Engineer). Improvements in signalling systems for electric railways.

Claims.-(1.) For railways operated electrically from a Claims.—(1.) For railways operated electrically from a power station, a signalling system provided with means for preventing movement to the safety position of some or all of the signals of the track-section supplied by said power-station when the demand for electric power on said station equals or exceeds a predetermined amount. (2.) For controlling the operation of the signals of an electric railway system in the manner described, an electrically actuated device operated by current flowing in a control circuit, said circuit being pro-vided with a switching mechanism for opening and closing the same in accordance with the amount of opening and closing in the power circuit. (3.) The application of the invention to electric railways worked on the block system by causing the operation of the block signals to be governed in accordthe operation of the block signals to be governed in accord-ance with the load on the power station, irrespective of the positions of trains or vehicles on the various block-sections, substantially as described, and for the purpose specified. (4.) The modification of the invention in which the device for preventing the movement of the signal to its safety position also acts to return the signal to its danger position if it is not already in that position. (5.) For railways operated electrically from a power station, signalling systems provided with means for controlling the operation of the signals in accordance with the demand for power on the station, constructed and operating substantially as described station, constructed and operating substantially as described with reference to the drawings.

(Specification, 14s. 6d.; drawings, 3s.)

No. 15909.—27th January, 1903.—ARTHUR BERNARD GILL, of Carlton, Blackheath Park, London, England, Electrical Engineer. Improvements in apparatus for electrically light-ing railway-trains.

Claims.—(1.) The improved manner of attaching to the carriage the dynamo A driven by strap from a wheel-axle F consisting in supporting it in a substantially vertical position from a horizontal bar B (Figs. 1 to 5), along which bar it can slide against the effort of a spring or weight D, or supporting it from a slanting bar B (Figs. 6, 7, and 8), along which bar it can slide against the effort of gravity, or supporting it by weights D in cords D¹ passing over pulleys D² (Figs. 9 and 10), so that in all cases movement of the dynamo in any direction, except in a plane at right angles to the axle, is prevented, and for the purpose of adapting the dynamo to be applied in a more secure and efficient manner, and for the purpose of being able to use larger dynamos. (2.) The im-proved means of reversing the direction of rotation of the dynamo characterized by that the rocking-arm M is entirely supported on an extension N¹ of the bearing N, and is par-tially rotated by friction between blocks O on spring plungers P working in guides Q and a groove formed by the flanges M¹ or M² on the boss of the rocking-arm M (Figs. 11), or by friction between blocks O on extensions V¹ of the governor arms V, and a rim M^x on the rocking-arm (Figs. 12 and 13), Claims.-(1.) The improved manner of attaching to the arms V, and a rim M^{\times} on the rocking-arm (Figs. 12 and 13), while the axial movement of the rocking-arm M is effected by the centrifugal action of the governor as described for the purpose of reducing the friction, lessening lubrication, and counteracting the effect of the parts wearing out of truth.

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

No. 15914.—28th January, 1903.—ALFRED HANKINSON, of 78, Pitt Street, Sydney, New South Wales, Importer. Im-provements in miners' safety-lamps.

(1.) The combination of a miner's safety-lamp of Claims.ordinary well known construction with a burner having a wick tube in which there is one or more apertures through Wick tube in which there is one or more apertures through which the wick is engaged by a sharp-toothed wheel or wheels, said wheel or wheels being carried by a cross-shaft supported by suitable bearings and revolved by a worm-and-wheel gear-ing, which is operated by means of a button or other suitable appliance on the outside of the lamp, and a cap adapted to cover the mechanism and retain the said burner in position, substantially as and for the purpose described, and as illus-trated in the drawings. (2.) In miners' safety-lamps, a burner having a wick-tube in which there is one or more apertures through which the wick is engaged by a sharp toothed wheel through which the wick is engaged by a sharp-toothed wheel or wheels, said wheel or wheels being carried by a cross-shaft supported by suitable bearings and revolved by a worm-andsupported by suitable bearings and revolved by a worm-and-wheel gearing, which is operated by means of a button or other suitable appliance on the outside of the lamp, and a cap adapted to cover the mechanism and retain the said burner in position, substantially as described, and as illus-trated in the drawings. (Specification, 3s. ; drawings, 1s.)

No. 15915.—28th January, 1903.—WILLIAM PAYNE, of Orange, New South Wales, Assayer, and JAMES HYNDES GILLIES, of Dulwich Hill, New South Wales aforesaid, Mining Engineer. An improved process for the treatment of ores containing copper.

Claim.—An improved process for the treatment of ores containing copper, characterized by first crushing the ore, then adding thereto 1 to 5 per cent. of pyrites, then saturat ing the same with ferrous sulphate (mother-liquor) which has been obtained automatically by the previous working of the process, then drying and gradually heating the ore to a dull-red and afterwards dumping it into a vat containing the weak wash solution remaining from the treatment of the weak wash solution remaining from the treatment of the previous batch of ore, and finally the precipitation of the strong copper solution and the conservation of the weak wash solution, the former to be used for the saturation of the next batch of ore, and the latter to be used for the leaching of the same, substantially as described.

(Specification, 5s.)

F. WALDEGRAVE Registrar.

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

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

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

Provisional Specifications.

Patent Office.

Wellington, 4th February, 1903. А

No. 14809. - 1st May, 1902. -- WILLIAM ERNEST HUGHES, of Queen's Chambers, Wellington, New Zealand, Patent Agent (nominee of the Mechanical Cashier Syndicate, Limited, of 111-113, Copthall House, Copthall Avenue, London, Eng-land-assignees of Isaac Strange Dement, of 108, Carnegie Avenue, East Orange, New Jersey, United States of America, Foster John Hull, of 250, Thirteenth Street, Brooklyn, New York, United States of America aforesaid, and Arthur D. King, of 20, Broad Street, New York aforesaid, Mechanical Engineers). Improvements in mechanical cashiers, registers, and recorders.

No. 15850.—9th January, 1903.—CHARLES FREDERICK LUNGLEY, of 2, Eville Place, Albert Park, Bourke, Victoria,

Engineer. An improved aluminium-alloy. No. 15864. — 13th January, 1903. — DANIEL MOORE BROOKS, of 29, Molesworth Street, Wellington, New Zea-land, Engineer. Improvements in fire-escapes.

land, Engineer. Improvements in fire-escapes. No. 15869.—10th January, 1903.—ANDREW MCLEOD, of Exchange Building, Queen Street, Auckland, New Zealand, An improved drill or borer for drilling or boring Engineer.

holes in rocks or other materials. No. 15872. --15th January, 1903. --KING CAMP GILLETTE, of 94, Marion Street, Brookline, Massachusetts, United States of America, Manager. Improvements in safety and other razors.

No. 15875.—14th January, 1903.—ALFRED REGINALD HARDY, of Dunedin, New Zealand, Accountant. Improved sconce for candlesticks. No. 15876.—14th January, 1903.—WILLIAM RUSSELL

COOPER, of Napier, Hawke's Bay, New Zealand, Accountant. An improvement in the handles of tennis-racquets, which improvement is applicable also to the handles of other articles used for the purposes of sport, and to the handles of tools.

No. 15878.—19th January, 1908. — WALTER BAXENDALE GIESEN, of Wanganui, New Zealand, Accountant. Improved

contrivance for drying and airing clothes. No. 15879.—17th January, 1903.—NEIL DICKSON HOOD, of Cobden, Greymouth, New Zealand, Marine Engineer. An

improved non-refillable bottle. No. 15881. — 15th January, 1903. — RALPH DUNNE George Street, Dunedin, New Zealand, Picture-framer. - RALPH DUNNE, of Ím-

proved device for cutting mitres. No. 15883. — 17th January, 1903. — LANGHAM GEORGE WEALL GODDEN, of Nelson, New Zealand, Gentleman. An improvement in making button-holes in articles of wearing

apparel. No. 15884.—16th January, 1903.—JOHN COLLINGE, JUN., Blacksmith, and ADOLPHE THEODORE THORSTENSON, Car-penter, both of South Norsewood, Hawke's Bay, New Zea-land. An improved cramp for cramping together flooring and other boards

No. 16885.—19th January, 1903.—WILLIAM AGGERS, Howe Street, Auckland, New Zealand, Upholsterer. I provements in cushioned furniture and the like. of Ím-

No. 15888. — 19th January, 1903. — EWEN MACKENZIE MCLAUCHLAN, of Springhills, Winton, New Zealand, Farmer. Improved means for steering ploughs and other similar implements

plements. No. 15889.—20th January, 1903.—WILLIAM ANDERSON, of Bowmont Street, Invercargill, Southland, New Zealand, Labourer. An improved clothes-line strainer. No. 15890.—16th January, 1903.—MICHAEL BROWNE, of Gisborne, New Zealand, Fellmonger. Spring regulator and weight-compensator for vehicles. No. 15891.—20th January, 1903.—DUNCAN UBQUHART, of Islington, Canterbury, New Zealand, Engineer. A machine for printing sheep-bags and adjusting length of same in one operation. operation.

No. 15893.—20th January, 1903.—ARTHUR JOHN HENRY LANGE and HENRY WHITE, both of Christchurch, New Zea-

LANGE and HENRY WHITE, both of Christchurch, New Zea-land, Joiners. An improved cramp to be used in making picture-frames, and for other analogous purposes. No. 15894.—23rd January, 1903.—GEORGE HUTCHINSON, of 23, Ellice Avenue, Wellington, New Zealand, School-master. An improved milking-machine. No. 15896.—20th January, 1903.—JAMES ALEXANDER POND, of Remuera, Auckland, New Zealand, Analyst. An improved method of sterilising bones, bonedust, flesh and blood manures, or other material. No. 15897.—23rd January, 1903.—SILVANUS GEORGE JEFFS, of Matangi, Waikato, New Zealand, Farmer. An improved gate-hinge.

improved gate-hinge.

No. 15900.—21st January, 1903.—Tom HARRY VICKERY, of 21, Hotham Place, Prahran, Victoria, Engineer. An improved shell for cream-separators.

No. 15901. – 21st January, 1903. – ARTHUE WARD, of Wai-kawa Valley, New Zealand, Farmer. Yoke for pigs. No. 15904. – 26th January, 1903. – FRANCIS HENRY GREEN, of Riverton, New Zealand, Carpenter. Improved adjustable kettle hook

kettle hook.
No. 15905. - 26th January, 1903. - ARTHUR MCKEE, of 6, Customhouse Quay, Wellington, New Zealand, Publisher.
Improved pictorial letter-card.
No. 15910. - 24th January, 1903. - HUGH KERR, of Drummond, New Zealand, Farmer. Improvements in seed-sowers.
No. 15911. - 24th January, 1903. - THOMAS FOSTER and THOMAS THOMSON PAUL, both of Manse Street, Dunedin, New Zealand, Bookbinders. Improvements in loose-leaf account. hooks

account-books.

No. 15913. — 28th January, 1903. — THEODORE GEORGE
 ANDREW PARRY, of 23, Gloucester Street, Christchurch,
 New Zealand, Joiner. An improved castor.
 No. 15916.—28th January, 1903.—JOHN JAMES BRYERS, of
 Rawene, Auckland, New Zealand, Hotelkeeper. Improved

means for automatically turning the leaves of music. No. 15917.-29th January, 1903.-CHARLES FREDERICK LUNGLEY, of 2, Eville Place, Albert Park, Bourke, Victoria, Engineer. An improved process for the extraction of tita-

Engineer. An improved process for the extraction of tita-nium from ironsand. No. 15918.—29th January, 1903.—CHARLES FREDERICK LUNGLEY, of 2, Eville Place, Albert Park, Bourke, Victoria, Engineer. An improved process for the manufacture of pig-iron, mild steel, white metal, and other alloys, from ironsand obtainable in New Zealand. No. 15919.—29th January, 1903.—WILLIAM PEMBERTON JARVIE, of 31, Queen Street, Melbourne, Bourke, Victoria, Accountant (assignee of John Storer, of 31, Queen Street aforesaid, Chemical Engineer). An improved method of air-purification specially applicable to the working-faces of

purification specially applicable to the working-faces of

Junication Specially applicable to the Working facts of mines and quarries. No. 15920. 27th January, 1903.—Thomas Morris, of Dunedin, New Zealand, Manufacturer. An improved peg for fixing rabbit-traps, tent-ropes, &c. No. 15921.—27th January, 1903.—SAMUEL WHITE, of Dun-edin, New Zealand, Coachbuilder. Improved appliance for

opening bottles containing soda water and the like. No. 15922.—27th January, 1903.—Robert Livingstone LockerBie, of Mary Street, East Invercargill, New Zealand, Carpenter. Improved means for hanging sashes, doors, and the like.

No. 15923.-27th January, 1903.-ROBERT WALKER, of Moray Place, Dunedin, New Zealand, Plumber. Improved liquid aerator and cooler

No. 15924.—27th January, 1903.—GIDEON BISH, of Bom-bay, Auckland. New Zealand, Blacksmith. An improved means for facilitating the adjustment of movable bodies of vehicles and sublike and the movable posts the sector.

means for facilitating the adjustment of movable bodies of vehicles and suchlike, and the movable seats thereon. No. 15926.—30th January, 1903.—WILLIAM BENJAMIN WALLERS, of Wellington, New Zealand, Engineer. An im-proved machine for treating flax and other fibres.

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 the number.

No. 12191.

Letters Patent sealed.

IST of Letters Patent sealed from the 21st to 31st January, 1903, inclusive :-Nil.

> F. WALDEGRAVE, Registrar.

Letters Patent on which Fees have been paid.

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

SECOND-TERM FEES.

 $\mathbf{N}^{\mathrm{o.}}$ 11706.-J. Smith, rotary motor. 21st January, 1903.

-J. Smith, motor. 21st January, 1903.

THIRD-TERM FEES.

No. 8306.—American Tobacco Company of New Zealand, imited, making conical cigarettes. (H. Bilgram.) 29th

No. 8306.—American Tobacco Company of New Zealand, Limited, making conical cigarettes. (H. Bilgram.) 29th January, 1903. No. 8307.—American Tobacco Company of New Zealand, Limited, making conical cigarettes. (J. A. Bonsack.) 29th January, 1903. No. 8308.—American Tobacco Company of New Zealand, Limited, making cigarette-tubes. (J. A. Bonsack.) 29th January, 1903. No. 8309.—American Tobacco Company of New Zealand, Limited, cigarette-machine. (M. Kirshner.) 29th January, 1903.

1903.

No. 8339.-T. B. Lightfoot, cooling air, &c. 28th January, 1903.

1903. No. 8522.—Biernatzki and Co., refrigerating - apparatus. (The Economical Refrigerating Company-G. F. Knox and E. L. Sharpneck.) 27th January, 1903. F. WALDEGRAVE,

Registrar.

Notice of Request to amend Specification.

Patent Office.

Patent Office, Wellington, 4th February, 1903. A REQUEST for leave to amend the specification of relating to the undermentioned application for Letters Patent has been received, and is open to public inspection at this office. Any person may, at any time within 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. 14761.—17th April, 1902.—William Henry Gordon, of 69, Lyons Street South, Ballarat, Victoria, Engineer and Blacksmith. An improved hub or boss for fastening to a shaft any part of a machine that causes or is caused by the shaft to revolve. The nature of the proposed amendments is as follows :— 1. To alter the title to "Improved means for securing hubs or bosses on rotatable shafts," lines 5 and 6, and 10, 11, 12, of page 1.

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ways may be provided ";; and instead of "and a tapering key (d) or tapering keys made to fit the said key-way (c) or these said key-ways," the words "and a tapered key (d) is made to fit this key-way (c) or keys made to fit these key-ways," lines 4 and 5, page 2. 8. To strike out the words "Place the part of ma-chinery (b) which is to be fastened to the shaft (a) upon," and insert instead, "In putting this invention into prac-tice, the boss or hub (b) is slipped over," lines 6 and 7, page 2.

blue, the boss of hab (b) is supped over, thies 6 and 7, page 2. 9. To omit the words "and in as nearly its correct position as possible," and the words "drive home the key (d)," lines 7 and 8, page 2, and to insert instead the words "the tapered key (d) driven." 10. After the word "position," line 11, page 2, to insert the sentence "In this manner a large bearing-surface is obtained with word words restificatow results then here to

obtained with much more satisfactory results than heretofore.

11. To omit the five claims and insert the following

able shafts, said means for sectring bosses of hubs on rotat-able shafts, said means consisting in an otherwise truly bored boss having a portion of the circumference of its bore enlarged diametrically, and a key way or ways in said enlargement for a locking key or keys, substantially as and for the purposes specified, and as illustrated in the drawings."

The applicant's agent states : "My reasons for making this amendments are as follows: I am advised that the amendments are necessary in order to clearly describe the invention and define the claimable matter."

> F. WALDEGRAVE, Registrar.

Applications for Letters Patent abandoned.

IST of applications for Letters Patent (with which provisional specifications only have been filed) abandoned from the 22nd January to the 4th February, 1903, inclusive:

No. 14667.-H. M. Levinge, automatically lighting and No. 14668.—T. H. Brown and J. E. Staples, branding-

fluid.

No. 14673.—S. O. Keoghan, releasing horses from stable. No. 14674.—S. O. Keoghan, fastening end of machinerybelt.

No. 14675.—S. O. Keoghan, balancing window-sashes. No. 14685.—T. McNaught, horse-cover. No. 14692.—O. Thompson, culinary instrument. No. 14696.—A. W. Jones and S. McFarland, pictureame.

No. 14699.—C. J. Cooze, independent lock-nut. No. 14700.--C. J. Cooze, fire-escape.

No. 14700.--C. J. Cooze, nre-escape. No. 14701.--G. Carrington, bacon-slicer. No. 14702.-J. H. Seymour and W. Wardrop, hat-fastener. No. 14704.--J. Macalister, seed-sower. No. 14705.--J. Macalister, seed-sower.

F. WALDEGRAVE,

Registrar.

Applications for Letters Patent lapsed.

IST of applications for Letters Patent (with which com-plete specifications have been lodged) lapsed from the 22nd January to the 4th February, 1903, inclusive :--No. 13847.-J. C. Newell, music-leaf turner. No. 13851.-J. W. North, securing hat to head. No. 13875.-T. Rawlinson, spark-arrester. F. WALDEGRAVE, Registrar.

Registrar.

Letters Patent void.

IST of Letters Patent void through non-payment of renewal fees from the 22nd January to the 4th February, 1903, inclusive : -

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

No. 11100.-D. W. McLean, holder and cutter for reel of

No. 11104. — R. P. Elmore, rock-drilling machine.
No. 11104. — D. Dunn, vamping appliance.
No. 11109. — P. Treseder and J. A. Jackson, cigar and

No. 11109. — F. Freshert and S. H. Suchash, e.g. and igarette. No. 11110. — B. Green, velocipede. No. 11111. — T. B. Abbott, handle for kerosene-tin. No. 11115. — G. Lovell, slash- or bill-hook. No. 11118. — W. S. Andrews and J. Boock, spring balance and ready reckoner.

[No. 9

No. 11126.-W. Y. Wah, fastener for fixing hose-piping to

nozzle. No. 11129.—A. H. Cotton, hair-comb, &c. No. 11693.—G. de Bechi, complex ores.

THROUGH NON-PAYMENT OF THIRD-TERM FEES. No. 8005.—J. B. Jackson, sheep-shearing machine. No. 8008.—W. Rowbotham, galvanic battery. F. WALDEGRAVE,

Registrar.

Applications for Registration of Trade Marks.

Patent Office.

Wellington, 4th February, 1903. 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: 3943. Date: 19th September, 1902.

TRADE MARK.



The essential particular of this trade mark is the dis-tinctive label; and applicant disclaims any right to the exclusive use of the added matter, except his name.

NAME.

ROBERT WILLIAM HUDSON, trading as "R. S. Hudson," of Bank Hall, Liverpool, in the County of Lancaster, and West Bromwich, in the County of Stafford, both in England. Chemical manufacturer.

No. of class: 47.

Description of goods: Soap, soap-powders, and other preparations of soap for laundry purposes.

No. of application : 4036. Date: 19th December, 1902.

TRADE MARK.

The word PHEROPHON.

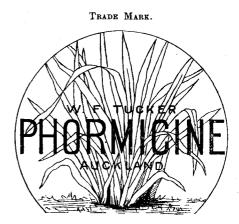
NAME.

S. HOFFNUNG AND Co. (1902), LIMITED, a registered com-pany of Great Britain, carrying on the business of General Merchant at 102, Fore Street, London, E.C., England, and at 165, 167, 169, Pitt Street, Sydney, in the State of New South Wales and Commonwealth of Australia, and elsewhere.

No. of class: 8.

Description of goods: Telephones and distance talking-instruments, specially those for domestic and house and the like use (including parts and accessories), and cognate articles and materials.

No. of application: 4060. Date: 19th January, 1903.



NAME.

WILLIAM FRANCIS TUCKER, of Commerce Street, in the City of Auckland, in New Zealand, Manufacturer.

No. of class: 3. Description of goods: Medicated articles.

No. of application: 4061. Date: 20th January, 1903

TRADE MARK.



The essential particular of this trade mark is the dis-tinctive label comprising the word "Flora" upon a card, a floral device, and a pen crosswise of the whole; and applicant disclaims any right to the exclusive use of the added matter, save and except his name and address.

NAME. ALFRED BILLENS, of Christchurch, New Zealand, Manufacturer.

No. of class: 39. Description of goods: Ink.

No. of application: 4062. Date: 21st January, 1903.

The word

TRADE MARK.



Fев. 5.]

NAME. MARSHALL'S CHEMICAL COMPANY, LIMITED, Dunedin, New Zealand, Manufacturers. No. of application : 4067. Date : 24th January, 1903.

No. of class: 3. Description of goods: Chemical substances prepared for use in medicine and pharmacy.

No. of application : 4065. Date: 23rd January, 1903.



The essential particulars of this trade mark are the bird device and the word "Jay"; and applicant company disclaims any right to the exclusive use of the added matter.

NAME. JOHN SMEDLEY, LIMITED, of Tea Mills, Matlock, Derbyshire, England, Manufacturers.

No. of class: 38. Description of goods: Articles of clothing.

No. of application: 4066. Date: 23rd January. 1903.

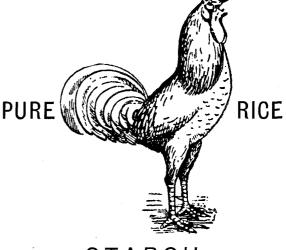
TRADE MARK.



NAME. JOHN SMEDLEY, LIMITED, of Tea Mills, Matlock, Derbyshire, England, Manufacturers.

No. of class: 38. Description of goods: Articles of clothing. TRADE MARK.

"BRAND. "BEATS THEM ALL."



STARCH.

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

NAME.

JOSEPH NATHAN AND COMPANY, LIMITED, of Wellington, New Zealand, Merchants.

No. of class : 47. Description of goods : Starch.

No. of application : 4070. Date: 28th January, 1903.

The word

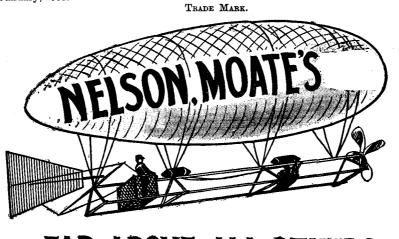
TRADE MARK.

THROGMORTON.

NAME.

J. LYONS AND COMPANY, LIMITED, of Cadby Hall, Kensington, London, England, Merchants, Blenders, Purveyors, and Refreshment Contractors.

No. of class: 43. Description of goods: Whisky. No. of application: 4057. Date: 13th January, 1903.



FAR ABOVE ALL OTHERS STILL RISING IN PUBLIC ESTIMATION



The essential particular of this trade mark is the device of an aerial machine; and applicants disclaim any right to the exclusive use of the added matter, save their name.

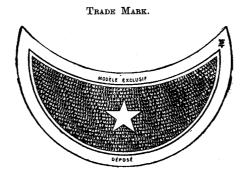
NAME.

NELSON, MOATE, AND COMPANY, LIMITED, Mercer Street, Wellington, New Zealand.

No. of class: 42.

Description of goods: Tea, coffee, spices, jams, baking-powder, cereals, olive-oil, hops, malt, dried fruits, sago, sugar, preserved meats, confectionery, pickles, vinegar, cider, condiments.

No. of application: 4068. Date: 28th January, 1903.





The essential particulars of this trade mark are the words "J. & F. Martell," the coat-of-arms on the shield above such words, and the particular design and arrangement of the arabesque work, scrolls, and vine-leaves in the rectangular label, and the words "J. & F. Martell" in the cresent-shaped label. The applicants claim that the said trade mark has been in use by them and their predecessors in business in respect of the article mentioned for fifty years.

NAME.

MARTELL AND Co., of Cognac, France, Brandy-merchants.

No. of class: 43. Description of goods: Brandy.

FEB. 5.]

THE NEW ZEALAND GAZETTE.

401

No. of application : 4071. Date : 28th January, 1903.



The essential particulars of the trade mark are the device of a Japanese woman and the distinctive label; and applicants disclaim any right to the exclusive use of the added matter, save and except their name and address.

NAME.

MAX GERSTENDORFER and ALBERT GERSTENDORFER, a firm trading as "Gerstendorfer Bros.," of 43, Park Place, New York City and State of New York, United States of America.

No. of class: 1.

Description of goods: Paints, enamels, varnishes, lacquers, and aluminium and bronze paints and powders. NAME.

MAX GERSTENDORFER and ALBERT GERSTENDORFER, a firm trading as "Gerstendorfer Bros.," of 43, Park Place, New York City and State of New York, United States of America.

No. of class: 1.

Description of goods : Paints, enamels, varnishes, lacquers' and aluminium and bronze paints and powders.

No. of application : 4073. Date : 28th January, 1903.



NAME.

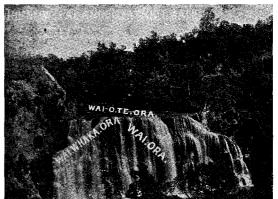
GRIFFITHS BROTHERS AND Co., 29, Mack's Road, Bermondsey, London, England, Paint, Colour, and Varnish Manufacturers.

No. of class: 1.

Description of goods: Chemical substances used in manufactures, photography, or philosophical research, and anticorrosives.

No. of application: 4074. Date: 28th January, 1903.





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

NAME.

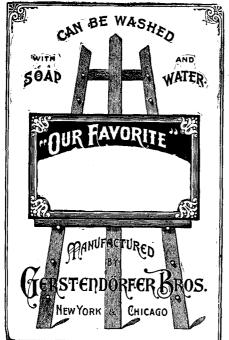
JOHN FABIAN, Queen Street, Auckland, New Zealand, Hotelkeeper.

No. of class: 3. Description of goods: Rheumatic cure.

> F. WALDEGRAVE, Registrar.

No. of application: 4072. Date: 28th January, 1903.





The essential particular of the trade mark is the device of an easel supporting a rectangular framed panel; and applicants disclaim any right to the exclusive use of the added matter, except their name and address.

Trade Marks registered.

IST of Trade Marks registered from the 23rd January to the 4th February, 1903, inclusive :--No. 3111; 3976. — The Iceberg Butter-box Syndicate. Class 50. (Gazette No. 94, of the 13th November, 1902.) No. 3112; 3979. – Aulsebrook and Co. (R. E. McDougall, Proprietor). Class 42. (Gazette No. 94, of the 13th Novem-ber. 1902.)

No. 3113; 3623. — Stanley Newcomb and Company. Class 39. (Gazette No. 3, of the 9th January, 1902.) No. 3114; 3964.— Vacuum Oil Company. Class 47. (Gazette No. 83, of the 16th October, 1902.) No. 3115; 3828. — Eltham Co-operative Dairy Factory Company, Limited. Class 42. (Gazette No. 50, of the 27th June, 1902.) No. 3116; 4004.—A. M. and A. Hertzberg

June, 1902.) No. 3116; 4004.—A. M. and A. Hertzberg and B. Cohen. Class 3. (*Gazette* No. 99, of the 27th November, 1902.) No. 3117; 3991.—J. Nathan and Co., Limited. Class 47. (*Gazette* No. 94, of the 18th November, 1902.) No. 3118; 3992.—J. Nathan and Co., Limited. Class 50. (*Gazette* No. 94, of the 18th November, 1902.) F. WALDEGRAVE, Bogistran

Registrar.

January, 1903.

Subsequent Proprietors of Trade Mark registered.

 $[{\tt NOTE}.{--}{\rm The}$ name of the former proprietor is given in brackets; the date is that of registration.]

N OS. 84/2641 and 85/263.-Evans, Sons, Lescher, and Webb, Limited, of 56, Hanover Street, Liverpool, in the County of Lancaster, England, Wholesale and Export Druggists and Manufacturing Chemists. [Evans, Sons, and 2nd February, 1903. Co.]

F. WALDEGRAVE, Registrar. Request for Correction of Clerical Error in Trade Mark Application.

N O. 4029.—M. Allen. (Advertised in Supplement to New Zealand Gazette, No. 2, of the 8th January, 1903.) To alter the name "Allen" to "Allan."

F. WALDEGRAVE, Registrar.

Trade Mark Application withdrawn.

THE following application for Trade Mark has been with-drawn, viz. :-drawn, viz. :

No. 4049. — Griffiths Brothers and Co. (Advertised in Supplement to New Zealand Gazette, No. 2, of the 8th January, 1903.)

F. WALDEGRAVE, Registrar.

Trade Mark Renewal Fee paid.

TEE paid for renewal of undermentioned Trade Marks for fourteen years from the 1st January, 1904 :--No. 82/4760.-Heidsieck and Co. (six trade marks). 26th

> F. WALDEGRAVE, Registrar.

Alphabetical List of Applicants for Letters Patent for Quarter ending 31st December, 1902.

THIS list includes also (1) applications lodged prior to but gazetted during the quarter, (2) complete specifications following provisional specifications accepted and gazetted during the quarter. Where the number and date of the *Gazette* are omitted, the application has not yet been accepted.

* Denotes a provisional specification. † Denotes a prior date under section 106 of "The Patents, Designs, and Trade Marks Act, 1889."

	Application.		Gazette.		
Name, Address, and Invention.	No.	Date.	No.	Date.	
Adams, R. N., Dunedin, N.Z. Fastener for umbrella	$15789 \\ 15478 \\ 15657 \\ 15506 \\ 15609 \\ 15611 \\ 15776 \\ 1577$	16 Dec. 6 Oct. 20 Nov. 13 Oct. 6 Nov. 6 Nov. 17 Dec.	2 87 99 6 99 94 2	8 Jan., 1903.* 30 Oct. 27 Nov. 23 Jan., 1903. 27 Nov. 13 Nov.* 8 Jan., 1903.*	
 American Tobacco Company, New York, U.S.A. Cigarette-machine. (J. Wojciechowski) Amesbury, D. E., Feilding, N.Z. Castor Amesbury, D. E., Feilding, N.Z. Castor 	15603 14691	5 Nov 1 April	99 2	27 Nov. 8 Jan., 1903.	
 Amos, F. J., and others, Christohurch, N.Z. Sustaining air-pressure in tires Anderson, J., Dunedin, N.Z. Printing-roller Anderson, J. T. N., Dunedin, N.Z. Sewage-treating tank Anderson, J. T. N., Dunedin, N.Z. Water-filter Anderson, T., and another, New Plymouth, N.Z. Horse-cover fastening Andrewartha, J., and another, Moonta, South Australia. (See H. V. McGr. No. 14766) 	$15567 \\ 15486 \\ 15679 \\ 15756 \\ 1576$	28 Oct. 4 Oct. 22 Nov. 11 Dec. 15 Dec.	99 87 102 6	27 Nov.* 30 Oct. 11 Dec.* 23 Jan., 1903.	
McKay, No. 14746.) Andrewartha, J., and another, Moonta, South Australia. (See H. V. McKay, No. 14746.) Anstice, H., Levin, N.Z. Fastening for tailboard of cart Arlidge, W. B., Wellington, N.Z. Scutching-machine Armstrong, J., Auckland, N.Z. Securing cord to sash Arthur, J., jun., Orepuki, N.Z. Shovel Arthur, J., W., Te Tua, N.Z. Poisoning grain Arthur, R., Auckland, N.Z. Discharging products of combustion Ashworth, H., Wellington, N.Z. Street-watering Austin, H., and others, Birmingham, Eng. Machine for cutting wool	$15754 \\ 14923 \\ 15449 \\ 15810 \\ 15549 \\ 14669 \\ 15772 \\ 15644$	12 Dec 26 May 26 Sept 23 Dec 16 Oct 22 March 17 Dec 19 Nov	2 83 99 6 87 2 2 99	8 Jan., 1903.* 16 Oct. 27 Nov.* 23 Jan., 1903.* 30 Oct.* 8 Jan., 1903. 8 Jan., 1903.* 27 Nov.	
Ayson, R. W., Kaihiku, N.Z. Drill for seed-sowing	15723	2 Dec	2	8 Jan., 1903.*	
 Babcock and Wilcox, Limited, London, Eng. (See J. Chambers and Son, Limited, No. 14338.) Baertl, F., Zurich, Switzerland. Pressure-regulator for gas-burner Bain, W., Christchurch, N.Z. Castor	$\left.\begin{array}{c} 15645\\ 15764\\ 15638\\ 15616\\ 15699\\ 15681\\ 15687\end{array}\right.$	19 Nov. 15 Dec. 15 Nov. 7 Nov. 26 Nov. 26 Nov. 27 Nov.	$99 \\ 2 \\ 99 \\ 99 \\ 102 \\ 102 \\ 2 \\ 102$	27 Nov. 8 Jan., 1903.* 27 Nov.* 11 Dec. 11 Dec.* 8 Jan., 1903. 11 Dec.	
from their ores. (G. D. Delprat) Ballin, H. J., Christchurch, N.Z. Manufacture of aerated waters. (E. P. Coulter)	15555	25 Oct	94	13 Nov.*	
Bamber, M. K., and another, Colombo, Ceylon. Obtaining extract of tea	15664	18 Nov	99	27 Nov.	
Banks, H., Wellington, N.Z. Table-cricket Barrett, R., Adelaide, South Australia. Venetian-blind Bartle, W. M., Napier, N.Z. Water-closet Barton, E. L., Hawera, N.Z. Electric conductor Barton, W., Featherston, N.Z. Delivering milk into cans Baseman, E., and another. (See Bickford and Huffman Company, No. 15653.)	$\begin{array}{c} 15477 \\ 15523 \\ 14625 \\ 15804 \\ 15460 \end{array}$	6 Oct. 16 Oct. 14 March 23 Dec. 1 Oct.	87 87 2 2 83	30 Oct. 30 Oct.* 8 Jan., 1903. 8 Jan., 1903.* 16 Oct.*	
Basley, G. W., Auckland, N.Z. Electric belt. (M. A. McLaughlin) Basley, G. W., Auckland, N.Z. Cash-carrier railway. (M. S. Giles) Basley, G. W., Auckland, N.Z. Motion-transmitting mechanism. (H. Smith)	$\begin{array}{c} 15001 \\ 15547 \\ 15724 \end{array}$	11 June 20 Oct 1 Dec	83 87 2	16 Oct. 30 Oct. 8 Jan., 1903.	
Bates, J., and another, North Melbourne, Vic. Washing copper Baux, H., Auckland, N.Z. Heating water Beamish, W., Cromwell, N.Z. Sling and shackle Beamish, W., Cromwell, N.Z. Sack mouth fastener Beamish, W., Cromwell, N.Z. Boot-fastener Beamish, W., Cromwell, N.Z. Dredge-bucket links Beamish, W., Cromwell, N.Z. Carrying a running line over a	$\begin{array}{c} 15692 \\ 15524 \\ 15507 \\ 15508 \\ 15533 \\ 15544 \\ 15630 \end{array}$	27 Nov. 14 Oct. 11 Oct. 16 Oct. 21 Oct. 11 Nov.	102 87 87 87 87 87 99	11 Dec. 30 Oct.* 30 Oct.* 30 Oct.* 30 Oct.* 30 Oct.* 27 Nov.*	
standing line Beamish, W., Cromwell, N.Z. Oil-feeding can Beamish, W., Cromwell, N.Z. Trouser-clip Beamish, W., Cromwell, N.Z. Sack-mouth fastener Beamish, W., Cromwell, N.Z. Button-hole Bedford, J., and another, Puriri, N.Z. Windmill Belk, J. A., Feilding, N.Z. Sustaining window-sash, &c Bell, J. R., and another, Groper's Bush, N.Z. Lifting-jack Bell, J. R., and another, Melbourne, Vio. Lock-nut plate Bergersen, C. A., Palmerston North, N.Z. Wire-strainer Bickford and Huffman Company, New York, U.S.A. Furrow-opener. (J. S. Heath and E. Baseman)	$\begin{array}{c} 15631 \\ 15669 \\ 15797 \\ 14541 \\ 13968 \\ 15760 \\ 15623 \\ 15406 \\ 15683 \end{array}$	11 Nov. 19 Nov. 19 Nov. 19 Dec. 20 Feb. 4 Sept., 1901 15 Dec. 15 Dec. 16 Sept. 26 Nov.	99 99 99 2 102 102 2 99 99 99	27 Nov.* 27 Nov.* 27 Nov.* 8 Jan., 1903.* 11 Dec. 8 Jan., 1903. 27 Nov.* 27 Nov. 11 Dec.	
Bigelow, G. H., Auckland, N.Z. Nut-lock	14845 14405 15808 15487	1 May 8 Jan 20 Dec 30 Oct	83 87 2 87	16 Oct. 30 Oct. 8 Jan., 1903. 30 Oct.*	

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT-continued.

Name Adduce and Importion	Application.		Gazette.	
Name, Address, and Invention.	No.	Date.	No.	Date.
Bland, H., Sydney, N.S.W. Elastic-fluid compression	15581	31 Oct	94	13 Nov.
Boardman, G., and another, Sydney, N.S.W. Flushing-cistern	15694	27 Nov	82	8 Jan., 1903.
omford, J., and others, Wellington, N.Z. Broom-handle oreham, J. A., Dunedin, N.Z. Sheep-shears (J. Boreham)	$15594 \\ 15553$	4 Nov 23 Oct	94 94	13 Nov. 13 Nov.*
oreham, J., Kurow, N.Z. (See J. A. Boreham, No. 15553.)	10000	23 Uct	54	15 100.
orlase, W., Dunedin, N.Z. Tongs	15488	3 Oct	87	30 Oct.*
Sorlase, W., Dunedin, N.Z. Animal-trap	$15735 \\ 15420$	6 Dec 19 Sept	2 94	8 Jan., 1903.' 13 Nov.
Botting, W. J., Shannon, N.Z. Destroying blight	15538	22 Oct	87	30 Oct.*
Bowman, O., and others, Perth, W.A. Cleaning tram-rails Bowmar, E., Gore, N.Z. Canister for sowing seeds	$14863 \\ 15604$	9 May 5 Nov	78 94	2 Oct. 13 Nov.*
Bowring, J. C., Sydney, N.S.W. Spark-arrester	15715	4 Dec	2	8 Jan., 1903.
Boyd, J. A., Wellington, N.Z. Knife-cleaner	15729	8 Dec	2	8 Jan., 1903.
Boyens, W. H., Kaikoura, N.Z. Siphon Boxall, R., and another, Brisbane, Queensland. Butter-printing	$14396 \\ 15543$	3 Jan 23 Oct	94	13 Nov. 27 Nov.*
machine Bradshaw, R. F., and another, Boulder, W.A. High-pressure tap for	15769	17 Dec	2	
filter-press				8 Jan., 1903.
Braithwaite, J. H., Barnsley, Eng. Variable-speed gearing for velocipedes, &c.	15770	17 Dec	2	8 Jan., 1903.
Bremer, H., Neheim-on-the-Ruhr, Germany. (See J. P. Campbell, No. 15786.)				
Bridges, C. L., Wanganui, N.7. Incubator	$15476 \\ 14805$	6 Oct 29 April	87 87	30 Oct.* 30 Oct.
Brown, G. F., Hurstville, N.S.W. Tire-covering	15615	7 Nov	99	27 Nov.*
Brown, J. H. S., Auckland, N.Z. Combined cigarette and match box	15663	18 Nov	99	27 Nov.*
Brown, J. H. S., Auckland, N.Z. Window lock	15696 14400	25 Nov 6 Jan	102 83	11 Dec. 16 Oct.
Brownley, A. H., Onehunga, N.Z. Advertising parcel-grip	15570	30 Oct	2	8 Jan., 1903.
Brummer, D., Vienna, Austria. Portable building	15651	23 Nov., 1901†		16 0-4
Brunt, J. R., and another, Christchurch, N.Z. Pneumatic tire	14408	8 Jan	83	16 Oct. 27 Nov.*
Burdett-Stuart, F. A., Chertsey, N.Z. Bird-trap	15595	4 Nov	1 2	8 Jan., 1903.
Burge, J., Warragul, Vic. Rug for cows, &c Burgon, H., Sheffield, Eng. Sheep shears	$15624 \\ 15682$	13 Nov 15 Feb	99 102	27 Nov. 11 Dec.
Burman, E. S., Caulfield, Vic. Canning butter	15456	1 Oct	83	16 Oct.
Burt, A., Dunedin, N.Z. Flushing-tank	15562	25 Oct	94	13 Nov.*
Jampbell, A., Sutton, N.Z. Animal-trap	$\begin{array}{r} 15791 \\ 15437 \\ 15785 \end{array}$	16 Dec. 24 Sept. 18 Dec.	$ \begin{array}{c} 2 \\ 102 \\ 2 \end{array} $	8 Jan., 1903.* 11 Dec. 8 Jan., 1903.
(H. R. Stuart.) Sampbell, J. P., Wellington, N.Z. Electric arc lamp. (H. Bremer)	15786	18 Dec	2	8 Jan., 1903.
ampbell, J. P., Wellington, N.Z. Dynamo. (H. Chitty)	15822	30 Dec	6	23 Jan., 1903.
Carruthers, J. A., St. James, Vic. Electric clock	15646	19 Nov	99	27 Nov. 27 Nov.
Carruthers, J. A., St. James, Vic. Electric clock	$15647 \\ 14476$	19 Nov 27 Jan	99 94	13 Nov.
Dhamberlain, W. E., Auckland, N.Z. Seed-sower	15806	23 Dec	•••	••
Chamberlain, W. E, and another, Feilding, N.Z. Cooling cream, &c. Chambers, J., and Son, Limited, Auckland, N.Z. Boiler-furnace.	$15825 \\ 14338$	31 Dec 16 Dec., 1901	$\begin{array}{c} 6\\102\end{array}$	23 Jan., 1903. 11 Dec.
(Babcock and Wilcox) Uhannon, J., Hornsby, N.S.W. Lock for mail-bag. (J. J. Russell) Chapman, W., and another, Teddington, Eng. (See J. T. Hunter, No. 15570)	15678	25 Nov	102	11 Dec.
No. 15579.) Cheney, S., Freeling, South Australia. Railway brake	15566	29 Oct	94	13 Nov.*
Cherrie, M. J., Huntly, N.Z. Opening oysters Chitty, H., Slater, Eng. (See J. P. Campbell, No. 15822.)	15705	2 Dec	102	11 Dec.*
hurch, E. J., Ashburton, N.Z. Wire-coller.	15463	1 Oct	83	16 Oct.*
Olanoy White-lead Company Proprietary, Limited, Footscray, Vic. White-lead. (J. C. Clancy)	15542	23 Oct	87	30 Oct.
lancy, J. C., Footscray, Vic. (See Clancy White-lead Company				
Proprietary, Limited, No. 15542.) Clapham, G. H., East St. Kilda, Vic. Gas-manufacture	15745	11 Dec	2	8 Jan., 1903.
Clark J., Okato, N.Z. Manufacture of bricks	15459	1 Oct	83	16 Oct.*
Cleaver, A. E., Rongotes, N.Z. Fire-escape	15532	18 Oct	87	30 Oct.*
Clennell, F., and others, Wellington, N.Z. Signalling state of tide Cochrane, D. L., Otahuhu, Auckland, N.Z. Dray scoop	15776 15676	17 Dec 19 Nov	2 99	8 Jan., 1903. 27 Nov.*
Cochrane, D. L., Otahuhu, Auckland, N.Z. Dray scoop	15712	3 Dec	102	11 Dec.*
Coe, H., Greymouth, N.Z. Plough Coleman, W. E., New Dorp, U.S.A. Electric fan	15642 15602	17 Nov 5 Nov	99 94	27 Nov.* 13 Nov.
Jolonial Ammunition Company, Limited, Auckland, N.Z. Wad.)	15435	1 .	102	11 Dec.
(A. C. Whitney)		24 Sept. {	102	11 Dec.*
Constable, C. W., Queenstown, N.Z. Spark-arrester Constable, C. W., Queenstown, N.Z. Rabbit-trap	15485 15675	1 Oct 19 Nov	87 102	30 Oct.* 11 Dec.*
Constable, J., Napier, N.Z. Siphon for water-closet	15670	22 Nov	102	11 Dec.
Coomber, J. D., Dunedin, N.Z. Raising gold	15529 15742	14 Oct 10 Dec	87	30 Oct.* 8 Jan., 1903.
Cooley Development Company, Boston, U.S.A. Rotary fluid-engine.	15784	18 Dec	2	8 Jan., 1903.
(J. F. Cooley) Cooley, J. F., Boston, U.S.A. (See Cooley Development Company, No. 15784)				
No. 15784.) Cooper, F., Invercargill, N.Z. Cultivator	14677		2	8 Jan., 1903.
Cooper, F., Christchurch, N.Z. Potato-planter	15737	24 Nov	2	8 Jan., 1903.
Cooper, F., Christchurch, N.Z. Clod-crusher, &c Cooper, K., Christchurch, N.Z. Preparation for the skin	15738 15520	24 Nov 15 Oct	2 87	8 Jan., 1903. 30 Oct.*
Cormack, J., Wyndham, N.Z. Coulter-centre	15680	22 Nov	102	11 Dec.
Cormack, W., and another, Midlothian, Scotland. Gelatine	15767	17 Dec	·· ₆	23 Jan., 1903.
Corrington, M., New York, U.S.A. Safety-valve,	15820	30 Dec	1 6	- 25 Jan., 1903

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THE NEW ZEALAND GAZETTE.

ALPHABETICAL LIST OF APPLICANTS FOB LETTERS PATENT-continued.

Name, Address, and Invention.		appneaeou.	1	ALPHABETICAL LIST OF APPLICANTS FOB LETTERS PATENT—continued. Application. Gazette.			
	No.	Date.	No.	Date.			
Cossar, T., Govan, Scotland. Printing-machine Coulsell, A. C., and others, North Melbourne, Vic. Water-column	$15575 \\ 15677$	30 Oct 25 Nov	102	 11 Dec.*			
boiler Coulsell, F. F., and others, North Melbourne, Vic. Water-column boiler	15677	25 Nov	102	11 Dec.*			
Coulsell, H. W., and others, North Melbourne, Vic. Water-column boiler	15677	25 Nov	102	11 Dec.*			
Coulsell, L. B., and others, North Melbourne, Vic. Water-column boiler	15677	25 Nov	102	11 Dec.			
Coulter, E. P., Melbourne, Vic. (See H. J. Ballin, No. 15555.) Cowan, J., Edinburgh, Scotland. Water-tube boiler Cowan, S. J., and another, Tingha, N.S.W. Starting horse-race Crawford, B., and another, Auckland, N.Z. Ventilator Croll, G., Christchurch, N.Z. Life-saving raft Cummins, T. D., and another, Wanganui, N.Z. Dropper for wire fences	$15569 \\ 15716 \\ 15481 \\ 15672 \\ 15755$	30 Oct. 4 Dec. 3 Oct. 22 Nov. 13 Dec.	$94 \\ 102 \\ 87 \\ 102 \\ 2$	13 Nov. 11 Dec. 30 Oct. 11 Dec.* 8 Jan., 1903.			
Dalton, W. J., Auckland, N.Z. Telescopic tap Darling, P. J., and others, Christchurch, N.Z. Sustaining air-pres- sure in tires	$15592 \\ 15567$	30 Oct 28 Oct	94 99	13 Nov. 27 Nov.*			
Davey, W. S., Featherston, N.Z. Milk cooler and filler Davidson, W. L., Cheviot, N.Z. Stopper bottle Davies, J. B., Malvern, Vic. (See C. F. Dunn, No. 15774.)	$\begin{array}{c} 15539 \\ 15554 \end{array}$	22 Oct 27 Oct	87 94	30 Oct.* 13 Nov.*			
Davy, K., Wanganui, N.Z. Umbrella Dawson, W., Wanganui, N.Z. Table game De Lajard, C. P., Avignon, France. Power from waves of sea Delprat, G. D., Broken Hill, N.S.W. (See E. S. Baldwin and H. H.	$15545 \\ 15458 \\ 15654$	22 Oct 1 Oct 19 Nov	87 83 99	30 Oct.* 16 Oct.* 27 Nov.			
Rayward, Nos. 15687, 15681.) Donnelly, J. F., Feilding, N.Z. Hair-preparation Dixon, H., Mataura, N.Z. Rat-trap Dixon, H., Mataura, N.Z. Rat-trap Dolter Electric Traction, Limited, London, Eng. Electric-traction system. (H. Dolter) Dolter, H., Paris, France. (See Dolter Electric Traction, Limited,	15531 15812 15813 15768	18 Oct. 23 Dec. 23 Dec. 15 Dec.	87 6 6 2	30 Oct.* 23 Jan., 1903. 23 Jan., 1903. 8 Jan., 1903.			
No. 15768.) Douglas, A., Auckland, N.Z. Buckle attachment to spring hook Downing, H. W., Christchurch, N.Z. Saddle Droutlege, H., Auckland, N.Z. Totalisator Duke, R. W., London, Eng. Toy Dunbar, A., South Melbourne, Vic. Feed-water heaters. (J. Macartney)	$\begin{array}{c c} 14454 \\ 15556 \\ 15814 \\ 15599 \\ 15157 \end{array}$	21 Jan 27 Oct 22 Dec 5 Nov 24 July		16 Oct. 13 Nov.* 23 Jan., 1903.* 13 Nov.* 11 Dec.			
Duncan, G. S., Melbourne, Vic. Con-body-making machines. (R. D. Hume)	15491	9 Oct	87	30 Oct.			
Dunlop, G. H., Melbourne, Vic. Linings for tunnels	$\begin{array}{r} 15819 \\ 15774 \\ 15695 \end{array}$	30 Dec. 17 Dec. 25 Nov.	$\begin{array}{c c} 6\\ 2\\ 102 \end{array}$	23 Jan., 1903. 8 Jan., 1903. 11 Dec.*			
Economic Hoisting and Ballast Company, San Francisco, U.S.A.	15740	11 Dec	2	8 Jan., 1903.			
Unloading vessels. (A. Mullan) Ellis, J., Warragul, Vic. Securing horse-rugs Elswood, W., New York, U.S.A. Electric fans Evans, W. J., and another, Brisbane, Queensland. Dredge-buckets Ewing, J., jun., Richmond, Canada. Life-preserver Ewing, R., and another, Wellington, N.Z. Renewing window-cords	$15811 \\ 15602 \\ 15437 \\ 15809 \\ 15499$	24 Dec. 5 Nov. 24 Sept. 24 Dec. 10 Oct.	$ \begin{array}{c} 2 \\ 94 \\ 102 \\ 2 \\ \dots \end{array} $	8 Jan., 1903.* 13 Nov. 11 Dec. 8 Jan., 1903.			
Fagan, L., Mangapai, N.Z. Piano bracket lamp Fahey, W. H., and another, Dunedin, N.Z. Hair and hat pin and fastening	$\frac{15472}{14828}$	4 Oct 2 May	83 2	16 Oct.* 8 Jan., 1903.			
Fahey, W. H., and another, Dunedin, N.Z. Hat-fastener Fairweather, J., and others, Blenheim, N.Z. Selvedge-stripping flax-drum	$15628 \\ 15795$	11 Nov 18 Dec	99 2	27 Nov.* 8 Jan., 1903.*			
Fairweather, W., and others, Blenheim, N.Z. Selvedge-stripping flax-drum	15795	18 Dec	2	8 Jan., 1903.*			
Fairweather, W., jun., and others, Blenheim, N.Z. Selvedge-stripping flax-drum	15795	18 Dec	2	8 Jan., 1903.*			
Firth, T., Wellington, N.Z. Vehicle wheel lock Flameless Gaslight Company, Limited, London, Eng. Gas-burner. (W. Hooker)	$15758 \\ 15578$	15 Dec 30 Oct	2 94	8 Jan., 1903.* 13 Nov.			
Flameless Gaslight Company, Limited, London, Eng. Incan- descence gas lighting. (W. Hooker)	15124	17 July	87	30 Oct.			
 Foot, F. J., and another, Greymouth, N.Z. Gold-saving screen Forbes, W. C., Elsternwick, Vic. Course-recorder for ships Free, J., Brighton, N.Z. Artesian-water pipes Fyfe, W. W., Middlesex, Eng. (See Metallic Compounds Separation Syndicate, Limited, No. 15572.) 	15563 15541 15701	25 Oct 22 Oct 28 Nov	94 87 2	13 Nov. 30 Oct. 8 Jan., 1903.*			
Galbraith, D. R. S., Auckland, N.Z. Utilising deposits of kauri-gum Galbraith, D. R. S., and another, Auckland, N.Z. Reduction of iron- sand	$\frac{14492}{15661}$	31 Jan 18 Nov	2 99	8 Jan., 1903. 27 Nov.*			
Galbraith, D. R. S., and another, Auckland, N.Z. Reduction of iron- sand	15662	18 Nov	99	27 Nov.*			
 Gamman, W. A., Dannevirke, N.Z. Reversing rotation of shafting Gardiner, J. H., Christchurch, N.Z. Wool-washing Gardiner, W., Southland, N.Z. Drill-rollers Gargurevich, M., North Carlton, Vic. Recovery of gold Gascoyne, D., Auckland, N.Z. Lamp-wick Gates, S., Sydney, N.S.W. (See Lamson Store-service Company, Limited, Nos. 15573 and 15574.) 	15684 15803 15605 15468 15743	26 Nov. 22 Dec. 3 Nov. 3 Oct. 10 Dec.	$102 \\ 2 \\ 94 \\ 83 \\ 2$	11 Dec. 8 Jan., 1903.* 13 Nov.* 16 Oct.* 8 Jan., 1903.*			

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT-continued.

		Application.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Gaulin, A., Paris, France. Mixing milk	$\begin{array}{c} 15750\\ 15565\\ 15706\\ 14097\\ 15640\\ 15632\\ 15632\\ 15497\\ 15537\\ 15614 \end{array}$	11 Dec. 29 Oct. 2 Dec. 5 Oct., 1901 13 Nov. 11 Nov. 7 Oct. 18 Oct. 5 Nov.	2 94 102 83 99 99 87 87 99	8 Jan., 1903. 13 Nov.* 11 Dec. 16 Oct. 27 Nov.* 27 Nov.* 30 Oct.* 27 Nov.* 27 Nov.*
Giles, M. S., Sydney, N.S.W. (See G. W. Basley, No. 15547.) Gillies, A., and another, Terang, Vic. Milking machine Gillies, A., and another, Terang, Vic. Milking-machine Gillies, A., Terang, Vic. Milking-apparatus Godfrey, A., London, Eng. Wrapping and packing cigarettes Goltstein, E., Cologne, Germany. (See J. A. Landsberger, No. 15739.)	15597 15598 15652 15540	5 Nov 5 Nov 19 Nov 22 Oct	94 94 99 6	13 Nov.* 13 Nov.* 27 Nov. 23 Jan., 1903.
Good, J. T., Glenthompson, Vic. Attachment to rabbit traps Goucher, T., Ulverston, Tasmania. Target	$\begin{array}{r} 14747 \\ 14565 \\ 15465 \\ 14738 \\ 15504 \end{array}$	14 April 28 Feb. 2 Oct. 12 April 10 Oct.	78 102 83 94 87	2 Oct. 11 Dec. 16 Oct.* 13 Nov. 30 Oct.*
Ham, H., Kumeroa, Hawke's Bay, N.Z. Nightsoil receptacle Hankin, H. G., Inangahua, N.Z. Gold-saving Hanna, D., Christchurch, N.Z. Pumping smoke Hansen, O., Gisborne, N.Z. Closing gates Harding, W. E., and another, Boulder, W.A. High-pressure tap for filter-press Hare, W. W., London, Eng. (See Inverted Incandescent Gas-lamp	$15648 \\ 14564 \\ 15643 \\ 15483 \\ 15483 \\ 15769$	19 Nov. 27 Feb. 17 Nov. 4 Oct. 17 Dec.	99 83 99 87 2	27 Nov.* 16 Oct. 27 Nov.* 30 Oct.* 8 Jan., 1903.
Syndicate, Limited, No. 14612.) Harkin, P. A., Auckland, N.Z. Moulding confectionery Harris, D., Ballance, N.Z. Acrating and cooling milk Harris, D., Ballance, N.Z. Securing wires of fence Harrison, J. R., Ballarat, Vic. Ore concentrator and amalgamator Harrison, R., Wellington, N.Z. Hæmatite concrete, &c. Harrison, R., Wellington, N.Z. Lawn-weeding tool Hasselbach, E., Surrey Hills, Vic. Game Hatton, F., Timaru, N.Z. Wheel-stopper for carriage, &c. Hatton, T. C., Ontario, Canada. Carriage spring Hatton, W., Feilding, N.Z. Holding target for shooting Haughton, B. S., Wellington, N.Z. Stop-cock Hayes, F. W., Albury, N.S.W. Punkah for chairs Hayward, C. E., Auckland, N.Z. Wire-tightner Heath, J. S., and another. (See Bickford and Huffman Company,	$\begin{array}{c} 15665\\ 15619\\ 15620\\ 15557\\ 15462\\ 15673\\ 15714\\ 15736\\ 15720\\ 15561\\ 15730\\ 15568\\ 15590\\ 15482 \end{array}$	21 Nov. 12 Nov. 12 Nov. 27 Oct. 1 Oct. 24 Nov. 3 Dec. 6 Dec. 4 Dec. 25 Oct. 8 Dec. 30 Oct. 3 Nov. 7 Oct.	99 99 94 83 102 2 102 94 2 2 94 94 94 87	27 Nov. 27 Nov. 27 Nov. 13 Nov.* 16 Oct.* 11 Dec.* 11 Dec.* 11 Dec.* 13 Nov. 8 Jan., 1903.* 13 Nov. 8 Jan., 1903.* 13 Nov. 13 Nov.* 30 Oct.
No. 15683.) Hege, C. A., Salem, U.S.A. Cutting railroad cross-ties Henderson, F., Auckland, N.Z. Electric ignition for engine Henderson, H. W. G., Dannevirke, N.Z. Carburetted water-gas Henderson, J. W., Wellington, N.Z. Earth-closet Herd, F. G., and another. Wellington, N.Z. Support for settee, &c. Herd, T., and another, Wellington, N.Z. Indicating length of roll of	$\begin{array}{c} 15691 \\ 15525 \\ 14654 \\ 15686 \\ 14512 \\ 15471 \end{array}$	27 Nov. 15 Oct. 20 March 27 Nov. 11 Feb. 30 Oct.	102 87 83 102 99 83	11 Dec. 30 Oct.* 16 Oct. 11 Dec.* 27 Nov. 16 Oct.*
textile material Higgie, T. M., Wanganui, N.Z. Scrubber	$\begin{array}{c} 15454 \\ 15753 \\ 15782 \\ 14383 \\ 14515 \end{array}$	25 Oct 10 Dec 18 Dec 30 Dec., 1901 12 Feb	94 2 2 83 99	13 Nov. 8 Jan., 1903. 8 Jan., 1903. 16 Oct. 27 Nov.
Hood, W. G., and others, Petone, N.Z. Marine governor Hooker, W., London, Eng. (See Flameless Gaslight Company, Limited, Nos. 15124 and 15578.)	15633	15 Nov	99	27 Nov.*
Hopkins, E. H., Kensington, Eng. Obtaining zinc	$\frac{15728}{15700}\\15751$	5 June† 29 Nov 9 Dec	2 6 2	8 Jan., 1903. 23 Jan., 1903.* 8 Jan., 1903.
pipes Hughes, W. E., Wellington, N.Z. Milking-machine. (D. R. Ross) Hughes, W. E., Wellington, N.Z. Treating ore. (E. H. Miller and C. Quennell)	$\begin{array}{c} 15564 \\ 15780 \end{array}$	29 Oct 18 Dec	94 2	13 Nov.* 8 Jan., 1903.*
Hughes, W. E., Wellington, N.Z. Electric railway. (G. Gibbs) Hume, R. D., Oregon, U.S.A. (See G. S. Duncan, No. 15491.)	15781	18 Dec	2	8 Jan., 1903.
Humphrey, A. A., London, Eng. Compressing air Hunter, J. T., Wellington, N.Z. Electric-tram brake. (G. A. Trube	$15521 \\ 15579$	16 Oct 30 Oct	(87 102 94	30 Oct.* 11 Dec. 13 Nov.
 Hunter, J. T., Wellington, N.Z. Electric train brace. (G. A. Frude and W. Chapman) Hunter, W. Y., Transvaal, South Africa. Tent, &c Hupton, H. E., and another, Brighton, Eng. Stand for exbibition 	15707 15613	2 Dec 4 Nov	102 99	11 Dec. 27 Nov.
purposes Hurley, G. A., and another, Wellington, N.Z. Gold-saving Hyde, W. R., Ashburton, N.Z. Generating acetylene-gas Hylard, J., and another, Melbourne, Vic. Magazine gun	$14401 \\ 15606 \\ 14405$	6 Jan 4 Nov 8 Jan	94	30 Oct. 13 Nov. 30 Oct.
Inglis, G., and another, Auckland, N.Z. Glazing corrugated iron International Fuel Company, Chicago, U.S.A. Artificial-fuel	$15637 \\ 15576$	15 Nov 30 Oct	99 94	27 Nov. 13 Nov.
briquettes. (W. A. Koneman) Inverted Incandescent Gas-lamp Syndicate, London, Eng. Gas- burner. (W. W. Hare)	14612	13 March	87	30 Oct.

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT-continued.

	A	pplication.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Iwan, J. H., and another, Streator, U.S.A. Earth augur Iwan, W. L., and another, Streator, U.S.A. Earth-augur	$15790 \\ 15790$	16 Dec 16 Dec		8 Jan., 1903. 8 Jan., 1903.
Jacob, I., and another, Rudolstadt, Germany. Manufacture of fibre	15711	29 Nov	. 2	8 Jan., 1903.
from New Zealand flax Jacobsen, T. B., Auckland, N.Z. Handles of door-locks	14652	20 March .	. 102	11 Dec.
 Jameson, J. M. (See E. R. Jennings and others, No. 15653.) Jenkinson, W., New Plymouth, N.Z. Seats for vehicle Jennings, E. R., and others, London, Eng. Converting refuse into fuel. (J. M. Jameson) 	$15509 \\ 15653$	9 Oct 19 Nov	00	30 Oct.* 27 Nov.*
Jepsen, J. F., and others, Wellington, N.Z. Broom-handle Jepsen, J. S., and others, Wellington, N.Z. Broom-handle	$15594 \\ 15594$	4 Nov 4 Nov	1 04	13 Nov. 13 Nov.
fensen M. and others. Wellington, N.Z. Broom handle	15594	4 Nov 4 Nov	0.1	13 Nov. 13 Nov.
Jepsen, N., and others, Wellington, N.Z. Broom-handle Jewell, J. R., and another, East Brunswick, Vic. Wheel-lock	$\begin{array}{c}15594\\14645\end{array}$	4 Nov 20 March .		8 Jan., 1903.
Jewell, W. H., and another, Northcote, Vic. Wheel-lock	14645	20 March .	\cdot 2	8 Jan., 1903.
fewiss, A., and another, Auckland, N.Z. Glazing corrugated iron	$\begin{array}{c}15637\\15492\end{array}$	15 Nov 9 Oct	1 05	27 Nov. 30 Oct.*
Ohnson, S. R., Petone, N.Z. Poultry-brooder	14586	6 March .	100	11 Dec.
Iones, F., Wellington, N.Z. Nail for boots, &c	15618	12 Nov		27 Nov.*
Jones, F. A., and others, Perth, W.A. Appliance for cleaning tram- rails	14863	9 May .	. 78	2 Oot.
Kay, W. S., Port Chalmers, N.Z. Oil-fuel boiler	$15489 \\ 14515$	3 Oct 12 Feb	0.0	30 Oct.* 27 Nov.
stirring auriferous material Kee, E. J., Christchurch, N.Z. Utilising waste heat from lamps	15517	13 Oct	. 87	30 Oct.*
Kelly, E. J., and another, Terang, Vic. Milking-machine	15597	5 Nov	0.1	13 Nov.*
Kelly, E. J., and another, Terang, Vic. Milking-machine Kelly, J., Palmerston South, N.Z. Grain-reel for binding-machines	$15598 \\ 15667$	5 Nov 19 Nov	0.0	13 Nov.* 27 Nov.*
Kibblewhite, W., Wellington, N.Z. Enclosing frying-pans	15607	6 Nov		13 Nov.*
Kincaid, J. W., Cincinnati, U.S.A. Mechanical stoker	15783	18 Dec	2	8 Jan., 1903.
Knox, W. J., Allegheny, U.S.A. (See G. Westinghouse, No. 15479.) Knutzen, H. P., Auckland, N.Z. Racing-hurdle	15805	20 Dec	. 2	8 Jan., 1903.*
Koneman, W. A., Chicago, U.S.A. Pulverising-apparatus Koneman, W. A., Chicago, U.S.A. (See International Fuel Com- pany, No. 15576.)	15577	30 Oct		13 Nov.
Kortlang, A., and another, Sydney, N.S.W. Extension table Kortlang, L., sen., and another, Sydney, N.S.W. Extension table	$15775 \\ 15775$	17 D.	. 2 2	8 Jan., 1903.* 8 Jan., 1903.*
Lajard, De. (See under De.) Lamson Store-service Company, Limited, Sydney, N.S.W., and London, Eng. Pneumatic cash and parcel carrier system.	15573	30 Oct	. 94	13 Nov.
(S. Gates) Lamson Store-service Company, Limited, Sydney, N.S.W., and London, Eng. Wire-track cash and parcel carrier system.	15574	30 Oct	. 94	13 Nov.
(S. Gates) Landsberger, J. A., Alameda, U.S.A. Jar-closures. (E. Goltstein)	15739	10 Dec	. 2	8 Jan., 1903.
Lane, M. W., Auckland, N.Z. Propeller-hood	15560		. 94	13 Nov.
Langford, E., Christchurch, N.Z. Ladder	$\begin{array}{c}15596\\14586\end{array}$	3 Nov 6 March .	· 94 · 102	13 Nov.* 11 Dec.
products Leadbeater, H., jun., Auckland, N.Z. Hair-clipping machine	15757	11 Dec	. 2	8 Jan., 1903.*
Lightband, C. D., Christchurch, N.Z. Cover for pneumatic tires	15495	7 Oct	. 87	30 Oct.*
Lightband, C. D., Christchurch, N.Z. Resilient leather heel	$15621 \\ 15622$. 99 . 99	27 Nov.* 27 Nov.*
Lightband, C. D., Christchurch, N.Z. Binocular-suspender Lightband, C. D., and another, Christchurch, N.Z. Leather and	15022 15721	0.0	. 99	11 Dec.*
rubber composite	1.500	00.37	100	11 Dec.*
Lockhead, R., Dunedin, N.Z. Reflector for gas lamps	15709 14541	00 77 1	$\begin{array}{c c} & 102 \\ 102 \end{array}$	11 Dec.
Lorie, A. F. W., Dunedin, N.Z. Sash-fastener	14554	20 Feb.	. 102	11 Dec.
Lorigan, W., Wellington, N.Z. Certificates for trading purposes	15671	0.01	$ \begin{array}{c c} 102\\ 87 \end{array} $	11 Dec.* 30 Oct.
Lowe, T. S. C., Los Angeles, U.S.A. Manufacture of coke Lowson, J. G. F., and another, Midlothian, Scotland. Gelatine	$15494 \\ 15767$	15 5	. 87	
Lund, J. G. F., Christiania, Norway. Wall	15779	18 Dec.	. 2	8 Jan., 1903.
Lyell, A., Palmerston North, N.Z. Filter and butter-cooler	14960	6 June .	. 94	13 Nov.
Macartney, J., Sydney, N.S.W. (See A. Dunbar, No. 15157.) Mackie, J., Auckland, N.Z. Grate draught regulator	15480	3 Oct.	. 87	30 Oct.*
MacWilliam, H. G., New Rochelle, U.S.A. Braces	15400	30 Dec.	. 6	23 Jan., 1903.
Maddern, W. A., Boulder City, W.A. Ore-roasting furnace	15516	1 10 0 11	. 87	30 Oct.
Malden, A., and another, London, Eng. Agglomerating ore Malden, W. J., and another, London, Eng. Agglomerating ore	$15514 \\ 15514$	1001	. 87 . 87	30 Oct.* 30 Oct.*
Manners, S. H., Norwood, South Australia. Root-grubbing machine	15759	15 Dec.	. 2	8 Jan., 1903.
Marcard, F. T. H. M. J., Adelaide, South Australia. Reciprocatory motor	15582	31 Oct.	. 94	13 Nov.
Marconi, G., and others, London, Eng. Wireless telegraphy Marconi's Wireless Telegraph Company and another, London, Eng. Wireless telegraphy	15689 15689	0.35	$\begin{array}{c c} & 102\\ & 102 \end{array}$	11 Dec. 11 Dec.
Marisco, F., Invercargill, N.Z. Gold-dredging appliance Masters, A. B., Clinton, N.Z. Water gauge for steam-boiler	$14409 \\ 15585$	31 Oct.	99 94	27 Nov. 13 Nov.*
Matheson, D., and another, Otakia, N.Z. Animal-trap	15505	10 0		0 Tam 1000 1
Matthews, F., Wellington, N.Z. Brake for vehicle	$15792 \\ 15535$	00.0.4	. 2 . 87	8 Jan., 1903.* 30 Oct.*
Mande T Christehurch N Z Atomiser	, 10000			
Maude, T., Christchurch, N.Z. Atomiser Mayne, W., Mildura, Vic. Engine-valve gear	15583	31 Oct.	. 94	13 Nov.
	15583 15591	20.0-4	94	13 Nov.

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ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT-continued.

Name, Address, and Invention.	é	Application.		Gazette.
	No.	Date.	No.	Date.
McBride, J. C., Queenstown, N.Z. Indicating-apparatus, &c	15510	9 Oct	87	30 Oct.*
McConachy, P. H., Gore, N.Z. Staple	15641	18 Nov	99	27 Nov.*
McCormick, M., Temuka, N.Z. Controlling propeller	15548	16 Oct	87	30 Oct.*
McCurdie, W. D. R., Dunedin, N.Z. Bottle-corking	15793	17 Dec	2	8 Jan., 1903.
McCurdie, W. D. R., Dunedin, N.Z. Marking survey-pegs	15794	17 Dec	2	8 Jan., 1903.
McDonough, T., Hobart, Tasmania. Lamp-extinguisher	15496	9 Oct	87	30 Oct.*
IcDougall, S., London, Eng. Lavatory requisite	15807	22 Dec	2	8 Jan., 1903.
McGowan, H., East Melbourne, Vic. Linotype machine	15717	4 Dec	102	11 Dec.*
McKay, H. V., Ballarat, Vic. Seed-drill. (J. and J. Andrewartha)	$\begin{array}{r}14746\\14531\end{array}$	14 April		8 Jan., 1903.
McKay, N. G., Auckland, N.Z. Bottle for drenching horses McKenzie, D., Dunedin, N.Z. Penholder	14551 15817	13 Feb 30 Dec	99	27 Nov.
	15722	0.0	102	23 Jan., 1903. 11 Dec.*
AcKenzie, R., Invercargill, N.Z. Edged tools	15760	2 Dec 15 Dec	102	8 Jan., 1903.
AcKinnon, J., Whareora, N.Z. Distance-indicator for train	15816	29 Dec	6	23 Jan., 1903.
IoLaughlin, M. A., San Francisco, U.S.A. (See G. W. Basley, No. 15001.)				
AcLean, J., Wellington, N.Z. Controlling-gear for reversing engine	15802	22 Dec	2	8 Jan., 1903.
AcLean, W., Invercargill, N.Z. Billiard apparatus	15649	19 Nov	99	27 Nov.*
IcLeod, A., Auckland, N.Z. Burner and heater	15498	6 Oct	87	30 Oct.*
IcLeod, A., Auckland, N.Z. Branding animals	15512	9 Oct	87	30 Oct.*
IcLeod, H. N., and another, Wellington, N.Z. Gold dredging	14401	6 Jan	87	30 Oct.
IcMillan, J. L., Syracuse, New York, U.S.A. Rotary engine	15610	6 Nov	99	27 Nov.
IcMullen, G., and others, Perth, W.A. Cleaning tram-rails	14863	9 May	78	2 Oct.
Iead, J., Auckland, N.Z. Book-case fastener, &c	15559	23 Oct	94	13 Nov.*
Iemory, A. W., and another, Wellington, N.Z. Support for settee, &c.	14512	11 Feb	99	27 Nov.
fetallic Compounds Separation Syndicate, Limited, London, Eng. Depositing fumes from ore. (W. W. Fyfe) filler, E. H., and another, London, Eng. (See W. E. Hughes,	15572	30 Oct	6	23 Jan., 1903.
No. 15780.)				
Ailler, F. A., Lawrence, N.Z. Table for invalids	14600	10 March	102	11 Dec.
Ioffatt, H. L., and others, Motueka, N.Z. Signalling state of tide	15776	17 Dec	2	8 Jan., 1903.
Ioison, J. M., Ashburton, N.Z. Mechanical nurse	15484	6 Oct	87	30 Oct.*
Ioore, F., Marrickville, N.S.W. Oil and grease separator	15762	12 Dec	2	8 Jan., 1903.
foore, J. C., New York, U.S.A. Sewing-machine	14456	21 Jan	94	13 Nov.
Ioss, J., Melbourne, Vic. Window sash Iullan, A., San Francisco, U.S.A. (See Economic Hoisting and	15821	30 Dec	6	23 Jan., 1903.
Ballast Company, No. 15749.) Iurdoch, H. H., Hastings, N.Z. Set-square	$15660 \\ 14808$	19 Nov 26 April	99 2	27 Nov.
Aurison, J., and another, Dunedin, N.Z. Sleeve of lower tumbler shaft	14000	-	4	8 Jan., 1903.
Iurphy, J., Fordell, N.Z. Horse-cover	15500	10 Oct	87	30 Oct.*
Aurphy, J. T., Blenheim, N.Z. Harness	15658	20 Nov	99	27 Nov.*
Iurray, R. L. H., Auckland, N.Z. Water heater	15536	16 Oct	9	5 Feb., 1903.
Autton, T., and another, Brighton, Eng. Stand for exhibition purposes	15613	4 Nov	99	27 Nov.
Napier, T., Hawera, N.Z. Boot-polishing machine Newman, G. F., Peel Forest, Canterbury, N.Z. Waterproof	$15580 \\ 15634$	30 Oct 17 Nov	99 99	27 Nov.* 27 Nov.
composition Nichols, W., and another, New Plymouth, N.Z. Horse-cover			6	23 Jan., 1903.
fastening Vicholson, S., Gore, N.Z. Tire-removing appliance	15659	20 Nov	2	8 Jan., 1903.
Nuttall, G., Blackball, Westland, N.Z. Life-saving jacket	15761	15 Dec	1	
Nuttall, W. T., and another, Wanganui, N.Z. Dropper for wire fence	15755	13 Dec	2	8 Jan., 1903.
	14605	8 March	2	8 Jan., 1903.
Dakden, F., Dunedin, N.Z. Cement-manufacture	14601	10 March	102	11 Dec.
Disen, O. M. J., Toongabbie, N.S.W. Construction nails	15518	13 Oct	87	30 Oct.*
Drnstien, F. S., Kensington, Vic. Wheel tire cover	15703	29 Nov	102	11 Dec.*
Drnstien, F. S., Kensington, Vic. Shaping wheel-tire cover	15704	29 Nov	102	11 Dec.*
Osmond, C. H., Dunedin, N.Z. Artificial minnow	14684	26 March	83	16 Oct.
Owens, M. J., Toledo, U.S.A. (See Toledo Glass Company, No. 15522.)				
	15733	9 Dec	2	8 Jan., 1903.
Pallant, W. J., Palmerston North, N.Z. Broom	15734	9 Dec	2	8 Jan., 1903.
Parker, D. P., and another, Coromandel, N.Z. Acetylene-generator	15616	7 Nov	99	27 Nov.*
Parsons, Hon. C. A., Newcastle, Eng. Condenser	15601	5 Nov	99	27 Nov.
aterson, J., Gisborne, N.Z. Attachment to bicycle	15788	17 Dec	2	8 Jan., 1903.
aterson, J., and another, Gisborne, N.Z. Clothes-wringer	15474	1 Oct	83	16 Oct.*
ayne, J., Auckland, N.Z. Converting ordinary into a spring dumb-	15639	14 Nov	99	27 Nov.*
bell Dearse B. W. Unner Weitchi N.Z. Bievele	14507	Q Trah	00	97 Nov
Pearse, R. W., Upper Waitohi, N.Z. Bicycle	14507 15740	8 Feb 10 Dec	99	27 Nov. 8 Jan 1903
Pease, E. L., Darlingtou, Eng. Structural arrangement Pennington, H., Ngaire, Taranaki, N.Z. Milk cooler and aerator	$15740 \\ 14556$	24 Feb	2 99	8 Jan., 1903. 27 Nov.
ennington, R. E., and another, Melbourne, Vic. Lock-nut plate	15623	13 Nov	99	27 Nov.*
erky, H. D., New York, U.S.A. Biscuit-making machine	15688	27 Nov	102	11 Dec.
Peters, H. C., Invercargill, N.Z. Clothing-grip	15502	10 Oct	87	30 Oct.*
			1 2	8 Jan., 1903.
Pifer, G. N., Cleveland, U.S.A. Photographic apparatus	15527 15528	25 Oct., 1901† 25 Oct., 1901†	$\begin{vmatrix} 2\\ 2 \end{vmatrix}$	8 Jan., 1903. 8 Jan., 1903.
Pifer, G. N., Cleveland, U.S.A. Photographic plate	15528	13 Dec., 1901†		8 Jan., 1903. 8 Jan., 1903.
THE STATE TO A CONTRACT OF A CONTRACTOR OF A CONTRACT OF A	10101	10 1000, 1001	1 2	8 Jan., 1903.
hilipps, J. M., Wharepapa, N.Z. Stopping and restarting wind-	15551	25 Oct	87	30 Oct.

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ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT-continued.

Name, Address, and Invention.		Application.		Gazette.	
· · · · · · · · · · · · · · · · · · ·	No.	Date.	No.	No. Date.	
Philpott, T. S., Wellington, N.Z. Oiling axles Philpott. T. S., and another, Wellington, N.Z. Indicating lengths of rolls of textile material	14609 15471	12 March 3 Oct	2 83	8 Jan. 1903. 16 Oct.*	
Philpott, T. S., Wellington, N.Z. Non-refillable hottle	15475	6 Oct	87	30 Oct.	
Pike, A. S., Wellington, N.Z. Belt and rope tightener	15747	11 Dec	2	8 Jan., 1903.	
Pitt, R. C., and another, Christchurch, N.Z. Pneumatic tire	14408	8 Jan	83	16 Oct.	
Pledger, J. H., Dunedin, N.Z. Force-draught fire-screen	$14035 \\ 14590$	21 Sept., 1901	83	16 Oct.	
Pool, A. J., and another, Gisborne, N.Z. Clothes wringer	14590	1 March 1 Oct	99 83	27 Nov. 16 Oct.*	
Porter, J. W., Williamstown, Vic. Operating moving targets	15230	7 Aug	99	27 Nov.	
Porter, T. R., Wellington, N.Z. Bicycle-handle grip	15674	24 Nov	102	11 Dec.*	
Pritzkow, W., and another, Salzungen, Germany. Manufacture of	15711	29 Nov	2	8 Jan., 1903	
fibre from New Zealand flax 'Pyrojim'' Syndicate, Limited, and another, London, Eng. Con- verting house-refuse into fuel. (J. M. Jameson)	15653	19 Nov	99	27 Nov.*	
Quennell, C., and another. (See W. E. Hughes, No. 15780.)					
Quertier, H., Gore, N.Z. A machine for filling gravel	15501 15586	10 Oct 31 Oct	87 94	30 Oct.* 13 Nov.*	
Ramsay, J., Southland, N.Z. Gold-saving table	15656	17 Nov	99	27 Nov.*	
Ramsay, J., Southland, N.Z. Gold-saving table	15726	5 Dec	2	8 Jan., 1903	
Rankin, A., and others, Perth, W.A. Appliance for cleaning tram-	14863	9 May	78	2 Oct.	
rails Ray, C., Christchurch, N.Z. Pneumatic tire	14395	9.7		10.01	
Rayward, H. H., and another, Wellington, N.Z. Extracting zinc	1	3 Jan	83 (102	16 Oct. 11 Dec.*	
from ores. (G. D. Delprat)	15681	26 Nov		8 Jan., 1903	
Rayward, H. H., and another, Wellington, N.Z. Extracting sul- phides from ores. (G. D. Delprat)	15687	27 Nov	102	11 Dec.	
Reeves, A. E., Mataura, N.Z. Scutching-machine	15710	29 Nov	102	11 Dec.*	
Ceilly, J., and others, Wellington, N.Z. Marine governor	15633	15 Nov	99	27 Nov.*	
lice, T., Feilding, N.Z. Clip for umbrella-ribs	15513	14 Oct	94	13 Nov.	
liddell, W., Dunedin. N.Z. Butter-printer	14473	23 Jan	87	30 Oct.	
tobb, J., Ohingaiti, N.Z. Parcelling, &c., butter	15713	3 Dec	102	11 Dec.*	
coberts, T., Nelson, N.Z. Construction of windows	15546	21 Oct	87	30 Oct.*	
Robertson, J., and another, Lawrence, N.Z. Sowing seed	15763 15550	16 Dec 16 Oct	$ \frac{2}{87} $	8 Jan., 1903 30 Oct.*	
obertson, J., Maheno, N.Z. Ditch-plough	15588	29 Oct	94	13 Nov.*	
lobertson, P. F. A., and another, Lawrence, N.Z. Sowing seed	15550	16 Oct	87	30 Oct.*	
Robertson, R. E., Auckland, N.Z. Air brake	15708	2 Dec	102	11 Dec.*	
Robertson, T., Ballarat, Vic. Rabbit-poisoning	15778 15543	18 Dec. 23 Oct.	2 99	8 Jan., 1903 27 Nov.*	
Robson, J., Ngaire, Taranaki, N.Z. Sawing machine	15655	19 Nov	99	27 Nov.*	
Ross, D. R., Brunswick, Vic. (See W. E. Hughes, No. 15564.)	15664	18 Nov	99	27 Nov.	
Ross, D. R., Brunswick, Vic. Milking-machine	15626	13 Nov	99	27 Nov.*	
Rowntree, A., South Rakaia, N.Z. Moustache guard	14624	11 March	102	11 Dec.	
agnol, P. E., and another, Brisbane, Queensland. Relief-valve	15719	4 Dec	102	11 Dec.*	
alomo, H., Melbourne, Vic. Supports for chairs	15469	3 Oct	83	16 Oct.*	
chnetzker, Aussig-on-Elbe, Austria. Soap-moulding machine	15727	3 Dec	••	•••	
everin, H., Achern, Germany. Manufacture of glass articles harp, J., jun., and another, Nelson, N.Z. Razor-strop	15690	27 Nov	102	11 Dec.	
hepherd, J., Dunedin, N.Z. Dredging machinery	$15732 \\ 15097$	9 Dec 10 July	102	8 Jan., 1903. 11 Dec.*	
hepherd, J., Dunedin, N.Z. Dredging machinery	15503	10 Oct	87	30 Oct.*	
igley, J., Gisborne North, N.Z. Newspaper-delivery box	15236	2 Aug	94	13 Nov.	
lack, E. A., Gisborne, N.Z. Dental suction cells. (T. Slack) lack, T., Sheffield, Eng. (See E. A. Slack, No. 14521.)	14521	5 Feb	94	13 Nov.	
lack, W. F., Wellington, N.Z. Ventilator	15552	25 Oct	87	30 Oct.*	
mith, A., and another, Wellington, N.Z. Renewing window-cords	15499	10 Oct	•••		
mith, H., Coventry, Eng. (See G. W. Basley, No. 15724.) mith, J. D., Dundin, N.Z. Food-plate	15610	4 Non	00	07.37	
mith, R. F., Dunedin, N.Z. Window-sash fastener	$15612 \\ 15027$	4 Nov 19 June	99 78	27 Nov.* 2 Oct.	
mith, T., and another, Melbourne, Vic. Flushing cistern	15694	27 Nov	2	8 Jan., 1903.	
mith, W. N., Ballarat, Vic. Table-tennis net	15608	6 Nov	••-		
prey, E., New Brighton, N.Z. Fastening for boots, &c.	15744	11 Dec	2	8 Jan., 1903.	
acey, J., and another, Auckland, N.Z. Medicated sweetmeat teele, J. T., Surrey, Eng. Binding and holding sheets of paper	$15808 \\ 15741$	20 Dec 10 Dec	2	8 Jan., 1903.	
teuart, W., and another, Auckland, N.Z. Reduction of iron-	15661	10 Dec 18 Nov	$\frac{2}{99}$	8 Jan., 1903. 27 Nov.*	
sand, &c. seuar:, W., and another, Auckland, N.Z. Reduction of iron-	15662	18 Nov	99	27 Nov.*	
sand					
tewart, W., Dunedin, N.Z. Copying ink	15530	15 Oct	87	30 Oct.*	
tortenbeker, H. C., and another, Tingha, N.S.W. Starting horse-	$\begin{array}{c}14423\\15716\end{array}$	8 Jan 4 Dec	83 109	16 Oct.	
races	10110	4 Dec	102	11 Dec.	
tretton, S. S., Ongarue, N.Z. Saucepan-lid tuart, H. R., Pittsburg, U.S.A. (See J. P. Campbell, No. 15785.) tuart. (See under Burdett-Stuart.)	15666	21 Nov	99	27 Nov.*	
ummerton, F. L., and others, Christchurch, N.Z. Sustaining air- pressure in the	15567	28 Oct	99	27 Nov.*	
uteliffe, T., Stoke Newington, Eng. Aerating liquids	15824	31 Dec	9	5 Fab 1009	
utherland, A., Balclutha, N.Z. Wire-strainer	14569	28 Feb.	102	5 Feb., 1903. 11 Dec.	
uttie, R. L., Onehunga, N.Z. Oiling axles	15818	30 Dec	6	23 Jan., 1903.	
wann, C. J., and another, Greymouth, N.Z. Gold-saving screen	15563	25 Oct	94	13 Nov.	
winnerton, W., Auckland, N.Z. Stand for ironing-board	15558	24 Oct	102	11 Dec.	

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT--continued.

	l	Application.		Gazette.		
Name, Address, and Invention.	No.	Date.	No.	Date.		
Taylor, D., and another, Otakia, N.Z. Animal-trap	15505	10 Oct				
Taylor, J. H. R., Riverton, N.Z. Branding cheese	14497	6 Feb		13 Nov.		
Taylor, M., Paris, France. Gas-engine	15748	11 Dec	2	8 Jan., 1903.		
Thomas, W., Geraldine, N.Z. Production of printing-surfaces	14607	10 March	102	11 Dec.		
Thompson, C. W., Johannesburg, South Africa. Rock-drill	15771	17 Dec	••	••		
Thomson, W. A., Rotorua, N.Z. Securing hat to head	15461	1 Oct	83	16 Oct.*		
Thomson, J., Invercargill, N.Z. Treating washdirt	15799	17 Dec	2	8 Jan., 1903.*		
Thomson, J., Invercargill, N.Z. Treating washdirt	$\begin{array}{r} 15800 \\ 15801 \end{array}$	18 Dec 18 Dec	$\frac{2}{2}$	8 Jan., 1903.* 8 Jan., 1903.*		
Todd, R., Invercargill, N.Z. Restoring overworked sponge in manu-	15470		83	16 Oct.*		
facture of bread Toledo Glass Company, Toledo, U.S.A. Gathering and shaping glass.	15522	16 Oct	87	30 Oct.		
(M. J. Owens) Tonks, T., and another, Brisbane, Queensland. Relief-valve	15710	4 Dec	100			
Tonks, T., and another, Brisbane, Queensiand. Relief-valve	$15719 \\ 15600$	4 Dec 5 Nov	$ \begin{array}{r} 102 \\ 94 \end{array} $	11 Dec.* 13 Nov.*		
Trube, G. A., and another, London, Eng. (See T. Hunter,	10000	51107	71	10 1004		
No. 15579.)				1		
Trudgeon, W. G., and another, North Melbourne, Vic. Portable	15692	27 Nov	102	11 Dec.		
washing-copper	1					
Tudehope, R., and another, Auckland, N.Z. Ventilator	15481	3 Oct	87	30 Oct.		
United Shoe Machinery Company, Paterson, U.S.A. Machine for	15650	19 Nov	99	27 Nov.*		
trimming boots, &c. (B. F. Mayo)						
Urquhart, D., Auckland, N.Z. Rowlock and grip-bracket	15457	1 Oct	83	16 Oct.*		
Maril O M MULLING N IZ MULLING South an		10.D				
Verity, C. H., Wellington, N.Z. Water-heater	15777	18 Dec	••	••		
Wainwright, H. S., Kent, Eng. Device for promoting draught and	15617	7 Nov	99	27 Nov.		
arresting sparks in engines						
Walker, E., St. Albans, N.Z. Potato carrier	15571	30 Oct	••	••		
Walker, H. R., New Brighton, N.Z. Carriage of bombs, &c.	15693	27 Nov	102	11 Dec.*		
Wardrop, W., and another, Dunedin, N.Z. Hair and hat pin and fastening	14828	2 May	2	8 Jan., 1903.		
Waters, E., Melbourne, Vic. Hydrocarbon-vapour burners.	15718	4 Dec	102	11 Dec.		
(A. Blanchard)			-0-	11 2000		
Waters, W., Auckland, N.Z. Siphon	15702	27 Nov	102	11 Dec.*		
Watt, C. L., and another, Dunedin, N.Z. Securing sleeve on dredge-	14808	26 April	2	8 Jan., 1903.		
Watt, J. R., Timaru, N.Z. Freezing-room door	15589	3 Nov	00	07 Nov *		
Watts, W., Midland Junction, W.A. Pivot blade-joint railway-	15589 15493	9 Oct	99 87	27 Nov.* 30 Oct.*		
crossing	10-00		01	00 000		
Weaver, A., Hastings, N.Z. Wool-washing	15519	14 Oct	87	30 Oct.*		
Webster, F. A., and another, Christchurch, N.Z. Leather and	15721	3 Dec	102	11 Dec.*		
rubber composite Webster, W., Melbourne, Vic. Carbide-feeder	15750	10 Dec	0	0 Tom 1009 *		
West, M. T., and another, Ngaire, Taranaki, N.Z. Milk cooler and	$\begin{array}{r} 15752 \\ 14556 \end{array}$	10 Dec 24 Feb	$\frac{2}{99}$	8 Jan., 1903.* 27 Nov.		
aerator	11000	24 F'6D	55	21 1000		
Westinghouse, G., Pittsburg, U.S.A. Linings of metallurgical	15479	7 Oct	87	30 Oct.		
vessels. (W. J. Knox) Whelan, J. T., Addington, N.Z. Boot-cleaner	1 501 5	20 D				
	15815		•••	09 Tax 1009 *		
Whishaw, W. M., and another, Feilding, N.Z. Cooling cream White, S., Dunedin, N.Z. Game apparatus	$15825 \\ 15629$	31 Dec 11 Nov	6 99	23 Jan., 1903.* 27 Nov.*		
White, S., Dunedin, N.Z. Opening soda-water bottles, &c.	15697	26 Nov	102	11 Dec.*		
White, S., Dunedin, N.Z. Drill	15796	19 Dec	-0-	23 Jan., 1903.*		
Whitfield, P. J., Geelong, Vic. Wool-compressing	15773	17 Dec	2	8 Jan., 1903.		
Whitney, A. C., Auckland, N.Z. (See Colonial Ammunition Com-						
pany, Limited, No. 15435.) Whitney, A. C., Auckland, N.Z. Alarm gun	15627	19 No.	2	8 Tam 1009 *		
Whitney, A. C., Auckland, N.Z. Alarm gun	15627	13 Nov 9 Oct	87 87	8 Jan., 1903.* 30 Oct.		
Whittaker, H., Timaru, N.Z. Stiffener for boots	15490 15534	10.0.4	87	30 Oct.*		
Whittingham, R., Gore, N.Z. Aerial car	15787	18 Oct	2	8 Jan., 1903 *		
Wickens, E. L., South Yarra, Vic. Rotary steam-engine	15625	13 Nov	9 9	27 Nov.*		
Wieda, E. F. W., Paterson, U.S.A. Mixing-machine	15746	11 Dec	2	8 Jan., 1903.		
Wiens, J. P., Milwaukee, U.S.A. Dustless brush	15515	16 Oct	87	30 Oct.		
Wight, R. B., Auckland, N.Z. Cleaning-machine	15526	14 Oct	87	30 Oct.*		
Williams, H. G., Masterton, N.Z. Plough attachments	15466	2 Oct	83	16 Oct.*		
Williams, R., and others, Petone, N.Z. Marine governor		15 Nov 26 Nov	$\frac{99}{102}$	27 Nov.* 11 D≥0.*		
Williams, R., Taieri, N.Z. Siphon	$15098 \\ 15587$	26 Nov 29 Oct	102 94	13 Nov.*		
Williamson, P. R., Christchurch, N.Z. Rotary pump	14263	29 Oct	102	11 Dec.		
Wilson, F. P., Wellington, N.Z. Printers' galley and chase	15635	17 Nov	99	27 Nov.		
Wilson, H. E., Auckland, N.Z. Bicycle-frame	15511	13 Oct	87	30 Oct.*		
Winepress, J. N., Brighton, Vic. Opening oysters	15467 14979	2 Oct	83	16 Oct.		
Winter, F., Auckland, N.Z. Water-cycle Winters, J., Collingwood, Vic. Tightening rims of wooden wheels.	$\begin{array}{r} 14373 \\ 15584 \end{array}$	24 Dec., 1901 31 Oct	83 94	16 Oct. 13 Nov.*		
Wojciechowski, J. (See American Tobacco Company, No. 15603.)			73	1		
Wolseley Sheep-shearing Machine Company, Limited, and another,	15644	19 Nov	99	27 Nov.		
Birmingham, Eng. Machine for cutting wool				ļ		
Wood, V. H., Auckland, N.Z. Curtain-support	15636	17 Nov.	99	27 Nov.*		
Wright, G. W., Melbourne, Vic. Concentrating ores	15593	31 Oct	94	13 Nov.*		
1				1		
Young, K., Timaru, N.Z. Bottle	15765	16 Dec	2	8 Jan., 1903.*		

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Alphabetical List of Inventions for Quarter ending 31st December, 1902.

THIS list includes also applications lodged prior to but gazetted during the quarter, and complete specifications following provisional specifications accepted and gazetted during the quarter. Where the number and date of the *Gazette* are omitted, the application has not yet been accepted.

* Denotes a provisional specification. † Denotes a prior date under section 106 of "The Patents, Designs, and Trade Marks Act, 1889."

		A	pplication.		Gazette.
Invention.	Name.	No.	Date.	No.	Date.
Acetylene-generator Acetylene-generator Acetylene-generator, Carbide-feeder for Advertising parcel-grip Advertising, Stand for	W. R. Hyde J. Baker and D. P. Parker W. Webster A. H. Brownley T. Mutton and H. E. Hupton	$15606 \\ 15616 \\ 15752 \\ 15570 \\ 15613 \\ 15555$	4 Nov 7 Nov 10 Dec 30 Oct 4 Nov	$94 \\ 99 \\ 2 \\ 2 \\ 99 \\ 99 \\ 04$	13 Nov. 27 Nov.* 8 Jan., 1903.* 8 Jan., 1903. 27 Nov. 19 Nov.
Aerated water, Saving carbonic-acid gas in making Aerating and bottling liquids	H. J. Ballin T. Sutcliffe	15555 15824	25 Oct 31 Dec	94 9	13 Nov.* 5 Feb., 1903.
Aerator. (See Milk cooler and aerator.) Aerial car	R. Whittingham A. Malden and W. J. Malden W. R. Keane and B. Hogg R. E. Robertson	$15787 \\ 15514 \\ 14515 \\ 15708$	18 Dec 16 Oct 12 Feb 2 Dec	$2 \\ 87 \\ 99 \\ 102$	8 Jan., 1903.* 30 Oct.* 27 Nov. 11 Dec.*
Air-compressing	A. A. Humphrey P. J. Darling, F. L. Summerton,	15700 15521 15567	16 Oct (30 Oct.* 11 Dec. 27 Nov.*
Alarm gun	and F. J. Amos A. C. Whitney J. J. Hill	$15627 \\ 15753$	13 Nov 10 Dec	22	8 Jan., 1903.* 8 Jan., 1903.
Amalgamator, &c	J. R. Harrison The Colonial Ammunition Com- pany, Limited	$15462 \\ 15435$	1 Oct 24 Sept ∫	$83 \\ 102 \\ 102 \\ 102 \\$	16 Oct.* 11 Dec. 11 Dec.*
Arc lamp, Électric	J. P. Campbell	$15786 \\ 15701 \\ 14400 \\ 15550$	18 Dec 28 Nov 6 Jan	2 2 83	8 Jan., 1903. 8 Jan., 1903. 16 Oct.
Artificial-fuel briquettes Atomiser Augur, Earth Auriferous-material agitator	International Fuel Company T. Maude W. L. Iwan and J. H. Iwan W. R. Keane and B. Hogg	$\begin{array}{c} 15576 \\ 15535 \\ 15790 \\ 14515 \end{array}$	30 Oct. 20 Oct. 16 Dec. 12 Feb.	$ \begin{array}{c} 94 \\ 87 \\ 2 \\ 99 \end{array} $	13 Nov. 30 Oct.* 8 Jan., 1903. 27 Nov.
Auxiliary propeller for vessel Axle of vehicle, Oiling Axle of vehicle, Oiling	R. P. Gibbons T. S. Philpott R. L. Suttie	$\frac{15640}{14609}\\15818$	13 Nov 12 March 30 Dec	$99 \\ 2 \\ 6$	27 Nov.* 8 Jan., 1903. 23 Jan., 1903.*
Bailing cows Ballast, Excavating, &c Ballast, Excavating, &c	W. V. Hosking H. Quertier H. Quertier	$\begin{array}{c} 15700 \\ 15501 \\ 15586 \end{array}$	29 Nov 10 Oct 31 Oct		23 Jan., 1903.* 30 Oct.* 13 Nov.*
Belt for medical purposes, Electric Belt and rope tightner Bicycle Bicycle attachment for carrying child, &c.	G. W. Basley A. S. Pike B. W. Pearse J. Paterson	$\begin{array}{c} 15001 \\ 15747 \\ 14507 \\ 15788 \end{array}$	11 June 11 Dec 8 Feb 17 Dec		16 Oct. 8 Jan., 1903.* 27 Nov. 8 Jan., 1903.*
Bicycle-frame	H. E. Wilson T. B. Porter S. Nicolson	$\begin{array}{c} 15511 \\ 15674 \\ 15659 \end{array}$	13 Oct 24 Nov 20 Nov	$ \begin{array}{c} 87 \\ 102 \\ 2 \end{array} $	30 Oct.* 11 Dec.* 8 Jan., 1903.*
Billiards, Parlour Billiards, "Roulette" Binding sheets of paper Binocular suspender	W. McLean E. Hasselbach J. T. Steele C. D. Lightband	$\begin{array}{c} 15649 \\ 15736 \\ 15741 \\ 15622 \end{array}$	19 Nov 6 Dec 10 Dec 7 Nov	$99 \\ 2 \\ 2 \\ 99$	27 Nov.* 8 Jan., 1903.* 8 Jan., 1903. 27 Nov.*
Bird trap, Small Biscuit-making machine	F. A. Burdett-Stuart H. D. Perky	$15595 \\ 15688$	4 Nov.	$99 \\ 2 \\ 102$	27 Nov.* 8 Jan., 1903. 11 Dec.
Blind-roller, Sustaining and fastening Blind, Venetian Blight, Composition for Board. (See Ironing-board.)	J. A. Belk R. Barrett W. J. Botting	$\begin{array}{c} 13968 \\ 15523 \\ 15538 \end{array}$	4 Sept., 1901 16 Oct 22 Oct	102 87 87	11 Dec. 30 Oct.* 30 Oct.*
Boiler-furnace Boiler, Multitubular water-column	J. Chambers and Son, Limited F. F., L. B., A. C., and H. W. Coulsell	14338 15677	16 Dec., 1901 25 Nov	$\begin{array}{c} 102 \\ 102 \end{array}$	11 Dec. 11 Dec.*
Boiler, Oil-fuel		$15489 \\ 15526 \\ 15497$	3 Oct 14 Oct 7 Oct	87 87 87	30 Oct.* 30 Oct.* 30 Oct.*
Boiler, Vertical steamBoiler, Water-gauge forBoiler, Water-tube	R. P. Gibbons A. B. Masters J. Cowan	$\frac{15614}{15585}\\15569$	5 Nov 31 Oct 30 Oct	99 94 94	27 Nov.* 13 Nov.* 13 Nov.
Bombs, Carrying and mixing components of Boot-cleaner	H. R. Walker J. T. Whelan W. Beamish E. Sprey	$\begin{array}{c} 15693 \\ 15815 \\ 15533 \\ 15744 \end{array}$	27 Nov 29 Dec 16 Oct 11 Dec	$ \begin{array}{c} 102 \\ $	11 Dec.* 30 Oct.* 8 Jan.,1903.*
Boot-nail	F. Jones T. Napier H. Whittaker United Shoe Machinery Company	$ 15618 \\ 15580 \\ 15534 \\ 15650 $	11 Dec. 12 Nov. 30 Oct. 18 Oct. 19 Nov.	99 99 87 99	27 Nov.* 27 Nov. 27 Nov. 30 Oct.* 27 Nov.*
Bottle. (See Non-refillable bottle, Un- refillable bottle.) Bottle, Brand-protector	K. Young	15765	16 Dec	99 2	8 Jan., 1903.*
Bottle, Corking	W. D. R. McCurdie	$15793 \\ 14531$	17 Dec 13 Feb	$\frac{2}{99}$	8 Jan., 1903.* 27 Nov. 11 Dec.

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ALPHABETICAL LIST OF INVENTIONS-continued.

Invention.	Name.	A1	plication.		Gazette.
Invention.	Name.	No.	Date.	No.	Date.
Bottle, Stopper for	L. Caselberg	14476	27 Jan	94	13 Nov.
Bottling liquids, Aerating and	T. Sutcliffe	15824	31 Dec	9	5 Feb., 1903.
Bowden mechanism Box. (See Newspaper-box, Seed-drill box.)	G. W. Basley	15724	1 Dec	2	8 Jan., 1903.
Braces	H. G. MacWilliam	15823	30 Dec	6	23 Jan., 1903.
Braces, Clothing-grip for	H. C. Peters	15502	10 Oct	87	30 Oct.*
brake, Vehicle brake.)					
Brand for cattle, Fire-heated	A. McLeod	15512	9 Oct	87	30 Oct.*
Brand-protector bottle Branding cheese	K. Young	$15765 \\ 14497$	16 Dec 6 Feb	$\frac{2}{94}$	8 Jan., 1903. 13 Nov.
Brick, Plug, and hæmatite concrete	R. Harrison	15673	24 Nov		11 Dec.*
Brick, Perforated Briquette, Artificial-fuel	J. Clark International Fuel Company	15459 15576	1 Oct 30 Oct	83 94	16 Oct.* 13 Nov.
Brooder. (See Poultry-brooder.)	W I D N	15799	0.15	2	9 Tan 1000
Broom and brush	W. J. Pallant N., J. S., J. F., and M. Jepsen,	$15733 \\ 15594$	9 Dec 4 Nov	94	8 Jan., 1903. 13 Nov.
	and J. Bomford	15515	1001	07	
Brush, Dustless sweeping	J. P. Wiens	15515	16 Oct	87	30 Oct.
Buckle attachment to hook	A Douglas	14454	21 Jan	83	16 Oct.
Building, Portable	D. Brummer	15651	19 Nov	• •	••
carbon-vapour burner.)				0	
Burner and heater	A. McLeod E. S. Burman	15498	6 Oct 1 Oct	87	30 Oct.* 16 Oct.
Butter-cooler and filter	A. Lyell	14960	6 June	94	13 Nov.
Butter, Cutting, weighing, &c Butter-printer	J. Robb W. Riddell	$15713 \\ 14473$	3 Dec 23 Jan	$ 102 \\ 87 $	11 Dec.* 30 Oct.
Butter-printer	R. Boxall and A. T. Robinson	15543	23 Oct	99	27 Nov.
Button-hole for collars, &c	W. Beamish	15797	19 Dec	2	8 Jan., 1903.'
Calculating-apparatus	J. C. McBride	15510	9 Oct	87	30 Oct.*
Can-body-making machine		15491 15631	9 Oct 11 Nov	87	30 Oct. 27 Nov.*
Can, Oil-feeding		15604	5 Nov	94	13 Nov.*
Canning butter, Apparatus for	E. S. Burman	15456	1 Oct 1 Oct	83 83	16 Oct.
Cans, Delivering milk into	W. Barton	$ 15460 \\ 15752$	10 Dec	$\begin{vmatrix} 00 \\ 2 \end{vmatrix}$	16 Oct.* 8 Jan., 1903.
Carbonic acid gas, Saving	H. J. Ballin	15555	25 Oct	94	13 Nov.*
Carburetted water-gas	H. W. G. Henderson Economic Hoisting and Ballas:	$14654 \\ 15749$	20 March 11 Dec	83 2	16 Oct. 8 Jan., 1903.
	Company		050		
Carriage-spring Cart-tailboard fastener	T. C. Hatton H. Anstice	$15561 \\ 15754$	25 Oct 12 Dec	94 2	13 Nov. 8 Jan., 1903.
Cash-carrier system	Lamson Store-service Company,	15573	30 Oct	94	13 Nov.
Cash-carrier, Wire-track	Limited Lamson Store-service Company,	15574	30 Oct	94	13 Nov.
	Limited C. W. Basley	15547	20 Oct	87	30 Oct.
Cash-railway, Single-wire system of		14691	20 Oct 1 April	2	8 Jan., 1903.
Castor	W. Bain	$15764 \\ 14605$	15 Dec 8 March	22	8 Jan., 1903.
Certificate for co-operative trading	F. OakdenW. Lorigan	15671	8 March 22 Nov	102	8 Jan., 1903. 11 Dec.*
Chaff-cutter and corn-crusher	J. O'Donoghue	14601	10 March	102	11 Dec.
Chair, Adjustable seat for Chair, Punkah for	H. Salomo F. W. Hayes	$15469 \\ 15568$	3 Oct 30 Oct	83 94	16 Oct.* 13 Nov.
Cheese, Branding	J. H. R. Ťaylor	14497	6 Feb	94	13 Nov.
Chemical, Packing semi-solid	T. Baker J. H. S. Brown	$15699 \\ 15663$	26 Nov 18 Nov	102 99	11 Dec. 27 Nov.*
Cigarette-machine	American Tobacco Company	15603	5 Nov	99	27 Nov.
Cigarette packing and wrapping machine Cistern, Flushing	A. Godfrey T. Smith and G. Boardman	$15540 \\ 15694$	22 Oct 27 Nov	62	23 Jan., 1903 8 Jan., 1903.
Cleaner. (See Boot-cleaner, Knife-cleaner,					
Tobacco-pipe cleaner.) Cleaner for drill-roller	W. Gardiner	15605	3 Nov	94	13 Nov.*
Cleaning corrosive matter from boilers,		15526	14 Oct	87	30 Oct.*
steamers, &c. Cleaning and watering streets	H. Ashworth	15772	17 Dec	2	8 Jan., 1903.
Clip for broken umbrella-rib	T. Rice	15513	14 Oct		13 Nov.
Clipping machine, Hair Clock, Electric	H. Leadbeater, jun	15757 15646, 7	11 Dec 19 Nov	2 99	8 Jan., 1903. 27 Nov.
Clod crusher and pulveriser	F. Cooper	15738	24 Nov	2	8 Jan., 1903.
Closet, Earth Closet, Flushing water	J. W. Henderson W. M. Bartle	$15686 \\ 14625$	27 Nov 14 March		11 Dec.* 8 Jan., 1903
Closet, Siphon for water	J. Constable	15670	22 Nov	1100	11 Dec.
Closure. (See Jar-closure.)	J. Paterson and A. J. Pool	15474	1 Oct	83	16 Oct.*
Clothes-wringer, Drainer for Clothing-grip	H. C. Peters	15474	10 Oct	87	30 Oct.*
Cock, Automatic stop	R. S. Houghton	15730	8 Dec		8 Jan., 1903
Coiler. (See Wire-coiler.) Coin-controlled mechanism for producing	O N Difer	15001	19 D 1001	1 12	8 Jan., 1903
	G. N. Pifer	15731	13 Dec., 1901	1 2	8 Jan., 1903
photograph		44101	0.0.1		
	T. S. C. Lowe W. Beamish	15707	9 Oct 19 Dec	1 0	30 Oct. 8 Jan., 1903

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ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.	Name.		plication.		Gazette.
		No.	Date.	No.	Date.
Compressing air	A. A. Humphrou	15501	16 0-4	87	30 Oct.*
		15521	16 Oct.	102	11 Dec.
Compressing forage, &c., into bales	TT T	$15773 \\ 15581$	17 Dec 31 Oct	2 94	8 Jan., 19 13 Nov.
Compression, Elastic-fluid		15581	31 Oct 17 Dec	94 2	8 Jan., 190
Concentrating washdirt containing gold	J. Thomson	15800	17 Dec	2	8 Jan., 190
oncentrator. (See Ore-concentrator.)					
Concrete, Brick and hæmatite	R. Harrison C. A. Parsons	$15673 \\ 15601$	24 Nov 5 Nov	$102 \\ 99$	11 Dec.* 27 Nov.
Jondenser	E. L. E. Barton	15801	5 Nov 23 Dec	99	8 Jan., 190
Confectionery, Moulding	P. A. Harkin	15665	21 Nov	99	27 Nov.*
Jonductor, Electric Jonfectionery, Moulding Jontroller for electric motor	J. P. Campbell	15785	18 Dec	2	8 Jan., 19
controlling admission of steam, Valve gear for	W. Mayne	15583	31 Oct	94	13 Nov.
Controlling-gear for steering engines	J. McLean	15802	22 Dec	2	8 Jan., 190
Controlling steamboat-propeller	M. McCormick	15548	16 Oct	87	30 Oct.*
booler and aerator, Milk booler and filler, Milk	H. Pennington and M. T. West	14556	24 Feb	99	27 Nov.
	D TT I	$15539 \\ 15619$	22 Oct 12 Nov	87 99	30 Oct.* 27 Nov.
booler, Milk		15825	31 Dec	6	23 Jan., 190
	Chamberlain				
o-operative trading certificate		$\frac{15671}{15692}$	22 Nov 27 Nov	$\frac{102}{102}$	11 Dec.* 11 Dec.
opper, Portable washing		15530	27 Nov 15 Oct	87	30 Oct.*
ords to window sashes, Securing	W. Stewart J. Armstrong W. D. R. McCurdie	15449	26 Sept	99	27 Nov.*
orking bottle	W. D. R. McCurdie	15793	17 Dec	2	8 Jan., 190
orn-crusher and chaff-outter	a n n		10 March	102	11 Dec.
orrugated iron, Nail for		$\frac{15774}{14512}$	17 Dec 11 Feb	2 99	8 Jan., 19 27 Nov.
oulton contro		15680	22 Nov	102	11 Dec.
ourse-recorder for ship	W. C. Forbes	15541	22 Oct	87	30 Oct.
over. (See Horse-cover, Tire-cover.)	C. D. Lightband	15495	7 Oct	87	30 Oct.
over, Tire	F. S. Ornstien	15495	29 Nov	102	50 Oct. 11 Dec.*
ow-bail		15700	29 Nov	6	23 Jan., 190
low-rug	J. Burge	15624	13 Nov	99	27 Nov.
tramping-tool for building	W. J. Pallant W. M. Whishaw and W. E.	$\begin{array}{c c}15734\\15825\end{array}$	9 Dec 31 Dec	26	8 Jan., 190 23 Jan., 190
ream, &c., Cooling	Chamberlain	10040	31 Dec		25 5811., 190
ricket, Table	H. Banks	15477	6 Oct	87	30 Oct.
rossing. (See Railway-crossing.) ross-tie, Cutting railroad	C. Hara	15601	OF New	100	11 Dec
ross-tie, Cutting railroad	C. Hege F. Cooper	$15691 \\ 15738$	27 Nov 24 Nov	$\frac{102}{2}$	11 Dec. 8 Jan., 190
ultivator, Spring-tine		14677	22 March	2	8 Jan., 190
urtain, Supporting window	V. H. L. Wood	15636	17 Nov	99	27 Nov.*
utting hair or wool	Wolseley Sheep-shearing Machine Company, Limited	15644	19 Nov	99	27 Nov.
utting, weighing, and parcelling butter	J. Robb	15713	3 Dec	102	11 Dec.*
ycle, Water		14373	24 Dec., 1901	83	16 Oct.
yclists' trouser-clip		15668	19 Nov	99	27 Nov.*
Dental suction-cell Destroying blight Detritus- and sewage treating tank	E. A. Slack	14521	5 Feb	94	13 Nov.
Destroying blight	W. J. Botting	15538	22 Oct	87	30 Oct.*
Detritus- and sewage-treating tank	J. T. N. Anderson	15679	a a (75)	102	11 Dec.*
Distance recorder for ships	W. C. Forbes	$\frac{15816}{15541}$	29 Dec 22 Oct	6 87	23 Jan., 190 30 Oct.
Distance indicator for thins	M. Bjornstad and J. Stacey	15808	20 Dec	2	8 Jan., 190
&c.	T. Pohertoor	15500			
&c. Ditch-plough Joor for freezing-room, &c Door-lock, Attaching handle of	J. Robertson J. R. Watt	$15588 \\ 15589$	29 Oct 3 Nov	94 99	13 Nov.* 27 Nov.*
Door-lock, Attaching handle of	T. B. Jacobsen	13505 14652		102	11 Dec.
Draining-apparatus for clothes wringer Draught-controlling apparatus and spark-	J. Paterson and A. J. Pool	15474	1 Oct	83	16 Oct.*
Draught-controlling apparatus and spark- arrester	J. C. Bowring	15715	4 Dec	2	8 Jan., 190
Draught-promoter for locomotive	H. S. Wainwright J. Mackie	15617	7 Nov	99	27 Nov.
Praught-regulator for grate	J. Mackie	15480	3 Oct	87	30 Oct.*
Drawing-instrument. (See Set-square.)	T. Cooren	15740	10 D.		0.7. 100
Drav scoop	L. Coogan D. L. Cochrane D. L. Cochrane	$\begin{array}{c}15742\\15676\end{array}$	10 Dec 19 Nov	2 99	8 Jan., 19(27 Nov.*
Dray sceop	D. L. Cochrane	15712	3 Dec	102	11 Dec.*
Predge-bucket	W. J. Evans and J. D. Campbell	15437	24 Sept	102	11 Dec.
Drawing-instrument. (See Set-square.) Dray, Flax Dray scoop Dredge-bucket link, Rebushing Dredge-bucket link, Rebushing Dredge-tumbler sleeve Dredging appliance, Gold Dredging, Gold Dredging machinery Dredging Malve for suction Drenching bottle Dreil	W. Beamish I Murison and C. T. Watt	$\begin{array}{c}15544\\14808\end{array}$	21 Oct 26 April	87 2	30 Oct.*
predging appliance. Gold	F. Marisco	14808	26 April	2 99	8 Jan., 19 27 Nov.
Predging, Gold	H. W. McLeod and G. A. Hurley	14401	6 Jan	87	30 Oct.
Oredging machinery	J. Shepherd	15097	10 July	102	11 Dec.*
reaging, valve for suction	N G McKey	15503	10 Oct	87	30 Oct.*
Drill	S. White	14531 15796	13 Feb 19 Dec	99 6	27 Nov. 23 Jan., 190
Drill	R. W. Ayson	15723	19 Dec	2	25 Jan., 190 8 Jan., 190
Prilling machine, Rock	C. W. Thompson	15771	17 Dec	6	23 Jan., 190
Drill-roller, Cleaner for	W. Gardiner	15605	3 Nov	94	13 Nov.*
Dredging, Gold Dredging machinery Dredging, Valve for suction Drenching. bottle Drill Drill Drill Drilling machine, Rock Drill, Seed, and fertiliser Driving-belt tightener Dropper to wire, Securing Dropper for wire fencing	п. v. McKay A. S. Pike	$\begin{array}{c c} 14746 \\ 15747 \end{array}$	14 April 11 Dec	$\frac{2}{2}$	8 Jan., 190
	J Harria	15747	11 Dec 27 Oct	94	8Jan., 190 13 Nov.*
ropper to wire, Securing					

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ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.	Name.	Ar	plication.	Gazette.		
		No.	Date.	No.	Date.	
Dumb-bell, Converting ordinary into spring grip	J. Payne	15639	14 Nov	99	27 Nov.*	
Dust into fuel, Converting floor	E. R. Jennings and "Pyrojim" Syndicate, Limited	15653	19 Nov	99	27 Nov.*	
Dustless sweeping-brush	J. P. Wiens J. P. Campbell	15515 15822	16 Oct 30 Dec	87 6	30 Oct. 23 Jan., 1903.	
Earth-augur	W. L. Iwan and J. H. Iwan	15790	16 Dec	2	8 Jan., 1903-	
Elastic-fluid compression	H. Bland J. P. Campbell	15581 15786	31 Oct 18 Dec	94	13 Nov. 8 Jan., 1903.	
Electrical machinery, Dynamo	J. P. Campbell	15822	30 Dec	6	23 Jan., 1903.	
Electric belt for medical purposes Electric conductor	J. P. Campbell	15001 15804	11 June 23 Dec	83	16 Oct. 8 Jan., 1903.*	
Electric conductor	W. E. Coleman	15602	5 Nov	94	13 Nov.	
Electric ignition for oil-engine Electric motor, Controller for	F. Henderson	15525 15785	15 Oct 18 Dec	87	30 Oct.* 8 Jan., 1903.	
Electric railway	W. E. Hughes	15781	18 Dec	2	8 Jan., 1903.	
Electric-traction system, Surface-contact	The Dolter Electric Traction, Limited J. T. Hunter	15768	15 Dec	2 94	8 Jan., 1903. 13 Nov.	
Electric-tramcar brake	W. Mayne	15583	30 Oct 31 Oct	94 94	13 Nov.	
France (Gas Fire scape)				07	30 Oct.*	
Excavating, &c., gravel	H. Quertier	15501 15586	10 Oct 31 Oct	87 94	13 Nov.*	
Exhibition purposes, Stand for	T. Mutton and H. E. Hupton	15613	4 Nov	99	27 Nov.	
Explosive compounds of shell, Carrying, &c.	H. R. Walker	15693	27 Nov	102	11 Dec.*	
Extension table	L. Kortlang, sen., and A. Kort- lang	15775	17 Dec	2	8Jan., 1909.*	
Extinguisher. (See Lamp-extinguisher.) Extract. (See Meat extract.)						
Extracting zinc, &c., sulphides from their ores	E. S. Baldwin and H. H. Ray- ward	15687	27 Nov	102	11 Dec.*	
Fan, Electric	W. E. Coleman	15602	5 Nov	94	13 Nov.	
Fastener. (See Boot-fastener, Hat fastener, Horse cover fastener, Sack mouth fastener, Umbrella-fastener, Window-sash						
fastener.) Fastening for glass show-case, &c.	J. Mead	15559	23 Opt	94	13 Nov.*	
Fastening tailboard of cart	H. Anstice	15754	12 Dec	2	8 Jan., 1903.*	
Feed-water heater and distributor Fertiliser-drill	A. Dunbar H. V. McKay	15157 14746	24 July 14 April	102 2	11 Dec. 8 Jan., 1903.	
Fertiliser, Sowing seed with	P. F. A. Robertson and J. Robert-	15550	16 Oct	87	30 Oct.*	
Fibre from New Zealand flax, Spinning	son I. Jacob and W. Pritzkow	15711	29 Nov	2	8 Jan., 1903.	
Fibre-scouring machinery Figure for advertising purposes		15490 15613	9 Oct 4 Nov	87	30 Oct. 27 Nov.	
Filter and butter-cooler	A. Twell	14960	6 June	94	13 Nov.	
Filter-press, High-pressure tap for	R. F. Bradshaw and W. E. Hard- ing	15769	17 Dec	2	8 Jan., 1903.	
Filter, Water	J. T. N. Anderson	15756 15532	11 Dec 18 Oct	87	30 Oct.*	
Fire-escape Fire-heated brand for cattle, Continuously	A. E. Cleaver A. McLeod	15512	18 Oct 9 Oct	87	30 Oct.*	
Fire-screen, Force-draught	J. H. Pledger	14035	21 Sept., 1901		16 Oct.	
Fish-plate, Preventing nuts loosening on Flax-dray	R. E. Pennington and J. Bellett L. Coogan	15623 15742	13 Nov 10 Dec	99 2	27 Nov.* 8 Jan., 1903.*	
Flax-drum, Selvege-stripping	W. Fairweather, J. Fairweather, and W. Fairweather, jun.	15795	18 Dec	2	8 Jan., 1903.*	
Flax-fibre to scutching-machine, Feeding	W. B. Arlidge	14923	26 May 29 Nov	63 102	16 Oct. 11 Dec.*	
Flax, Scutching-machine for Flax, Spinning fibre from New Zealand	A. E. Reeves I. Jacob and W. Pritzkow	15710 15711	29 Nov	2	8 Jan., 1903.	
Float in body of water as motor	T. W. Mayson	15685	22 Nov	102	11 Dec.* 13 Nov.	
Fluid compression, Elastic	H. Bland	15581 15784	31 Oct 18 Dec	94	8 Jan., 1903.	
Flushing-cistern	T. Smith and G. Boardman	15694 15562	27 Nov 25 Oct	2 94	8 Jan., 1903. 13 Nov.*	
Flushing-tank, Siphon	A. Burt, jun	14625	14 March	2	8 Jan., 1903.	
Flying-machine	R. Whittingham	15787 15612	18 Dec	2 99	8 Jan., 1903.* 27 Nov.*	
Food-plate	P. J. Whitfield	15778	17 Dec	2	8 Jan., 1908.	
Foster-mother and incubator	C. L. Bridges J. H. Braithwaite	15476	6 Oot 17 Dec	87 2	30 Oct.* 8 Jan., 1903.	
Free wheel for velocipedes, &c Freezing-room, Door for	J. R. Watt	15589	3 Nov	00	27 Nov.*	
Fruit-trees, Destroying blight on	W. J. Botting	15538	22 Oct 6 Nov	87 94	30 Oct.* 13 Nov.*	
Frying-pan, Enclosing	W. Kibblewhite T. H. Brown	14400	6 Jan	94 83	16 Oct.	
Fuel briquettes	International Fuel Company	15576	30 Oct	94	13 Nov.	
Fuel, Converting floor-dust into	E. R. Jennings and "Pyrojim" Syndicate, Limited	15653	19 Nov	99	27 Nov.*	
Fumes from ore, Producing and depositing	The Metallic Compounds Separa- tion Syndicate, Limited	15572 14338	30 Oct	102	23 Jan., 1903. 11 Dec.	
Bronness Dailer					/88.	
Furnace, Boiler Furnace, Ore roasting	J. Chambers and Son, Limited W. A. Maddern	145516	16 Dec., 1901 16 Oct.	0.0	30 Oct.	

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THE NEW ZEALAND GAZETTE.

ALPHABETICAL LIST OF INVENTIONS-continued.

Invention.	Name.	Application.	Gazette.
		No. Date.	No. Date.
Galley. (See Printers' galley.)			
Game. (See Table-cricket.)		· · · · · · · · · · · · · · · · · · ·	
Game apparatus	S. White	15629 11 Nov	99 27 Nov.*
Game, New table	W. Dawson Inverted Incandescent Gas-lamp	15458 1 Oct 14612 13 March	83 16 Oct.* 87 13 Oct.
Gas burner	Syndicate, Limited	14612 13 March	01 10 000.
Gas-burner, Incandescent	Flameless Gaslight Company,	15578 30 Oct	94 13 Nov.
Gas, Carburetted water	Limited H. W. G. Henderson	14654 20 March	83 16 Oct.
Gas-engine and gas-producer	M. Taylor	15748 11 Dec	2 8 Jan., 1903.
Gas-engine, Electric ignition for	F. Henderson	15525 15 Oct	87 30 Oct.*
Gas from volatile hydrocarbon, Inflam. mable	G. H. Clapham	15745 11 Dec	2 8 Jan., 1903.*
Gas, Generating acetylene	W. R. Hyde	15606 4 Nov	94 13 Nov.
Gas, Illuminating	W. H. Gaze R. Lockhead		102 11 Dec. 102 11 Dec.*
Gas lighting and heating	W. H. Gaze	15565 29 Oct	94 13 Nov.*
Gas-lighting. (See Incandescence gas light-			
ing Gas-pressure regulator	F. Baertl	15645 19 Nov	99 27 Nov.
Gate, Automatically operating	O. Hansen	15483 4 Oct.	87 30 Oct.*
Gathering and shaping glass	Toledo Glass Company	15522 16 Oct	87 30 Oct.
Gauge for steam-boiler, Water Gelatine, Manufacture of	A. B. Masters	15585 31 Oct 15767 17 Dec	94 13 Nov.*
Generator. (See Acetylene-generator.)			
Glass article, Hollow	H. Severin	15690 27 Nov	102 11 Dec.
Glass, Gathering and shaping	Toledo Glass Company A. Jewiss and G. Inglis	15522 16 Oct 15637 15 Nov	87 30 Oct. 99 27 Nov.
Gold-dredging	F. Marisco	14409 10 Jan	99 27 Nov.
Gold-dredging	H. N. McLeod and G. A. Hurley	14401 6 Jan 15529 14 Oct	87 30 Oct. 87 30 Oct.*
Gold, Raising, from crevices in rock below water	J. D. Coomber	15529 14 Oct	87 30 Oct.*
Gold saving	H. G. Hankin	14564 27 Feb	83 16 Oct.
Gold-saving screen	F. J. Foot and C. J. Swan	15563 25 Oct 15656 17 Nov	94 13 Nov. 99 27 Nov.*
Gold-saving table	J. Ramsay	15726 5 Dec	2 8Jan., 1903.*
Gold, Treating tailings for	M. Gargurevich	15468 3 Oct	83 16 Oct.*
Governor, Marine	W. G. Hood, R. Williams, and J. Reilly	15633 15 Nov	99 27 Nov.*
Grain, Poisoning	J. W. Arthur	15549 16 Oct	87 30 Oct.*
Grain-reel for reaping-machine Grate, Draught-regulator for	J. Kelly J. Mackie	15667 19 Nov	99 27 Nov.* 87 30 Oct.*
Gravel, Excavating, &c	H. Quertier	15480 3 Oct	87 30 Oct.*
Gravel, Excavating, &c	H. Quertier	15586 31 Oct	94 13 Nov.*
Grease and oil separator	F. Moore	15762 12 Dec	2 8 Jan., 1903.
Grip-bracket and rowlock	D. Urquhart	15457 1 Oot	83 16 Oct.*
Grubber. (See Stump and root grubber.) Gun, Alarm	A. C. Whitney	15627 13 Nov	2 8Jan., 1903.*
Gun, Magazine	J. Hylard and E. G. H. Bingham	14405 8 Jan	87 30 Oct.
Hair. (See Shearing hair.)			
Hair and hat pin and fastener	W. H. Fahey and W. Wardrop	14828 2 May	2 8 Jan., 1903.
Hair-clipping machine	H. Leadbeater, jun	15757 11 Dec 15531 18 Oct	2 8 Jan., 1903.* 87 30 Oct.*
Handle grip, Bicycle	T. R. Porter	15674 24 Nov	102 11 Dec.*
Handle of door lock, Attaching Handle of knife	T. B. Jacobsen	14652 20 March 15645 25 Nov	102 11 Dec. 102 11 Dec.*
Harness for horses	J. T. Murphy	15658 20 Nov.	99 27 Nov.*
Harvester, Sheaf-binding	I. Trolley	15600 5 Nov	94 13 Nov.*
Hat-fastener	W. H. Fahey W. H. Fahey and W. Wardrop	15628 11 Nov 14828 2 May	99 27 Nov.* 2 8 Jan., 1903.
Hat, Securing, to wearer's head	W. A. Thomsen	15461 1 Oct	83 16 Oct.*
Heat from lamp, Utilising waste Heater and burner	E. J. Kee	15517 13 Oct 15498 6 Oct	87 30 Oct.*
Heater and distributor, Feed-water	A. McLeod	15498 6 Oct 15157 24 July	87 30 Oct.* 102 11 Dec.
Heater, Water	C. H. Verity	15777 30 Dec	
Heater, Water Heating, Gas for	R. L. H. Murray	15536 10 Oct 15565 29 Oct	9 5 Feb., 1903. 94 13 Nov.*
Heating water by steam	H. Baux	15524 14 Oot	87 30 Oct.*
Heel, Resilient leather	C. D. Lightband	15622 7 Nov	99 27 Nov.*
Hinge, Face pivot	D. W. Healy	15763 16 Dec 15482 7 Oct	2 8 Jan., 1903.* 87 30 Oct.
Hollow glass article	H. Severin	15690 27 Nov	102 11 Dec.
Hook, Buckle attachment to spring	A. Douglas T. Anderson and W. Nichols	14454 21 Jan 15766 15 Dec	83 16 Oct. 6 23 Jan., 1903.
Horse-cover lastening	J. Murphy	15700 15 Dec	6 23 Jan., 1903. 87 30 Oct.*
Horse-race-starting machine	H. C. Stortenbeker and S. J.	15716 4 Dec	102 11 Dec.
Horse rug	J. Burge	15624 13 Nov	99 27 Nov.
Horse-rugs, Securing	J. Ellis	15811 24 Dec	2 8 Jan., 1903.
Horse-stopper	T. Firth	15758 15 Dec	2 8 Jan., 1903.
Hurdle, Racing Hydrocarbon, Gas from	H. P. Knutzen G. H. Clapham	15805 20 Dec 15745 11 Dec	2 8 Jan., 1903. 2 8 Jan., 1903.
	E. Waters, jun.	15718 4 Dec	102 11 Dec.
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ALPHABETICAL LIST OF INVENTIONS-continued.

	BETICAL LIST OF INVENTIONS—COM	·	plication.		Gazette.
Invention.	Name.	No.	Date.	No.	Date.
Illuminating-gas	W. H. Gaze	15565	29 Oct	94	13 Nov.*
Illuminating-gas	W. H. Gaze Flameless Gaslight. Company, Limited	15706 15124	2 Dec, 17 July	102 87	11 Dec. 30 Oct.
Incandescent gas-burner	Flameless Gaslight Company, Limited	15578	30 Oct	94	13 Nov.
Incandescent gas-lamp, Reflector for Incubator and foster-mother Indicating and calculating apparatus Indicator for trains, Distance	R. Lockhead C. L. Bridge J. C. McBride J. McKinnon	15709 15476 15510 15816	29 Nov 6 Oct 9 Oct 29 Dec	102 87 87 6	11 Dec.* 30 Oct.* 30 Oct.* 23 Jan., 1903.*
Ink. (See Copying-ink.) Invalid-table	F. A. Miller W. Swinnerton D. R. S. Galbraith and W. Steuart D. R. S. Galbraith and W. Steuart	14600 15558 15661 15662		102 102 99 .99	11 Dec. 11 Dec. 27 Nov.* 27 Nov.*
Jack, Lever lifting Jacket, Inflatable life-saving Jar-closure	W. McKenzie and J. R. Bell G. Nuttall J. A. Landsberger	15760 15761 15739	15 Dec 15 Dec 10 Dec	2	8 Jan., 1903. 8 Jan., 1903.
Joint for railway-crossing, Pivot blade	.W. Watts	.15493	9. Oct	87	30 Oct.*
Kauri-gum dirt, Utilising deposits of Kettle, Bottom and sides for Kit-valise or hold-all Kneading and mixing machine Knife-oleaner Knife-handle	TO TO XX7 XX73. 3.	14492 15632 15482 15746 15729 15695	31 Jan. 11 Nov. 7 Oct. 11 Dec. 8 Dec. 25 Nov.	2 99 87 2 2 102	8 Jan., 1903. 27 Nov.* 30 Oct. 8 Jan., 1903. 8 Jan., 1903.* 11 Dec.*
Ladder	J. P. Campbell T. McDonough L. Fagan E. J. Kee	15596 15786 15496 15472 15517 15743 15807	3 Nov. 18 Dec. 9 Oct. 4 Oct. 13 Oct. 10 Dec. 22 Dec.	94 2 87 83 87 2 2	13 Nov.* 8 Jan., 1903. 30 Oct.* 16 Oct.* 30 Oct. 8 Jan., 1903.* 8 Jan., 1903.*
Lawn-weeding tool Lead. (See White-lead.) Lead.sulphide from their ores, Extracting Leather and rubber composite Lever lifting-jack	W. Harrison E. S. Baldwin and H. H. Rayward C. D. Lightband and F. A. Webster W. McKenzie and J. R. Bell S. S. Stretton	$\begin{array}{c} 15721 \\ .15760 \\ 15666 \\ 15809 \end{array}$	3 Dec. 27 Nov. 3 Dec. 15 Dec. 21 Nov. 24 Dec.	102 102 102 99 2	11 Dec.* 11 Dec. 11 Dec.* 8 Jan., 1963. 27 Nov.* 8 Jan., 1903.
Life-saving jacket, Inflatable Life-saving raft Lighting, Incandescence gas	G. Nuttall G. Croll Flameless Gaslight Company, Li- mited	. 15761 : 15672 . 15124	15 Dec 22 Nov 17 July	102 87	11 Dec. 30 Oct.
Line, Carrying running over standing Lining for tunnel, &c	W. Beamish	15630 15819 15479 15717 14396 15609 15527	11 Nov 30 Dec 7 Oct 4 Dec 3 Jan 5 Nov 25 Oct., 1901	$ \begin{array}{c} 99\\ 6\\ 87\\ 102\\ 94\\ 99\\ \begin{cases} 2\\ 2\\ 9 \end{cases} $	27 Nov.* 23 Jan., 1903. 30 Oct. 11 Dec.* 13 Nov. 27 Nov. 8 Jan., 1903. 8 Jan., 1903.*
Lock. (See Seal lock, Vehicle-wheel lock.) Lock, Automatic window Lock, Nut Lock-nut plate Lock, Vehicle-wheel Locking bar joint of pipe Locking brake of vehicles Logs down a river, Rafting	J. H. S. Brown G. H. Bigelow R. E. Pennington and J. Bellett J. B. Jewell and W. H. Jewell	$\begin{array}{c} 15696 \\ 14845 \\ 15623 \\ 14645 \\ 15751 \\ 15792 \\ 15465 \end{array}$	25 Nov 1 May 13 Nov 20 March 9 Dec 19 Dec 2 Oct	102 83 99 2 2 2 2	11 Dec. 16 Oct. 27 Nov.* 8 Jan., 1903. 8 Jan., 1903. 8 Jan., 1903. 8 Jan., 1903. 8 Jan., 1903.
Magazine gun Mail-bag, Seal lock for strap of Manure-sower Marine governor	J. Channon R. W. Ayson W. G. Hood, R. Williams, and J.	14405 15678 15723 15633	8 Jan 25 Nov 2 Dec 15 Nov	87 102 2 99	30 Oct. 11 Dec. 8 Jan., 1903.* 27 Nov.*
Marine life-preserver. Marking survey-pegs, &c	A. G. Kidston-Hunter M. Bjornstad and J. Stacey H. Hodgson G. Westinghouse H. Pennington and M. T. West W. S. Davey D. Harris W. Barton A. Gaulin G. Adcock A. Gillies	14383 15479 14556 15539 15619 15460 15750 15506 15652 15564	24 Dec, 17 Dec 18 Nov 19 Dec 20 Dec 30 Dec., 1901 7 Oct 24 Feb 22 Oct 1 Oct 1 Dec 13 Oct 19 Nov 5 Nov	99	8 Jan., 1903. 8 Jan., 1903. 27 Nov.* 8 Jan., 1903.* 8 Jan., 1903.* 8 Jan., 1903. 16 Oct. 30 Oct. 27 Nov. 30 Oct.* 27 Nov. 16 Oct.* 8 Jan., 1903. 23 Jan., 1903. 27 Nov. 13 Nov.* 13 Nov.*
Milking-machine	A. Gillies and E. J. Kelly	15597,8	13,Nov	99	13 Nov.* 27 Nov.* 8 Jan., 1903.

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THE NEW ZEALAND GAZETTE.

ALPHABETICAL LIST OF INVENTIONS-continued.

Invention.	Name.	A	pplication.	Gazette.	
		No.	Date.	No.	Date.
Linnow, Artificial	C. H. Osmond	14684	26 March	83	16 Oct.
lotor-car. Free wheel for	J. H. Braithwaite	15770	17 Dec	2	8 Jan., 190
lotor, Reciprocatory	F. T. H. M. J. Marcard		31 Oct	94	13 Nov.
lotor, Using float in water	T. W. Mayson	15635	22 Nov	102	11 Dec.*
Louiding confectionery	F. A. Hankin	15665 15727	21 Nov 3 Dec	99	27 Nov.*
Loulding confectionery	A Bowntree	13727	3 Dec 11 March	$\frac{102}{102}$	11 Dec.
Iotion-transmitting mechanism, Bowden	G. W. Basley	15724	1 Dec	2	8 Jan., 190
fultitubular water column boiler	P. A. Hankin K. Schnetzer A. Rowntree G. W. Basley F. F., L. B., A. C., and H. W. Coulsell	15677	25 Nov	102	11 Dec.*
Tail for boot Tail for corrugated iron Tail, spike, bolt, &c. Table-tennis Testspaper-box, Weatherproof Tightsoil receptacle Inn-refillable bottle	TI Tarana	15010	10 37	00	07 N. *
all for poot	F. Jones C. F. Dunn	15618 15774	12 Nov	99	27 Nov.* 8 Jan., 190
ail spike, bolt, &c.	C. F. Dunn O. M. J. Olsen W. N. Smith	15518	17 Dec 13 Oct	87	30 Oct.*
fet. Table-tennis	W. N. Smith	15608	6 Nov		
lewspaper box, Weatherproof	J. Sigley	15236	2 Aug	94	13 Nov.
Tightsoil receptacle	H. Ham	15648	19 Nov	99	27 Nov.*
			6 Oct	87	30 Oct.
lozzle-appliance for cleaning grooves of	F. A. Jones, O. Bowman, G. McMullen, and A. Rankin	14863	9 May	78	2 Oct.
tramways, &c. Iurse for children, Mechanical		15484	6 Oct	87	30 Oct.*
lut-lock	G. H. Bigelow	14845	1 May	83	16 Oct.
il and grease separator	F. Moore	15762	12 Dec	2	8 Jan., 190
il-feeding can	W. Beamish	$15631 \\ 15489$	11 Nov	99 87	27 Nov.*
n-nuer boner	W.S.Kay	15489	3 Oct	87	30 Oct.*
il-engines, Discharging waste products of il-engine, Electric ignition for		1.288808	22 March 15 Oct	87	8 Jan., 19 30 Oct.*
iling axle of vehicle	T. S. Philpott	14609	12 March	2	8 Jan., 19
iling axles of vehicles	R. L. Suttie	110010	30 Dec	6	23 Jan., 190
pening oysters	J. Winepress	15467	2 Oct	83	16 Oct.
pening oysters	R. L. Suttle J. Winepress M. J. Cuerrie S. White		2 Dec	102	11 Dec *
pening soda-water, &c., bottles	S. White	15697	26 Nov	102	11 Dec.*
re, Aggiomerating finely divided	A. Malden and W. J. Malden J. R. Harrison		16 Oct	87 83	30 Oct.*
re-concentrator, ac	J. R. Harrison G. W. Wright	15402	1 Oct 31 Oct	94	16 Oct.* 13 Nov.*
il-engine, Electric ignition for iling axle of vehicle pening oysters pening oysters pening soda-water, &c., bottles re, Agglomerating finely divided re-concentrator, &c re, Producing and depositing fumes from			31 Oct	6	23 Jan., 19
re-roasting furnace	Syndicate, Limited W. A. Maddern	15516	16 Oct	87	30 Oct.
re, Treating refractory	W. A. Maddern W. E. Hughes	15780	18 Dec	2	8 Jan., 190
ttoman-scroll	A. W. Memory and F. G. Hind	14512	11 Feb	99	27 Nov.
re-roasting furnace re, Treating refractory ttoman-scroll ysters, Opening vysters	J. Winepress	15467	2 Oct	83	16 Oct.
	M. J. Cherrie	15705	2 Dec	102	11 Dec.*
acking-cases applied to roofing, &c acking semi-solid chemicals in small	E. L. Pease Baker and Rouse Proprietary,	15740 15699	10 Dec 26 Nov	$\frac{2}{102}$	8 Jan., 190 11 Dec.
quantities	Limited			ļ	
aper, Binding sheets of	J. T. Steele A. H. Brownley	15741	10 Dec	2	8 Jan., 19
arcel-grip, Advertising	A. H. Brownley	15570	30 Oct	2	8 Jan., 19
arcel-carrier system, Pneumatic	Lamson Store service Company, Limited	15573	39 Oct	94	13 Nov.
arcel-carrier. Wire-track	Lamson Store-service Company, Limited	15574	30 Oct	94	13 Nov.
arlour billiards	W. McLean	15649	19 Nov	99	27 Nov.*
enholder, Finger-guide for	D. McKenzie	15817	30 Dec	6	23 Jan., 190
erambulator	L. Adamson	15478	6 Oct	87	30 Oct.
erforated brick	J. Clark	15459	1 Oct	83	16 Oct.*
erfor ting tape for telegraph instrument	J. Gell	14097	5 Oct., 1901	83	16 Oct.
erishable products, Preserving	D. R. Jones and P. A. Larritt	14586	1.1	$102 \\ (2)$	11 Dec. 8 Jan., 19
notographic apparatus, Loading	G. N. Pifer	.15527	25 Oct., 1901	2	8 Jan., 19 8 Jan., 19
notographic likeness, Mechanism for a automatically producing a	G. N. Pifer	.15731	13 Dec., 1901	$\begin{pmatrix} 2\\ 2 \end{pmatrix}$	8 Jan., 19 8 Jan., 19
notographic plate	G. N. Pifer	15528	25 Oct., 1901	$\begin{pmatrix} 2\\ 2 \end{pmatrix}$	8 Jan., 19 8 Jan., 19
ano bracket lamp	L. Fagan	15472	4 Oct	83	16 Oct.*
pe, Closing locking-bar joint of anter. (See Potato-planter.)	G. J. Hoskins	15751	9 Dec	2	8 Jan., 19
ate. (See Food-plate, Photographic plate.)					
dirt	J. Thomson	15801	18 Dec	2	8 Jan., 190
ough attachment	H. G. Williams	15466	2 Oct	83	16 Oct.*
ough, Ditch	J. Robertson	15588	29 Oct	94	13 Nov.*
ough for breaking subsoil, Attachment to	H. Coe	15642	17 Nov	99	27 Nov.*
ough, Road	E. H. Grey	14738	12 April	94	13 Nov.
ug-brick and hæmatite concrete neumatic cash and parcel carrier system	R. Harrison	15673	24 Nov.	102	11 Dec.*
le umano casi anu parcei carrier system	Lamson Store-service Company, Limited	15573	3 Oct	94	13 Nov.
neumatic tire	C. Ray	14395	3 Jan.	83	16 Oct.
neumatic tire	J. R. Brunt and R. C. Pitt	14395 14408	0.7	83	16 Oct. 16 Oct.
neumatic tire, Covering for	C. D. Lightband	15495	8 Jan 7 Oct	87	30 Oct.*
	G. F. Brown	15615	7 Nov	99	27 Nov.*
neumatic-tire covering					
bisoning grain	J. W. Arthur T. Robertson	15549 15778	16 Oct 18 Dec	87 2	30 Oct.* 8 Jan., 190

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ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.	Name.	Ap	plication.	Gasette.		
Invention.	Namo.	No.	Date.	No.	Date.	
Polishing-machine. (See Boot-polishing	· · ·					
machine.)	D. Brummen	15651	19 Nov	1		
Portable building	D. Brummer F. Oakden	14605	8 March	2	8 Jan., 1903.	
Potato carrier	E. Walker	15571	30 Oct		•••==;;=•••••	
Potato-planter	F. Cooper	15737	24 Nov	2	8 Jan., 1903.*	
Poultry-brooder	S. R. Johnson	15492	9 Oct 19 Nov	87 99	30 Oct.* 27 Nov.	
Power from waves of sea	O. P. de Lajard D. R. Jones and P. A. Larritt	15654 14586	6 March	102	11 Dec.	
Preserving skin, Preparation for	K. Cooper.	15520	15 Oct	87	30 Oct.*	
Printer, Butter	W. Riddell	14473	23 Jan	87	30 Oct.	
Printers' galley and chase	F. P. Wilson	15635	17 Nov	99	27 Nov.	
Printing-machine Printing-machine for butter, &c	R. Boxall and A. C. Robinson	15575 15543	30 Oct 23 Oct	99	27 Nov.*	
Printing-roller, Removable	J. Anderson	15486	4 Oct	87	30 Oct.	
Printing surface, Production of	W. Thomas	14607	10 March	102	11 Dec.	
Propeller, Auxiliary	R. P. Gibbons	15640 15548	13 Nov 16 Oct	99 87	27 Nov.* 30 Oct.*	
Propeller, Controlling steam-boat Propeller-hood attachment	M. McCormick M. W. Lane	15560	16 Oct 28 Oct	94	13 Nov.	
Pulverising-apparatus	W. A. Köneman	15577	30 Oct	94	13 Nov.	
Pump for drawing off liquid	W. H. Boyens	14396	3 Jan	94	13 Nov.	
Pump, Rotary	P. R. Williamson	14263	21 Nov., 1901	102	11 Dec.	
Pumping smoke or fumes	D. Hanna	15643 15568	17 Nov 30 Oct	99 94	27 Nov.* 13 Nov.	
Punkah for chair, &c	H.W.Hayes	10000	30 Oct	54	10 1004.	
Rabbits, Poisoning	T. Robertson	15778	18 Dec		8 Jan., 1903.	
Rabbit-trap	C. W. Constable	15675	19 Nov	102	11 Dec.*	
Race-starting-machine, Horse	H. C. Stortenbeker and S. J. Cowan	15716	4 Dec	102	11 Dec.	
Racing-hurdle	H. P. Knutzen	15805	20 Dec	2	8 Jan., 1903.*	
Raft, Life-saving	G. Croll	15672	22 Nov	102	11 Dec.*	
Rafting logs, &c., down a river	A. M. Grainger	15465	2 Oct	83	16 Oct.*	
Rail-cleaner. (See Tram-rail cleaner.)	C A Hara	15691	27 Nov	102	11 Dec.	
Railroad cross-tie, Cutting Railway. (See Cash-carrier railway,	C. A. Hege	10091	27 Nov	102	11 1000.	
Electric railway.)						
Railway air-brake, Adjusting	R.E. Robertson	15708	2 Dec	102	11 Dec.*	
Railway brake	S. Cheney, jun	15566	29 Oct	94 87	13 Nov.* 30 Oct.*	
Railway-crossing, Pivot blade-joint for Rain-water, Collecting	W. Watts	15493 15657	9 Oct 20 Nov	99	27 Nov.	
Raising gold from crevice in rock below	J. D. Coomber	15529	14 Oct	87	30 Oct.*	
water		1	1			
Rat-trap	H. Dixon	15812 15813	23 Dec 23 Dec	6	23 Jan., 1903.	
Rat-trap Razor-strop	H. Dixon	15732	9 Dec	2	23 Jan., 1903. 8 Jan., 1903.	
Reaping-machine, Grain-reel for	J. Kelly	15667	19 Nov	99	27 Nov.*	
Receiver for wireless telegraphy	G. Marconi and Marconi's Wireless	15689	3 May	102	11 Dec.	
Designed store motor	Telegraph Company, Limited F. T. H. M. J. Marcard	15582	31 Oct	94	13 Nov.	
Reciprocatory motor	W. C. Forbes	15541	22 Oct	87	30 Oot.	
Reduction of ironsand, &c	D. R. S. Galbraith and W. Steuart	15661	18 Nov	99	27 Nov.*	
Reduction of ironsand	D. R. S. Galbraith and W. Steuart	1 1 1 1 1 0 0	18 Nov	99	27 Nov.*	
Reflector for incandescent gas-lamp		1 5 5 0 0	29 Nov 18 Dec		11 Dec.* 8 Jan., 1903.	
Refractory ores, Treating	H. Droutlege	1 1014	22 Dec		23 Jan., 1903.	
Regulating intermittent squeeze and feed		15751	9 Dec	1 0	8 Jan., 1903.	
for closing joints of pipes			1			
Regulator. (See Draught-regulator, Gas-						
pressure regulator.) Relief-valve, Automatic	P. E. Sagnol and T. Tonks	15719	4 Dec	102	11 Dec.*	
Removing tire of bicycle	S. Nicolson	15659	20 Nov		8 Jan., 1903.	
Renewing window-cords	A. Smith and R. Ewing	4 2 2 4 0	10 Oct		19 No	
Repairing rib of umbrella, Clip for		1 2001	14 Oct 7 Nov	1 00	13 Nov. 27 Nov.*	
Resilient leather heel	1 75 171.33	1 4 8 4 8 0	3 Oct	1 00	16 Oct.*	
Reversing rotation of shafting.	W. A. Gamman	15684	26 Nov	102	11 Dec.	
Rims of wheels, Tightening	J. Winters	15584	31 Oct	1 00	13 Nov.	
River, Rafting logs down a		1 1 2 0 0		1	16 Oct.* 13 Nov.	
Road-plough	E. H. Grey	11100			1	
Rock-drilling machine	C. W. Thompson	15771	17 Dec			
Roller. (See Printing-roller.)	THE OF IT	15005	9 N	04	19 No. *	
Roller, Cleaner for drill	W. Gardiner	1 1 1 1 1 1 1	3 Nov 10 Dec		13 Nov.* 8 Jan., 1903	
Roofing, Structural arrangement applicable to	E. L. Pease	10140	10 1000,	· "	0.000	
Root-grubbing machine	S. H. Manners	15759			8 Jan., 1903	
Rope-tightener	A. S. Pike	15747	0.37	00	8 Jan., 1903.	
Rotary engine					27 Nov. 8 Jan., 1903	
Rotary fluid-engine	D D D DIVILLE	1 1 1 0 0 0			11 Dec.	
Rotary pump	TT T TTT: L:	1 2002	13 Nov	99	27 Nov.*	
Rotation of shafting, Reversing	W. A. Gamman	15684	26 Nov	. 102	11 Dec.	
"Roulette" billiards	E. Hasselbach		6 Dec		8 Jan., 1903. 16 Oct.*	
Rowlock and grip-bracket		r 15457 r 15721	1 Oct	102	10 Oct.*	
Rubber composite, Leather and . Rug for cows, &c			13 Nov	. 99	27 Nov. 8 Jan., 1903	

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ALPHABETICAL LIST OF INVENTIONS-continued.

	y 1	Al	plication.	1	Gazette.
Invention.	Name.	No.	Date.	No.	Date.
Sack-mouth fastener	W. Beamish	15508	11 Oct	87	30 Oct.*
Sack-mouth fastener	W. Beamish	15669	19 Nov	99	27 Nov.*
Saddle	H. W. Downing	15556	27 Nov	94	13 Nov.*
Safety-valve	M. Corrington	15820	30 Dec	6	23 Jan., 1903.
Sash-fastener	A. F. W. Lorie	14554	20 Feb	102	11 Dec.
Sash-fastener	R. F. Smith	15027	19 June	78	2 Oct.
Sash, Safety	H. Mayr	15591	30 Oct	94	13 Nov.
Sash, Sustaining and fastening window	J. A. Belk J. Moss	$13968 \\ 15821$	4 Sept., 1901 30 Dec	102 6	11 Dec. 23 Jan., 1903.
Sash, &c., Window Saucepan lid	a a almatian	15666	30 Dec 21 Nov	99	25 Jul., 1905. 27 Nov.*
Saucepan IId	J. Robson	15655	19 Nov	99	27 Nov.*
Scoop, Dray	D. L. Cochrane	15676	19 Nov	99	27 Nov.*
Scoop, Dray	D. L. Cochrane	15712	3 Dec	102	11 Dec.*
Scouring. (See Wool-scouring.)					
Screen. (See Fire-screen, Gold-screen, Dredge-screen.)	C F Durn	18004	17 D		0 Tom 1000
Screw	C. F. Dunn M. W. Lane	$15774 \\ 15560$	17 Dec 28 Oct	94	8 Jan., 1903. 13 Nov.
Scrubber	(D) 3.4 TT'	15454	0.0	94	13 Nov.
Soutching-machine, Feeding flax-fibre to	W. B. Arlidge	14923	25 Oct 26 May	83	16 Oct.
Soutching machine, Flax	A. E. Reeves	15710	29 Nov	102	11 Dec.*
Sea, Utilising power of waves of	C. P. de Lajard	15654	19 Nov	99	27 Nov.
Seal lock for mail-bag	J. Channon	15678	25 Nov	102	11 Dec.
Seat for chair, Adjustable	H. Salomo	15469	3 Oct	83	16 Oct.*
Seat for vehicle, Adjustable	W. Jenkinson	15509	9 Oct	87	30 Oct.*
Seed-drill box	H. V. McKay	$14746 \\ 15723$	14 April 2 Dec	22	8 Jan., 1903. 8 Jan 1903 *
Seed broadcast, Drill for sowing	R. W. Ayson W. E. Chamberlain	15725	2 Dec 23 Dec		8 Jan., 1908.*
Seed sower and hopper, Agricultural	A. Storrie.	14423	8 Jan	83	16 Oct.
Seed-sowing canister	E. Bowmar	15604	5 Nov	94	13 Nov.*
Seeding-machine, Furrow-opener	Bickford and Huffman Company	15683	26 Nov	102	11 Dec.
Seed with fertiliser, Sowing	P. F. A. and J. Robertson	15550	9 Oct	87	30 Oct.
Self acting earth-closet	J. W. Henderson	15686	27 Nov	102	11 Dec.*
Selvedge-stripping flax-drum	W. Fairweather, J. Fairweather,	15795	18 Dec	2	8 Jan., 1903.*
Separating fine from coarse washdirt	and W. Fairweather, jun. J. Thomson	15801	18 Dec	2	8 Jan., 1903.*
Separating fine from coarse washdirt	F. Moore	15762	12 Dec	2	8 Jan., 1903.
Set-square	H. H. Murdoch	15660	19 Nov	99	27 Nov.
Settees adjusting	A. W. Memory and F. G. Hind	14512	11 Feb	99	27 Nov.
Sewage-treating tank, &c	J. T. N. Anderson	15679	22 Nov	102	11 Dec.*
Sewing-machine	J. C. Moore	14456	21 Jan	94	13 Nov.
Sewing-machine, Vertical	J. Robson	15655	19 Nov	99	27 Nov.*
Shackle and sling	W. Beamish	15507	11 Oct	87	80 Oct.*
Shafting, Reversing Sheaf-binding harvester, &c	W. A. Gamman	$15684 \\ 15600$	26 Nov 5 Nov	102 94	11 Dec. 13 Nov.*
Shearing hair or wool	Wolseley Sheep shearing Machine	15644	5 Nov 19 Nov	99	27 Nov.
	Company, Limited				
Shears. (See Sheep-shears.)		ļ			
Sheep-shears	J. A. Boreham	15553	23 Oct	94	13 Nov.*
Sheep-shears	O. Börs	15420	19 Sept	94	13 Nov.
Sheep-shears	H. Burgon	15682	15 Feb	102	
Sheep-shears	J. Pomeroy H. R. Walker	$14590 \\ 15693$	1 March 27 Nov	99 102	27 Nov. 11 Dec.*
Ship's course recorder	W. C. Forbes	15541	22 Oct		30 Oct.
Ship, Distance, &c., recorder for	W. C. Forbes	15541	22 Oct	' a= '	30 Oct.
Shovel	J. Arthur, jun	15810	23 Dec	6	23 Jan., 1903.*
Signalling state of tide	G. Allman	15611	6 Nov	94	13 Nov.*
Signalling state of tide	G. Allman, F. Clennell, and H. L.	15776	17 Dec	2	8 Jan., 1903.
Silver sulphide, Extracting, from ore	Moffatt E. S. Baldwin and H. H. Ray-	15687	27 Nov	102	11 Dec.
Single-wire system of cash-railway	ward G. W. Basley	15547	20 Oct	87	30 Oct.
Siphon	W. Waters	15702	27 Nov	102	11 Dec.*
Siphon flushing-tank	A. Burt, jun	15562	25 Oct	94	13 Nov.*
Siphon for water-closet	J. Constable	15670	0.7	102	11 Dec.
Siphon pump for drawing off liquids Skin, Preparation for	W. H. Boyens	14396 15520	3 Jan 15 Oct	94 87	13 Nov. 30 Oct.*
Sleeve of lower tumbler shaft, Attaching	J. Murison and C. L. Watt	13520	15 Oct 26 April	87	8 Jan., 1903.
Sling and shackle	W. Beamish	15507	11 Oct	87	30 Oct.*
Smoke or fumes, Pumping	D. Hanna	15643	19 Nov	99	27 Nov.*
Scap-moulding machine	K. Schnetzer	15727	3 Dec		••
Soda-water bottle, Opening	S. White	15697	26 Nov	102	11 Dec.*
Soles of boots, Trimming	United Shoe Machinery Company	15650	19 Nov	99	27 Nov.*
Sower. (See Seed-sower.) Sowing seed with fertiliser	P. F. A. Robertson and J. Robert-	15550	16 Oct	87	30 Oct.*
	son				
Spark-arrester and draught-controlling apparatus	J. C. Bowring	15715	4 Dec	2	8 Jan., 1903.*
Spark-arrester for locomotive	H. S. Wainwright	15617	7 Nov	99	27 Nov.
Spark-arrester for locomotive	TDIII	15617	7 Nov 15 Nov	99	27 Nov.*
Spark-catcher	C. W. Constable	15058 15485	1 Oct	99 87	30 Oct.*
Sponge, Restoring overworked.	R. Todd	15470	3 Oct	83	16 Oct.*
Spring. (See Carriage spring.)					
Spring-grip dumb-bell, Converting an or-	J. Payne	15639	14 Nov	99	27 Nov.*
dinary into		1		j l	н. — — — — — — — — — — — — — — — — — — —

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ALPHABETICAL LIST OF INVENTIONS continued.

	App		Application.		Gazette.		
Invention.	Name.	No.	Date.	No.	Date.		
		11					
Square. (See Set-square.) Stand for exhibiting purposes	T. Mutton and H. E. Hupton	15613	4 Nov	99	27 Nov.		
Stand for ironing-board	W. Swinnerton	15558	24 Oct	102	11 Dec.		
Staple	P. H. McConachy	15641	18 Nov	99	27 Nov.*		
Starting-machine, Horse-race	H. C. Stortenbeker and S. J. Cowan	15716	4 Dec	102	11 Dec.		
Steam-boiler	R. P. Gibbons	15497	7 Oct	87	30 Oct.*		
Steam-boiler	R. P. Gibbons	15614	5 Nov	99 87	27 Nov.*		
Steam-engine, Compound	R. P. Gibbons E. L. Wickins	15537 15625	18 Oct 13 Nov	99	30 Oct.* 27 Nov.*		
Steam, Heating water by	H. Baux	15524	14 Oct	87	30 Oot.*		
Steamer, Cleaning corrosive matter from	R. B. Wight J. McLean	$15526 \\ 15802$	14 Oct 22 Dec	87	30 Oct.* 8 Jan., 1903.*		
Steering-engine, Controlling gear for	J. McLeanH. Whittaker	15534	18 Oct	87	30 Oct.*		
Stoker, Mechanical	J. W. Kincaid	15783	18 Dec	2	8 Jan., 1903.		
Stopper for bottle	R. S. Haughton L. Caselberg	$\frac{15730}{14476}$	8 Dec 27 Jan	2 94	8 Jan., 1903.* 13 Nov.		
Stopper, Horse	T. Firth	15758	15 Dec	2	8 Jan., 1903.*		
Stopper, Vehicle wheel	F. Hatton	15720	4 Dec	102	11 Dec.*		
Stopping and restarting windmill Strainer. (See Wire-strainer.)	J. M. Phillipps	15551	25 Oct	87	30 Oct.		
Strainer, Milk	D. Harris	15619	12 Nov	99	27 Nov.		
Straining milk, Apparatus for	G. Adcock	15506	13 Oct	6 94	23 Jan., 1903. 13 Nov.*		
Straw-trusser, &c Streets, Cleaning and watering	I. Trolley H. Ashwood	$15600 \\ 15772$	5 Nov 17 Dec	2	8 Jan., 1903.*		
Stretcher. (See Trouser-stretcher.)					•		
Strop. (See Razor-strop.) Structural arrangement applicable to	E. L. Pease	15740	10 Dec	2	8 Jan., 1903.		
roofing, &c.							
Stump-grubbing machine	S. H. Manners	15759	15 Dec	2	8 Jan., 1903.		
Subsoil, Plough for breaking	H. Coe E. A. Slack	$\frac{15642}{14521}$	17 Nov 5 Feb	99 94	27 Nov.* 13 Nov.		
Suction dredging, Valve for	J. Shepherd	15503	10 Oct	87	30 Oct.*		
Sulphides, Extracting	E. S. Baldwin and H. H. Rayward	15681	26 Nov.	102	11 Dec.*		
Sulphides, Extracting	E. S. Baldwin and H. H. Rayward		27 Nov	100	8 Jan., 1903. 11 Dec.		
Supporting window-curtain	V. H. L. Wood	15636	17 Nov	99	27 Nov.*		
Survey-pegs, Marking	W. D. R. McCurdie H. G. McWilliam	$\frac{15794}{15823}$	17 Dec 30 Dec	2	8 Jan., 1903.* 23 Jan., 1903.		
Suspender, Trouser Sweeping-brush, Dustless	J. P. Wiens	15515	16 Oct	0	30 Oct.		
Sweetmeat for consumption, &c., Medi-	M. Bjornstad and J. Stacey	15808	20 Dec		8 Jan., 1903.		
cated							
Table-cricket	H. Banks	15477	6 Oct	87	30 Oct.		
Table, Extension	L. Kortlang, sen., and A. Kortlang		17 Dec 10 March	1-00	8 Jan., 1903.* 11 Dec.		
Table for invalidTable game, New	F. A. MillerW. Dawson	14600 15458	10 March	1 00	16 Oct.*		
Table, Gold-saving	J. Ramsay	15656	17 Nov	99	27 Nov.*		
Table, Gold-saving	J. Ramsay W. Jenkinson	15726 15509	5 Dec 9 Oct		8 Jan., 1903.* 30 Oct.*		
Tailboard of cart. Fastening		15754	12 Dec	1 0	8 Jan., 1903.*		
Tailings for gold, &c., Treating	M. Gargurevich	15468	3 Oct	83	16 Oct.*		
Tank, elevator and cleanser, Sewage-treat-	J. T. N. Anderson	15679	22 Nov	102	11 Dec.*		
ing Tap for filter-press, High-pressure	R. F. Bradshaw and W. E. Hard-	15769	17 Dec	2	8 Jan., 1903.		
	ing	18500	30 Oct	94	13 Nov.		
Tap, Telescopic Tape for telegraph instrument, Perforating	W. J. Dalton J. Gell	$15592 \\ 14097$	5 Oct., 1901	83	16 Oct.		
Target	J. W. Porter	15230	7 Aug	99	27 Nov.		
	T. Goucher W. Hatton		28 Feb 8 Dec	$\frac{102}{2}$	11 Dec. 8 Jan., 1903.		
Target, Holding and plumbing Tea, Soluble extract of	J. Roger and M. K. Bamber	15664	18 Nov	99	27 Nov.		
Telegraph instrument, Perforating tape for	J. Gell	14097	5 Oct., 1901	83	16 Oct.		
Telegraphy. (See Wireless telegraphy.) Telescopic tap	W. J. Dalton	15592	30 Oct	94	13 Nov.		
Tennis net, Table	W. N. Smith	15608	6 Nov		••		
Tents and valise accessories	W. I. Hunser		2 Dec 3 Oct		11 Dec. 16 Oct.*		
of							
Tide, Signalling state of	G. Allman E. Clannell and H. L.	15611	6 Nov 17 Dec		13 Nov.* 8Jan., 1903.*		
Tide, Signalling state of	G. Allman, F. Clennell, and H. L. Moffatt	15776	17 Dec		00 00. 1000.		
Tightener, Belt and rope	A. S. Pike		11 Dec		8 Jan., 1903.*		
Tightening rim of wooden wheel			31 Oct		13 Nov.* 13 Nov.*		
Tightening wire fencing Time-recorder. (See Clock.)	U. E. Hayward, Juli	1					
Tine cultivator, Spring	F. Cooper.	14677	22 March		8 Jan., 1903.		
Tinning machine, Butter			23 Oct 30 Dec., 1901	. 99	27 Nov. 16 Oct.		
Tinning or retinning metal goods Tire. (See Pneumatic tire.)	H. Hodgson	1.1					
Tire, Cover for pneumatic		15495	7 Oct	1 0	30 Oct.*		
Tire of bicycle, Removing				1 00	8 Jan., 1903.* 16 Oct.		
Tire, Pneumatic	J. R. Brunt and R. C. Pitt	. 14408	8 Jan	. 83	16 Oct.		
Tires, Shaping covers of	. F. S. Ornstien	15704		00	11 Dec. 27 Nov.		
Tires, Sustaining air-pressure in .	P. J. Darling, F. L. Summerton and F. J. Amos	, 15567	20 000.	99	21 1107.		
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ALPHABETICAL LIST OF INVENTIONS-continued.

			A	pplication.		Gazette.
Invention.		Name.	No.	Date,	No.	Date.
Tobacco-pipe cleaner	•••	A. Williamson	15587	29 Oct	94	13 Nov.*
Tongs		W. Borlase	15488	3 Oct	87	30 Oct.*
Tool, Edged	••	R. McKenzie	15722	2 Dec	102	11 Dec.*
Totalisator	••	H. Droutlege	15814 15599	22 Dec 5 Nov	6 94	23 Jan., 1903.* 13 Nov.*
Toy Traction. (See Electric traction.)	••	R. W. Duke	10099	5 1107	33	15 100.
Traction machinery		N. Hiss	15782	18 Dec	2	8 Jan., 1903.
Train, Distance-indicator for		J. McKinnon	15816	29 Dec	1 ::	
Tramcar brake, Electric	••	J. T. Hunter	15579	30 Oct	94	13 Nov.
Tramways, Cleaning grooves of	••	G. McMullen, A. Rankin, F. A.	14863	9 May	78	2 Oct.
Trap, Animal		Jones, and O. Bowman A. Campbell	15791	16 Dec	2	8 Jan., 1903.*
Trap, Animal		D. Matheson and D. Taylor	15505	10 Oct		••
Trap, Animal	• •	R. S. Black	15487	3 Oct		30 Oct.*
Trap, Animal	• •	W. Borlase	15735	6 Dec	2	8 Jan., 1903.*
Trap, Rabbit	••	C. W. Constable	15675	19 Nov	102	11 Dec.* 27 Nov.*
Trap, Small-bird	••	F. A. Burdett-Stuart	15595	4 Nov.	2	8 Jan., 1903.
Trap. (See also Rat trap.)						
Trimming soles of boots	••	United Shoe Machinery Com-	15650	19 Nov	99	27 Nov.*
		pany	15000	10 No.	00	07 Nov *
Trouser-clip, Cyclists'	••	W. Beamish	15668 14805	19 Nov 29 April	99 87	27 Nov.* 30 Oct.
Trousers, Stretching Trouser-suspender	•••	H. G. MacWilliam	15823	30 Dec	6	23 Jan., 1903.
Tumbler of lower tumbler shaft, Sleep		J. Murison and C. L. Watt	14808	26 April	2	8 Jan., 1903.
Tunnel, Wall or lining for	••	G. H. Dunlop	15819	30 Dec	6	23 Jan., 1903.
Typewriter, Copying-ink for	••	W. Stewart	15530	15 Oct	87	30 Oct.*
Umbrella		K. Davey	15545	22 Oct	87	37 Oct.*
Umbrella-fastener	••	R. N. Adams	15789	16 Dec	2	8 Jan., 1903.*
Umbrella-rib, Clip for broken		T. Rice	15513	14 Oct	94	13 Nov.
Valise. (See Kit-valise.)		W. M. Handen	15707	2 Dec	102	11 Dec.
Valise accessories, Tents and Valve-arrangment for suction-dredgin	g	W. T. Hunter J. Shepherd	15503	2 Dec 10 Oct		30 Oct.*
Valve gear, Engine	ь 	W. Mayne	15583	31 Oct		13 Nov.
Valve, Relief		P. E. Sagnol and T. Tonks	15719	4 Dec	1100	11 Dec.*
Valve, Safety	••	M. Corrington	15820	30 Dec	6	23 Jan., 1903.
Vapour-burner	••	E. Waters, jun	15718	4 Dec	102	11 Dec.
Variable-speed gearing for velocipede	 	J. H. Braithwaite	15770	17 Dec 9 Oct	$\begin{vmatrix} 2\\ 87 \end{vmatrix}$	8 Jan., 1903. 30 Oct.*
Vehicle, Adjustable seat and tailboar Vehicle-wheel brake	. 10F	W. Jenkinson F. Matthews	15792	9 Oct 19 Dec	2	8 Jan., 1903.*
Vehicle-wheel lock		T. Firth	15758	15 Dec	2	8 Jan., 1903.*
Vehicle-wheel stop		F. Hatton	15720	4 Dec		11 Dec.*
Vehicles, Oiling axles of	••	T. S. Philpott	14609	12 March	2	8 Jan., 1903.
Velocipede, Free wheel, &c., for Venetian blind	••	J. H. Braithwaite R. Barrett	$15770 \\ 15523$	17 Dec 16 Oct	2 87	8 Jan., 1903. 30 Oct.*
Ventilating, Window for	••	F. Roberts	15546	16 Oct 21 Oct		30 Oct.*
Ventilator		R. Tudehope and B. Crawford	15481	3 Oct	87	30 Oct.
Ventilator		W. F. Slack	15552	25 Oct	87	30 Oct.*
Vessel for metallurgical work, Lining		G. Westinghouse	15479	7 Oct	1 00	30 Oct.
Vessels, Loading, &c Vessels, Unloading	••	G. H. Airey Economic Hoisting and Ballast	$ 15609 \\ 15749$	6 Nov 11 Dec		27 Nov. 8 Jan., 1903.
Vessels, Unloading	••	Company	10,10	II Dec	1 ~	0 0 0001, 1000.
Wad for ammunition loading	••	Colonial Ammunition Company,	15435	24 Sept	102	11 Dec.
Wall or lining for tunnel, &c		Limited G. H. Dunlop	15819	30 Dec	6	23 Jan., 1903.
Walling	•••		1 1 1 1 1 1	30 Dec 10 Dec		8 Jan., 1903.
Walls		J. G. F. Lund	15779	18 Dec	2	8 Jan., 1903.
Washdirt, Treating auriferous	••	J. Thomson	15799	17 Dec	2	8 Jan., 1903.*
Washdirt, Treating auriferous	••	J. Thomson	15800	17 Dec	2	8 Jan., 1903.*
Washing. (See Wool-washing.) Washing-copper		J. Bates and W. G. Trudgeon	15692	27 Nov	102	11 Dec.
Waste heat from lamp, Utilising		E. J. Kee	15517	13 Oct	87	30 Oct.*
Waste products of oil-engine, Dischar		R. Arthur	14669	22 March	2	8 Jan., 1903.
Water-cycle	••	F. Winter	14373	24 Dec., 1901		16 Oct.
Water-column boiler, Multitubular	••	A. C. Coulsell, H. W. Coulsell, F. F. Coulsell, and L. B. Coulsell	15677	25 Nov	102	11 Dec.*
Water-filter		J. T. N. Anderson	15756	11 Dec	1	
Water-gas, Carburetted	••	H. W. G. Henderson	14654	20 March	83	16 Oct.
Water-gauge for steam-boiler	••	A. B. Masters	15585	31 Oct	94	13 Nov.*
Water-heater	••	D T TI M		30 Dec		5 D.L 1000
Water-heater	••	R. L. H. Murray H. Baux	$15536 \\ 15524$	16 Oct 14 Oct	9 87	5 Feb., 1903. 30 Oct.*
Water motor	••	H. Baux W. W. Gundrie	1 4 4 4 4 4	14 Oct 10 Oct		30 Oct.*
Water pipe, Artesian		J. Free	15701	28 Nov	2	8 Jan., 1903.*
Waterproofing composition	••	G. F. Newman	15634	17 Nov	99	27 Nov.
Water-tube boiler	••	J. Cowan	15569	30 Oct		13 Nov.
Wave-power utiliser	••	C. P. de Lajard	15654	19 Nov	99	27 Nov.
Weeding tool, Lawn Wheel lock, Vehicle		W. Harrison J. R. Jewell and W. H. Jewell	$15714 \\ 14645$	4 Dec 20 March	102	11 Dec.*
Wheel lock, Vehicle Wheel-rim, Tightening	••	J. Winters	14645	20 March 31 Oct	1	8 Jan., 1903. 13 Nov.
Wheel stop, Vehicle		F. Hatton	15720		102	11 Dec.*
			15703		102	11 Dec.*
Wheel-tire cover	••					
Wheel-tire cover	••	F. S. Ornstien	15704		102	11 Dec.*

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ALPHABETICAL LIST OF INVENTIONS-continued.

			pplication.	Gazette.		
Invention.	Name.	No.	Date.	No.	Date.	
White-lead, Manufacture of		15542	23 Oct	87	30 Oct.	
TT7/ 1. T	prietary, Limited	1.00	10.5			
Wick, Lamp	D. Gascoyne	15743	10 Dec	2	8 Jan., 1903.*	
Windmill	J. Bedford and T. F. Longland	14541	20 Feb	102	11 Dec.	
Windmill, Starting and stopping	J. M. Phillips	15551	25 Oct	87	30 Oct.	
Window-cord, Renewing	A. Smith and R. Ewing	15499	10 Oct	::		
Window-curtain, Supporting	V. H. L. Wood	15636	17 Nov	99	27 Nov.*	
Window for ventilating	T. Roberts	15546	21 Oct	87	30 Oct.*	
Window-lock	J. H. S. Brown	15696	25 Nov	102	11 Dec.	
Window-sash, &c	J. Мовя	15821	30 Dec	6	23 Jan., 1903.	
Window-sash fastener	R. F. Smith	15027	19 June	78	2 Oct.	
Window-sash, Sustaining and fastening	J. A. Belk	13968	4 Sept., 1901		11 Dec.	
Window-sashes, Securing cords to	J. Armstrong	15449	26 Sept	99	27 Nov.*	
Wire coiler, Plain and barb	E. J. Church	15463	1 Oct	83	16 Oct.*	
Wire-fence dropper	T. D. Cummins and W. T. Nuttall	15755	13 Dec	2	8 Jan., 1903.	
Wire fencing, Securing dropper to	J. Harris	15557	27 Oct	94	13 Nov.*	
Wire-joining	D. Harris	15620	12 Nov	99	27 Nov.	
Wire-strainer	A. Sutherland	14569	28 Feb	102	11 Dec.	
Wire-strainer	C. A. Bergersen	15406	16 Sept	99	27 Nov.	
Wire-tightening appliance	C. E. Hayward, jun	15590	3 Nov	94	13 Nov.*	
Wire-track cash, &c., carrier	Lamson Store service Company,	15574	30 Oct	94	13 Nov.	
····· , ·· , ·· , ·· , ·· , ·· , ··	Limited					
Wireless telegraphy, Receiver for	G. Marconi and Marconi's Wire-	15689	3 May	102	11 Dec.	
······································	less Telegraph Compay, Limited					
Wool. (See Shearing wool.)]			
Wool-scouring machinery	F. L. Whitney	15490	9 Oct	87	30 Oct.*	
Wool-washing	A. Weaver	15519	14 Oct	87	30 Oct.*	
Wool-washing and saving wool-grease	J. H. Gardiner	15803	22 Dec	2	8 Jan., 1903.*	
Wringer. (See Clothes-wringer.)		20000		-		
Zinc, Process for obtaining	E. H. Hopkins	15728	5 June	2	8 Jan., 1903.	
Zinc-sulphide from their ore, Extracting	E. S. Baldwin and H. H. Rayward	15687	27 Nov	102	11 Dec.	
• •			00.37	102	11 Dec.*	
Zinc-sulphide, Extracting	E.S. Baldwin and H.H. Rayward	15681	26 Nov.	2	8 Jan., 1903.	

List of Applicants for Registration of Designs.

A LPHABETICAL list of applicants for registration of designs during quarter ending 31st December, 1902.

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· · · · · · · · · · · · · · · · · · ·			Design.		Gazette.
Name and Address.	No. of Class.	No.	Date.	No.	Date.
Iceberg Butter-box Syndicate, Limited, Welling- ton, Eng.	3	171	16 October .		30 October.
Lever Bros., Limited, Balmain, N.S.W Spreckley and Co., Auckland, N.Z	3 5	172 164–169	18 December . 9 October .	97	23 January, 1903. 30 October.

List of Applicants for Registration of Trade Marks.

A LPHABETICAL list of applicants for registration of trade marks for quarter ending 31st December, 1902 (including also applications lodged prior to but gazetted during such quarter).

Name.	Address.	Class.	A]	pplication.	_	Gazette.
			No.	Date.	No.	Date.
Alaska Packers' Association	San Francisco, Cal	42	3968	16 Oct		
Alaska Packers' Association	San Francisco, Cal.	42	3969	16 Oct	1	
Alaska Packers' Association	San Francisco, Cal.	42	3970	16 Oct		
Alaska Packers' Association	San Francisco, Cal	42	3971	16 Oct		
Alaska Packers' Association		42	3972	16 Oct		
Alaska Packers' Association	37 13 37 77	42	3973	16 Oct		
llen, M	Mosgiel, N.Z.	2	4029	17 Dec		8 Jan., 1903
Imerican Tobacco Company Imerican Tobacco Company		45	3997	13 Nov	1 0	8 Jan., 1903
American Tobacco Company	117 1 17 17	$45 \\ 42$	3998	13 Nov		8 Jan., 1903.
Aulsebrook and Co.		42	3993 3979	11 Nov 22 Oct		13 Nov.
Australian Explosives and Chemical Company	Melbourne, Vic.	2	3995	22 Oct 13 Nov		15 Nov. 27 Nov.
Australian Explosives and Chemical Company	Melbourne, Vic	20	3996	13 Nov	99	27 Nov.
Bartram and Son, J		42	3982	27 Oct		27 Nov.
Beath, Schiess, and Co	Th 11 1/1 1/1	38	3950	25 Sept	87	30 Oct.
Seatty, J		42	4016	28 Nov	102	11 Dec.
Bennett, E. W		50	3984		102	11 Dec.
Black, I. (See I. Tchernegovski.)		20	3990		102	11 Dec.
lackmore, F		44	3985	1 10 0	102	11 Dec.
rothwood, H. S.	D 1 3 0 111	50 3	4033	18 Dec		8 Jan., 1903.
rown, Barrett, and Co. (See J. McK. Geddes.)	Petersham, N.S.W.	э	4020	4 Dec	102	11 Dec.
ameron and Co., R. W		42	4050	30 Dec	2	8 Jan., 1903.
holmondeley and Bosanquet holmondeley and Bosanquet		43	3687	26 Feb		27 Nov.
	3 3 3 3 3 7 7 7	43	3688	26 Feb	99	27 Nov. ·
lark and Sons, Limited	4 11 1 1 1 1	38	$4034 \\ 4035$	19 Dec 19 Dec		••
larke and Co., I. P.		23	4035	00.17		••
lements, F. M.	Petersham, N.S.W.	45 3	3966	14 Oct	102	11 Dec.
lipper Pneumatic Tire Company, Li- mited	Coventry, Eng	2	4030	17 Dec		
unningham, W	Auckland, N.Z	3	4018	2 Dec		
awson, W	Auckland, N.Z.	2	3959	4 Oct	87	30 Oct.
awson, W	Auckland, N.Z.	3	3960	4 Oct	87	30 Oct.
awson, W		3	3961	4 Oct	87	30 Oct.
awson, W	Auckland, N.Z	3	3962	4 Oct	87	30 Oct.
bickenson and Co. (See F. Wolfgang.)	Mangapuaka, N.Z.	42	3986	30 Oct	102	11 Dec.
erguson and Co., J	Glasgow and Melbourne	43	4023	5 Dec	102	11 Dec.
orce Food Company	Buffalo, U.S.A	42	3975	16 Oct	87	30 Oct.
eddes, J. McK	Auckland, N.Z.	42	4017		102	11 Dec.
ill, P.	Wellington, N.Z.	3	4044	30 Dec		••
olden Bay Co-operative Dairy Factory Company, Limited oodley, H.	Takaka, Nelson, N.Z	42	4001	20 Nov	99	27 Nov.
reening and Sons, Limited, N.	Tologa Bay, N.Z Warrington, Eng	$\frac{3}{13}$	3734 .	1 April	94	13 Nov.
riffiths Bros. and Co	London, Eng.	13	$4032 \\ 4048, 9$	18 Dec 30 Dec	$\frac{2}{2}$	8 Jan., 1903. 8 Jan., 1903.
artman, S. B	Columbus, U.S.A.	3	4039	24 Dec	2	8 Jan., 1903.
ean, G. W ertzberg and Co., A. M	Wanganui, N.Z.	3	3989	6 Nov	94	13 Nov.
offnung and Co. (1902), Limited, S	Brisbane, Queensland	3	4004	22 Nov	99	27 Nov.
oldenson, P. J., and another	London and Sydney Melbourne, Vic	8 42	4036, 7 4024	19 Dec 11 Dec	•••	••
eberg Butter box Syndicate gley, J., and another	Wellington, Eng Waipataki, N.Z	50 42	3976 3956	16 Oct 2 Oct	94 83	13 Nov. 16 Oct.
empthorne, Prosser, and Co.'s New	Christchurch, Welling-	3	4043	29 Dec	2	8 Jan., 1903.
Zealand Drug Company, Limited	ton, Dunedin, Auck- land, N.Z.	5	1010		4	о vau., 1903.
eman, A	Auckland, N.Z.	50	4038	23 Dec		
ver Bros., Limited	Balmain, N.S.W.	47, 8	4012, 3	27 Nov	102	11 Dec.
Ton Duog Timitad	Balmain, N.S.W.	47	4014			11 Dec.
ghtband, C. D	Balmain, N.S.W Christchurch, N.Z	47 	4015 4022	27 Nov 4 Dec	102	11 Dec.
ori Remedies Company. (See W. Dawson.)						
arriner and Co. Dougall, R. E. (See Aulsebrook and Co.)	Christchurch, N.Z	50	3958	3 Oct	83	16 Oct.
eadows, F. N. R	Wellington, N.Z	42	3994	13 Nov	99	27 Nov.

ALPHABETICAL LIST OF APPLICANTS FOR REGISTRATION OF TRADE MARKS-continued.

·			App	lication.		Gazette.
Name.	Address.	Class.	No.	Date.	No.	Date.
Nother and Co. T	Wellington, N.Z.	47	3991	8 Nov	94	13 Nov.
Nathan and Co., J	Wellington, N.Z	50	3992	8 Nov	94	13 Nov.
Nathan and Co., J		42	3981	24 Oct	87	30 Oct.
Neill and Co., Limited	Dunedin, N.Z.	42	3999	14 Nov		
Nelson Bros., Limited	Tomoana, Hawke's Bay, N.Z.	44	0000	14 1100		••
Nelson Bros., Limited	Tomoana, Hawke's Bay, N.Z.	42	4000	14 Nov	••	••
Nelson Bros., Limited	Tomoana, Hawke's Bay, N.Z.	42	4007, 8	26 Nov	102	11 Dec.
Nield, D	Wellington, N.Z.	50	3980	24 Oct		
	Melbourne, Vic.	42	4024			
		-3	3957	3 Oct	87	30 Oct.
Norton and Co., J. T	Lyttelton, N.Z	. 0	0001	0.000	0,	
Dakes and Co.	Madras and London	45	3987	30 Oet	••	• •
Pacific Polish and Compound Company, Incorporated	San Francisco, Cal	50	4031	17 Dec	2	8 Jan., 190
Paris Medicine Company	St. Louis and London	3	4045, 6			
	St. Louis and London	3	4047	30 Dec	2	8 Jan., 190
	Waipatiki, N.Z.	42	3956	2 Oct	83	16 Oct.
		15	4009	26 Nov	102	11 Dec.
Pilkington Bros., Limited		43	4027	17 Dec	2	8 Jan., 190
Porter and Co., Limited, R	London, Eng.	2	4025, 6	11 Dec	2	8 Jan., 190
Preservaline Manufacturing Company, The	New York, U.S.A	. 2	4020, 0	11 Dec	4	0 s an., 150
Reid and Reid	Wellington, N.Z	47	3988	1 Nov	94	13 Nov.
Rich and Co., E	Sydney, N.S.W.	42	3610	28 Nov., 1901	94	13 Nov.
	T 1 77	45	3983	27 Oct	87	30 Oct.
Salmon and Gluckstein	London, Eng.		4042	· ·	2	8 Jan., 190
Sandow's Grip Dumb-bell Company	London, Eng	49				16 Oct.
Sargoud, Son, and Ewen	New Zealand	38	3967	14 Oct	83	
Sefton Mutual Dairy Produce Associa- tion, Limited	Sefton, N.Z.	42	4006	26 Nov	102	11 Dec.
	Wellington, N.Z.	50	3978	21 Oct	87	30 Oct.
	Tologa Bay, N.Z.	3	3734	1 April	94	13 Nov.
Smith, C. E	1010ga Day, N.2.	, v	0.01		0-	
and H. Goodley.)		ļ			1	
Stratford Farmers' Co-operative Asso-	Stratford, N.Z.	42	3955	1 Oct	83	16 Oct.
	Strautoru, 14.22.	14				
ciation, Limited	A manual NT IZ	3	4021	4 Dec	102	11 Dec.
Subritzky, J. A	Awanui, N.Z.		4021	1 00 37		
Sykes, A. E	New Plymouth, N.Z	3	4000	22 Nov	•••	••
Tchernegovski, I	Wellington, N.Z.	43	4028	17 Dec	2	8 Jan., 190
	Sydney, N.S.W.	43	4011	27 Nov		
	Auckland, N.Z.	42	3965	14 Oct	83	16 Oct.
		42	3937	16 Sept	87	30 Oct.
Turnbull and Co., W. and G		42	3938	16 Sept		
Turnbull and Co., W. and G	Wellington, N.Z Wellington, N.Z	42	3939	16 Sept	87	30 Oct.
Turnbull and Co., W. and G	Wellington, N.Z.	12		-		
Union Oil, Soap, and Candle Company, Limited	Auckland, N.Z.		4003	21 Nov	••	
United Farmers' Co-operative Associa- tion, Limited		42	4051	30 Dec		
United States Rubber Company	London, Eng	38	3974	16 Oct	87	30 Oct.
Vacuum Oil Company	Rochester, U.S.A.	47	3964	10 Oct	83	16 Oct.
Vickery and Sons, J. S	Ballarat East, Vic.	3	3489	12 Aug., 1901	87	30 Oct.
Waldberg and Co	Berlin, Germany	8	4040, 1	24 Dec		
		18	4018	2 Dec	102	11 Dec.
Welsbach Light Company of Austra-	London, Eng.	10			1	
lasia, Limited, The	Com N 7	3	3963	9 Oct	83	16 Oct.
Wharton, G. E	Gore, N.Z.	42	3953	29 Sept	102	11 Dec.
		4.7	1 0000		1.04	
Whittome, Stevenson, and Co Wolfgang, F	Auckland, N.Z.	42	3977	16 Oct	87	30 Oct.

By Authority: JOHN MACKAY, Government Printer Weilington.

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