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appear in Gazettes Nos. 34, of the 1st May, and 75, of the 18th September, 1902.

Notice of Acceptance of Complete Specifications.

Patent Office Wellington, 26th November, 1902. OMPLETE specifications relating to the undermen-tioned applications for Letters Patent have been accepted, and are open to public inspection at this office. Any person may, at any time within two months from the date of this *Gazette*, give me notice in writing of opposition to the grant of any such patent. Such notice must set forth the particular grounds of objection, and be in duplicate. A fee of 10s. is payable thereon.

No. 14409.—10th January, 1902.—Frank Marisco, of Invercargill, New Zealand, Dealer. Improvements in gold-dredging appliances.*

Claims.—(1.) In combination, a centrifugal pump provided with suction-pipe and a delivery-pipe, a branch suction-pipe, a release branch pipe leading from said pump into said first named suction-pipe, means for closing said first named suction-pipe and delivery-pipe in unison and

simultaneously therewith opening said branch suction-pipe and release branch pipe in unison, and means for operating said centrifugal pump, substantially as and for the purposes set forth. (2.) In combination, a centrifugal pump provided with suction and delivery pipes, a branch suction-pipe, a release branch pipe leading from the said pump into said first-named suction-pipe, a valve adapted to close alternately said branch suction-pipe and said first-named suction-pipe, a second valve adapted to close alternately said delivery-pipe and said release branch pipe, and means for operating said valves in unison, substantially as and for the purposes set forth. (3.) The general construction, arrangement, and combination of parts composing my improvements in gold-dredging appliances, all substantially as and for the purposes described with reference to the drawings. (Specification, 3s. 6d.; drawings, 1s.) simultaneously therewith opening said branch suction-pipe

No. 14507.—8th February, 1902.—RICHARD WILLIAM PEARSE, of Upper Waitchi, New Zealand, Farmer. Improvements in and connected with bicycles.*

Claims.—(1.) In driving-mechanism for bicycles, a disc rigidly mounted upon the driving-wheel of the machine, pawls upon the disc, and a pair of ratchet wheels having inside teeth that engage the pawls, for the purposes specified. (2.) In driving-mechanism for bicycles, a disc rigidly mounted upon the driving-wheel of the machine, pawls upon the disc, a pair of ratchet wheels having inside teeth with a forward set that engage the pawls, and connections between the ratchet wheels and bell-crank levers, as described, and operating as specified. (3.) In driving-mechanism for bicycles, a pair of ratchet wheels, one on either side of and gearing with a disc on the rear wheel's hub through pawls on the disc, a pair of circumferential channels upon each ratchet accommodating connections from the bell-crank levers actuated from the pedals as described, and for the purposes specified. (4.) In driving-mechanism for bicycles, in combination, a disc rigidly mounted upon the driving-wheel of the machine, pawls upon the disc, ratchet wheels on either side of and gearing with the disc through the pawls, circumferential channels upon each ratchet wheel and connections between the ratchets, and a pair of bell-crank levers mounted in the driving-bracket of the machine, so arranged that when a lever is depressed one ratchet will be forwardly Claims.—(1.) In driving-mechanism for bicycles, a disc

revolved while the other is revolved reversely, whereby the levers are interdependent, substantially as described. (5.) The combination with an air-pump upon the rim of a bicyclewheel of an eccentric loosely held upon the wheel-axle, conwheel of an eccentric loosely held upon the wheel-axis, connected with the pump through a connecting-rod and strap, a stud upon the eccentric, and a rod that is adapted to engage said stud at will of the rider, as and for the purposes specified. (6.) The combination with bell-crank levers of slots for the reception of sockets attaching the forward ends of the connections for imparting motion to the ratchet wheels upon the driving-wheel of a bicycle, said slots being provided with teath or corrections internally as shown and wheels upon the driving-wheel of a bicycle, said slots being provided with teeth or serrations internally, as shown, and for the purposes set forth. (7.) The combination with tappet-levers upon the bell-crank levers, of a horizontal spindle, a collar upon one end of the spindle and a brake upon the other, and a spring around the spindle impinging against a bracket supporting it, substantially as and for the purposes set forth. (8.) The general arrangement, construction, and combination of parts comprising my improvements in and connected with bicycles, substantially as described and illustrated, and for the several purposes set forth. (Specification 7s drawings 1s.)

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

No. 14512.—11th February, 1902.—ARTHUR WILLIAM MEMORY, of Bidwell Street, Wellington, New Zealand, Salesman, and Frederick George Hind, of Hall Street, Wellington aforesaid, Foreman. Improvements in the means for adjusting and supporting the ends of settees, couch-heads, box-ottoman scrolls, backs of chairs, operating-tables, and other articles.*

Claims.—(1.) A movement or fitting for adjusting and supporting the ends of settees, couch-heads, box-ottoman supporting the ends of settees, couch-heads, box-ottoman scrolls, operating-tables, and other articles, consisting of a ratchet supported on a standard, as described, and illustrated by drawings. (2.) A movement or fitting for adjusting and supporting the ends of settees, couch-heads, box-ottoman scrolls, operating-tables, and other articles, consisting of a ratchet supported on a standard and released by a lever, as described, and illustrated by drawings. (3.) A movement or fitting for adjusting and supporting the ends of settees, couch-heads, box-ottoman scrolls, operating-tables, and other articles, consisting of twin ratchets, supported by two standards, connected by a rod with lever attached, held in position by a steel coil spring, as described, and illustrated by drawings.

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

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

No. 14515.—12th February, 1902.—WILLIAM ROBERT KEANE, Blacksmith, and BAIN HOGG, Assayer, both of Whangamata, New Zealand. An improved machine for stirring or agitating auriferous material while undergoing chemical treatment, and for other analogous purposes.

Claims.—(1.) A stirring or agitating frame composed of a number of sets of radial arms placed one above the other, and secured together by means of vertical tie-rods, and attached to a sleeve carried by a central spindle provided with means for revolving it, the radial arms of each set being made of different lengths, but of the same lengths as the corresponding arms of the other sets, in combination with means whereby the sleeve and agitating-frame may be raised means whereby the sleeve and agitating-frame may be raised or lowered whilst revolving, as and for the purposes set forth. (2.) A sleeve mounted upon a central spindle and adapted to be rotated therewith, and agitating-frame attached to such sleeve, screw-rods passing vertically through a flange upon the sleeve, the upper ends of which are provided with pinions and are supported upon bearings secured to the central spindle, in combination with means whereby such pinions and rods may be caused to revolve on their own axes, as and for the purposes set forth. (3.) A sleeve mounted upon a central spindle and adapted to be rotated therewith, an agitating-frame attached to such sleeve, screw-rods passing vertically through a flange upon the sleeve, the upper ends of which are provided with pinions, and are supported upon of which are provided with pinions, and are supported upon bearings secured to the central spindle, a hood-shaped casting loosely mounted upon the spindle provided with teeth on its inner periphery adapted to engage with the pinions on the tops of the screw-rods, and with a downwardly depending loose a pair of pinions mounted upon the bass, one above the tops of the screw-rods, and with a downwardly depending boss, a pair of pinions mounted upon the boss, one above the other, also adapted to engage with the pinions on the screw-rods, the lower of such pinions being secured to the boss, while the upper is loosely mounted thereon, in combination with means whereby the hood may be raised or lowered, as and for the purposes set forth. (4.) The general arrangement, construction, and combination of parts in our improved machine for stirring or agitating auriferous material while undergoing chemical treatment, and for other analogous purposes, are described and explained as illustrated in the purposes, as described and explained, as illustrated in the sheets of drawings, and for the several purposes set forth. (Specification, 5s. 9d.; drawings, 2s.)

No. 14531.—13th February, 1902.—Norman George McKax, of Owen's Road, Epsom, near Auckland, New Zealand, Groom. A tin bottle for drenching horses and other cattle with liquid medicine.*

Claims.—(1.) In a bottle for the purpose described, a neck placed upon one side of the bottle whereby the said neck will, when the bottle is in use, be straight down the animal's will, when the bottle is in use, be straight down the animal's mouth, and the bottle at the side of the same, substantially as and for the purposes set forth. (2) In a bottle for the purpose described, a vent near the bottom of the same, and a valve for opening and closing the said vent to regulate the flow of the drench, substantially as and for the purposes set forth. (3.) A bottle for the purposes described, having a neck upon one side and a vent and spring-operated valve near the bottom, substantially as and for the purposes set forth. (4.) The combination and arrangement of parts comprising my bottle for administering drenches to animals substantially as and for the purposes set forth, and illustrated on the drawing. on the drawing.

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

No. 14556.—24th February, 1902.—HARRY PENNINGTON, Farmer, and Manson Theodore West, Factory-manager, both of Ngaire, Taranaki, New Zealand. Milk-cooler and aerator.

Claims.—(1.) In an improved aerator and milk-cooler, the parts being substantially set forth and illustrated in the drawings. (2.) The plane surface, over which the milk flows, at the back of which is a narrow chamber giving a thin body at the back of which is a narrow chamber giving a thin body of water. (3.) A chamber of narrow proportions stayed as shown in the drawings, as and for the purpose set forth. (4.) An improvement in aerating and cooling milk, in the combination and arrangement of the parts as set forth, and the hanging or suspending by hooks, chains, or wires at any angle as required, as described, and illustrated in the drawings. (5.) The combination and arrangement as set forth and illustrated in the drawings, of a plane surface, a chamber of narrow proportions, stayed as shown, the whole being hung or suspended by hooks, chains, or wires at any angle, as and for the purpose set forth. (Specification, 1s. 6d.; drawings, 1s.)

No. 14590.—1st March, 1902.—John Pomerov, of Invercargill, New Zealand, Fish-curer. Improvements in sheep-shears for regulating the opening of the blades.*

Claims.—(1.) In combination, a pair of pivotally connected links, means at one end for their relative adjustment, and means for attachment of said links to the handles of sheepmeans for attachment of said links to the handles of sheepshears by their other ends, substantially as and for the
purposes set forth. (2.) In combination, a hook-ended
straight link securable to a pin in one handle of a sheepshears, a spring hook-ended curved link adapted to engage
an opposite pin in the other handle, a pivotal connection
between said links, and an adjusting screw stud on the heel
of said straight link, substantially as and for the purposes
set forth. (3.) The general construction, arrangement, and
combination of parts composing my "improvements in
sheep-shears for regulating the opening of the blades," all
substantially as and for the purposes described with reference to the drawings. ference to the drawings.
(Specification, 3s. 3d.; drawings, 1s.)

No. 15152.-23rd July, 1902.-American Amalgamating NO. 15152.—25rd July, 1902.—AMERICAN AMALGAMATING COMPANY, a company organized under the laws of State of Georgia, and having their place of business at 23, Court Street, Boston, Massachusetts, United States of America (assignees of Paul August Knapp, of Grantville, Georgia, United States of America). Method of and apparatus for the amalgamation of metals by the use of free mercury.

Claims.—(1.) In an amalgamator, the combination of a mixing-chamber having a pulp-inlet, means for intermingling the pulp and mercury therein, a settling-chamber having a less restricted space than the mixing-chamber in communication therein. less restricted space than the mixing-chamber in communica-tion therewith and adapted to receive the intermingled pulp and mercury therefrom, means in said settling-chamber for circulating and opening up said intermingled mass, a gangue-outlet therefrom, and a settling-space therein out of the path of travel of the intermingled pulp and mercury. (2.) In an amalgamator, the combination of a mixing-chamber, mixing-means therein, a settling-chamber communicating with said mixing-chamber and having less restricted space than said mixing-chamber, so located as to receive the intermingled substances from said mixing-chamber, freeing-means therein for aiding the free circulation of the particles of pulp, an for aiding the free circulation of the particles of pulp, an outlet for said settling-chamber, said settling-chamber having

a settling-space out of the path of travel of the intermingled pulp and mercury, and means to cause the passage of the pulp under pressure through said mixing-chamber, settling-chamber, and outlet-passage. (3.) In an amalgamator, the combination of a mixing chamber having a pulp-inlet, mixing-means therein, a settling-chamber communicating with said mixing-chamber having a less restricted space than said mixmixing-chamber having a less restricted space than said mixing-chamber, and so located as to receive the intermingled pulp and mercury therefrom, said settling-chamber having a settling-space out of the path of travel of the intermingled pulp and mercury, and means for diluting the intermingled pulp and mercury during its passage through the amalgamator to aid the circulation of the same and the separation of the heavier from the lighter particles. (4.) In an amalgamator, the combination of a mixing-chamber having a pulp-inlet, means for intermingling the pulp and mercury therein, a settling-chamber having a less restricted space than the mixing-chamber in communication therewith, and adapted to receive the intermingled pulp and mercury therefrom. mixing-chamber in communication therewith, and adapted to receive the intermingled pulp and mercury therefrom, means in said settling-chamber for circulating and opening up said intermingled mass, a gangue-outlet therefrom, a settling-space therein out of the path of travel of the intermingled pulp and mercury, and a source of electricity connected with the interiors of said chambers to cause passage of the current through the intermingled pulp and sage of the current through the intermingled pulp and mercury. (5.) An amalgamator, comprising distinct mixing and settling chambers in open communication, mixingmeans in said mixing-chamber, said settling chambers in said mixing-chamber. means in said mixing-chamber, said settling-chamber having less restricted space than said mixing-chamber, and having a settling-space out of the path of travel of the intermingled pulp and mercury, means for causing the pulp to circulate through said chambers under pressure, and means for diluting the pulp in the said chambers under pressure, and means for diluting the said chambers under the said contains the said contai ing the pulp in its passage. (6.) In an amalgamator, a closed amalgamating receptacle having inlet and outlet closed amalgamating receptacle having inlet and outlet passages, and comprising a mixing-chamber with mixing-means therein, and a settling-chamber, of less restricted space than said mixing-chamber, with settling or freeing means therein, and having a settling space out of the path of travel of the intermingled pulp and mercury. (7.) In an amalgamator, an amalgamating-receptacle comprising a substantially horizontal mixing-chamber having mixing-means therein communicating with a substantially horizontal statially horizontal mixing-chamber having mixing-means therein, communicating with a substantially horizontal stationary settling-chamber, of less restricted space than said mixing-chamber, having settling-means therein and a settling-space out of the path of travel of the intermingled pulp and mercury. (8.) An amalgamator comprising a mixing-chamber, a settling-chamber having a less restricted space than said mixing-chamber leading therefrom, and vehicle fluid inlet-passage near the initial end of said settling-chamber, said settling chamber having a settling-space outside the path of travel of the intermingled pulp and mercury. (9.) The described method for amalgamating metals, which consists in producing a pulp, bringing the same into contact with mercury, enforcing and intermingling of the mercury and the pulp, confining the mixed pulp and of the mercury and the pulp, confining the mixed pulp and mercury within a restricted space during such intermingling, thereafter freeing the intermingled pulp and mercury from said restricted space, separating the heavier particles from the lighter by gravitation in a space less restricted for the circulation of the pulp-particles, and preventing further intermingling. (10.) The described method for amalgamatintermingling. (10.) The described method for amargamaving metals, which consists in producing a pulp, filling a space with said pulp and with mercury in the presence of pressure, and enforcing an intermingling of the two, placing and space in communication with a second space, and pressure, and emoting an interminging of the two, placing said filled space in communication with a second space, and permitting the latter to be filled with the intermingled pulp and mercury from the first, also in the presence of pressure, freeing the mixture in said second space from the mixture-enforcing action of the first space, settling the amalgam and mercury in said second space, and carrying off the lighter sand and gangue under the pressure therein. (11.) The described method for amalgamating metals which consists in producing a pulp, bringing the same into contact with mercury, enforcing an intermingling of the mercury and the pulp, confining the mixed pulp and mercury within a restricted space during such intermingling, freeing the intermingled pulp and mercury from said restricted space, diluting the same with liquid, separating the heavier particles from the lighter, with liquid, separating the heavier particles from the lighter, and settling the same by gravitation, and preventing the reintermingling of the settled particles. (12.) The described method for amalgamating metals, which consists in producing a pulp, introducing the same into a space containing mercury, said space being such that a slight movement of the pulp-particles in certain directions results in contact with the mercury, causing such movement of the pulp as to enforce an intermingling of the same with the mercury, passing the mixed pulp and mercury into a space such that the pulp-particles may move with relative freedom without contact with mercury, opening up the material of the mixcontact with mercury, opening up the material of the mix-ture by disturbing the same while in this space, permitting the separation of the heavier particles therefrom by gravita-tion, and preventing further intermingling. (13.) The pro-cess of amalgamating metals which consists in forming a

pulp, bringing the same into contact with mercury, enforcing an intermingling of the mercury and the pulp, confining the mixed pulp and mercury within a restricted space during such intermingling, thereafter freeing the mixed pulp and mercury from said restricted space, separating the heavier particles by gravitation in a less restricted space, and causing the passage of an electric current through the intermingled pulp and mercury. (14.) The described method for amalgamating metals which consists in producing a pulp, passing the same through a confined space containing mercury, enforcing an intermingling of the mercury and the pulp therein, passing the intermingled mercury and pulp through a less restricted space, separating therein the heavier particles from the lighter by gravitation, settling the same out of the path of the moving mass, and preventing further intermingling of the settled particles. (15.) The described method of amalgamating metals which consists in producing a pulp, passing the same through a confined space containing mer-cury, intermingling the mercury and the pulp therein, causing the intermingled mass to travel in a substantially horizontal direction through a less restricted space, opening up the materials thereof during its passage through said less restricted space, and separating the heavier particles from the lighter by gravitation. (16.) The described method for amalgamating metals which consists in producing a pulp, bringing the same into contact with mercury, enforcing an intermingling of the mercury and pulp, confining the mixed intermingling of the mercury and pulp, confining the mixed pulp and mercury within a restricted space during such intermingling, causing the intermingled mass to travel in a substantially horizontal direction through a less restricted space, diluting the same with liquid, separating the heavier particles from the lighter by gravitation, and preventing the reintermingling of the settled particles.

(Specification, 15s.; drawings, 1s.)

No. 15230.—7th August, 1902.—John William Porter, of the Rifle Ranges, Williamstown, Victoria, Ranger. Improved apparatus for operating moving targets.*

Claims.—(1.) Improved apparatus for operating moving targets, comprising a traveller running on rails and carrying targets, comprising a traveller running on rails and carrying a rotatable target adapted to be rotated at irregular intervals through an angle of 90° so as to turn same "edge on" and "face on" alternately, and means for retaining same in either position, substantially as specified and illustrated. (2.) In apparatus for operating moving targets, a traveller running on rails and provided with a rotatable vertical spindle carrying the target, said spindle having a tappet wheel with four radial equidistant projections adapted to strike against pins projecting from or between the rails, substantially as and for the purpose specified and as illustrated. stantially as and for the purposes specified and as illustrated. (3.) In apparatus for operating moving targets, a traveller running on a pair of rails in the same horizontal plane, said traveller having a rotatable pivoted arm or grip attached to an endless travelling wire and a vertical guide for said arm or grip, substantially as specified and as illustrated. (4.) In apparatus substantially as specified and as illustrated. (4.) In apparatus for operating moving targets, a traveller running on a pair of rails in the same horizontal plane, said traveller having on its underside a spring-operated retaining-arm having a notch therein adapted to engage teeth on each of four radial equidistant projections of a tappet wheel, substantially as and for the purposes specified and as illustrated. (5.) In apparatus for operating moving targets, a vertical traveller running on a pair of rails in the same vertical plane, said traveller having a spring-operated pivoted grip for holding the wire, adapted to release said wire on contacting with an inclined check-block, substantially as and for the purposes speciclined check-block, substantially as and for the purposes specified and as illustrated. (6.) In apparatus for operating moving targets, a rotatable rod mounted between a pair of rails, said rod having a plurality of rows of pins thereon, and having a series of cam-faces at each end adapted to engage fingers on each end of a traveller so as to partially revolve said rod on each run of the traveller, substantially as and for the purposes specified and as illustrated. (7.) In apparatus for operating moving targets, a modification of the mechanism set forth in the last-preceding claim wherein the travelle has a curved cam-guide at each end adapted to engage radia arms on the rotatable rod, substantially as and for the purposes specified, and as illustrated in Fig. 5. (Specification, 6s.; drawings, 1s.) clined check-block, substantially as and for the purposes speci-

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

No. 15406.—16th September, 1902.—Carl August Bergersen, of Broad Street, Palmerston North, New Zealand, Gunsmith. A wire-strainer.

Description of Invention .-- My invention is to provide an apparatus for use in straining wire, especially fencing-wire. It consists of a frame marked A as per drawing, and of the several parts described: B, a saw-edged eccentric grip; C and D, saw-edged eccentric spring grips; E, the stand on three claw feet; F, fulcrum lever; G, connecting-rod between lever

and travelling spring grip D, of which J is a slide clasped around part of the frame, partly duplicated on drawing marked A; K is a handle with hammer attached, also used to lengthen lever F; H is an anchor used to secure the apparatus with when straining on the side of a post or supportit is also used as a staple-extractor and for wire-knotting; I is a wire-cutter; L is a staple on the frame to attach the anchor to by means of a piece of wire anchor to by means of a piece of wire.

Claim.—The wire-strainer substantially as described, and

illustrated in the drawing.
(Specification, 1s. 3d.; drawings, 1s.)

No. 15601.—5th November, 1902.—The Hon. Charles Algernon Parsons, of Heaton Works, Newcastle-on-Tyne, Northumberland, England, Engineer. Improvements in condensers working in conjunction with air-pumps.

-(1.) The use of an ejector or jet pump, operated by steam, in conjunction with a vacuum pump, in order to intensify the vacuum produced by the vacuum pump. (2.) In the evacuation of vessels, the employment of a steam-operated ejector or jet pump in conjunction with a vacuum pump, the ejector being situated in the passage which connects the airpump with the vessel to be evacuated, whereby the vacuum produced by the vacuum pump is intensified. (3.) Intensifying the vacuum produced in a condenser by the air or vapour pump by means of a steam-operated ejector or jet pump working in conjunction with the air-pump, the ejector being situated in the passage which connects the air-pump with the condenser, substantially as described. (4.) In the system of intensifying the vacuum in a condenser claimed in claim 3, the employment of an auxiliary condenser between the ejector and the air-pump, for the purpose described. (5.) Condenser plant employing an ejector or jet pump operating in conjunction with the vacuum pump in order to intensify the vacuum, consisting of a condenser having one of its ends lower than the other, the lower end being on a higher level than the vacuum pump with which it is conhigher level than the vacuum pump with which it is connected, whereby the water of condensation flows by gravity into this pump, the other end of the condenser being connected with the vacuum pump by way of the steam-operated jet pump, whereby the work of the jet pump is limited to the ejection of air and vapour from the condenser to the vacuum pump, substantially as described. (6.) The improved condenser plant described with reference to Figs. 5 and 6 of the drawings. (7.) A vacuum-intensifier operating in conjunction with a vacuum pump and comprising an ejector-box into which the gases and vapours from the vessel to be evacuated are drawn on their way to the vacuum pump. to be evacuated are drawn on their way to the vacuum pump, the box having within it one or more steam-jets directed the box having within it one or more steam-jets directed towards the centre of a discharge-passage leading to the pump, whereby the gases and vapours are assisted in their progress from the vessel to the vacuum pump and the vacuum in the vessel is intensified, substantially as described.

(8.) The steam-operated intensifier, as and for the purposes described with reference to Figs. 1 to 4 of the drawings. described with reference to Figs. 1 to 4 or the drawings. (9.) In the system of vacuum-intensifying claimed in claim 1, adjustable steam-jets, as described with reference to Figs. 7 and 8 of the drawings. (10.) In the system of vacuum-intensifying claimed in claim 1, a vacuum-intensifier consisting of a suction-box containing a s-eam-chest provided with a nozzle concentric with the discharge-pipe, the chest having within it a tubular plug for regulating the amount of opening of the steam-jet, the discharge of air or vapour being effected through the tubular plug alone or through the plug and an appular sace between the pozzle and the discharge. and an annular space between the nozzle and the discharge-pipe, substantially as described. (11.) In the system of vacuum-intensifying claimed in claim 1, adjustable steam-jets, as described with reference to Figs. 11 and 12 of the draw-

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

No. 15603.—5th November, 1902.—THE AMERICAN TO-BACCO COMPANY, a corporation organized and existing under the laws of the State of New Jersey, having their place of business at No. 111, Fifth Avenue, New York, United States of America (assignees of Jakob Wojciechowski, of Warsaw, Russia, Technical Engineer). Improvements in cirarette-machines. cigarette-machines.

-(1.) The combination with a shaping mechanism. Claims.—(1.) The combination with a shaping mechanism, of a disintegrating-mechanism and an intermittently operating conveyer such as a belt or its equivalent upon which the tobacco falls from the disintegrating-mechanism and by which it is transferred to the shaping-mechanism. (2.) The combination with a set of pickers, of a shaping-mechanism, means for operating the pickers, and an intermittently operated conveyer for transferring the tobacco from the pickers to the shaping-mechanism. (3.) The combination with a shaping-mechanism, of a set of reciprocating pickers, and means for conveying tobacco from the pickers to the

shaping-mechanism. (4.) The combination with a set of reciprocating pickers, of means for feeding tobacco thereto, a hopper, means for giving the sides of the hopper a to-and-fro movement, and a conveyer. (5.) The combination with a set of reciprocating pickers, of means for feeding tobacco thereto, a hopper, a channel, means for giving the sides of the hopper a to-and-fro movement, an intermittently operated conveyer forming the bottom of the channel, and a shaping-mechanism. (6.) The c mbination with a set of reciprocating bars, of sets of pickers mounted thereon, means for feeding tobacco to the pickers, a hopper, means for giving the walls of the hopper a to-and-fro movement, an intermittently operated conveying belt to which the hopper delivers, and a shaping-mechanism. (7.) The combination with a pair of bars, of brackets carried thereby, a plurality of sets of pickers supported by the brackets, a hopper, means for giving the walls of the hopper a to and-fro movement, and a conveyer to which the hopper at o and fro movement, and a conveyer to which the hopper delivers. (8.) The combination with a set of reciprocating pickers, of a belt operating to deliver tobacco thereto, means for giving the belt a comparatively slow movement, a hopper through which the tobacco falls from the pickers, a conveying belt which receives the tobacco from the hopper and means for giving the conveying-belt a comparatively rapid movement. (9.) The combination with a set of reciprocating pickers, of a belt operating to deliver tobacco thereto, means for giving the belt a comparatively slow movement, a hopper through which the tobacco falls from the pickers, a conveying-belt which receives the tobacco from the hopper, means for giving the conveying-belt a comparatively rapid intermittent movement, and a shaping-mechanism to which the belt delivers. (10.) The combination with a shaper-case, of a shaper working therein, an intermittently operated conveyer to which the tobacco is introduced into the shaper, and a knife working close to the side of the shaper-case.

(11.) The combination with a shaper case, of a shaper working therein, an intermittently operated conveyer, an inlet through which the tobacco is forced by the conveyer into the shaper-case, and a knife working between the inlet and the shaper-case. (12.) The combination with a shaper-case, of means for adjusting its size to vary its capacity, a shaper working therein, means for varying the throw of the shaper, working therein, means for varying the throw of the shaper, an intermittently operated conveyer, an inlet through which the tobacco is forced by the conveyer into the shaper-case, means for adjusting the size of the inlet, and a knife working between the inlet and the shaper case. (13.) The combination with a shaper-case having adjustable ends, of a shaper reciprocating therein, means for a justing the throw of the shaper, a pair of overlapping plates forming an inlet, means for adjusting the position of the plates to vary the size of the inlet, a knife working between the inlet and the shaper-case, and an intermittently operated conveyer. (14.) The combination with a shaper-case having movable ends, of means, as set-screws, for determining the position of the ends, a pair of side plates provided with overlapping projecting plates which form an inlet to the case, means including set-screws for adjusting the position of the side plates, and screws for adjusting the position of the side plates, and set-screws for adjusting the position of the side plates, and through them the overlapping plates to vary the size of the inlet, a reciprocating shaper, means for varying the throw of the shaper, a knife working between the inlet and the shapercase, and an intermittently operated conveyer delivering to the inlet. (15.) The combination with a shaper-case having adjustable ends, of a shaper working therein, means including an adjustable cam for reciprocating the shaper, and means for introducing tobacco into the shaper. (16.) The combination with a shaper-case having adjustable ends, of a shaper a knife working close to the shaper-case, and an incombination with a snaper-case having adjustable ends, of a shaper, a knife working close to the shaper-case, and an intermittently operated conveyer for introducing tobacco into the case. (17.) The combination with a shaper-case of means for varying its size to vary its capacity, a shaper, means including an adjustable cam for operating the shaper, a pair of removable nozzles through which the shaped tobacco is delivered, a pair of alternately operating reciprocating rammers, a knife working close to the shaper-case, and an intermita knife working close to the shaper-case, and an intermit-tently operated conveyer. (18.) The combination with a shaper-case of means for varying its size to vary its capacity, a shaper, means including an adjustable cam for operating the shaper a pair of removable nozzles through which the shaped tobacco is delivered, a pair of alternately operating reciprocating rammers, an adjustable inlet, a knife working between the in et and the shaper-case, and an intermittently operated conveyer. (19.) The combination with a shaper-case of a shaper working therein, means for delivering tobacco thereto, a pair of nozzles, means for supplying tubes to the nozzles, clamping-means for holding the tubes thereon, means for forcing the shaped tobacco from the shaper-case through the nozzles into the tubes, and a pair of strikers for removing the filled tubes from the nozzles (20.) The combination with a shaper-case of a shaper, a lever and cam for operating the shaper, a pair of nozzles through which the shaped tobacco is delivered, means for supplying tubes to the nozzles, a clamping-device operated by the shaper-operating lever, means for forcing the shaped tobacco through the nozzles

into the tubes, and a pair of strikers for removing the filled | tubes from the nozzles. (21.) The combination with a shapercase, an intermittently operated conveyer for delivering tobacco thereto, a knife working close to the side of the shapercase, a shaper, means including a lever for operating the shaper, a pair of nozzles to which the shaped tobacco is delishaper, a pair of nozzles to which the shaped tobacco is delivered, means for supplying tubes to the nozzles, a clamping-device opera ed by the shaper-operating lever, a pair of rammers for forcing the tobacco through the nozzles, and a pair of strikers for removing the tubes from the nozzles. (22.) The combination with a shaper-case of a shaper working therein, a pair of nozzles to which the case delivers, a pair of rammers for forcing the tobacco through the nozzles, and means operated from the rammer-operating mechanism for supplyoperated from the rammer-operating mechanism for supplying tubes to the nozzles. (23.) The combination with a shaper case of a shaper working therein, a pair of nozzles, a pair of alternately operating rammers, a hopper provided with two delivery-ch nnels, and means operated from the rammer-operating mechanism for alternately carrying tubes from said outlets to the nozzles. (24.) The combination with a hopper for cigarette-tubes having a delivery-channel down which the tubes fall, said channel being wide enough to hold which the tubes fall, said channel being wide enough to hold a single vertical row of tubes, of a bar having surfaces at different levels, a cut-off operating to separate the lower tube from the row and to support the row, said cut-off being operated when the higher surface of the bar is beneath the channel, means for transferring the tube from the higher surface to the lower surface of the bar, filling-devices, and means for operating the bar to transfer the tube thereon from the hopper to the filling-devices. (25.) The combination with a hopper, of a reciprocating plate one of the ends of which extends into the hopper, a wall forming with said plate a channel which is wide enough to hold a single vertical row of tubes, a bar having surfaces at different levels, a cut-off operating to separate the lower tube from the row and to support the row, said cut-off being operated when the higher surface of the bar is beneath the channel, means for transferring the tube from the higher surface to the lower surface of the bar, fil ing-devices, and means for operating the bar to transfer the tube thereon from the hopper to the filling-devices. (26.) The combination with a hopper, of a pair of reciprocating plates one end of each of said plates working in the hopper, a pair of walls, said walls co-operating with the plates to form channels wide enough to hold a single vertical row of tubes, a pair of bars having surfaces of different levels a wair of bars having surfaces. single vertical row of tubes, of a bar having surfaces at hold a single vertical row of tubes, a pair of bars having surfaces at different levels, a pair of cut-offs operating to separate the lower tube from each row and to support the rows, said cut-offs coming into operation when the higher surfac of the bar is beneath the channel, means for transferring the tubes from the higher surface to the lower surface of each bar, filling-devices, and means for alternately reciprocating the bars from the hopper to the filling-devices. (27.) The combination with a hopper, of a pair of reciprocating plates, one end of each of said plates working in the hopper. a pair of walls, said walls co-operating with the plates to form channels wide enough to hold a single vertical row of tubes. a pair of bars having surfaces at different levels, a pair of movable frames having projections which enter the charnels and form cut-offs, means carried by the bars for operating the frames to withdraw the cut-off projections when the higher surface of the bar is under the channel, thus allowing the row of tubes to drop, means for operating the frames to cause the cut-off projections to enter the channels and to separate the cut-off projections to enter the channels and to separate the remaining tubes of the row from the lower one, means for transferring the tubes from the higher surface to the lower surface of each bar, filling-devices, and means for alternately reciprocating the bars from the hopper to the filling-devices. (28.) The combination with a shaper-cas, of a shaper, means including a lever for operating the shaper, delivery nozzles attached to the shaper-case, a pair of rammers, a pair of bars having surfaces at different levels, connections between each bar and the corresponding rammer, a hopper having two naving surfaces at different levels, connections between each bar and the corresponding rammer, a hopper having two delivery-channels beneath which the bars reciprocate, cut-off mechanisms operated by the bar, an agita ing-mechanism, and means for operating the rammers. (29.) The combination with a shaper-case, of a shaper, means including a lever for operating the shaper, delivery-nozzles attached to the shaper-case, a pair of rammers, a pair of here having our for operating the shaper, delivery-nozzles attached to the shaper-case, a pair of rammers, a pair of bars having surfaces at different levels, connections between each bar and the corresponding rammer, a hopper having two delivery-channels beneath which the bars reciprocate, cut-off mechanisms operated by the bar, an agitating-mechanism operated by the shaper-lever, means for operating rammers, and a tube-clamp. (30.) The combination with a shaper-case, of a shaper means including a layer for operating the chaper shaper, means including a lever for opera ing the shaper, delivery-nozzles attached to the shaper-case, a pair of rammers, a pair of bars having surfaces at different levels, connections between each bar and the corresponding rammer, a hopper having two delivery channels beneath which the bars reciprocate, cut-off mechanism operated by the bar, an agitat-ing-mechanism operated by the shaper-lever, means for operat-ing the rammer, a tube-clamp thrown into operation by the shaper-lever, and a pair of strikers for removing the filled

tubes from the nozzles. (31.) The combination with cigarette-forwarding devices, of a rotating cigarette-carrier provided with pockets, a knife operating with the carrier, and a straightening device which operates on the cigarettes before they are delivered to the carrier. (32.) The combination with cigarette-forwarding devices, of a rotating carrier having pockets for the cigarettes, a knife co-operating with the carrier, and a rotating hub provided with blades which operates to straighten the cigarettes before they are delivered to the carrier. (32.) The combination with cigarette-carrying tapes, of a rotating straigh ening-device having projections operating to lift the cigarettes from the tapes, whereby they become straightened. (34.) The combination with cigarette carrying tapes, of a rotating lifting-device provided with blades or their equivalents which operate to lift the cigarettes from the tapes. (35.) The combination with cigarette-carrying tapes, of a straightening device provided with lifting projections, straigatening device which operates on the cigarettes before straightening device provided with lifting proj said device working between the tapes and of to 1 ft the cigarettes therefrom and deliver projections, operating to Ift the cigarettes therefrom and deliver them thereto after the cigarette, are straightened. (36.) The combination with cigarette carrying tapes of a rotating straightening device provided with lifting projections, said device being located between the tapes, a carrier also rotating between the tapes, and a cutter cooperating with the carrier. (37.) The combination with a pair of carrying tapes of means for evening the cigarettes on the tapes, a straightening device, and cutting-devices. (38.) The combination with cigarette-carrying tapes, of means for the evening the cigarettes on the tapes, a straightening-device, a carrier, a cigarette-shifting mechanism operating in connecevening the eigarette-shifting mechanism operating in connection with the carrier, and a cutter. (39.) The combination with cigarette-carrying tapes, of means for evening the cigarettes on the tapes, a straightening-device, a rotating carrier, a cigarette-shifting mechanism operating in connection. carrier, a cigarette-shifting mechanism operating in connection with the carrier, and a rotating cutter. (40.) The combination with a belt having forwarding projections, of tapes overlying the same, a rotating straightening-device having lifting-projections, a rotating carrier provided with pockets, means for retaining the eigarettes in the pockets, a shifting mechanism co-operating with the carrier, and a cutter. (41.) The combination with a belt having forwarding-projections, of carrying-tapes overlying the belt, a pusher operating to even the cigarettes, a straightening-device consisting of a rotating hub having lifting-projections located between the tapes, and a cutting-mechanism. (42.) The combination with a belt having forwarding-projections, of carrying-tapes overlying the belt, a pusher operating to even the cigarettes, a straightening-device consisting of a rotating hub having lifting-projections located between the tapes, a rotating carrier having pockets, a shifting-mechanism, means rotating carrier having pockets, a shifting-mechanism, means for rotating the eigarettes in the pockets, and a cutter.

(43.) The combination with a rotating carrier having pockets, of a shifting-mechanism located at each end of the pockets, o that either end of the cigarettes may be acted upon, means for retaining the cigarettes in the pockets, and a cutter. (44.) The combination with a rotating carrier provided with pockets, of a cam located at one end of the pockets, a vibrating shifter located at the other end of the pockets, and vibrating shifter located at the other end of the pockets, and a rotating cutter. (45.) The combination with cigarette-carrying tapes, of a rotating straightening-device having lifting-projections located between the tapes, a carrier having pockets also located between the tapes, a carn at one end of the pockets for acting on one end of the cigarettes, a vibrating shifter located at the other end of the pockets for operating on the other end of the cigarettes, and a cutter. (46.) The combination with a belt having forwarding-projections, of tapes overlying the same, a pusher, a rotating straightening-device having lifting-projections lying between the tapes, a carrier having pockets, a cam located at one straightening-device having litting-projections lying between the tapes, a carrier having pockets, a cam located at one end of the pockets for operating on one end of the cigarettes, a vibrating shifter located at the other end of the pockets for operating on the other end of the cigarettes, and a rotating cutter. (47.) The combination with a belt, of a pair of tapes overlying the same, a pair of pushers, one on each side of the belt, for operating on the cigarettes, a rotating straighteningdevice having lifting-blades lying between the tapes, a carrier having pockets, a cam located at one end of the pockets for operating on one end of the cigarettes, a vibrating shifter located at the other end of the pockets for operating on the other end of the cigarettes, and a cutter.

(Specification, 19s.; drawings, 7s.)

No. 15609. – 6th November, 1902. – George Henry Airey, of 3, Rue Cernuschi, Paris. France, Gentleman. Improvements in loading and unloading vessels.

Claims.—(1.) Means substantially as described for loading and unloading vessels; the said means comprising a mast erected on the delivering vessel; a pulley near the top of the said mast; a downwardly sloping tube near the said pulley; a drum at the top of the said mast; a drum at the bottom

of the said mast; means for rotating the said drums; an endless band free to run over the said drums; carrier arms outstanding from the said band; hooks on the said carrier outstanding from the said band; hooks on the said carrier arms for raising the goods; means for passing the hooks from the carriers to the sloping tube; a mast erected on the receiving vessel; a pulley at the top of the mast; a pulley on the ceck; a weight free to slide on the mast of the receiving vessel; a weight free to slide on the mast of the delivering vessel; a wire rope having its ends attached to the said weights and passing in its passage from one weight to the other over the pulley of the mast of the delivering vessel, through the sloping tube under the pulley on the deck of the receiving vessel, and over the pulley of the mast of the said receiving vessel. (2.) A hook having a flat overturned part to rest on a carrier, and having an upstanding loop with a downturned and outwardly sloped arm substantially as described. (3.) The method substantially as described of transferring goods from one vessel to another, the said method transferring goods from one vessel to another, the said method consisting essentially in the raising of the goods by carriers attached to an endless band passing over upper and lower drums, from which carriers the hooks and goods are transferred to a wire rope inclined towards the receiving vessel. (Specification, 3s. 6d.; drawings, 1s.)

No. 15610.—6th November, 1902.—John Loudon McMillan, of Syracuse, New York, United States of America, Designing Engineer. Improvements in rotary engines.

Claims.—(1.) In a rotary steam-engine, the combination of a high-pressure cylinder adapted to receive live steam; of a high-pressure cylinder adapted to receive live steam; a low-pressure cylinder adapted to receive the exhaust steam from the high-pressure cylinder; an intermediate steam-chest or chamber; and a conduit connecting the high- and low-pressure cylinders and passing through the steam-chest or chamber, whereby the exhaust steam is subjected to the heat of the live steam on its passage from one to the other cylinder. (2.) A compound rotary engine comprising a plurality of cylinders in axial alignment; a plurality of chambers likewise in axial alignment, each of circular form, and having the circle of its inner wall arranged to cut that of the cylinder with which it is formed; a shaft passing axially through the cylinders; a second shaft parallel with the first, passing axially through the supplemental passing axially through the cylinders; a second shaft parallel with the first, passing axially through the supplemental chambers; gears carried by said shafts, one in each cylinder and one in each chamber, and arranged to mesh in pairs; pistons carried one by each gear within the cylinders; a port for the admission of flu d to the first of said cylinders; an eduction-port for the exit of said fluid from said cylinder; a conduit or passage connecting the exhaust-port with an inlet-port of a succeeding cylinder; an exhaust-port for such succeeding cylinder; and a valve adapted alternately to admit and to cut off steam from the inlet-port of the first cylinder of the series. (3.) In a compound rotary engine, a cylinder of the series. (3.) In a compound rotary engine, a plurality of cylinders each provided with a revolving piston; an inlet-port for the first cylinder of the series; an eduction-port for said cylinder; passages connecting the eduction-port of the first cylinder with an induction-port of a succeedport of the first cylinder with an induction-port of a succeeding cylinder; a cut-off valve for permitting and controlling the induction of steam to said first cylinder, said valve having a fixed axis, but capable of rocking or turning about said axis; and means substantially such as described for controlling the movements of the valve, whereby steam may be cut off from the first cylinder at a predetermined point in the stroke or revolution of its piston, substantially as described (4) be commonly seture organic the combination of a high-pressure cylinder; a low-pressure cylinder; and an intermediate steam-chest having walls in common and coextensive with the adjacent cylinders, whereby the live intermediate steam-chest having walls in common and coextensive with the adjacent cylinders, whereby the live steam within the chest is caused to maintain a relatively high temperature in the high- and low-pressure cylinders. (5.) In combination with high-pressure cylinders A and chamber B in communication therewith, shafts C, D, provided with gears E, F, the former carrying a piston G; steam-chest or chamber J; a cut-off valve H serving to open and close an induction-port between the steam-chest and the cylinder A; a reversing-valve I interposed between the cut-off valve H and the cylinder A, said valve I being provided with ports d and e within the casting of cylinder A adapted to register with ports b and c thereof, and further provided with ports t and v and thand v; a low-pressure cylinder casting M provided with ports s, s, w, w, w, wi, with which under different adjustments the ports t and v and the sup-plemental chambers A and M and B and N; gears E, I, within the chamber A, gear E being provided with a piston G and gear F with a recess G1; gears O and P carried by the shafts C and D within the cylinder M and chamber N, gear O being provided with piston Q and gear P with recess or cavity Q1; valve L provided with ports o, p, q, adapted

to register under different adjustment with ports i, j, k and m in a casing surrounding the valve; a partition S separating the low-pressure cylinder casting into two spaces or chambers outside of the cylinder and its supplemental chamber; inlet-ports h and y affording communication from the interior of the steam-chest to the interior of the valve L under a certain adjustment of the valve; and a valve T controlling the port y, all substantially as set forth. (6.) In combination with cylinder A, provided with an inlet-port c and an outlet-port f; a rotary member E contained within the cylinder A, and provided with a revolving piston G; a rotary abutment adapted to co-operate with the rotary member E and piston G; a second cylinder M provided with a rotary member O, having piston Q, and coacting rotary abutment P; a tubular valve controlling the exhaust-port f of the first cylinder, and extending thence to a steam-passage of the second cylinder; and an inlet-port for said second cylinder communicating with said valve through said second cylinder communicating with said valve through the intermediate steam-passage, all substantially as shown and described. (7.) In a rotary engine, the combination of a cylinder A and supplemental chamber B, the former proand described. (7.) In a rotary engine, the combination of a cylinder A and supplemental chamber B, the former provided with a channel or depression z; an inlet-port c; an exhaust-port f; rotary gears E, F, arranged within the cylinder A and chamber B, and concentric with said chambers, the gear E being provided with a piston G, and the gear F formed with a recess G¹; and means for admitting steam to and cutting off the steam-supply of cylinder A. (8.) In a compound rotary engine, the combination of cylinders A and M and intermediate steam-chest J; gears E, F, and O, P, arranged within the respective cylinders and their supplemental chambers, and provided respectively with pistons G and Q and cavities G¹ and Q¹; reversing-valves I and L; and cut-off valves H and T adapted to control the several induction and eduction ports, substantially as described and shown. (9.) In a rotary compound engine, a low-pressure cylinder provided with induction and eduction ports; and a valve controlling said ports and adapted when set in one position to admit steam into the cylinder from the high-pressure cylinder, and when adjusted to another position to cut off communication with the high-pressure cylinder and to open communication with the steam-chest or supply, and thereby to admit live steam to the low-pressure cylinder to reverse its action. (Specification, 15s. 6d.; drawings, 9s.)

No. 15613.—4th November, 1902.—Thomas Mutton, Merchant and Horace Edwin Hupton, Electrician, both of 59, West Street, Brighton, England. Improvements in moving stands or figures for exhibition, advertising, and similar purposes.

Claims.—(1.) A pneumatic telescopic show-stand or device for displaying goods, or for exhibitions, advertising, and similar purposes, as described and set forth. (2.) A pneu-matic telescopic show-stand or device consisting of telescopic matic telescopic show-stand or device consisting of telescopic tubes caused to rise and fall or project and rotate, said projection being vertical, horizontal, spiral, or otherwise, said tubes being operated by pneumatic pressure obtained from an air-pump or from pressure air-reservoir fed by said pump actuated by an electric or other suitable motor, as described and set forth. (3.) In a pneumatic stand with telescopic action, either straight, curved, or spiral, the air-reservoir G, air-distributor 1, air-pumps F, and pipes connecting same, as described and set forth.

(Specification 5s : drawings 1s)

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

No. 15617.—7th November, 1902.—Harry Smith Wainwright, of Alfred House, Ashford, Kent, England, Locomotive Engineer. Improvements in the construction and arrangement, in locomotive engines, of draught-promoting

such as referred to in claim 1, mounted so that it can be turned, either as a whole or in parts, about an axis, so as to afford free access to fire-tubes, substantially as described. (5.) In a locomotive engine, a spark-arrester, such as referred to in claim 1, comprising two concentric parts so cona manner that they can be caused to assume relative positions in which one part will be within the other, so as to afford free access to fire-tubes, substantially as described. (6.) In a locomotive engine, a spark-arrester, such as referred to in claim 1, made collapsible so as to afford free access to fire-tubes, and comprising either (a) a number of hoops connected together by open links, or (b) upper and lower rings connected together by interwoven open links, intermediately connected together by interwoven open links, intermediately contracted to keep them mutually in place, or (c) upper and lower rings connected together by short solid links and jointpins, substantially as severally described with reference to drawings. (7.) In a locomotive engine, a spark-arrester constructed with a frame or frames comprising top and bottom rings connected by notched bars, and a rod or rods or a bar or bars wound spirally around the said frame or frames and placed in the notches of their connecting bars, whether or not the arrester extends to and surrounds or meets the base of the chimney, substantially as described and shown. (8.) In a locomotive engine, a chimney-cone having external spiral or inclined projections substantially as described, whether formed of wire or produced by a corrugated formation, substantially as described, for the purpose specified. (9.) In a locomotive engine, a chimney-cone composed of top and bottom rings connected by a spirally wound wire or rod or spirally wound wires or rods, with notched bars connecting the top and bottom rings together, and having the spirally wound wire or wires or rod or rods located in their notches, substantially as described. (10.) In a locomotive engine, the combination with a spark-arrester of an open-work or perforated guard of a diameter equal to or greater than that of the base of the chimney, whether or not the guard be formed by flanging or extending the chimney-cone or the spark-arrester, or both, substantially as described. (11.) In a locomotive engine, the arrangement, in combination with the chimney-base, of a chimney-cone and a perforated flange which connects together the chimney-base and the chimney-cone, substantially as described. (12.) In a locomotive engine, a spark-arrester and a chimney-cone forming a constructive portion of the arrester, substantially as described. (13.) In a locomotive engine, a blast-pipe having its interior formed or provided with ribs or projections constituting an inclined or spiral channel or incl contracted to keep them mutually in place, or (c) upper and lower rings connected together by short solid links and jointthat the passage or passages between them form a continua-tion or continuations of the said channel or channels, substantially as described. (14.) In a locomotive engine, the combination with a short blast-pipe of a spark-arrester comprising a lower part adapted to be turned about a vertical axis to bination with a short blast-pipe of a spark-arrester comprising a lower part adapted to be turned about a vertical axis to afford free access to the fire-tubes, and an upper part that extends around a chimney-cone or around the base of the chimney and is made separate from the lower part of the spark-arrester to enable the said lower part to be turned, substantially as described. (15.) A locomotive blast-pipe formed with holes or passages through which smoke and hot gas can freely pass, and which have a radially upward inclination so that their upper surfaces will aid in arresting and throwing down sparks or glowing particles coming into contact therewith, substantially as described. (16.) A locomotive blast-pipe comprising a lower portion having a projection or projections spirally arranged within its interior, so as to cause exhaust steam to revolve or whirl in passing therethrough, and an upper portion formed with holes or passages through which smoke and hot gases can freely pass into the blast-pipe, but not sparks or glowing particles, substantially as described and shown. (17.) In a locomotive engine, the combination of a short blast-pipe, a spark-arrester constructed of a framework comprising upper and lower rings, notched bars connecting the said rings, and a rod or bar, or rods or bars, spirally arranged around the said notched bars and engaging in the notches thereof, and a horizontal or approximately horizontal grid extending across the smoke-hox substantially as described. (18.) The imhorizontal or approximately horizontal grid extending across the smoke-box, substantially as described. (18) The im-proved construction and arrangement in a locomotive engine proved construction and arrangement in a locomotive engine of draught-inducing and spark-arresting devices, hereinbefore described with reference to and shown in Figs. 1 and 4 of the drawings, and the same modified as described with reference to and shown in Figs. 2 or 3 of the drawings. (19.) The several improved constructions and arrangements in locomotive engines and draught-inducing and spark-arresting devices described with reference to and shown respectively in Fig. 5, in Fig. 6, in Figs. 7 and 8, in Fig. 9, in Fig. 10, in Figs. 11 and 12, in Fig. 13, in Figs. 14 and 15, in Fig. 16, in Fig. 17, in Fig. 18, in Figs. 19 to 21 inclusive, and in Fig. 22 of the drawings. (Specification, 14s.; drawings, 7s.)

No. 15619.—12th November, 1902.—David Harris, of Ballance, New Zealand, Farmer. Improved appliances for straining, aerating, and cooling milk or other liquids.

-(1.) In appliances for straining, aerating, and cooling milk or other liquids, a receiving vessel provided with a strainer and with a ring of perforations in the bottom, in combination with a dome-shaped chamber above which the receiving-vessel is mounted so that its perfora-tions shall open above the dome, as specified. (2.) A re-ceiving-vessel provided with a straining-partition and with a ring of perforations in its bottom, in combination with a dome-shaped chamber above which it is placed, and with a saucer-shaped receptacle in which the chamber will rest, as and for the purposes set forth. (3.) The general arrangement, construction, and combination of parts in my improved appliances for straining, aerating, and cooling milk or other liquids, as described and explained, as illustrated in the drawings, and for the several purposes set forth. (Specification, 2s. 9d.; drawings, 1s.)

No. 15620.—12th November, 1902.—David Harris, of Ballance, New Zealand, Farmer. An improved method of and means for securing together the adjacent ends of the wires used in wire-fencing, and for other like purposes.

-The improved method of and means for securing Claim.—The improved method of and means for securing together the adjacent ends of the wires used in wire-fencing and for other like purposes, the same consisting in the employment of a disc or block formed with parallel holes passing therethrough, and through which the adjacent ends of the wires are passed from opposite sides and are then twisted upon each other, as specified.

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

No. 15624.—13th November, 1902.—James Burge, of Victoria Street, Warragul, Victoria, Saddler. An improved rug for cows, horses, and like animals.

Claims.—(1.) In a rug for the purpose specified, fastening-straps as B and B¹ each secured to rug-cloth near its fore part, either direct or with a spring catch, and held together under the body of animal with a loose ring as B², and with under the body of animal with a loose ring as B², and with the back part of each strap passed through a buckle as a⁵ on rug, substantially as described and shown. (2.) In a rug for the purpose specified, two fastening-straps as B, B¹, secured to the rug, and which straps serve as body and breeching straps by first passing under the body of animal and being held together by a loose ring B², and by the end parts of each strap passing out through a slot in rug and the ends being connected with a buckle fastening, substantially as described and shown. (3.) An improved rug for the purpose specified, consisting of the combination of the rug-cloth A, straps B-B¹, the former furnished with a hook and ring fastening a¹-a², ring B², slots a⁴, buckles a⁵ and b, and the breast-straps A¹-A², all arranged and secured substantially as described and shown.

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

No. 15634. – 17th November, 1902.—George Frederick Newman, of Peel Forest, Canterbury, New Zealand, Coachdriver. Improved waterproofing composition.

Claim.—A waterproofing composition consisting of linseed-oil, castor-oil, sulphur, and dryers mixed together in the relative proportions indicated and boiled, substantially as set forth and described.

(Specification, 2s. 3d.)

No. 15635.—17th November, 1902.—Francis Prendeville Wilson, of Wellington, New Zealand, Schoolmaster. A combined printer's galley and chase.

Claims. - (1.) In means for setting up and holding type, a Claims.—(1.) In means for setting up and holding type, a rectangular frame provided with removable bettom, sliding bars placed across the frame at right angles to each other, and means whereby such bars may be moved up and down the frame, as specified. (2.) In means for setting up and holding printing-type, a rectangular frame provided with a removable bottom, bars placed across the space enclosed by the frame and at right angles to each other, the ends of such bars being formed with sliding pieces that fit within slides in the sides of the frame, and with projecting bosses through which pass screw-threaded rods that are carried in bearings upon the corners of the frame, and are provided with thumbwhich pass serew-threaded roots that are carried in bearings upon the corners of the frame, and are provided with thumbnuts thereon, as set forth. (3.) In means for setting up and holding printing-type, a rectangular frame provided with sliding bars placed across the frame at right angles to each other, means whereby such bars may be moved up and down the frame, and dovetailed sliding surfaces on the underside

of the frame, in combination with a plate formed with corresponding dovetailed sliding surfaces on its edges and fitting upon the bottom of the frame, as specified. (4.) In means for setting up and holding printing-type, a rectangular frame the under surfaces of two sides of which are formed with dovetailed sliding faces, in combination with a plate formed with doverained shaing faces, in combination with a plate formed with corresponding dovetailed sliding faces on its edges and fitting upon the bottom of the frame, as specified. (5.) The general arrangement, construction, and combination of parts in my combined printer's galley and chase as described and explained, as illustrated in the sheet of drawings, and for the several purposes set forth. (Specification, 3s. 6d.; drawings, 1s.)

No. 15637.—15th November, 1902.—ALEXANDER JEWISS, of Albert Street, Auckland, New Zealand, Plumber, and George Inglis, of Mount Eden, near Auckland aforesaid, Plumber. An improved method of glazing corrugated iron, applicable to roofs and sides of houses and other buildings.

(1.) In glazing corrugated iron as described, the use of and fitting to, and on the top, sides, and bottom of the opening made in the corrugated iron, of hoop or flat iron, angle iron, V-shaped iron, sheet lead, and glass, in combina-tion with the corrugated iron, for the purpose set forth, substantially as specified. (2.) The method of glazing cor-rugated iron described, and the configuration, combination, and application of the materials mentioned, for the purpose set forth, substantially as specified.
(Specification, 3s. 6d.; drawings, 1s.)

No. 15644. - 19th November, 1902. - THE WOLSELEY SHEEP-SHEARING MACHINE COMPANY, LIMITED, of Sydney Works, Alma Street, Birmingham, England, Manufacturers, and Herbert Austin, of the same address, a Director of the said company. Improvements in machines for cutting or shearing hair or wool.

Claims.—(1.) In a mechanically operated machine for cutting or shearing hair or wool, a portion of the under-side of the case formed flat with a hole therethrough to receive the lower end of a reeling pillar which supports the hinder end of the sideway-vibrating lever, and a plate fixed to the flat under surface of the case and forming the bottom of the said hole through the under-side of the case and providing the surface on which the reeling pillar rolls, substantially as set forth. (2.) In a mechanically operated machine for cutting or shearing hair or wool, the under-side of the forward portion of the case formed flat with a hole therethrough to receive the lower end of a reeling pillar which supports the hinder end of the sideway-vibrating lever, a plate fixed to the flat under-surface of the case and forming the bottom of the said hole therethrough and providing the surface on of the said hole therethrough and providing the surface on which the reeling pillar rolls, and a comb fixed also against the flat bottom of the forward end of the case whereby its upper surface is in the same plane with the upper surface of the said plate, substantially as set forth. (3.) In a mechani-cally operated machine for cutting or shearing hair or wool, forming the upper forward end of the case open and providing the pressure of the forward end of the case open and providing a cover for such open portion, through the medium of which the pressure of the forward end of the vibrating lever upon the cutter may be adjusted, substantially as set forth. (4.) In a mechanically operated machine for cutting or shearing hair or wool, the combination of a case having an open upper hair or wool, the combination of a case having an open upper forward end and notches such as g in its sides, with a cover such as L having pivot-pins such as f f r engagement with the notches g, substantially as set forth and illustrated. (5.) In a mechanically operated machine for cutting or shearing hair or wool, the combination with a case having an open forward upper end of a pivoted cover which carries the fucrum about which the sideway-vibrating lever vibrates, and a vertical pin which passes up through the case and through the cover and is provided with a nut through the medium of which the cover may be pressed down to adjust the pressure of the sideway-vibrating lever upon the cutter, substantially as set forth and illustrated. (6.) In a machine for cutting or shearing hair or wool, a cutter provided with three teeth only, and the forward end of the sideway-vibrating lever which operates such cutter formed b furcated or with two prongs only, the centres of the two bearing surfaces of the lever upon the cutter being each about one-third of the distance from the centre of an outer tooth of such cutter transfer the strength the read the proper is a surface of the surf tance from the center of an outer tooth of such cutter to-wards the centre of the middle tooth thereof, whereby the pressure of the lever up in the cutter is equally distributed between the three tee h of the cutter, substantially as set forth.

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

No. 15645.—19th November, 1902.—Franz Baertl, of Bahnhofstrasse, 81, Zurich, Switzerland, Manufacturer. Improvements in automatic pressure-regulators for gas flames or burners.

Claims.—(1.) The combination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen said pipe or alter the height of the flame, said regulator consaid pipe or alter the height of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a valve in said sleeve having a passage for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, and means for limiting the downward movement of said valve, substantially as described. (2.) The combination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen said pipe or alter the height of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a conical valve in said sleeve having a longitudinal passage therethrough for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, and means for limiting the downward movement of said valve, substantially as described. (3.) The combination of a gas burner or pipe, a gas-pressure regulator bination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen said pipe or alter the height of the flame, said regulator consisting of a sleeve proheight of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a valve in said sleeve having a passage for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, means for limiting the downward movement of said valve, and means for giving the regulator the desired vertical or inclined position in the gas-pipe, substantially as described. (4.) The combination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen said pipe or alter the height of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a valve in said sleeve having a passage for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, means for limiting the downward movement of said valve, and means for giving the regulator the desired vertical or inclined position in the gaspipe, consisting of a socket inserted in said pipe and adapted to receive a regulator, substantially as described. (5.) The combination of a gas burner or pipe, a gas-pressure regulator pipe, consisting of a socket inserted in said pipe and adapted to receive a regulator, substantially as described. (5.) The combination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen the latter or alter the height of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a valve in said sleeve having a passage for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, means for limiting the downward movement of said valve, and means for giving the regulator the desired vertical or inclined position in the gas-pipe, consisting of a socket inserted in said pipe and adapted to receive a regulator, said socket having a by-pass orifice, substantially as described. (6.) The combination of a gas burner or pipe, a gas-pressure regulator placed therein so as not to lengthen the latter or alter the height of the flame, said regulator consisting of a sleeve provided with an upper valve-seat, a valve in said sleeve having a passage for gas and adapted to be pressed against said seat on high gas-pressure and to fall by gravity on reduction of said pressure, means for limiting the downward movement of said valve, and means for giving the regulator the desired vertical or inclined position in the gaspipe, consisting of a socket in said pipe and adapted to receive a plurality of regulators, said socket having a by-pass orifice, substantially as described.

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

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

No. 15646. -19th November, 1902.—Joseph Alexander Carruthers, of High Street, St. James, Victoria, Australia, Mechanic. Improvements in electrically actuated and controlled clocks and other time-recording apparatus.

Claims.—(1.) In electrical clocks and other time-recording apparatus, a pendulum having at its base an armature, an electro-magnet set beneath the said armature, means as claimed in claim 2 carried by the pendulum for causing make and break of the electrical circuit to energise and denergise the electro-magnet, substantially as and for the purposes described. (2.) A hinged plate set in a box supported from pendulum and arranged to cause spring plates to make contact in one direction of travel of pendulum and to pass idly over plate on return, substantially as and for the purposes described. (3.) In combination, bracket j adjustable on pendulum rod and supporting b x j², a hinged plate j³ within the box, spring plates h², h³, set beneath said hinged plate, electrical-wire connections with the spring plates and cell or battery, substantially as and for the purposes described. (4.) The combination and arrangement of the several parts for the purposes described, and substantially as illustrated on the drawings. (Specification, 3s. 9d.; drawings, 1s.) Claims. -(1.) In electrical clocks and other time-recording

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

No. 15647.—19th November, 1902.—Joseph Alexander Carruthers, of High Street, St. James, Victoria, Australia, Mechanic. Electrically actuated and controlled clock.

Claims. — (1.) In electrically actuated and controlled clocks, a pendulum having at its base an armature, an electro-magnet set beneath the said armature, means carried by the pendulum for causing make and break of electrical circuit to energise and de-energise the electro-magnet, a rod l oscillated by the pendulum and pivoted in a block s that limits its travel and actuating a bar m, an escapement carried by the bar m, and an escapement-wheel on spindle actuated by the escapement, substantially as and for the purposes described. (2.) In electrically actuated and conpurposes described. (2.) In electrically actuated and controlled clocks, in combination, a pendulum, an armature at its base, an electro-magnet beneath the armature, a bracket h^1 carrying spring plate h^3 , bracket h carrying spring plate h^3 , a hinge-plate j^3 adjustably supported from the pendulum so as to bear on the plate h^3 at intervals, a rod l oscillated by the pendulum and pivoted in block s that limits its travel, a bar m attached to rod l and carrying escapement n, n^1 , n^2 , and that the constraint l are attached to read l and l are appeared and set one at all l and l are appeared and l and l and l are appeared and la bar m attached to rod l and carrying escapement u, n^1 , n^2 , a ratchet wheel engaging with escapement and set on a spindle, from which the dial mechanism of the clock is actuated, substantially as and for the purposes described. (3.) The combination and arrangement of the whole of the parts for the purposes described, and substantially as illustrated on the drawings. (Specification, 4s. 9d.; drawings, 2s.)

No. 15652.—19th November, 1902.—ALEXANDER GILLIES, of Terang, Victoria, Dairyman. Improvements in milking-apparatus.

-(1.) In milking-apparatus of the type specified, a teat-cup consisting of a casing and a complete thin losse lining between which the pulsations are delivered, the space enclosed by said lining being in communication with the milk-receiver, and the space between said lining and casing in communication with the pulsator, substantially as described and illustrated. (2.) In milking apparatus of the described and illustrated. (2.) In mining apparatus of the type specified, a teat-cup consisting of a comparatively thick rubber casing with a thin inwardly extending lip around, the inner end of which is a complete thin loose lining, secured at its other end to an internal spout or mouth in secured at its other end to an internal spout or mouth in communication with a milk-pipe leading to the milk-receiver, substantially as described and illustrated. (3.) In milking-apparatus of the type specified, a double "claw" or bracket, one passage of which has branches for conveying the pulsations, and the other passage of which has branches for the milk and coupled up with the teat-cups pulsator and vacuum, substantially as described and illustrated. (Specifications, 2s. 3d.; drawings, 1s.)

No 15654.—19th November, 1902.—Charles Peyron de LAJARD, of 7. Rue Theodore Aubanel, Avignon, France, Director of the Compagnie Générale des Moteurs Maritimes. Device for the utilisation of the power derived from the waves of the sea.

Claim,-Device for the utilisation of the power derived from the waves of the sea, comprising, in combination with a main frame running on wheels, a fly-wheel for the with a main frame running on wheels, a fly-wheel for the transmission of the power to working machines, axles rotated by the movement of the surface of the sea, a gearing connecting the axle of the fly-wheel with said axles, ratchet wheels on said axles, forks embracing the ratchet wheels, pawls linked to the forks and engaging with the ratchet wheels, racks at the closed ends of the forks, spur wheels engaging with said racks, pinions engaging with said spur wheels, racks engaging with the pinions, shifting rods linked to the outer ends of said pinion-racks, levers linked with the upper end to the outer end of the shifting rods, floaters coupled in pairs by rigid frames, a cross-bar fixed on the centre of the side bars of said floater-frame, one end of which is rigidly connected with the lower end of one of the levers of the shifting rods, connecting-rods rigidly fixed to the ends of two of the cross-bars, a rigid frame for the floaters adjustably connected with the main frame by a vertical axle, an axle rotatably supported in the ends of the frame carrying the connecting-bars of each set of two pairs frame carrying the connecting-bars of each set of two pairs of floaters and the ends of the levers of four of the shifting rods, substantially as described and shown and for the purpose set forth.

(Specification, 3s. 9d.; drawings, 2s.)

No. 15657.—20th November, 1902.—Lucy Adamson, of Waihao Forks, New Zealand, Employed in Domestic Duties. Improved apparatus for employment in connection with the collection of rain-water from the roofs of houses.

Claims.—(1.) Apparatus for the purpose indicated, consisting of the combination and arrangement of parts, substantially as herein specified. (2.) In apparatus for the

purpose indicated, the combination with a rain-water downpipe of a valve and valve-seat therein, and a float within a receptacle for actuating said valve, a branch from the down-pipe above the valve leading to a tank receiving clean water, substantially as specified and illustrated.

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

No. 15660.—19th November, 1902.—HUNTER HENRY MURDOCH, of Hastings, Hawke's Bay, New Zealand, Patent Agent. Improvements in set-squares for use in mechanical and other drawing.

Claims.—(1.) The improvements in set-squares described, and illustrated in Figs. 1 to 10 (both inclusive) of the drawings—that is to say, the formation in a set-square drawings—that is to say, the formation in a set-square of a slot or slots, in which slot or in one or other of such slots is inserted a sliding stop of any one of the kinds described, the said stop and set-square being arranged and operated relatively to and with each other, essentially as and for the purpose described. (2.) The sliding stops described with reference to Figs. 2 and 3 of the drawings—that is to say, a series of graduated stops, each of which consists of an oblong plate of wood, ebonite, or other suitable material, of such width as to fit and slide easily in the slot or either of the slots in the aforesaid set-squares, but of less length than such slot or slots, the length of each stop being such as, when it is used in combinalength of each stop being such as, when it is used in combina-tion with either of the set-squares, to enable the draughtsman tion with either of the set-squares, to enable the draughtsman to draw section or other lines of the requisite distance apart, essentially as described. (3.) The adjustable sliding stop described, and illustrated in Figs. 4, 5, and 6 of the drawings—that is to say, an oblong stop furnished with a set-screw, the lower part of the milled head of which enters the slot in either of set-squares aforesaid, the said sliding stop and set-square being arranged and operated relatively to and with each other, essentially as and for the purpose described. (4.) The adjustable sliding stop described, and illustrated in Figs. 7, 8, and 9 of the drawings—that is to say, a stop consisting of two oblong plates arranged one upon the other, the upper plate having on its under-side a longitudinal dovetail upper plate having on its under-side a longitudinal dovetail rib which slides as required in a correspondingly formed longitudinal rebate in the upper side of the lower plate, the said plates being clamped together as required by means of a said plates being champed together as required by means of a screw fixed in the said lower plate, which screw passes through a longitudinal slot formed in the said upper plate and carries a milled nut, the said upper plate having at one end a transverse rib which enters the slot in either of the set-squares aforesaid, the sliding adjustable stop thus constructed and the set-square being arranged and operated relatively to and with each other, essentially as and for the purpose described.

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

No. 15664.—18th November, 1902.—John Roger, of 6, No. 15064.—18th November, 1902.—John Roger, of 6, Coningsby Road, Finsbury Park, London, England, late a Tea-planter in Ceylon, and MONTAGUE KELWAY BAMBER, of the Laboratory, Hyde Park Corner, Cinnamon Gardens, Colombo, Ceylon, Agricultural Chemist. An improved process for obtaining a soluble extract of tea.

-(1.) The process of obtaining from the leaf of the tea plant a soluble extract or extracts containing the tannin, theine, and other valuable principles of the leaf, and possessing the peculiar aroma, flavour, pungency, and invigorating properties of the ordinary tea of commerce, characterized by firstly obtaining such principles in solution, and then separating such principles from the solvent fluid and obtaining the same as an extract or extracts in the form of dry powder or thick fluid by the successive procedures of heating the fluid sufficiently to keep soluble matters in solution, separating by centrifugal action foreign matters from the hot fluid, refrigerating the clear fluid sufficiently to throw the tannin, theine, and other valuable principles of the tea out of solution, separating by centrifugal action from the refrigerated fluid such of such principles as are specifically heavier than the fluid in paste-like or caky mass, reducing such mass to dryness, evaporating the fluid down to any required degree of concentration, refrigerating the concentrated fluid sufficiently concentration, refrigerating the concentrated fluid sufficiently to throw the remaining valuable principles out of solution, separating by centrifugal action such principles from such refrigerated concentrated liquid in paste-like or caky mass, reducing such mass to dryness, repeating such concentrating, refrigerating, separating, and drying processes if necessary, and evaporating the resultant fluid, if containing any valuable principles, down to a thick fluid condition or to dryness, as set forth. (2.) In obtaining from the leaf of the tea-plant an extract containing the valuable principles thereof, the process consisting in and characterized by obtaining such principles in solution, and separating such principles from the solvent fluid – after freeing the latter from foreign matters by heating the fluid and subjecting it while hot to the action of a centrifugal separator-by refrigerating the fluid sufficiently to throw the valuable principles out of solution, and subjecting the fluid while so refrigerated to the action of a centrifugal separator, and evaporating the remaining fluid if containing any valuable principles, repeating the refrigerating, separat-ing, and evaporating procedures if necessary, as set forth. (Specification, 5s. 6d.)

F. WALDEGRAVE.

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

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 postoffice order or postal note for the cost of copying.

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

Provisional Specifications.

Wellington, 26th November, 1902.
PPLICATIONS for Letters Patent, with provisional

A reporting for letters fracent, with provisional specifications, have been accepted as under:

No. 15449.—26th September, 1902.—John Armstrong, of Mount Roskill, Auckland, New Zealand, Carpenter. Improved means for securing cords to window-sashes and for

proved means for securing cords to window-sashes and for other analogous purposes.

No. 15543.—23rd October, 1902.—Richard Boxall, of Warren Street, Brisbane, Queensland, Engineer, and Arthur Anthony Robinson, of Moorooka, Queensland, Manufacturer. Tinning and printing machine for butter and other analogous substances.

No. 15567.—28th October 1902. Proved Town Department.

No. 15567.—28th October, 1902.—Peter John Darling, of 28, Tuam Street, Christchurch, New Zealand, Electrician; FREDERICK LYNSDAY SUMMERTON, of 11, Worcester Street, Christchurch, New Zealand, Engineer; and FREDERICK JOHN Amos, of 80, Hereford Street, Christchurch aforesaid, Joiner. An improved means for automatically sustaining air-pressure in pneumatic tires.

No. 15580.—30th October, 1902.—Thomas Napier, of Hawera, New Zealand, Carpenter. Improvements in boot-

polishing machines.
No. 15589.—3rd November, 1902.—John Robert Watt.

No. 15359.—3rd November, 1902.—JOHN ROBERT WATT, of Christchurch Meat Company, Timaru, New Zealand, Carpenter. Improvements in or relating to doors for freezing-rooms, cold-stores, ice-houses, &c.

No. 15595.—4th November, 1902.—Francis Antonio Burdett-Stuart, of Chertsey, Canterbury, New Zealand, Water Ranger. An improved trap for small birds and the like.

like.

No. 15612.—4th November, 1902.—John Denniston Smith, of 10, Harbour Terrace, Dunedin, New Zealand, Engineer. Improved foodplate.

No. 15614.—5th November, 1902.—Robert Pearce Gibbons, of Kopu, Thames, New Zealand, Sawmill-proprietor. An improved vertical steam boiler.

No. 15615.—7th November, 1902.—George Frederick Brown, of Forest Road, Hurstville, New South Wales, Land Agent. An unpuncturable pneumatic-tire covering.

No. 15616.—7th November, 1902.—Joseph Baker, of Lower Hepburn Street, near Auckland, New Zealand, Watchmaker, and Daniel Plumb Parker, of Coromandel, Auckland, New Zealand, Engineer. An improved automatic acetylene-generator.

and, New Zealand, Engineer. An improved automatic acetylene-generator.

No. 15618.—12th November, 1902.—Frederick Jones, of 4, Lorne Street, Wellington, New Zealand, Boot-salesman. An improvement in a nail for boots and shoes.

No. 15621.—7th November, 1902.—Charles Davis Lightband, of 79, Armagh Street, Christchurch, New Zealand, Leather-salesman. A resilient leather heel.

land, Leather-salesman. A resilient leather heel.

No. 15622. — 7th November, 1902. — CHARLES DAVIS
LIGHTBAND, of 79, Armagh Street, Christchurch, New Zealand, Leather-salesman. A binocular suspender.

No. 15623.—13th November, 1902. — RICHARD ERNEST
PENNINGTON, Engineer, and JAMES BELLETT, Stationer,
both of 227, Bridport Street, Albert Park, near Melbourne,
Victoria. An improved locknut plate for preventing nuts
loosening or turning back on fish-plates and the like.

No. 15625.—13th November, 1902.—EDWARD LAURIS
WICKINS, of 40, Powell Street, South Yarra, Victoria,
Mechanic. An improved rotary steam-engine.

No. 15626.—13th November, 1902.—DAVID RUTHERFORD
Ross, of De Carle Street, Brunswick, Victoria, Engineer.
Improvements in milking-machines.

No. 15628.—11th November, 1902.—WILLIAM HENRY

No. 15628.—11th November, 1902.—WILLIAM HENRY FAHEY, of Royal Terrace, Kew, Dunedin, New Zealand, Commercial Traveller. Improved hat-fastener.

No. 15629.—11th November, 1902.—Samuel White, of Dunedin, New Zealand, Coachbuilder. Game apparatus.

No. 15630.—11th November, 1902.—WILLIAM BEAMISH, of Cromwell, Central Otago, New Zealand, Occupied in the Dredging Industry. Appliance for carrying a running line

Dredging Industry. Appliance for carrying a running line along a standing line.

No. 15631.—11th November, 1902.—William Beamish, of Cromwell, Central Otago, New Zealand, Occupied in the Dredging Industry. Improved oil-feeding can.

No. 15632.—11th November, 1902.—Robert Pearce Gibbons, of Kopu, Thames, New Zealand, Mill-proprietor. An improved bottom and sides for all kinds of kettles and liquid-beating boilers ting boilers.

No. 15633.—15th November, 1902.—WILLIAM GEORGE Hood, Engineman, and REES WILLIAMS, Engineering Black-

HOOD, Engineman, and REES WILLIAMS, Engineering Blacksmith, both of Petone, New Zealand, and John Reilly, of Tory Street, Wellington, New Zealand, Engineering Smith. An improved marine governor.

No. 15636.—17th November, 1902.—Van Horne Lawrence Wood, of Birkenhead, Auckland, New Zealand, Gentleman. Improved means for supporting window-curtains

No. 15688.—15th November, 1902.—James Baird, of Wynyard Street, Devonport, near Auckland, New Zealand, Engineer. An automatic spark-arrester for locomotive and other boilers.

No. 15639.—14th November, 1902.—John Payne, of Alpha Road, Parnell, Auckland, New Zealand, Clerk. A device for converting an ordinary dumb-bell into a spring-grip dumb-

No. 15640.—13th November, 1902.—ROBERT PEARCE GIBBONS, of Kopu, Thames, New Zealand, Sawmill-proprietor. An auxiliary propeller for disabled steam or sailing

ships. No. 15641. – 18th November, 1902. - Peter Hill

No. 15641. — 18th November, 1902. — Peter Hill McConachy, of Gore, New Zealand, Butcher. Improved apparatus for making staples.

No. 15642.—17th November, 1902.—Henry Coe, of Greymouth, New Zealand, Gardener. An improved attachment to ploughs for breaking the subsoil.

No. 15643.—17th November, 1902. — David Hanna, of Christchurch, New Zealand, Plumber. An improved appliance for pumping smoke or fumes.

No. 15648.—19th November, 1902.—Harry Ham, of Kumeroa, Hawke's Bay, New Zealand, Chainman. An improved nightsoil receptacle.

Kumeroa, Hawke's Bay, New Zealand, Chainman. An improved nightsoil receptacle.

No. 15649.—19th November, 1902.—William McLean, of Invercargill, New Zealand, Mariner. Improvements in apparatus used in playing parlour billiards and the like.

No. 15650.—19th November, 1902.—United Shoe Machinery Company, of Paterson, in the State of New Jersey, United States of America, a corporation duly organized under the laws of said State of New Jersey, and having their principal place of business at 205, Lincoln Street, Boston, Massachusetts, United States of America (assignees of Benjamin Franklin Mayo, of Salem, Essex, Massachusetts aforesaid, Inventor). Improvements in or relating to machines for rounding or trimming the soles of boots and shoes. shoes.

No. 15653.—19th November, 1902.—EDWIN ROBERT JENNINGS and THE "PYROJIM" SYNDICATE, LIMITED, of 3, Broad Street Buildings, London, England (assignees of John May Jameson, lately residing at Lorraine Villa, Wigston Fields, Leicester, England, Civil Engineer). Improvements in treating floor-dust, house and other refuse, for making or converting it into fuel

in treating floor-dust, house and other refuse, for making or converting it into fuel.

No. 15655.—19th November, 1902.—James Robson, of Ngaire, Taranaki, New Zealand, Sawmiller. Improvements in or relating to vertical sawing machines.

No. 15656.—17th November, 1902.—John Ramsay, of Round Hill, Southland, New Zealand, Mine-manager. Improvements in tables for saving gold.

No. 15658.—20th November, 1902.—John Thomas Murphy, of Blenheim, New Zealand, Farmer. Improvements in harness for horses and the like.

No. 15661.—18th November, 1902.—David Ranken Shirreff Galbrath, of Ladies Mile, Remuera, Auckland, New Zealand, Analytical Chemist, and William Steuart, of Herald Buildings, Queen Street, Auckland aforesaid, Electrical Engineer. A new method and apparatus for the reduction of ironsand, iron-oxides, and other suitable substances. stances.

No. 15662.—18th November, 1902.—DAVID RANKEN SHIRREFF GALBRAITH, of Ladies' Mile, Remuera, Auckland, New Zealand, Analytical and Consulting Chemist, and WILLIAM STEUART, of Herald Buildings, Queen Street, Auckland aforesaid, Electrical Engineer. Supplementary apparatus for the reduction of ironsand, iron-oxides, and other suitable substances. substances

No. 15663.—18th November, 1902.—John Hilton Smithles Brown, of Devonport, near Auckland, New Zealand, Engineer. A match-striking attachment to cigarette-

No. 15665. — 21st November, 1902. — PATRICK ARTHUR HARKIN, of Mount Roskill, Auckland, New Zealand, Builder.

Improved apparatus for use in moulding confectionery and

the like.

No. 15666. — 21st November, 1902. — Sydney Sturges Stretton, of Ongarue, Auckland, New Zealand, Bushman. Improvements in or relating to the lids of saucepans.

No. 15667.—19th November, 1902.—John Kelly, of Palmerston, Otago, New Zealand, Engine-driver. An improved grain reel or beater for reaping-and-binding machines.

No. 15668.—19th November, 1902.—William Beamish, of Cromwell, Central Otago, New Zealand, Occupied in the Dredging Industry. Cyclists' trouser-clip.

No. 15669.—19th November, 1902.—William Beamish, of Cromwell, Central Otago, New Zealand, Occupied in the Dredging Industry. Improved sack-mouth fastener.

No. 15676.—19th November, 1902.—David Landsborough Cochrane, of Otahuhu, Auckland, New Zealand, Contractor.

COCHRANE, of Otahuhu, Auckland, New Zealand, Contractor.

F. WALDEGRAVE Registrar.

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

The date of acceptance of each application is given after

the number.

Letters Patent sealed.

IST of Letters Patent sealed from the 12th to the 26th

November, 1902, inclusive:—
No. 13659.—R. W. Jones, knife-cleaner.
No. 13903.—R. A. McLeod, winch.
No. 13906.—J. MacLean, horse-cover.
No. 13910.—T. Hawke, horse-cover.
No. 13917.—E. R. Atkin, stowing away back seat of

buggy, &c.
No. 13932.—C. Curham and R. J. K. Jackson, blight destroyer.

No. 14130.—A. F. Hadecke, concave. No. 14228.—F. T. Mumford, treatment of ores. No. 14398.—J. Neagle, head-bag for racehorse.

No. 14398.—J. Neagle, head-bag for racehorse.
No. 14407.—F. Hornby, toy or educational device.
No. 14549.—Lamson Store-service Company, Limited, cash carrier (J. T. Cowley).
No. 14735.—H. W. Buff, coverings for the feet.
No. 14773.—C. A. Trotter, range-finding for rifles.
No. 15129.—H. Hammond, rubbish, &c., catch for tank.
No. 15151.—W. H. Lawrence and R. Kennedy, milking-

apparatus.
No. 15165.—J. P. Robertson, fire-alarm.
No. 15201.—G. C. Smith, wood or metal screw.
No. 15206.—United Shoe Machinery Company, welt-sewing

No. 15206.—United Shoe Machinery Company, welt-sewing machine (E. E. Winkley).

No. 15208. — United Shoe Machinery Company, stitch-separating machine (J. B. Hadaway).

No. 15210.—M. Neustadt, delivering disinfectant to charge of water (J. L. Wade).

No. 15228.—United Shoe Machinery Company, pressing-form for sole-laying machine (G. H. Gifford).

No. 15229.—R. D. Brett and T. P. Wood, smoke-consumer sumer.

sumer.
No. 15246.—The American Tobacco Company, sealed tin (W. I. Tuttle).
No. 15282.—R. F. Wells, sheep-shears.
No. 15283.—G. S. Heatley, bedstead and mattress.
No. 15298.—K. Wessell, mattress-filling machine.
No. 15309.—D. T. Sharples, milking-apparatus.
No. 15310.—J. P. Campbell, electric arc lamp (G. Westing-house)

No. 15311.—R. J. L. Witty, plant and seed setter.
No. 15312. — J. T. Hunter, incandescent filament and mantle (the Plaisetty Mantle Syndicate, Limited—A. M.

F. WALDEGRAVE,

Registrar.

Letters Patent on which Fees have been paid.

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

SECOND-TERM FEES.

No. 10901.—H. S. Elworthy, manufacturing carbonic acid. 14th November, 1902.
No. 11122.—D. Donald, wire-strainer. 12th November,

1902. 11154.-A. M. Waters, potato digger, bagger, &c. No.

14th November, 1902. No. 11156.—W. E. Hughes, floor (E. Jensen). 13th November, 1902.

No. 11163.—W. E. Hughes, concrete pipes, &c. (E. Jensen).

13th November, 1902. Skyrr No. 11202.—J. Hall, treating skins, &c. 13th November, 1902.

No. 11206. A. Melchior, machine sheep-shears.

November, 1902.
No. 11270.—The Empire Cash-register, Limited, cash-register (J. Fauvel and N. Collins). 19th November, 1902.
No. 11282.—L. A. Garchey, ceramic stone. 19th November, 1902.

THIRD-TERM FEE.

No. 8141.—F. V. Friderichsen, preserving blood with molasses. 13th November, 1902.

F. WALDEGRAVE.

Registrar.

Letters Patent abandoned.

IST of applications for Letters Patent (with which provisional specifications only have been filed) abandoned from the 13th to the 26th November, 1902, inclusive:

No. 14432.—A. McLeod, branding appliance.
No. 14433.—A. C. Wolff, packing-case.
No. 14439.—E. A. Derrett, fencing-dropper.
No. 14440.—T. J. Broome and C. W. Langstone, compositive for realizing states.

No. 14440.—T. J. Broome and C. W. Langstone, comsition for making cloth, &c., waterproof.

No. 14441.—M. Peryer, cleansing painted surfaces.
No. 14444.—A. C. Murray, coal-scuttle.
No. 14445.—A. C. Murray, can-handles.
No. 14446.—W. F. Kennedy, wire strainer.
No. 14449.—G. Dent, hairdressers' cabinet.
No. 14455.—A. J. Park, operating window-sash.
No. 14457.—R. and J. H. Millis, gold-saving apparatus.
No. 14459.—K. C. Jackson, trampail-clearer.

No. 14459.—K. C. Jackson, tramrail-clearer. No. 14461.—F. Kettle, hat-fastener. No. 14463.—H. H. Rayward and E. S. Baldwin, golddredging machinery

No. 14466. -W. Burrell and J. P. McMeekin, rabbit, &c., crate.

No. 14467.—J. S. C. Bonham, pump. No. 14468.—W. M. Bartle, flush conductor. No. 14469.—W. Steer, heel for boot, &c.

No. 14469.—W. Steer, heel for boot, &c.

No. 14470.—F. Kettle, hat-fastener.

No. 14471.—C. L. Watt, parallel ruler.

No. 14472.—A. J. Park, mirror.

No. 14474.—W. Riddell, batter-lifter.

No. 14475.—E. T. Matthews, watch-pocket.

No. 14475.—S. J. Ensor and F. Tanner, claw-hammer.

No. 14482.—J. J. Macky, shirt.

F. WALDEGRAVE,

Registrar.

Letters Patent lapsed.

IST of applications for Letters Patent (with which complete specifications have been lodged) lapsed from the 13th to the 26th November, 1902, inclusive:—

No. 13609.—J. Macpherson, screen for sorting mineral wash.

No. 13620.—W. H. Clarke, rapid photo.-printing apparatus. No. 13631. R. Walker, milk, &c., aerator. No. 13632.—H. Wimsett, preventing cracks in horses'

No. 13637.—H. J. Bettany, reel for measuring tape, &c.

No. 13646.—W C. Greig, curtain-pole.
No. 13658.—M. Hawkins and B. Denly, asphalt.
No. 14146.—H. P. Rasmussen and W. Hagerty, pneumatic hub for cycle-wheel.

F. WALDEGRAVE,

Registrar.

Letters Patent void,

IST of Letters Patent void through non-payment of renewal fees from the 13th to the 26th November,

THROUGH NON-PAYMENT OF SECOND-TERM FEES.

No. 10581.—B. Roberts and T. Rose, chimney-top.
No. 10870.—A. Smith, recovering gold.
No. 10871.—A. G. Tomkies, foot-grip for bicycle-pedals.
No. 10875.—S. and S. Priest, cycle-brake.
No. 10876.—B. Roberts and T. Rose, chimney-top.
No. 10879.—H. W. Drew and T. N. Jonas, photography on hims china, &c.

No. 10881.-G. P. and W. H. Butler, tobacco-leaf stemming. No. 10883.-

emning.
No. 10883.—P. F. M. Burrows, wire-straining reel.
No. 10885.—A. J. Cuming, branding carcases.
No. 10888.—S. G. Jameson and W. Hampson, enumerat-

ing-machine.

No. 10889.—C. F. C. Lohmann, rotary motor.

No. 10890.—H. Cooper, a combined washing board and

dolly.

No. 10891.—C. Grosvenor, production of gas from gasolene

No. 10891.—C. Grosvenor, production of gas from gastrons (J. Crook).

No. 10898.—E. Smethurst, fencing-dropper.

No. 10908.—G. M. Wright, grill.

No. 10909.—L. E. Abercrombie, abdominal support.

No. 11648.—A. Vogt, electrical resistance.

No. 11743.—J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, and A. Jörg, electrical resistance.

No. 11744.—J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, and A. Jörg, electrical heating appliance.

THROUGH NON-PAYMENT OF THIRD-TERM FEES.

No. 7840.—J. Graham and G. Watson, gorse-clipper. No. 7844.—S. and J. H. Collet, rabbit-trap. No. 7851.—E. Waters, gate (E. H. R. Evans).

F. WALDEGRAVE, Registrar.

Subsequent Proprietors, &c., of Letters Patent registered.

 ${\tt [Note.-The\ name\ of\ the\ patentee}$ is given in brackets; the date is that of registration.]

O. 14465.—J. L. Wilson, of Fairlie, Provincial District of Canterbury, in New Zealand, Baker. [J. Murray.] 18th November, 1902.

No. 14757.—The Taipo Explosives Syndicate, Limited, being a company incorporated in New Zealand under "The Companies Act, 1882," and its amendments, and having its registered office in Crawford Street, Dunedin, New Zealand. [A. McCracken.] 14th November, 1902.

F. WALDEGRAVE, Registrar.

Applications for Registration of Trade Marks.

Patent Office, Wellington, 26th November, 1902.

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

No. of application: 3994. Date: 13th November, 1902.

TRADE MARK.

The word

ACME.

NAME.

FREDERICK NATHANIEL ROBERTON MEADOWS, of 7, Featherston Street, Wellington, New Zealand. Dairy Produce Exporter.

No. of class: 42.

Description of goods: Preservative for butter.

No. of application: 3873. Date: 7th August, 1902.

TRADE MARK.



The essential particulars of this trade mark are the device and the words "Planter's Pride"; and any right to the ex-clusive use of the added matter is disclaimed.

NAME.

THE IMPERIAL TOBACCO COMPANY (OF GREAT BRITAIN AND IRELAND), LIMITED, Registered Office East Street, Bedminster, Bristol, England, Tobacco-manufacturers.

No. of class: 45.

Description of goods: Manufactured tobacco.

No. of application: 3995. Date: 13th November, 1902.

TRADE MARK.

The word

FEDERAL.

THE AUSTRALIAN EXPLOSIVES AND CHEMICAL COMPANY, LIMITED, of 356, Little Collins Street, Melbourne, in the State of Victoria, Commonwealth of Australia.

No. of class: 2.

Description of goods: Chemical substances used for agricultural, horticultural, veterinary, and sanitary pur

No. of application: 3996. Date: 13th November, 1902.

The word

TRADE MARK.

FEDERAL.

NAME.

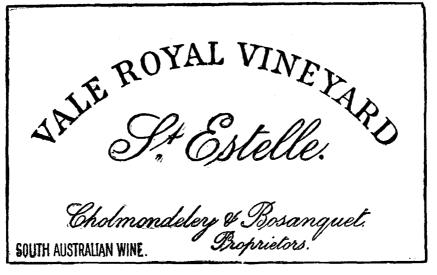
THE AUSTRALIAN EXPLOSIVES AND CHEMICAL COMPANY, LI-MITED, of 356, Little Collins Street, Melbourne, in the State of Victoria, Commonwealth of Australia.

No. of class: 20.

Description of goods: Explosive substances.

No. of application: 3687. Date: 26th February, 1902.

TRADE MARK.



The essential particulars of the trade mark are the words "Vale Royal" and "St. Estelle," and the distinctive label and any right to the exclusive use of the words "Vineyard," "South Australian Wine," "Proprietors," is disclaimed.

NAME.

CHOLMONDELEY AND BOSANQUET, of Grenfell Street, Adelaide, South Australia, Winegrowers.

No. of class: 43.

Description of goods: Wine.

No. of application: 3688.

Date: 26th February, 1902.

TRADE MARK.



The essential particulars of the trade mark are the words "Vale Royal" and "Belleblanche," and the distinctive label; and any right to the exclusive use of the words "Vineyard," "South Australian Wine," "Proprietors," is disclaimed.

NAME

CHOLMONDELEY AND BOSANQUET, of Grenfell Street, Adelaide, South Australia, Winegrowers.

No. of class: 43.

Description of goods: Wine.

No. of application: 3982. Date: 27th October, 1902.

TRADE MARK.



J.B. MACEWAN & C?

WELLINGTON, DUNEDIN, NEW PLYMOUTH SOLE AGENTS FOR NEW ZEALAND

The essential particular of this trade mark is the illustration of a beaver and the word "Beaver"; and the applicants disclaim any right to the exclusive use of the additional words excepting "J. B. MacEwan & Co."

J. BARTRAM AND Son, of Melbourne, Victoria.

No. of class: 42.

Description of goods: Preservaline, a food-preservative.

No. of application: 4001. Date: 20th November, 1902.

TRADE MARK.

The word

SOVEREIGN.

THE GOLDEN BAY CO-OPERATIVE DAIRY FACTORY COMPANY, LIMITED, of Takaka, Nelson, New Zealand.

No. of class: 42.

Description of goods: Butter, cheese, condensed milk, hams, and bacon.

No. of application: 4004. Date: 22nd November, 1902.

TRADE MARK.



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

NAME.

ADOLPHUS MARCUS HERTZBERG, ABRAHAM HERTZBERG, and BENJAMIN COHEN, of Brisbane, Queensland, trading under the name, style, or firm of "A. M. Hertzberg and Co.," Merchants

No. of class: 3.

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

Trade Marks registered.

IST of Trade Marks registered from the 12th to the 25th November, 1902, inclusive:

No. 3029; 3432.—The Keystone Watch-case Company. Class 10. (Gazette No. 71, of the 4th September, 1902.)

No. 3030; 3436.—Wailes and Co., Limited. Class 1. (Gazette No. 71, of the 4th September, 1902.)

No. 3031; 3765.—Liebig's Extract of Meat Company, Limited. Class 42. (Gazette No. 71, of the 4th September, 1902.)

No. 3032; 3797.—I. P. Clarke and Co. (Gasette No. 71, of the 4th September, 1902.)
No. 3033; 3798.—I. P. Clarke and Co. Class 23.
No. 71, of the 4th September, 1902.) Class 23.

(Gazette

No. 3034; 3799.—I. P. Clarke and Co. Class 23. (Gazette No. 71, of the 4th September, 1902.)
No. 3035; 3801.—I. P. Clarke and Co. Class 23. (Gazette No. 71, of the 4th September, 1902.)
No. 3036; 3827.—Sargood, Son, and Ewen. Class 38. (Gazette No. 71, of the 4th September, 1902.)
No. 3037; 3840.—J. Myers and Co. Class 45. (Gazette No. 71, of the 4th September, 1902.)

No. 3037; 3840.—J. Myers and Co. No. 71, of the 4th September, 1902.)
No. 3038; 3850.—Borax Consolidated, Limited. Class 1. (Gazette No. 67, of the 21st August, 1902.)

No. 3039; 3851.— Borax Consolidated, (Gazette No. 67, of the 21st August, 1902.)

No. 3039; 3851.— Borax Consolidated, Limited. Class 2. (Gazette No. 67, of the 21st August, 1902.)
No. 3040; 3852.—Borax Consolidated, Limited. Class 3. (Gazette No. 67, of the 21st August, 1902.)
No. 3041; 3872.—Horrockses, Crewdson, and Co., Limited. Class 24. (Gazette No. 67, of the 21st August, 1902.)
No. 3042; 3875.—F. L. Smidth and Co. Class 6. (Gazette No. 67, of the 21st August, 1902.)
No. 3043; 3877.—H. Jansen. Class 43. (Gazette No. 67, of the 21st August, 1902.)
No. 3044; 3915.—M. M. B. Ashwin. Class 42. (Gazette No. 71, of the 4th September, 1902.)
No. 3045; 3897.—Alaska Packers' Association. Class 42. (Gazette No. 71, of the 4th September, 1902.)
No. 3046; 3901.—J. Connell and Co. Proprietary, Limited. Class 42. (Gazette No. 71, of the 4th September, 1902.)
No. 3046; 3901.—J. Connell and Co. Proprietary, Limited. Class 42. (Gazette No. 75, of the 18th September, 1902.)
No. 3047; 3494.—Sterling Remedy Company. Class 3. (Gazette No. 75, of the 18th September, 1902.)
No. 3049; 3389.—F. Abraham and Co. Class 42. (Gazette No. 75, of the 18th September, 1902.)
No. 3050; 3895.—H. E. Partridge. Class 45. (Gazette No. 71, of the 4th of September, 1902.)
No. 3051; 3912.—W. Wylie. Class 42. (Gazette No. 71, of the 4th September, 1902.)
No. 3051; 3912.—W. Wylie. Class 42. (Gazette No. 71, of the 4th September, 1902.)
No. 3052; 3913.—The Wellington Fresh Food and Ice Company, Limited. Class 42. (Gazette No. 75, of the 18th September, 1902.)
F. WALDEGRAVE,
Registrar. Registrar.

Subsequent Proprietors of Trade Marks registered.

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

TO. 88; 3148 (1900).—The Associated Portland-cement Manufacturers, Limited, of Dixon House, 72, Fenchurch Street, London, E.C., England, Cement-manufacturers. [J. B. White and Brothers, Limited.] 17th November, 1902.

No. 171; 130.—John de Kuyper and Son, of Rotterdam, Holland, Distillers of Hollands Geneva. [J. and A. M. de Kuyper.] 20th November, 1902.

No. 1103; 841.—Homocea, Limited, of 33, King William Street, London, England, Patent-medicine Manufacturers. [H. D. Brandreth.] 17th November, 1902.

No. 1104; 842.—Homocea, Limited, of 38, King William Street, London, England, Patent-medicine Manufacturers. [H. D. Brandreth.] 17th November, 1902.

No. 1443; 1145.—Homocea, Limited, of 33, King William Street, London, England, Patent-medicine Manufacturers. [H. D. Brandreth.] 17th November, 1902.

F. WALDEGRAVE, Registrar. 7 O. 88; 3148 (1900).—The Associated Portland-cement

Registrar.

Alphabetical List of Applicants for Letters Patent for Quarter ending 30th September, 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."

Name, Address, and Invention.		Application.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Aggers, W., Auckland, N.Z. Chairs, settees, &c.	14026	21 Sept., 1901	71	4 Sept.
itken, W., Oamaru, N.Z. Water-wheel	15080	1 July	57	10 July.*
lcock, H. U., Melbourne, Vic. Settee and billiard-table	15373	6 Sept	75	18 Sept.*
lcock, H. U., Melbourne, Vic. Convertible billiard and dining table	1525 9	12 Aug	67	21 Aug.*
lexe, F., London, Eng. Barrel	15345	3 Sept	75	18 Sept.
merican Amalgamating Company, Boston, U.S.A Amalgamating	15152	23 July	99	27 Nov.
metals. (P. A. Knapp) merican Tobacco Company, New York, U.S.A. Sealed can. (W. I.	15246	14 Aug	71	4 Sont
Tuttle)	10240	14 Aug	11	4 Sept.
merican Tobacco Company, New York, U.S.A. Cigarette-wrapper and mouthpiece-machine. (S. D. S. and S. S. D. Rakowitzky)	15071	2 July	57	10 July.
merican Tobacco Company, New York, U.S.A. Machine for in-	15072	2 July	57	10 July.
serting cotton in cigarette-tubes. (S. D. S. Rakowitzky.)		v		
merican Tobacco Company, New York, U.S.A. Machine for forming cigarette-tubes. (K. Harnisch)	15073	2 July	57	10 July.
mos, F. J., and another, Christchurch, N.Z. Cycle-propelling	15433	23 Sept	78	2 Oct.*
mechanism				
nderson, J., Gisborne, N.Z. Plough nderson, J., Christchurch, N.Z. Trueing-up surface of flax-stripper	$15170 \\ 15185$	25 July 29 July	63	7 Aug.
drum	10100	29 Jul y	67	21 Aug.*
ndersson, C. O., Wellington, N.Z. Saw-set	15115	14 July	75	18 Sept.*
ndrew, G., Carlton, Vic. Cash register and indicator	14110	10 Oct., 1901	63	7 Aug.
engine	15339	1 Sept	83	16 Oct.*
ndrews, W., and another, Christchurch, N.Z. Chaff-cutter	14290	28 Nov., 1901	75	18 Sept.*
nscombe, H., and another, Dunedin, N.Z. Water-sprinkling cart rmour, J. M., Dunedin, N.Z. Making chairs, &c., collapsible	15473	30 Sept	83	16 Oct.*
rmour, J. M., Dunedin, N.Z. Combined chair, step-ladder, desk,	$15304 \\ 15287$	23 Aug 20 Aug	71	4 Sep*
and table	10401	20 Aug	••	
rmstrong, J., Auckland, N.Z. Securing cords to sashes	15449	26 Sept		
rmstrong, Sir W. G., Whitworth, and Company, Limited, Newcastle- on-Tyne, Eng. Shipping coal. (R. Wright)	15139	17 July	63	7 Aug.
rragon, M., Adelong, N.S.W. Heating buildings	15436	24 Sept	83	16 Oct.*
rthur, E. B., Wellington, N.Z. Coal-scuttle	15126	17 July	63	7 Aug.*
rthur, E. B., Wellington, N.Z. Pie-dish	15127	17 July	63	7 Aug.*
tkin, W. H., Auckland, N.Z. Smoke-consumer, &c	$15219 \\ 14015$	2 Aug	$\begin{array}{c} 71 \\ 60 \end{array}$	4 Sept.* 24 July.
mantle	1.1010	15 5004., 1501	00	24 outy.
ugust, H., Invercargill, N.Z. Closet-seat	14680	25 March	67	21 Aug.
ugust, H., Invercargill, N.Z. Closet-seat lid ugust, H., Invercargill, N.Z. Water-closet	$15142 \\ 15294$	22 July 21 Aug	$\frac{67}{78}$	21 Aug. 2 Oct.*
uldjo, L. C., Sydney, N.S.W. Steam-boiler	15102	21 Aug 10 July	60	24 July.
ustin, J. J., Auckland, N.Z. Water-tank	15171	25 July		
utomatic Aerator Patents, Limited, London, Eng. Aeration and bottling of liquids. (F. G. Hampson)	15134	16 July	63	7 Aug.
yson, A. R., Mosgiel, N.Z. Adjustable receptacle-handle	15110	11 July	60	24 July.
yson, W. S., Wyndham, N.Z. Spreader for draught-chain	15190	29 July	67	21 Aug.
aldwin, E. S., and another, Wellington, N.Z. Distributing sewage	15417	18 Sept	78	2 Oct.
on to filter-beds. (G. E. Ridgway) aldwin, E. S., and another, Wellington, N.Z. Self-flushing time-	15/10	10 Cont	70	0.0.4
valve. (G. E. Ridgway)	15418	18 Sept.	78	2 Oct.
allinger, T., Wellington, N.Z. Earth-closet	15445	25 Sept	83	16 Oct.
annister, J., and another, Auckland, N.Z. Lock	15183	24 July	67 67	21 Aug.*
arningham, S., and others, Dunedin, N.Z. Fire-escape ladder	15200 15146	30 July	67 63	21 Aug.* 7 Aug.
ate, M., Auckland, N.Z. Gold extractor and separator	15405	13 Sept	78	2 Oct.*
ayley, C. H., Boston, U.S.A. (See United Shoe Machinery Company, No. 15204.)	İ			
eale, C., London, Eng. Food-preservative	15212	2 Aug	67	21 Aug.*
eaumont, G., Kaikorai, Dunedin, N.Z. Securing bradawl to handle	15257	12 Aug	67	21 Aug.*
eaven, A. W., and another, Christchurch, N.Z. Chaff-cutter ell, G. W., Sydney, N.S.W. Road-sweeper	14290	28 Nov., 1901	75	18 Sept.
ell, J. H., and another, Thornbury, N.Z. Buckle	$15397 \\ 15258$	13 Sept	78 67	2 Oct.* 21 Aug.*
enham, E., and another, Wanganui, N.Z. Match-striker	14442	17 Jan	60	24 July.
enson, J., Hedgehope, N.Z. Combined collar and hames	15366	3 Sept.	75	18 Sept.*
erg, E., Picton, N.Z. Exploding whaling-lance ergersen, C. A., Palmerston North, N.Z. Wire-strainer	14042 15406	24 Sept., 1901	5 7	10 July.
anks, G. W., Sydney, N.S.W. Hydraulic duplex oil-brake	15352	16 Sept	99 75	27 Nov. 18 Sept.*
ohm, E., London, Eng. Globe	15076	3 July	60	24 July.
poth, H. C., London, Eng. (See Vacuum Cleaner Company, Limited, No. 15150.)		•		,
orlase, W., Dunedin, N.Z. Shear-regulator	15172	22 July	63	7 Aug.*
ors, O., Trundle, N.S.W. Sheep-shears	15420	19 Sept	78	2 Oct.*
owick, W. H., Hunterville, N.Z. Rubber heel and sole	15137	18 July		

Alphabetical List of Applicants for Letters Patent--continued.

	A	pplication.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
N. T. W.	15242	11 Aug	67	21 Aug.*
Brain, W. B., and another, Auckland, N.Z. Using heavy oils in	15329 15323	26 Aug	75 75	18 Sept. 18 Sept.*
gas engine Brain, E., and another, Auckland, N. Z . Using heavy oils in gas-	15323	26 Aug	75	18 Sept.*
engine Brasting, J., Christchurch, N.Z. Implement for breaking-up ground	15364	5 Sept	75	18 Sept.*
Brett. R. D., and another, London, Eng. Smoke-consumer	15229	7 Aug	$\frac{71}{79}$	4 Sept.
Brophy, C. M., Upper Manilla, N.S.W. Measuring skirts Brown, J. H. S., Auckland, N.Z. Heating fluids	15392 15141	10 Sept 22 July	78 63	2 Oct.* 7 Aug.*
Brown, J. P., Christchurch, N.Z. Button	15088	7 July	60	24 July. *
Brown, P. J., Little Kyeburn, N.Z. Closing leaks in gum-boots, &c.	15135 15452	16 July 26 Sept	63 83	7 Aug.* 16 Oct.*
Brundell, H. J., Dunedin, N.Z. Wire mattress	15160	24 July	63	7 Aug.*
Burgon H., Sheffield, Eng. Sheep-shears	15122	17 July	63 71	7 Aug. 4 Sept.*
Surrell, T., and another, North Melbourne, Vic. Detachable boot-	15279 15455	21 Aug 30 Sept	83	16 Oct.*
Burren, G., Wellington, N.Z. Tip-dray Butler, F. J. J., and another, Thornbury, N.Z. Buckle	15258	12 Aug	67	21 Aug.*
Dampbell, A. A., North Sydney, N.S.W. Water-heater	15391	10 Sept	78	2 Oct.*
Campbell, H. W., Invercargill, N.Z. Removable stove-flue	15216	1 Aug	67	21 Aug.*
Dampbell, J., Grove Bush, N.Z. Animal-trap Campbell, J. D., and another, Brisbane, Queensland. Dredge-bucket	15370 15437	9 Sept	75 	18 Sept.*
Sampbell, J. P., Wellington, N.Z. Electric arc-lamp. (G. West-inghouse)	15310	27 Aug	71	4 Sept.
landa, F. M., New York, U.S.A. Locking device for cams, &c	15125	17 July	63 78	7 Aug. 2 Oct.*
Parlyle, J., Waimate, N.Z. Feeding-trough Catt, G. H., Southampton, Eng. Boot-finishing machine wheels	15412 15350	18 Sept 4 Sept	75	18 Sept.*
bederman, A., Hokitika, N.Z. Dredge-bucket Chaffey, H. F., and others, Greymouth, N.Z. Gold-saving ap-	15390 15396	12 Sept 13 Sept	78 78	2 Oct. 2 Oct.*
paratus hamberlain, J., Catford, Eng. Obtaining light from gases of low	15234	6 Aug	71	4 Sept.
calorific power Chambers, J. M., Auckland, N.Z. Compressing wheel-tires. (West's Patent Tire-setter Company, Limited—J. B. West)	15078	3 July	60	24 July.
Chambers, R., New Plymouth, N.Z. Attachment to pianos to hold music-book	15188	29 July	67	21 Aug.*
Clarke, G. C., Auckland, N.Z. Gate	15434	23 Sept	78	2 Oct.
Here F de J. Wellington, N.Z. Insulating walls, &c	15273 15251	20 Aug 12 Aug	71 71	4 Sept.* 4 Sept.
Coates, E. T. R., and others, Matakohe, N.Z. Ditching-plough Coates, J. G., and others, Matakohe, N.Z. Ditching-plough	15251	12 Aug	71	4 Sept.
Coburn. S. S., Hawthorn, Vic. Field-gate	14288	28 Nov., 1901	71 67	4 Sept. 21 Aug.*
Ochrane, W. H., Otahuiti, N.Z. Yoking horses Ockburn, J. A., and others, Lewisham, N.S.W. Spark-arrester	15189 15167	29 July 24 July	63	7 Aug.*
Colling E. Invergerall N.Z. Hedge-clipper	15231	7 Aug	67	21 Aug.*
Collins, W. A., Wanganui, N.Z. Holding leg of cow Collins, W. E., and another, Wanganui, N.Z. Compressing en-	15425 15376	19 Sept	78 78	2 Oct.* 2 Oct.*
silage Collins, W., Waiwera, N.Z. Animal-trap	15255 15435		67 ••	21 Aug.*
(A. C. Whitney) Coltman, R. H., Hunterville, N.Z. Silt-ejector for tank Combes, F. H., and another, Auckland, N.Z. (See A. H. Nathan,	15281	22 Aug	78	2 Oct.
No. 15403.) Cometti, A., Wellington, N.Z. Electric trotting-race starter	14239		78	2 Oct.
Conroy, E., Ballina, N.S.W. Propeller	15444 15416		83 78	16 Oct.* 2 Oct.*
Conyers, E. A., Melbourne, Vic. Bed-pan			75	18 Sept.
Powell) Cook, F., and another, Foxton, N.Z. Filtering apparatus Cooper, A., Wellington, N.Z. Vehicle-wheel lock	1 1 5000		63 67	7 Aug. 21 Aug.*
Copeland, L. D., and another, Los Angeles, U.S.A. Utilising heat from slag	15424		78	2 Oct.
Cosslett, R., Auckland, N.Z. Tap	15318	28 Aug.	67 75 78	21 Aug. 18 Sept.* 2 Oct.*
Coulthard, T. W., Mangapai, N.Z. Box for carriage of eggs	15404		63	7 Aug.
Cowan, J., Edinburgh, Scotland. Water-tube boiler Cowley, J. T., Lowell, U.S.A. (See Lamson Store Service Company Limited, No. 14549.)	•			
Cowper, F. H. W., Christohurch, N.Z. Damper for letter-copying (T. N. Rayward)	15400		78 83	2 Oct.* 16 Oct.
Cox, J. New Glenelg, S.A. Drilling and boring apparatus Cozens, G., and another, Auckland, N.Z. Closet	15395	13 Sept		
Crawford, B., and another, Auckland, N.Z. Ventilator	1 4 2 4 4 2		87 78	30 Oct. 2 Oct.*
Cresswell, R., Marlborough, N.Z. Finger for reaping-machine, &c.	14133	18 Oct., 1901	63	7 Aug.
Oross, C., Waitangi, N.Z. Platform for bushfelling	15450 15214		83 67	16 Oct. 21 Aug.*
	15439		83	16 Oct.*

Alphabetical List of Applicants for Letters Patent—continued.

	A	pplication.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Currie, F., and another, Mount Eden, N.Z. Snatch-block	15252	12 Aug	67	21 Aug*
Curtis, R., Ongarue, N.Z. Suspender	15083	1 July	∫ 71	4 Sept.*
Cutten, F. A., Dunedin, N.Z. Securing bush to tumbler-shaft of bucket-dredge	į	25 July	78	2 Oct.
Dade, H. E., New York, U.S.A. Binder for loose sheets of paper Danks, T., Christchurch, N.Z. Chamber utensils Danks, T., Christchurch, N.Z. Bending sheet-metal tubes Darby, T. C., T. A., and S. C., Wickford Junction, Essex, Eng. Implement for breaking-up land Davenport, E. F. Melrose, U.S.A. (See United Shoe Machinery	15356 15382 15314	4 Aug 4 Sept 9 Sept 27 Aug	75 75 83 ••	18 Sept. 18 Sept.* 16 Oct.
Company, No. 15203.) Davidson, W. L., Cheviot, N.Z. Preventing extraction of letters	15105	10 July	60	24 July.*
from letter-boxes Davis, A. F., San Francisco, U.S.A. Detachable boot-heel. (M. L. Hansen)	15336	30 Aug	75	18 Sept.
Davis, G. F. F., and another, Christchurch, N.Z. Plate Davy, K., Wanganui, N.Z. Umbrella Deane, T., Christchurch, N.Z. Packing tea, &c. De Mole, L. E., Brighton, Vic. Automatically operating telephone exchange	15300 15173	18 July 16 Aug 24 July 4 Sept	63 71 63 75	7 Aug.* 4 Sept.* 7 Aug.* 18 Sept.*
Desmond, W., Outram, N.Z. Lamp-bracket Diddams, W. H., Greytown North, N.Z. Vehicle mud-guard Dimant, E., Melbourne, Vic. Divided sole for boots, &c Donkin, H., Wellington, N.Z. Collapsible butter, &c., box Douglas, A., Otahuhu, N.Z. Candle-stick Dudley, J. D., Pukerau, N.Z. Gold-saving appliance Dunbar, A., South Melbourne, Vic. Feed-water heater. (J. Mac-	15278 15297 15101 15186 15227 14001 15157	21 Aug	78 71 60 67 67 57 63	2 Oct.* 4 Sept.* 24 July.* 21 Aug.* 10 July. 7 Aug.*
artney) Dunne, R., Dunedin, N.Z. Mitre-cutting machine Dunne, R., Dunedin, N.Z. Mitre-cutting machine Dunne, R., Dunedin, N.Z. Hinge	15243 15176 15138	8 Aug 23 July 17 July	67 63 63	21 Aug.* 7 Aug.* 7 Aug.*
Earle, M., Gisborne, N.Z. Knife-cleaner	15235 15077 15384 15251 15274 14317	2 Aug 3 July	67 63 78 71 71 75	21 Aug.* 7 Aug. 2 Oct. 4 Sept. 4 Sept.* 18 Sept.
Erickson, J., and others, Chicago, U.S.A. (See Strowger Automatic Telephone Exchange, No. 15422.) Erickson, C. J., and others, Chicago, U.S.A. (See Strowger Automatic Telephone Exchange, No. 15422.) Esse, C. E. A., Ormskirk, Eng. Inner tube of tire Evans, W. J., and another, Brisbane, Queensland. Dredge-bucket	15121 15 1 37	17 July 24 Sept	63	7 Aug.
Fairbanks, Morse, and Co., Chicago, U.S.A. Gas-generator. (F. G.	15442	25 Sept	83	16 Oct.
Hobart) Fennessy, T., Port Melbourne, Vic. Roller for swampy ground, &c. Fessenden, R. A., Manteo, U.S.A. (See E. Waters, jun., Nos.	15075	3 July	60	24 July.*
15374, 15375, 15394.) Fiddes, J. A., Dunedin, N.Z. Propelling, &c., boats Firth, T., Wellington, N.Z. Wheel-lock Firth, T., Wellington, N.Z. Wheel-lock Flameless Gaslight Company, Limited, London, Eng. Incandescence gas or vapour lighting. (W. Hooker)	15432 15369 15223 15124	23 Sept 9 Sept 6 Aug 17 July	78 75 67 63	2 Oct.* 18 Sept.* 21 Aug. 7 Aug.*
Fleming, M. W., Milton, N.Z. Portable truck and hoist Fleming, W. M., Milton, N.Z. Goods-elevator Foley, M., and others, Auckland, N.Z. Advertising Foreign McKenna Process Company, Milwaukee, U.S.A. Reshaping	15408 15335 15184 15327	13 Sept 30 Aug 25 July 26 Aug	78 75 71 75	2 Oct.* 18 Sept.* 4 Sept.* 18 Sept.
rolled products. (D. H. Lentz.) Forwood, H., and others, Christchurch, N.Z. Securing hat to head Fowler, J., Whangarei, N.Z. (See T. W. Coulthard, No. 15404.)	15464	29 Sept	83	16 Oct.
Francis, J., Waltham, N.Z. Cramp for match-boarding Fraser, J., Feilding, N.Z. Rheumatics cure	15108 15371	11 July 9 Sept	75	18 Sept.*
Freeth, J. C., and another, Tauranga, N.Z. Fire-escape	14079	28 Sept., 1901	57	10 July.
Galbraith, D. R. S., Auckland, N.Z. New milk food Gare, G. W., and another, Waipori, N.Z. Removing clay from	15368 15175	6 Sept 23 July	75 63	18 Sept.* 7 Aug.*
dredge-bucket Garrard, C. G., Birmingham, Eng. Cycle-driving gear Garratt, T. A., Lyttelton, N.Z. Non-refillable bottle Garrett, W. A., Auckland, N.Z. Wire mattress Gaudet, F. M., London, Eng. Target	15149 15326 15357 15068 15218	23 July 26 Aug 3 Sept 2 July 1 Aug	67 75 83 57 67	21 Aug. 18 Sep.* 16 Oct. 10 July. 21 Aug.*
George, G., Rangiora, N.Z. Bottle Gibbons, W. G., Leytonstone, Eng. Washing-machine	15192 14036	28 July 4 April, 1901	67 60	21 Aug.* 24 July.

Alphabetical List of Applicants for Letters Patent—continued.

Name, Address, and Invention.		pplication.	Gazette.		
Name, Address, and Invention.	No.	Date.	No.	Date.	
bbs, R. W., and another, Nelson, N.Z. Truss fford, G. H., Lynn, Massachussetts, U.S.A. (See United Shoe Machinery Company, No. 15228.)	15381 15253	8 Sept 15 Aug	78 83	2 Oct. 16 Oct.*	
les, F., St. Kilda, Vic. Roofing nail and screw	15247 15196 15303	14 Aug 28 July 22 Aug	71 67 71	4 Sept.* 21 Aug.* 4 Sept.*	
oss, W. G., Lower Hutt, N.Z. Exhausting air ossling, P. J., Dunedin, N.Z. Cigar-cutter, match-holder, and advertising device	15324 15256	29 Aug 12 Aug	75 67	18 Sept.* 21 Aug.*	
ossling, P. J., Dunedin, N.Z. Hairdresser's rack, &c	15217 15100	1 Aug 10 July	67 60	21 Aug.* 24 July.	
aham, J. M., Gore, N.Z. Fire-alarm ay, A., Manapouri Station, N.Z. Claw-hammer and staple- drawer	15407 15265	17 Sept 15 Aug	78 71	2 Oct.* 4 Sept.*	
ay, A., Manapouri Station, N.Z. Saddle tool-bag ay, A., Manapouri Station, N.Z. File, wire-twister, and rule ayson, L. W., and another, Melbourne, Vic. Rowing machine for physical exercise	15266 15267 15439	15 Aug	71 71 83	4 Sept.* 4 Sept.* 16 Oct.*	
cindrod, C. E., and others, Kingston, N.S.W. Spark-arrester ciswold, N. W., Honolulu, Hawaii. Watering trough	15167 15089 15268 15341	24 July 5 July 15 Aug 2 Sept	63 63 71 75	7 Aug.* 7 Aug. 4 Sept. 18 Sept.*	
aar, F., Ashburton, N.Z. Sewing-palm	14333	16 Dec., 1901	71	4 Sept.	
Company, No. 15208.) amilton, J. A., St. Peter's, S.A. Concentrating, &c., table ammond, H., Aratapu, N.Z. Preventing rubbish passing into tanks	15421 15129	19 Sept 18 July	78 71	2 Oct.* 4 Sept.	
ampson, F. G., Chelsea, Eng. (See Automatic Aerator Patents, Limited, No. 15134.) ancock, J. N., Centre Bush, N.Z. Envelope anley, J., Gore, N.Z. Car-coupling ansen, M. L., San Francisco, U.S.A. (See A. F. Davis, No. 15336.) arnish, K., St. Petersburg, Russia. (See American Tobacco Company, No. 15073.)	15269 15289	18 Aug 19 Aug	71 71	4 Sept.* 4 Sept.*	
arvey, W., Auckland, N.Z. Milk-straining pan eatley, G. S., Morpeth, Eng. Bedstead and mattress	15299 15283 15154 15197 14351 15032 15400 15092	22 Aug	71 71 63 71 63 60 78 60	4 Sept, 4 Sept. 7 Aug. 4 Sept.* 7 Aug. 24 July. 2 Oct.* 24 July.	
ore-pulp icks, T. H., Fort Wayne, U.S.A. Recovering gold from refractory	15093	10 July	60	24 July.	
ores icks, T. H., Fort Wayne, U.S.A. Separating mercury from amal- gam	15094	10 July	60	24 July.	
icks, T. H., Fort Wayne, U.S.A. Ore concentrator	15095 15096 15454	10 July 10 July 25 Oct	60 60 94	24 July. 24 July. 13 Nov.	
odder, C. N., and another, Greymouth, N.Z. Office ruler and blotting-pad	15128	14 July	63	7 Aug.*	
ollis, R., and others, Newtown, N.S.W. Spark-arrester olmes, R. R., and another, Auckland, N.Z. Wire-strainer, &c ooker, W., London, Eng. (See Flameless Gas-light Company, Limited, No. 15124.) ooley, T., Stockport, Eng. (See The Linotype Company, Limited,	15167 15253	24 July 15 Aug	63 83	7 Aug.* 16 Oct.*	
No. 15414.) opkirk, J., and another, Hawera, N.Z. Support-bearing for shaft ornby, F., Liverpool, Eng. Toy or educational device for the young oskins, G. J., Sydney, N.S.W. Joint for pipe ughan, G., Carterton, N.Z. Handle for milk-can umble, W. H., Geelong, Vic. Valve for gas-compressor umphreys, A. W., Wellington, N.Z. Cycle, &c., brake unt, F. M., Christchurch, N.Z. Preservative for butter unter, J. T., Wellington, N.Z. Electric motor. (B. G. Lamme) unter, J. T., Wellington, N.Z. Incandescent mantle. (Plaissetty Mantle Syndicate, Limited—A. M. Plaisetty) urley, G. A., and another, Wellington, N.Z. Gold-saving appliance ylard, J., St. Kilda, Vic. Detecting and indicating gas in mine	15147 14407 15386 14145 15286 15215 15295 15070 15312 15220 15320	20 Aug	71 78 63 71 67 75 57 71	4 Sept. 2 Oct. 7 Aug. 4 Sept. 21 Aug. 18 Sept.* 10 July. 4 Sept. 4 Sept.*	
ylard, J., St. Kilda, Vic. Detecting and testing gas in mine nes, N. C., Awatuna East, N.Z. Running-out barb-wire ternational Ore-separating Company, Boston, U.S.A. Separating	15191	29 July	75 71 63	18 Sept.* 4 Sept.* 7 Aug.	
ore-pulp. (H. F. Campbell)					

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT—continued.

ALPHABETICAL LIST OF APPLICANTS FOR LI	etters P	'ATENT—continued	•	
Name Address and Invention	A	pplication.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Jackson, G. C., and others, Tuparoa, N.Z. Dust, &c., excluder for	15222	5 Aug	67	21 Aug.*
doors Jackson, J. B., Gisborne, N.Z. Earth-scoop	14306	4 Dec., 1901	75	18 Sept.
Jennings, E., and others, Christchurch, N.Z. Securing hat to head	15464	29 Sept	83	16 Oct.
Jervis C. L. Newark-on-Trent, Eng. Potato and seed planter	15453	25 Sept	83	16 Oct. 18 Sept.*
Jesson, W. G., Christchurch, N.Z. Driving-mechanism for cycles Juriss, W., Christchurch, N.Z. Building-brick	$15346 \\ 15411$	2 Sept	75 78	2 Oct.*
Johnson, J. T., Waipori, N.Z. Driving dredge by water-power	15086	3 July	63	7 Aug.*
Johnson, J., Dunedin, N.Z. Pneumatic foot	15199	30 July	67	21 Aug.*
Johnston, A., Devonport, N.Z. Electric-alarm thermometer Jones, A., Onehunga, N.Z. Verandah roof, window-shutter, and sun-	$15332 \\ 14123$	28 Aug	75 60	18 Sept.* 24 July.
shade	11120	10 000., 1001	00	
Jones, H. J., Stratford, N.Z. Liquid seal cover	14749	17 April	78	2 Oct.
Keamy, E. N., Auckland, N.Z. Dumb-bell	$15271 \\ 14052$	19 Aug	71	4 Sept.
Kelly, R. D., Pigeon Bay, N.Z. Outrigger draw-gear Keith, A. E., and others, Chicago, U.S.A. (See Strowger Automatic	15254	15 Aug	67	21 Aug.*
Telenhone Exchange, No. 15422.)	15151	23 Jul y	67	21 Aug.
Kennedy, R., and another, Glasgow, Scotland. Milking apparatus Keon, W. H., and another, Dunedin, N.Z. Fire-escape	15261	23 July 15 Aug	78	2 Oct.*
Keon, W. H., Dunedin, N.Z. Pipe coupling	15349	4 Sept	75	18 Sept.*
Keon, W. H., and another, Dunedin, N.Z. Water-closet cistern	15262	15 Aug	78	2 Oct.*
Kernbaum, J. P., South Yarra, Vic. Mail-bag lock Kerr, J., Yering, Vic. Milk-strainer	$\begin{array}{c} 14111 \\ 15292 \end{array}$	10 Oct., 1901	63 71	7 Aug. 4 Sept.*
Von T Voning Via Milk cooler	15293	23 Aug	71	4 Sept.*
Kays R. J. Oamaru, N.Z. Patty-pan	15342	2 Sept.	75	18 Sept.
Keyte, R., Whangarei, N.Z. Indicating change in temperature Kilburn, J. F., Toorak, Vic. Wire strainer	14198 15123	6 Nov., 1901	67 63	21 Aug. 7 Aug.*
Killingsworth, F. H., and another, Christchurch, N.Z. Boot, &c.,	15305	25 Aug	71	4 Sept.*
polisher				1
Knapp, P. A., Grantville, U.S.A. (See the American Amalgamating Company, No. 15152.)				
Laffey, J., and another, Dunedin, N.Z. Fire-escape and extinguisher Laffey, J., and another, Dunedin, N.Z. Fire-escape, extinguisher,	15116 15155	14 July 21 July	63 63	7 Aug.* 7 Aug.*
and alarm Lambert, F., Waikaremoana, Hawke's Bay, N.Z. Tension bridge Lambert, F., Waikaremoana, Hawke's Bay, N.Z. Canal for harbour	15238 15240	8 Aug 8 Aug	67 67	21 Aug.* 21 Aug.*
Lamme, B. G., Pittsburg, U.S.A. (See J. T. Hunter, No. 15070.) Lamson Store Service Company, Limited, London, Eng. Cash-	14549	20 Feb	71	4 Sept.
carrier. (J. T. Cowley) Langstone, C. W., Wellington, N.Z. Plug-brick Lashlie, C., Christchurch, N.Z. Hat and clothes brush	15272 15365	20 Aug 5 Sept	71 75	4 Sept.* 18 Sept.*
Lawless. (See under Massey-Lawless.) Lawrence, W. H., and another, Glasgow, Scotland. Milking apparents	15151	23 July	67	21 Aug.
paratus Lawrence, W. H., Christchurch, N.Z. Bench for pot plants	14264		60	24 July.
Lee, W., and another, Dunedin, N.Z. Breaking clay in sluice-boxes				21 Aug.*
Leitch, W., Malvern, Vic. Manufacture of sweetmeats Lentz, D. H., Joliet, U.S.A. (See Foreign McKenna Process Com-	15158	24 July	63	7 Aug.
pany. No. 15327.)				
Lindsay, J., Burnside, N.Z. Rabbit-crate Linotype Company, Limited, London, Eng. Printing in gold, &c.,	15367 15414	8 Sept 18 Sept	75 78	18 Sept.* 2 Oct.
powders. (T. Hooley) Loader, C. A., Dunedin, N.Z. Spraying-machine	14313	4 Dec., 1901	75	18 Sept.
Lodge, O. J., and others, Birmingham, Eng. Receiver for wireless telegraphy	15383	11 Sept	78	2 Oct.
Lorie, A. F. W., Dunedin, N.Z. Sash-fastener	15145	19 July	$\begin{cases} 63 \\ 78 \end{cases}$	7 Aug.* 2 Oct.
Love, J. T., Wellington, N.Z. Milk-can lid	15250	14 Aug	67	21 Aug.*
Lowrey, L. E., and another, Auburn, Vic. Advertising attachment			60	24 July.*
to incandescent lamps Ludbrook, E. R., and others, Tuparoa, N.Z. Dust, &c., excluder for	15222	5 Aug	67	21 Aug.*
doors Ludington, F. J., Waterbury, U.S.A. (See United Cigarette-machine	1			
Company, No. 15249.) Luxford, E. H., Fitzroy, Vic. Combined mattress or bed and bolster		4 Sept	75	18 Sept.*
Macartney, J., Sydney, N.S.W. (See A. Dunbar, No. 15157.) Macdonald, St. C. N. H., Auckland, N.Z. Rotary engine	15132	18 July	63	7 Aug.*
Macky, J. J., Auckland, N.Z. Nut-lock	15280	19 Aug	71	4 Sept.*
Maclean, J., Wanganui, N.Z. Horse-cover	13906	, ,	I 75	21 Aug. 18 Sept.*
Mallett, J., Devonport, N.Z. Spark-arrester	15315	27 Aug	13	To Sahe.
Manson, T. H., and another, Nelson, N.Z. Truss	15381			2 Oct.
Marriott, W., and another, Wanganui, N.Z. Match-striker	14442		00	24 July.
Maslin, É., Marseilles, France. Steam-boiler furnace	15079 15372			24 July. 18 Sept.
Mason, J. B., Dunedin, N.Z. Concentrating-table Mason, J. J., Timaru, N.Z. Wash tub, and empyting same	15181			4 Sept.*
Massey-Lawless, H. J. K., and another, Wingatui, N.Z. Apparatus			671	4 Sept.*
for boiling eggs Massey, A. J., Gisborne, N.Z. New indoor game	15107	11 July	60	24 July.*
Massie, J. G., Belleville, U.S.A. Illuminating compound	1 7 7 0 0 0		617	21 Aug.

Alphabetical List of Applicants for Letters Patent—continued.

Name, Address, and Invention.		Application.	Gazette.		
	No.	Date.	No.	Date.	
Maxted, T. D'A. C., Blenheim, N.Z. Closet-seat lid	15409	15 Sept	78	2 Oct.*	
Aay, H., and another. Meningie, S.A. Sheen-shears	15161	24 July	1 00	7 Aug.*	
Mayo, B. F., Salem, U.S.A. (See United Shoe Machinery Company, No. 15413.)			1		
IcArthur, D. W., Paeroa, N.Z. Paper-feeder for typewriter	15430	23 Sept	78	2 Oct.*	
AcCormack, T., and others, Dunedin, N.Z. Fire-escape ladder		19 July	63	7 Ang.	
IcDonald, H. E., Wellington, N.Z. Vehicle-wheel	15389	12 Sept	78	2 Oct.*	
IcDonald, H. E., Wellington, N.Z. Cuff protector IcGee, T., Ashburton, N.Z. Sheep-shears	15448	26 Sept	83	16 O t.*	
Indianten H. Dandurale N. C. W. Tiller I	15066	1 July	57	10 July.*	
for the following for the foll	15410 15344	18 Sept	78	2 Oct.*	
iction, J. F., Dunedin, N.Z. Preventing loss of dredge-bucket on	15082	3 Sept 2 July	75 60	18 Sept.* 24 July.*	
breaking of a connection				24 oury.	
IcKay, J., Kilmore, Vic. Target score-indicator IcKenzie, A. W., and another, Timaru. Opening bivalves	15354	4 Sept	75	18 Sept.*	
lakangia T D and anathan Missaura A	15239	8 Aug.	67	21 Aug *	
Ichellan N. R. Rannoakhuun N. Z. Daan ustainan	$\begin{array}{c c} 15239 \\ 15428 \end{array}$	8 Aug	67	21 Aug.*	
IcLennan, T. C., and another, Belfast, N.Z. Non-refillable bottle	15085	19 Sept 5 July	78 60	2 Oct.*	
cLennan, T. C., and another, Belfast, N.Z. Non-refillable hottle	15106	9 July	60	24 July.* 24 July.*	
IcLeod, H. N., and another, Wellington, N.Z. Gold-saving ap-	15220	5 Aug.	71	4 Sept.*	
paratus	1			1	
IcMillan, T., Wylie's Crossing, N.Z. Window-blind	15427	20 Sept	78	2 Oct.*	
icNeill, J. K., and another, Wanganui, N.Z. Compressing ensilage	15377 15376	Sept	75	18 Sept.*	
letcalfe, W. H., Marrickville, N.S.W. Manufacturing manure from	15313	27 Aug	78 75	2 Oct. 18 Sept.	
waste animal material			"	Lo cope.	
letters, J. T., and another, Melbourne, Vic. Open fire-grate cetters, C. H., and another, Melbourne, Vic. Open fire-grate	15098	10 July	60	24 July.*	
liddleton, J., and another, Christchurch, N.Z. Cream cooler and	15098	10 July	60	24 July. *	
agitator	14370	23 Dec., 1901	75	18. Sept.	
iller, F. A., Lawrence, N.Z. Lifting-jack	15388	12 S-pt	78	2 Oct.	
iller, W. O., and another, Roslyn, N.Z. Fire-escape	15261	15 Aug	78	2 Oct.*	
iller, W. O., and another, Roslyn, N.Z. Water closet cistern	15262	15 Aug	78	2 Oct.*	
itchell, G., and another, Arizona, U.S.A. Utilising heat from slag	15424	19 Sept	78	2 Oct.	
ole, de. (See under "De.") ontague, F., and another, Dunedin, N.Z. Fire escape and ex-	15110	14 7-1-	00		
tinguisher	15116	14 July	63	7 Aug.*	
ontague, F., and another, Dunedin, N.Z. Fire escape, extinguisher,	15155	21 July	63	7 Aug.*	
and alarm	10100	21 0 d.j	00	/ Aug.	
oronev, J., Hastings, N.Z. Girth and surcingle	14629	15 March	60	24 July.	
oyes, J. A., and another, Hawera, N.Z. Support bearing for shaft uirhead, A., and others, Shortlands, Eng. Receiver for wireless	15147	23 July			
telegraphy	15383	11 Sept	78	2 Oct.	
umford, F. T., Kalgoorlie, W.A. Electrolytical treatment of ores	14228	14 Nov., 1901	67	21 Ang	
and slimes			"	21 11.16	
unro, J., and another, Wellington, N.Z. Potato-chipper	15402	16 Sept	78	2 Oct.	
unro, P. J. H., and another, Tauranga, N.Z. Fire-escape urray, A. C., Cromwell, N.Z. Frying pan lid and strainer	14079	28 Sept., 1901	57	10 July.	
urray, A. C., Cromwell, N.Z. (See A. J. Park, No. 15361.)	14120	14 Oct., 1901	63	7 Aug.	
urray, J., Fairlie, N.Z. Clothes line and peg	14465	24 Jan	63	7 Aug.	
				, mug.	
athan, A. H., Auckland, N.Z. Packing tea, &c. (F. H. Combes	15403	16 Sept.	78	2 Oct.*	
and W. F. Tucker) eagle, J., Dannevirke, N.Z. Lead-bag for racehorse	1 4000			_	
thery, J. W., Indianapolis, U.S.A. (See H. L. Wallace, No. 15423.)	14398	4 Jan	71	4 Sept.	
eustadt, M., Sydney, N.S.W. Delivering disinfectant to charge of	15210	2 Aug	67	21 Aug.	
water. (J. L. Wade)	10210	z Aug	01	21 Aug.	
chol, G. M., Campbelltown, N.Z. Bicycle-pedal	15140	17 July	63	7 Aug.*	
cholas, C. E., Matlock, Vic. Steam-condenser	14583	6 March	60	24 July.	
cholson, H. A., Bluff, N.Z. Oil and gas motor	15290	19 Aug	71	4 Sept.*	
col, W., and another, Invercargill, N.Z. Candlestick col, W., Invercargill, N.Z. Race starter and timer	15179	24 July	67	21 Aug.*	
· · · · · · · · · · · · · · · · · · ·	14014	19 Sept., 1901	67 (63	21 Aug.	
col, W., and another, Invercargill, N.Z. Candlestick	15119	11 July	75	7 Aug.* 18 Sept.	
col, W., Invercargill, N.Z. Hair-curler	15288	18 Aug	71	4 S-pt.*	
col, W., and another, Invercargill, N.Z. Candlestick	15308	22 Aug.	$7\overline{1}$	4 Sept *	
colson, S., Gore, N.Z. Knife cleaner and sharpener	15276	20 Aug	71	4 Sei t.*	
ghtingale, A., Auckland, N.Z. Couch orth, T. W., Christchurch, N.Z. Horse-collar	15156	22 July	63	7 Aug.*	
orth, T. W., Onristenurch, N.Z. Horse-collar	15380 15464	11 Sept	75	18 Sept.	
,, Dooding nav so nessu	10404	29 S.pt	83	16 Oct.	
Connell, E. T., and others, Dunedin, N.Z. Fire-escape ladder	15146	19 July	63	7 Aug.	
ering, J. W., and another, Christchurch, N.Z. Connecting	15177	26 July	63	7 Aug.	
bicycles with trailed carriage	15300	25.4			
ering, J. W., and another, Christchurch, N.Z. Motor attachment to bicycles	15306	25 Aug	75	18 Sept.*	
		1			
erenshaw, W., and another Dunedin N Z (See A W Da.)	1				
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.)			63	7 Aug.	
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) r, J., jun., Temuka, N.Z. Holding bags for filling	15120	14 July	(4)		
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) r, J., jun., Temuka, N.Z. Holding bags for filling	15120 15153	14 July 23 July	63	7 Aug.*	
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) r, J., jun., Temuka, N.Z. Holding bags for filling		00 T1.			
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) r, J., jun., Temuka, N.Z. Holding bags for filling	15153	23 July	63	7 Aug.*	
lerenshaw, W., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) r, J., jun., Temuka, N.Z. Holding bags for filling		00 T1.			

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT—continued.

Name Address and Invention		Application.	Gazette.		
Name, Address, and Invention.	No.	Date.	No.	Date.	
Park, A. J., Dunedin, N.Z. Chimney. (R. W. England)	14330	11 Dec., 1901	75	18 Sept.	
Park, A. J., Dunedin, N.Z. Chair. (A. C. Murray)	15361	5 Sept	75	18 Sept.*	
Parker, A. W., Auckland, N.Z. Electric railway	15446	20 Sept	83	16 Oct.*	
Parker, J., and others, Auckland, N.Z. Advertising Parsons, Hon. C. A., Newcastle-on-Tyne, Eng. Marine steam-turbine	$\frac{15184}{15351}$	25 July 4 Sept	$\begin{array}{c} 71 \\ 75 \end{array}$	4 Sept.* 18 Sept.	
Paterson, F. W., Dunedin, N.Z. Vote-recorder	15174	23 July	63	7 Aug.*	
Payne, F. W., Dunedin, N.Z. Tailings-elevator	15343	30 Aug	78	2 Oct.	
Pearson, G. L., Lincoln, N.Z. Boring and artesian-well driving Peek, T. G., and others, Auckland, N.Z. Fire-escape	$14904 \\ 15387$	23 May 8 Sept	63 78	7 Aug. 2 Oct.*	
Pegler, F., Greymouth, N.Z. Blackboard-easel	14825	29 April	60	24 July.	
Penny, C. W., Te Akatea, N.Z. Pearl-fishing boat	15275	20 Aug	71	4 Sept.*	
Pepperell, J. W., and another, Belfast, N.Z. Non-refillable bottle. Pepperell, J. W., and another, Belfast, N.Z. Non-refillable bottle.	15085 15106	5 July 9 July	60 60	24 July.* 24 July.*	
Perdriau, E. C., and another, Melbourne, Vic. Detachable boot- sole	15279	21 Aug	71	4 Sept.*	
Perks, J., and another, Christchurch, N.Z. Attachment to range	15136	15 July	63	7 Aug.*	
Peterson, P., Timaru, N.Z. Life-saving appliance. (L. Rosengren)	$\frac{15338}{15322}$	1 Sept 28 Aug	83 7 5	16 Oct. 18 Sept.*	
Pfaff, A., Melbourne, Vic. Preserving eggs	15226	7 Aug	67	21 Aug.*	
Phillips, E., Melbourne, Vic. Explosive. (E. Steele)	14160	24 Oct., 1901	60	24 July.	
Philpott, T. S., Wellington, N.Z. Non-refill bottle Pinnock, J. M., Waikouaiti, N.Z. Malted food	14050	25 Sept., 1901	63	7 Aug.	
Plaissetty Mantle Syndicate, Limited, London, Eng. (See J. T. Hunter, No. 15312.)	15114	11 July	63	7 Aug.*	
Plaissetty, A. M., Paris, France. (See J. T. Hunter, No. 15312.)					
Pomeroy, J., North Invercargill, N.Z. Fountain pen Porter, J. W., Williamstown, Vic. Operating moving target	15087	3 July	60	24 July.*	
Potter, F. S., Auckland, N.Z. Vehicle-spring	$15230 \\ 15144$	7 Aug 17 July	67 63	21 Aug.*	
Powell, J. H., Caulfield, Vic. Indoor table game	15224	4 Aug	67	21 Aug.*	
Powell, E. A., North Fitzroy, Vic. (See W. Conyers, No. 14322.)	17100	10.7.1	40		
Poynter, J. B., Wellington, N.Z. Picking up balls Purvis, J., and another, London, Eng. Artificial stone	15133 15069	18 July 2 July	63 5 7	7 Aug.* 10 July.	
Quilter, T. F., and another, Waipori, N.Z. Removing clay from dredge-bucket	15175	23 July	63	7 Aug.*	
 Rakowitzky, S. S. D., and another, Vilna, Russia. (See American Tobacco Company, No. 15071.) Rakowitzky, S. D. S., Vilna, Russia. (Sεe American Tobacco Company, No. 15072.) Rawson, P., and another, Christchurch, N.Z. Boot-polisher Rayson, P., Elsternwick, Vic. Spanner attachment	15305 15159	25 Aug 24 July	71 63	4 Sept.* 7 Aug.	
Raymond, K., Invercargill, N.Z. Hair-curler Rayward, H. H., and another, Wellington, N.Z. Distributing sev-	$\frac{15111}{15417}$	8 July 18 Sept	60 78	24 July.* 2 Oct.	
age into filter-beds. (G. E. Ridgway) Rayward, H. H., and another, Wellington, N.Z. Self-flushing time- valve. (G. E. Ridgway)	15418	18 Sept	78	2 Oct.	
Rayward, T. N., London, Eng. (See F. H. Cowper, No. 15431.) Reece, W., and others, Christchurch, N.Z. Securing hat to head	15464	00 04	00	10.0	
Reeves, A. E., and another, Mataura, N.Z. Fiax-scutcher	15464 14034	29 Sept 21 Sept., 1901	83 75	16 Oct. 18 Sept.	
Reid, W. G., and another, Dunedin, N.Z. Secateur	15200	30 July	67	21 Aug.*	
Reilly, J. G., Melbourne, V.c. Window sash-fastener	15441	25 Sept	83	16 Oct.*	
Restorck, E. J., Richmond, Vic. Attaching woven-wire to be steads Ridgway, G. E., Brentwood, Eng. (See E. S. Baldwin and H. H. Rayward, Nos. 15417, 15418.)	15168	24 Feb.†	63	7. Aug.*	
Riley, W. T., Sydney, N.S.W. Woven-wire mattress	14219	14 Nov., 1901	60	24 July.	
Rillstone, C., Dunedin, N.Z. Spark-preventer, &c. Risstrom, E. O., Rushworth, Vic. Showstand for axe, &c.	15112	8 July	60	24 July.*	
Robb, G. M., Potts Point, N.S.W. (See A. K. Smith, No. 15393.)	15385	11 Sept	78	2 Oct.	
Roberts, H., and another. Auckland, N.Z. Lock	15183	24 July	67	21 Aug.*	
Roberts, L., Dunedin, N.Z. Dress-cutting chart	15241	6 Aug	67	21 Aug.*	
Robertson, C. M., Christchurch. N.Z. Hair-restorer Robertson, L. D., Sandymount, N.Z. Spring hook	$15194 \\ 15328$	31 July 26 Aug	67 75	21 Aug.* 18 Sept.*	
Robertson, J. P., North Sydney, N.S.W. Electric fire-alarm	15165	24 July	71	4 Sept.	
Robeitson, M. J., Geelong, Vic. Cash-carrier Robinson, E. E., and others, Birmingham, Eng. Receiver for wire-	15277 15383	21 Aug 11 Sept	71 78	4 Sept. 2 Oct.	
less telegraphy Robinson, H. A., and another, Dunedin, N.Z. Wire mattress and bedstead	15333	30 Aug	75	18 Sept.*	
Robinson, S., and another, Dunedin, N.Z. Wire mattress and bed- stead	15333	30 Aug	75	18 Sept.*	
Rogers, J., and another, Greymouth, N.Z. Ruler and blotting-pad	15128	14 July	63	7 Aug.*	
Rose, J., Dunedin, N.Z. Horse-race starting-machine	14103 15113	4 Oct., 1901	$\frac{63}{71}$	7 Aug. 4 Sept.	
Rosengren, L., Trilleborg, Sweden. (See P. Petersen, No. 15338.) Ross, A. H., Rata, Rangitikei, N.Z. Docking, &c., lambs	14273	25 Nov 1901	75	18 Sent	
Ross, F., Mohaka, N.Z. Cough-mixture	15270	25 Nov., 1901 18 Aug.	$\begin{array}{c} 75 \\ 75 \end{array}$	18 Sept. 18 Sept.	
Ross, H. I. M., Dunedin, N.Z. Double-current ventilator	14884	14 May	60	24 July.	
Ross, M. L., Paris, France. Burner	15347	0 T 1	75 57	18 Sept. 10 July.	
Rouse, T., and another, Middlesex, Eng. Artificial stone	15069 -	z July			

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT—continued.

ALFRADETICAL LIST OF AFFIICANTS FOR LE		pplication.		Gazette.
Name, Address, and Invention.	No.	Date.	No.	Date.
Roy, A. F., Dunedin, N.Z. Waterproofing composition. (J. Taylor and W. Ollerenshaw)	15263	15 Aug	71	4 Sept.*
Rugg, J., Auckland, N.Z. Broom-rack	15401 15473 15074	11 Sept 30 Sept 2 July	78 83 57	2 Oct.* 16 Oct.* 10 July.
Sadlier, J., Waianiwa, N.Z. Wire strainer	15264 15319 15344 15359	15 Aug 28 Aug 3 Sept 4 Sept	71 75 78	4 Sept.* 18 Sept.* 2 Oct.*
No. 15207.) Scott, R., Waipukurau, N.Z. Attachment to bedstead Senior, A. I., Wellington, N.Z. Reversing motion of steam-engine Seymour, D., Napier, N.Z. Siphon Sharples, D. T., Winchester, U.S.A. Mechanical milking Shaw, W. E., Sydney, N.S.W. Tobacco-box Shedd Electric and Manufacturing Company, The, New York, U.S.A.	15163 15285 15302 15309 15209 15443	24 July 22 Aug 26 Aug 27 Aug 2 Aug 25 Sept	63 71 71 71 67 83	7 Aug. 4 Sept.* 4 Sept. 4 Sept. 21 Aug.* 16 Oct.
Ventilator. (T. R. Weyant) Shepherd, J., Dunedin, N.Z. Dredging machinery Shipway, C. J., and another, Meningie, S.A. Sheep-shears Sigley, J., Gisborne North, N.Z. Weather-proof newspaper-box Sigley, J., Hokitika, N.Z. Gold-saving apparatus Sigley, J. R., Gisborne, N.Z. Concrete tank Silk, M. B., Sydney, N.S.W. Cloth-shrinking apparatus Simpson, F., Port Chalmers, N.Z. Attachment to screw-cutting	15097 15161 15236 15358 15301 15166 15187	10 July 24 July 2 Aug 5 Sept 22 Aug 24 July 29 July	63 67 75 71 63 67	7 Aug. 21 Aug.* 18 Sept.* 4 Sept.* 7 Aug. 21 Aug.*
lathe Simpson, G., Richmond, Vic. Sash-fastener Sinnet, R. H., Wellington, N.Z. Dredge-screen Slater, E. H., Auckland, N.Z. Cutting-tool of planing-machine Smaill, J., Port Chalmers, N.Z. Inlet of suction-pipe Smart, A., jun., and others, Auckland, N.Z. Fire-escape Smith, A. A. S., Aberdeen, N.S.W. Mail-bag lock Smith, A. D., Edinburgh, Scotland. Buffer-coupler Smith, A. K., Sydney, N.S.W. Table-tennis, &c., scorer. (G. M.	15337 15325 14213 15334 15387 15162 15248 15393	30 Aug 29 Aug 12 Nov., 1901 30 Aug 8 Sept 24 July 14 Aug 10 Sept	75 75 63 75 78 63 67 78	18 Sept. 18 Sept.* 7 Aug. 18 Sept.* 2 Oct.* 7 Aug. 21 Aug. 2 Oct.
Smith, F., Hokitika, N.Z. Dredging machinery Smith, F. E., and others, Greymouth, N.Z. Gold saving apparatus Smith, G. C., St. Kilda, Vic. Screw Smith, G. J., Greymouth, N.Z. Dust, &c., excluder for doors Smith, H. R., and another, Christchurch, N.Z. Sandal Smith, S., Christchurch, N.Z. Attachment to leg of furniture Smith, S., and another, Christchurch, N.Z. Sandal Smyth, E., and another, Kennedy Bay, N.Z. Sandal Smyth, E., and another, Kennedy Bay, N.Z. Snatch-block Snapper, R., Albert Park, Vic. Boot fastener Soper, F., Dunedin, N.Z. Bicycle-crank Soutter, A., Buluwayo, South Africa. Non-refillable bottle Sprey, E., New Brighton, N.Z. Boot, &c., fastening Staples, L., and another, Christchurch, N.Z. Ventilating boots Stedman, S. R., Dunedin, N.Z. Cultivator Steele, E., Mile Valley, California, U.S.A. (See E. Phillips, No.	14349 15396 15201 14274 15178 15378 15178 15252 15213 15118 15346 14166 15399 15438	18 Dec., 1901 13 Sept 30 July 25 Nov., 1901 25 July 8 Sept 25 July 12 Aug 2 Aug 14 July 3 Sept 26 Oct., 1901 12 Sept 22 Sept	75 78 67 57 67 67 67 67 68 75 63 78 88	18 Sept. 2 Oct.* 21 Aug. 10 July. 21 Aug.* 18 Sept.* 21 Aug.* 21 Aug.* 21 Aug.* 7 Aug.* 7 Aug. 2 Oct.* 16 Oct.*
Steele, T. J., Auckland, N.Z. Treating clay for road-making Stephenson, C. W., Wellington, N.Z. Patch for bicycle-tire Stevenson, T., Dunedin, N.Z. Shaft-bush Stewart, H. F., Cobram, Vic. Wire-strainer Stewart, J. H., and another, Invercargill, N.Z. Candlestick Stewart, J. H., and another, Invercargill, N.Z. Candlestick Stewart, J. H., and another, Invercargill, N.Z. Candlestick Stewart, J. H., Chicago, U.S.A. Shearing-tool Strowger Automatic Telephone Exchange, Chicago, U.S.A. Auto-	15131 15109 15419 15198 15119 15179 15308 15091 15422	18 July 11 July 17 Sept 29 July 11 July 24 July 22 Aug 10 July 19 Sept	63 60 78 71 63 75 67 71 83 78	7 Aug. 24 July.* 2 Oct. 4 Sept.* 7 Aug.* 18 Sept. 21 Aug.* 4 Sept.* 16 Oct. 2 Oct.
matic Telephone Exchange. (A. E. Keith and J. and C. J. Erickson) Suckling, R. L., Christchurch, N.Z. Lamp-wick Sudholz, F. W., Footscray, Vic. Attachment to plough. Summerton, F. L., and another, Christchurch, N.Z. Cycle-propelling mechanism	15307 15398 15433	25 Aug 13 Sept 23 Sept	75 78 78	18 Sept.* 2 Oct.* 2 Oct.*
Swanell, C. T., and another, Dunedin, N.Z. Breaking clay in sluice- boxes	15182	24 July	67	21 Aug.*
Symons, J., and another, Foxton, N.Z. Filtering-apparatus Tandy, C., Wellington, N.Z. Shearing-machine	14138 14244	21 Oct., 1901	71	7 Aug. 4 Sept.
Taylor, J., and another, Dunedin, N.Z. (See A. F. Roy, No. 15263.) Taylor, J., and another, Mataura, N.Z. Flax-scutcher Taylor, W., and another, Sydenham, N.Z. Ventilating boots, &c Temperley, E. A., Marton, N.Z. Incubator Thatcher, H., Hyde Park, S.A. Attachment to bicycles, boats, &c.,	14034 15399 15211 15317		75 78 75	18 Sept. 2 Oct.* 18 Sept.
for a shade, sail, &c. (S. H. Manners) Thies, C. E., and another, Auburn, Vic. Advertising attachment to incandescent lamps	15090	10 July	60	24 July.*
Thompson, D., Wanganui, N.Z. Capturing moths, &c	15195 15340 14370	1 Sept	67 78 75	21 Aug.* 2 Oct. 18 Sept.

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT—continued.

opliss, H. J., and another, Christchurch, N.Z. Utillising exhaust of gas-engine osswill, R. D., and another, Upper Matakitakit. Dredge-screen and elevator ravers, W. T. L., Wellington, N.Z. Metallic box-making machiner, (F. E. Wattne) carrier, J. D., Wangamin, N.Z. Securing doors, windows, &c. 15244 14775. rotter, C. A., Opunake, N.Z. Range-finder. 14357 ucker, W. F., and another, Auckland, N.Z. (See A. H. Nathan, No. 15403). urner, G., Blenheim, N.Z. Lacing boots, &c. 14475. ucker, W. F., and another, Auckland, N.Z. (See A. H. Nathan, No. 15403). urner, G., Blenheim, N.Z. Lacing boots, &c. 15367 urtel, J., jun, Queenstown, N.Z. Pump . 15451 15367 urtel, J. jun, Queenstown, N.Z. Pump . 15451 15367 urtel, J. jun, Queenstown, N.Z. Pump . 15451 15367 urtel, J. Ludington, N.Z. Games . 15101 15451 15467 urtel, J. Ludington, N.Z. Games . 15101 15451 15467 urtel, J. L.	Application.	Gazette.		
of gas-engine osswill, R. D., and another, Upper Matakitaki. Dredge-screen and elevator ravers, W. T. L., Wellington, N.Z. Metallic box-making machinery. (F. E. Wattne) raves, J. Russell's Flat N.Z. Scarifier	Date.	No.	No. Date	
sswill, R. D., and another, Upper Matakitaki. Dredge-screen and elevator avers, W. T. L., Wellington, N.Z. Metallic box-making machinery, (F. E. Wattne). aves, J. Russell's Flat, N.Z. Scarifier	1 Sept	83	16 Oct.*	
avers, W. T. L., Wellington, N.Z. Metallic box-making machinery, (F. E. Wattne) aves, J., Russell's Plat, N.Z. Searifier ipe, J. D., Wanganni, N.Z. Wire-strainer loke, W. A., jun, Wakefield, N.Z. Wire-strainer loker, W. F., and another, Auckland, N.Z. (See A. H. Nathan, No. 15403) Irrell, J., jun, Wakefield, N.Z. Lacing boots, &c. Ititle, W. I., Baltimore, U.S.A. (See American Tobacco Company, No. 15246) Irrell, J., jun, Queenstown, N.Z. Pump pany, No. 15246) Irrell, J., jun, Queenstown, N.Z. Pump pany, No. 15246) Irrell, J., jun, Queenstown, N.Z. Pump pany, No. 15246) Irrell, J., jun, Queenstown, N.Z. Pump pany, No. 15246) Irrell, J., jun, Queenstown, N.Z. Games inted Gigarette-machine Company, London, Eng. Cigarette-machine (F. J. Ludington) Inted Shoe Machinery Company, Boston, U.S.A. Turning boots, &c. (A. Eppler) Inted Shoe Machinery Company, Boston, U.S.A. Stitch-separating machine, (J. B. Hadeway) Inted Shoe Machinery Company, Boston, U.S.A. Pressing-form for sole-laying machine. (G. H. Gifford) Inted Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (J. B. Hadeway) Inted Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (J. E. T. Freeman) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (G. H. Bayley) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (G. H. Bayley) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) Inted Shoe Machinery Company, Boston, U.S.A. Leather skiv	23 July	63	7 Aug.*	
aves, J. Russell's Plat, N.Z. Scarifier ipe, J. D., Wanganui, N.Z. Seauring doors, windows, &c. 15324 obter, C. A., Opunake, N.Z. Range-finder. 1648, W. A., Jun, Wakefield, N.Z. Wire-strainer 1648, W. A., Jun, Wakefield, N.Z. Wire-strainer 16478	24 July	63	7 Aug.*	
cotter, C. A., Opunake, N. Z. Range-finder. 14772 100ke, W. A., Jun, Wakefield, N. Z. Wire-strainer 100ker, W. F., and another, Auckland, N. Z. (See A. H. Nathan, No. 15403). 11816, W. I., Baltimore, U.S.A. (See American Tobacco Company, No. 15408). 11817, Jun., Queenstown, N. Z. Pump		75 67	18 Sept.* 21 Aug.*	
ncker, W. F., and another, Auckland, N.Z. (See A. H. Nathan, No. 15493) nrner, G., Blenheim, N.Z. Lacing boots, &c	19 April	71 78	4 Sept. 2 Oct.	
title, W. I., Baltimore, U.S.A. (See American Tobacco Company, No. 15246.) ree, W., Sydney, N.S.W. Acetylene-gas generator				
rrell, J., jun., Queenstown, N.Z. Pump	5 Sept	83	16 Oct.	
nachine. (F. J. Ludington) machine. (F. J. Ludington) nited Shoe Machinery Company, Boston, U.S.A. Turning boots, &c. (A. Eppler) nited Shoe Machinery Company, Boston, U.S.A. Welt-sewing machine. (E. E. Winkley) nited Shoe Machinery Company, Boston, U.S.A. Stitch-separating machine. (J. B. Hadaway) nited Shoe Machinery Company, Boston, U.S.A. Stitch-separating machine. (J. B. Hadaway) nited Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (E. F. Davenport) nited Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (C. H. Bayley) nited Shoe Machinery Company, Boston, U.S.A. Inserting fasten- ings. (E. T. Freeman) nited Shoe Machinery Company, Boston, U.S.A. Inserting fasten- ings. (E. T. Freeman) nited Shoe Machinery Company, Boston, U.S.A. Assorting nails. (B. F. Mayo) nited Shoe Machinery Company, Boston, U.S.A. Assorting nails. (B. F. Mayo) couum Cleaner Company, Limited, London, Eng. Extracting dust from carpets. (H. C. Booth) bert, J. P., and another, Auckland, N.Z. Closet ade, J. L., London, Eng. (See M. Neustadt, No. 15210.) alker, J., Dunedin, N.Z. Privy receptacle. allace, H. L., Indianapolis, U.S.A. Valve, (J. W. Nethery) alters, W., Dunedin, N.Z. Privy receptacle. allace, H. L., Indianapolis, U.S.A. Valve, (J. W. Nethery) alters, W., Dunedin, N.Z. Privy receptacle. aters, W., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun, Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, W., Fitzroy, Vic. Rubber pad for horse-shoe aters, W., Fitzroy, Vic. Rubber pad for horse-shoe aters, W., Thuedin, N.Z. Spark-arrester attr., D. Dunedin, N.Z. Spark-arrester attr., D. Dunedin, N.Z. Spark-arrester attr., M. M. Chambers, No. 15078.) est. J. B., Rochester, U.S.A. (See J. M. Chambers, No. 15078.) est. J. B., Rochester, U.S.A. (See J. M. Ch		83 83	16 Oct. 16 Oct.*	
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15226 for sole-laying machine. (G. H. Gifford) nited Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (E. F. Davenport) nited Shoe Machinery Company, Boston, U.S.A. Skiving-machine. (C. H. Bayley) nited Shoe Machinery Company, Boston, U.S.A. Inserting fastenings. (E. T. Freeman) nited Shoe Machinery Company, Boston, U.S.A. Leather skiving-machine. (J. R. Scott) nited Shoe Machinery Company, Boston, U.S.A. Leather skiving-machine. (J. R. Scott) nited Shoe Machinery Company, Boston, U.S.A. Assorting nails. (B. F. Mayo) Mouum Cleaner Company, Limited, London, Eng. Extracting dust from carpets. (H. C. Booth) bert, J. P., and another, Auckland, N.Z. Closet ade, J. L., London, Eng. (See M. Neustadt, No. 15210.) alker, J., Dunedin, N.Z. Privy receptacle allace, H. L., Indianapolis, U.S.A. Valve. (J. W. Nethery) alters, W. B., Dunedin, N.Z. Producing hydrocarbon gas atters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Transmission of power by electro-magnetic waves. (R. A. Fessenden) aters, W., Auckland, N.Z. Street-sweeper att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, J., and another, Balclutha, N.Z. Brack-arrester hitelaw, J., and another, Christohurch, N.Z. Cold-saving apparatus explant,	2 Aug	67	21 Aug.	
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nited Shoe Machinery Company, Boston, U.S.A. Inserting fastenings. (E. T. Freeman) nited Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) nited Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) nited Shoe Machinery Company, Boston, U.S.A. Leather skiving- machine. (J. R. Scott) nited Shoe Machinery Company, Boston, U.S.A. Assorting nails. (B. F. Mayo) acuum Cleaner Company, Limited, London, Eng. Extracting dust from earpets. (H. C. Booth) hiert, J. P., and another, Auckland, N.Z. Closet ade, J. L., London, Eng. (See M. Neustadt, No. 15210.) alker, J., Dunedin, N.Z. Privy receptacle allace, H. L., Indianapolis, U.S.A. Valve. (J. W. Nethery) alker, W. B., Dunedin, N.Z. Producing hydrocarbon gas aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun, Melbourne, Vic. Transmission of power by electro- magnetic waves. (R. A. Fessenden) aters, E., jun, Melbourne, Vic. Transmission of power by electro- magnetic waves. (R. A. Fessenden) aters, W., Fitzroy, Vic. Rubber pad for horse-shoe att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, N., Dunedin, N.Z. Spark-arrester att, N., Dunedin, N.Z. Spark-arrester att, N., Dunedin, N.Z. Spark-arrester att, N., B., Rochester, U.S.A. (See W. T. L. Travers, No. 15164.) est, J. B., Rochester, U.S.A. (See J. M. Chambers, No. 15078.) est, J. B., Rochester, U.S.A. (See J. P. Campbell, No. 15310.) est, J. B., Rochester, U.S.A. (See The Shedd Electric and Manufacturing Company, No. 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hithen, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitelaw, J., and another, Christchurch, N.Z. Acetylene-gas lamp	2 Aug	67	21 Aug.*	
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altace, H. L., Indianapolis, U.S.A. Valve. (J. W. Nethery) alters, W. B., Dunedin, N.Z. Producing hydrocarbon gas ard, H. W., Dunedin, N.Z. Flushing cisterns ass, A. G., London, Eng. Printers' varnish and ink aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Transmission of power by electro- magnetic waves. (R. A. Fessenden) aters, W., Pitzroy, Vic. Rubber pad for horse-shoe att, B., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, M., Dunedin, N.Z. Spark-arrester att, R., St. Paul, U.S.A. Mattress-filling machine essel's Ratent Tire-setter Company, Limited, Sydney, N.S.W. (See J. M. Chambers, No. 15078.) est, J. B., Rochester, U.S.A. (See J. M. Chambers, No. 15078.) estinghouse, G., Pittsburg, U.S.A. (See J. P. Campbell, No. 15310.) eston, J. S., and others, Greymouth, N.Z. Gold-saving apparatus eylant, T. R., New York, U.S.A. (See The Shedd Electric and Manufacturing Company, No, 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp				
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aters, E., jun., Melbourne, Vic. Signalling by electro-magnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Transmission of power by electromagnetic waves. (R. A. Fessenden) aters, E., jun., Melbourne, Vic. Transmission of power by electromagnetic waves. (R. A. Fessenden) aters, W., Auckland, N.Z. Street-sweeper aters, W., Fitzroy, Vic. Rubber pad for horse-shoe att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, J., and another, Balclutha, N.Z. Hydro-carbon gas-generator att, N., Dunedin, N.Z. Spark-arrester attne, F. E., Stavanger, Norway. (See W. T. L. Travers, No. 15164.) ells, R. F., Melbourne, Vic. Sheep-shears essel, K., St. Paul, U.S.A. Mattress-filling machine est's Patent Tire-setter Company, Limited, Sydney, N.S.W. (See J. M. Chambers, No. 15078.) estinghouse, G., Pittsburg, U.S.A. (See J. M. Chambers, No. 15078.) estinghouse, G., Pittsburg, U.S.A. (See J. P. Campbell, No. 15310.) eston, J. S., and others, Greymouth, N.Z. Gold-saving apparatus eylant, T. R., New York, U.S.A. (See The Shedd Electric and Manufacturing Company, No, 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitelaw, J., and another, Christchurch, N.Z. Acetylene-gas lamp		63 78	7 Aug. 2 Oct.	
aters, E., jun., Melbourne, Vic. Transmission of power by electromagnetic waves. (R. A. Fessenden) aters, W., Auckland, N.Z. Street-sweeper	10 Sept	78	2 Oct.	
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ells, R. F., Melbourne, Vic. Sheep-shears essel, K., St. Paul, U.S.A. Mattress-filling machine		78 75	2 Oct.* 18 Sept.*	
est's Patent Tire-setter Company, Limited, Sydney, N.S.W. (See J. M. Chambers, No. 15078.) est, J. B., Rochester, U.S.A. (See J. M. Chambers, No. 15078.) estinghouse, G., Pittsburg, U.S.A. (See J. P. Campbell, No. 15310.) eston, J. S., and others, Greymouth, N.Z. Gold-saving apparatus eylant, T. R., New York, U.S.A. (See The Shedd Electric and Manufacturing Company, No. 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp	22 Aug	71	4 Sept.	
est, J. B., Rochester, U.S.A. (See J. M. Chambers, No. 15078.) estinghouse, G., Pittsburg, U.S.A. (See J. P. Campbell, No. 15310.) eston, J. S., and others, Greymouth, N.Z. Gold-saving apparatus eylant, T. R., New York, U.S.A. (See The Shedd Electric and Manufacturing Company, No. 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp	26 Aug	71	4 Sept.	
eston, J. S., and others, Greymouth, N.Z. Gold-saving apparatus eylant, T. R., New York, U.S.A. (See The Shedd Electric and Manufacturing Company, No, 15443.) hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp 15218				
hisker, N. H., and others, Auckland, N.Z. Fire-escape hitehouse, J., Waihi, N.Z. Spark-arrester hitelaw, J., and another, Wellington, N.Z. Potato-chipper hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp	13 Sept	78	2 Oct.*	
hitelaw, J., and another, Wellington, N.Z. Potato-chipper 15402 hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser 14612 hitley, J. J., and another, Christchurch, N.Z. Acetylene-gas lamp 15218		78	2 Oct.*	
hitham, F. E., Oxenhope, York, Eng. Stone, &c., pulveriser		78 78	2 Oct.* 2 Oct.	
	13 March	75	18 Sept.	
hitney, A. C., Auckland, N.Z. (See Colonial Ammunition Com-	1 Aug.	67	21 Aug.*	
pany, Limited, No. 15435.) ilhelm, E. H., Marton, N.Z. Docking lamb		78	2 Oct.*	
ilkie, A., Fairton, N.Z. Distribution of carcase meat ilkins, A. R., and another, Christchurch, N.Z. Connecting bicycle 15177		75 63	18 Sept.* 7 Aug.	
with a trailed carriage illinia, A. R., and another, Christchurch, N.Z. Motor attachment 15306	25 Aug	75	18 Sept.*	

ALPHABETICAL LIST OF APPLICANTS FOR LETTERS PATENT—continued.

Name, Address, and Invention.		Application.	Gazette.		
Name, Address, and invention.	No.	Date.		No.	Date.
Wilkinson, W. S., and others, Auckland, N.Z. Advertising	15184	25 July		71	4 Sept.*
Williams, F. C., and another, Christchurch, N.Z. Plate	15130	18 July		63	7 Aug *
Williams, J. P., Wellington, N.Z. Billiard-table	15245	15 Aug.		71	4 Sept.*
Williams, J. P., Wellington, N.Z. Billiard-table	15291	23 Aug.		71	4 Sept.*
Williams, R., Petone, N.Z. Billiard-marker, &c	15237	8 Aug.		67	21 Aug.*
Williams, S., and another, Christchurch, N.Z. Attachment to range	15136	15 July		63	7 Aug.*
Wilson, D., Feilding, N.Z. Acetylene gas-generator	15221	5 Aug.		67	21 Aug.*
Vilson, J., and others, Newmarket, N.Z. Fire-escape	15387	8 Sept.		78	2 Oct.*
Wilson, J. L., Kaitangata, N.Z. Ejector	15296	25 Aug.		71	4 Sep [†] .*
Winkley, E. E., Lynn, Mass., U.S.A. (See United Shoe Machinery Company, No. 15206.)		_	İ		
Witty, R. J. L., Yatala, Queensland. Plant and seed setter	15311	27 Aug.		71	4 Sept.
Wood, T. P., and another, London, Eng. Smoke-consumer	15229	7 Aug.		71	4 Sept.
Woods, J. T., Melbourne, Vic. Coupling railway-trucks	15104	10 July		60	24 July.*
Wright, R., Newcastle on Tyne, Eng. (See Sir W. G. Armstrong, Whitworth, and Company, Limited, No. 15139.)					
Wycherley, C. W., Wellington, N.Z. Securing horse-cover	14623	14 March		67	21 Aug.

Alphabetical List of Inventions for Quarter ending 30th September, 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."

	37	A	pplication.		Gazette.
Invention.	Name.	No.	Date.	No.	Date
cetylene-gas lamp	H. H. Gaudin and J. J. Whitley	15218	1 Aug	67	21 Aug.*
cetylene-gas generator	D. Wilson	15221	5 Aug	67	21 Aug.*
cetylene gas generator	W. Tyree	15447	26 Sept	83	16 Oct.*
dult's and child's chair	A. J. Park	15361	5 Sept	75	18 Sept.
dvertising	M. Foley, J. Parker, and W. S. Wilkinson	15184	25 July	71	4 Sep .
dvertising attachment to cycle, boat, &c.		15317	28 Aug	75	18 Sept.
dvertising attachment to gas-lamp	~	15090	10 July	60	24 July.*
dvertising device, &c	P. J. Gossling	15256	12 Aug	67	21 Aug.*
dvertising device and hairdresser's rack	P. J. Gossling P. J. Gossling	15217	1 Aug	67	21 Aug.*
eration and bottling of liquid	Automatic Aerator Patents, Li-	15134	16 July	63	7 Aug.
	mited				
ir-exhausting apparatus	W. G. Goss	15324	29 Aug	75	18 Sept.
larm, Fire, communicating abroad	D. J. Kelleher	14052	24 Sept., 1901	71	4 Sept.
llarm. (See Fire-escape, extinguisher, and alarm.)			• •		-
larm thermometer, Electric	A. Johnston	15332	28 Aug	75	18 Sept.*
malgamation of metals	American Amalgamating Company	15152	23 July	99	27 Nov.
malgam, &c., Separating, from ore-pulp	T. H. Hicks	15092	10 July	60	24 July.
malgam, Separating mercury from	T. H. Hicks	15094	10 July	60	24 July.
malgamating, &c., table	T. H. Hicks J. A. Hamilton W. H. Humble	15421	19 Sept	78	2 Oct.*
ammonia-compressor, Valve for	W. H. Humble	15286	20 Aug	71	4 Sept.
Ammunition wad	The Colonial Ammunition Com-	15435	24 Sept		•••
	pany, Limited				
nimal-feeding trough	J. Carlyle	15412	18 Sept	78	2 Oct.*
Inimal-trap	W. Collins W. McNaught	15255	12 Aug	67	21 Aug.*
nimal-trap		15377	8 Sept	75	18 Sept.*
Animal-trap Animal-trap Arc-lamp, Electric	J. P. Campbell	15310	27 Aug	71	4 Sept.
irtesian-well driving and boring	G. L. Pearson	14904	23 May	63	7 Aug.
Artificial stone	J. Purvis and T. Rouse	15069	2 July	57	10 July.
Axes, Show-case for	E. O. Risstrom	15385	11 Sept	78	2 Oct.
Don't a Cillian III dalam	T O	15100	14 Tesles	60	7 Anc
Bag for filling, Holding	J. Orr, jun	15120	14 July	63	7 Aug.
Bag, school-, &c., Shoulder-strap for	G. Goosman	15196	28 July	67	21 Aug.*
Bag. (See Mail-bag, Saddle tool-bag,					
Lead-bag.) Salls, Device for picking up	J. B. Poynter	15133	18 July	63	7 Aug.*
	J. F. Rose	15113	12 July	71	4 Sept.
Sank of river, &c., Protecting	N. C. Innes	15191	29 July	71	4 Sept.*
Barrel	F. Alexe	15345	3 Sept	75	18 Sept.
Sat. (See Ping-pong bat.)		-0010	S DOP"	'	-5 ×5p0.
Bearing for shaft, Support	J. A. Moyes and J. Hopkirk	15147	23 July		
Bed and bolster	E. H. Luxford	15355	4 Sept	75	18 Sept.*
Bed-pan, Frame for slipper	E. A. Conyers	15416	18 Sept	78	2 Oct.*
Bedstead	A. E. Phillimore	15226	7 Aug	67	21 Aug.*
Sedstead, Attachment to	B. Scott	15163	24 July	63	7 Aug.
Bedstead, Attaching wire to	E. A. Conyers A. E. Phillimore R. Scott E. J. Restorck	15168	24 Feb.†	63	7 Aug.*
Bedstead and mattress	G. S. Heatley	15283	22 Aug	71	4 Sept.
Bedstead, Wire mattress and	H. A. Robinson and S. Robinson	15333	30 Aug	75	

ALPHABETICAL LIST OF INVENTIONS-continued.

	ABETICAL LIST OF INVENTIONS—con.	Application.	Gazette.
Invention.	Name.	No. Date.	No. Date.
Bending sheet-metal for tube-making Bicycle, Attachment to, for use as a sail,	T. Danks H. Thatcher	15382 9 Sept 15317 28 Aug	83 16 Oct. 75 18 Sept.
&c. Bicycle, Connecting with trailed carriage, &c.	A. R. Wilkins and J. W. Odering	15177 26 July	63 7 Aug.
Bicycle, Driving mechanism for Bicycle-holder	W. G. Jesson F. W. Painter A. R. Wilkins and J. W. Odering	15348 2 Sept 15284 22 Aug 15306 25 Aug	75 18 Sept.* 71 4 Sept.* 75 18 Sept.*
Bicycle-pedal Bicycle. (See also Cycle.)	G. M. Nichol	15140 17 July	63 7 Aug.
Billiard-table Billiard-table	J. P. Williams J. P. Williams	15109 11 July 15245 15 Aug. 15291 23 Aug.	60 24 July.* 71 4 Sept.* 71 4 Sept.*
Billiard-table, Convertible	H. U. Alcock	15259 12 Aug	67 21 Aug.* 75 18 Sept.*
Billiard-table and settee Billiards, Recording score at	R. Williams	15237 8 Aug	67 21 Aug.*
Binder for loose sheets of paper Binder, Paint-brush	H. E. Dade C. Sawyer	15225 4 Aug 15319 28 Aug	75 18 Sept
Biscuit. (See Medicated biscuit.) Bivalve, Opening	A. W. and J. B. McKenzie F. Pegler	15239 8 Aug 14825 29 April	67 21 Aug.* 60 24 July.
Blind. (See Window-blind.) Blinds, Operating Venetian Block. (See Snatch-block.)	W. Conyers	14322 12 Dec., 1901	75 18 Sept.
Blotting-pad and ruler	C. N. Hodder H. Thatcher	15128 14 July 15317 28 Aug	63 7 Aug.* 75 18 Sept.
Boat, &c., Propelling and sustaining Boat. (See Diving-boat.)	J. A. Fiddes	15432 23 Sept	78 2 Oct.*
Boiler furnace, Steam-	E. Maslin	15079 3 July 15102 10 July	60 24 July. 60 24 July.
Boiler, Water-tube Boiling eggs	J. Cowan W. H. Gore and H. J. K. Massey-	15148 23 July 15303 22 Aug	63 7 Aug. 71 4 Sept.*
Boot-fastening	Lawless E. Sprey	14166 26 Oct., 1901	63 7 Aug.
Boot-fastening	R. Snapper	15213 2 Aug	67 21 Aug.*
Boot-heel Boot-sole	A. F. Davis E. Dimant	15336 30 Aug 15101 10 July	75 18 Sept. 60 24 July.*
Boot-sole	T. Burrell and E. C. Perdriau F. H. Killingsworth and P. Rawsen	15279 21 Aug 15305 25 Aug	71 4 Sept.* 71 4 Sept.*
Boot, Ventilating	L. Staples and W. Taylor	15399 12 Sept	78 2 Oct.*
Boot, &c., Turning apparatu Boot-finishing machine, Wheels of Boots. (See also Gum-boots.)	United Shoe Machinery Company G. H. Catt	15103 10 July 15350 4 Sept	60 24 July.* 75 18 Sept.*
Boring and artesian-well driving Boring, &c., Earth-	G. L. Pearson J. Cox	14904 23 May 15426 16 Sept	63 7 Aug. 83 16 Oct.
Bottle Bottle. (See Non-refillable bottle.)	G. George	15192 28 July	67 21 Aug.*
Bottling and aeration of liquids	Automatic Aerator Patents, Li- mited	15134 16 July	63 7 Aug.
Box-making machinery Box. (See Tobacco-transporting box, Collapside box, Newspaper-box, Egg-carry-	W. T. L. Travers	15164 24 July	63 7 Aug.*
ing box.) Bracket. (See Lamp-bracket.)	3.70		0.5
Bradawls, &c., to handles, Securing Brake for cycles, &c. Brake. (See Hydraulic duplex oil-brake.)	A. W. Humphreys	15257 12 Aug 15215 2 Aug	67 21 Aug.* 67 21 Aug.*
Breaking stone, &c., Machine for	F. E. Whitham	14615 13 Mar	75 18 Sept.
Breaking-up ground, Implement for Brick, Building-	J. Brasting W. Juriss	15364 5 Sept 15411 18 Sept	75 18 Sept.* 78 2 Oct.*
Brick, Plug Bridge, Tension	C. W. Langstone F. Lambert	15272 20 Aug 15238 8 Aug	71 4 Sept.* 67 21 Aug.*
Broom, Rack for	J. Rugg	15401 11 Sept	78 2 Oct.*
clothes-brush, Boot-brush.) Bucket. (See Dredge-bucket.)	TH Dellarde TTD	15050 10 4	67 01 4*
Buckle Buffer-coupler	J. H. Bell and F. J. J. Butler A. D. Smith	15258 12 Aug	67 21 Aug.* 67 21 Aug.
Buildings, Heating	M. Arragon	15436 24 Sept 15347 3 Sept	83 16 Oct.* 75 18 Sept.
Bush, and securing same on shaft	F. A. Cutten	15180 25 July	•• ••
Bush, Removable shaft- Bushfelling, Stage for	T. Stevenson	15419 17 Sept 15450 26 Sept	78 2 Oct. 83 16 Oct.
Butter, &c., box, Collapsible	H. Donkin	15186 29 July 15295 25 Aug	67 21 Aug.* 75 18 Sept.*
Butter-preservative Button	J. P. Brown	15088 7 July	60 24 July.*
Cable system of cash-carrier	Lamson Store Service Company, Limited	14549 20 Feb	71 4 Sept.
Calculating altitudes. (See Range-finder.)	T M C	15195 17 July	63 7 Aug.
Cams, &c., Locking-device for securing Canal for harbour-bar removal	F. M. Canda F. Lambert	15125 17 July 15240 8 Aug	67 21 Aug.*
Candlestick	J. H. Stewart and W. Nicol	15179 24 July	67 21 Aug.*

ALPHABETICAL LIST OF INVENTIONS—continued.

	-		A	oplication.	Gazette.	
Invention.		Name.	No.	Date.	No.	Date.
andlestick	• • {	W. Nicol and J. H. Stewart	15308	22 Aug	71	4 Sept.*
andlestick		A. Douglas	15227	7 Aug	67 63	21 Aug.* 7 Aug.*
andlestick		J. H. Stewart and W. Nicol	15119	11 July	75	18 Sept.
andle-holder		S. J. Heffer	15154	23 July	63	7 Aug.
am Caalad		American Tobacco Company		14 Aug	71	4 Sept.
an, Sealed ar-coupling		J. Hanley	15289	19 Aug	71	4 Sept.*
arbonaceous liquid as fuel, Using		J. Hanley F. Cotton	15318	28 Aug	75	18 Sept.*
ar-coupling arbonaceous liquid as fuel, Using arcase meat, Distribution of arpets, Extraction of dust from		A. Wilkie	15331	30 Aug	75	18 Sept.*
arpets, Extraction of dust from	• • }	The Vacuum Cleaner Company,	15150	23 July	67	21 Aug.
	!	Timited	. 12100	00 T-1-	CO	7 A
arriage, Connecting bicycle with trai		A. R. Wilkins and J. W. Odering H. Anscombe and G. Russell		26 July 30 Sept	63 83	7 Aug. 16 Oct.*
art, Water-sprinkling	• •		15244	30 Sept	67	21 Aug.*
art, Water-sprinkling asements, Securing ash-carrier		J. D. Tripe M. J. Robertson		21 Aug	71	4 Sept.
ash-carrier ash-carrier, Cable system of		Lamson Store Service Company,		20 Feb	71	4 Sept.
ash-carrier, Caple system of		Limited	11010	20 2 00.	'-	1 00pu
ash register and indicator		a Andron	14110	10 Oct., 1901	63	7 Aug.
aster. Attachment to		R. S. Smith	15378	8 Sept	75	18 Sept.*
aster, Attachment to astrating, &c., lambs		E. H. Wilhelm	15117	14 July	78	2 Oct.*
haff-cutter, Crushing, &c., apparatu	s for	W. Andrews and A. W. Beaven	14290	28 Nov., 1901	75	18 Sept.
thains. (See Draught-chains.) Chair, Easy Chair, Adult's and child's Chair, &c., Collapsible Chair, step-ladder, desk, &c. Chamber utensil Chart for dress-cutting Checking descent of dredge-buckets		777 A	14000	01 0 4 4004		40 4 **
hair, Easy	••]	W. Aggers	14026	21 Sept., 1901		4 Sept.*
Chair, Adult's and child's	• •	A. J. Park	15361	5 Sept	75 71	18 Sept.*
mair, &c., Collapsible	••	J. M. Armour	15304 15287	23 Aug		4 Sept.*
nair, step-ladder, desk, &c	••	J. M. Armour	15356	20 Aug.* 4 Sept	75	18 Sept *
namper utensil	••	L. Roberts	15241	6 Aug	67	21 Aug.*
hecking descent of dredge-buckets	down	J. F. McIvor	15082	2 July	60	24 July.*
a ladder	~~ ****				-	,-
hipping potatoes, &c., Machine for		J. Whitelaw and J. Munro	15402	16 Sept	78	2 Oct.
himney		R. W. England	14317	9 Dec., 1901		18 Sept.
himney		A. J. Park	14330	11 Dec., 1901	75	18 Sept.
himney himney igar-cutter, &c	'	P. J. Gossling	15256	12 Aug	67	21 Aug.*
igarette-machine		R. W. England A. J. Park P. J. Gossling The United Cigarette - machine	15249	14 Aug	67	21 Aug.
		Company, Limited		0 Tul-	57	10 July.
igarette-wrapper machine	• •			2 July 2 July	57	10 July.
ligarette-wrapper tube-machine	• •	H W Ward	15363	2 July 5 Sept	75	18 Sept.*
lless hammer and stank drawer	• •	A Grav	15265	15 Aug.	71	4 Sept.*
listern, Flushing	• •	H. W. Ward A. Gray C. T. Swanell and W. Lee	15182	24 July	67	21 Aug.*
llay Treating for road-making		J. T. Steele	15131	18 July	63	7 Aug.
Cleaner. (See Knife-cleaner.)	••					
Clip. (See Trouser-clip.)			·	1	1	1
Clipper. (See Hedge-clipper.)				~		
Closet		J. P. Vibert and G. Cozens	15395	13 Sept		••
Closet. (See Earth-closet.)			14000	0 7 7 1	CET	01 4
Closet-seat		H. August		25 March		
Closet-seat		H. August	15142	22 July 15 Sept		21 Aug. 2 Oct.*
Jioset-seat, Seil-seaning	• •	T. D'A. C. Maxted W. H. Keon and W. O. Miller	15409 15262	15 Aug	78	2 Oct.
Closet cistern, Water- Cloth, Apparatus for shrinking	• •	M. B. Silk	15166	24 July	63	7 Aug.
Clothes brush, Hat and	• • •	C. Lashlie	15365	5 Sept	75	18 Sept.
Clothes-line and peg	• • •	J. Murray	1 - 1 10 -	24 Jan	63	7 Aug.
Coal, Shipping and transferring		Sir W. G. Armstrong, Whitworth,		17 July	63	7 Aug.
•• J		and Co., Limited		45.	1 00	
Coal-scuttle	• •	E. B. Arthur	15126	17 July	63	7 Aug.*
Collapsible chair, crib, &c.	• •	J. M. Armour	15304	23 Aug	71	4 Sept.*
Collapsible butter, &c., box	••	H. Donkin		29 July 3 Sept	67 75	21 Aug.* 18 Sept.*
Collar and hames and traces		H. August	* FOO.4	21 Aug		2 Oct.*
Commode, &c	• •	A. F. Roy	15263	15 Aug	71	4 Sept.*
Compressor. (See Ammonia Gas					-	
pressor.)	_					
Concentrating-table		J. B. Mason	15372	6 Sept	75	18 Sept.
Concentrating, &c., table		J. A. Hamilton	15421	19 Sept	78	2 Oct.*
Concentrator. (See Ore-concentrato	r.)	T D 01:1	1,0001	00 4	174	10
Concrete tank	٠.,	J. R. Sigley	15301	22 Aug	71	4 Sept.*
Condenser. (See Steam-condenser.)						
Consumer. (See Smoke-consumer.)		W. Rowe	15316	28 Aug	75	18 Sept.
Control system, Railway-traffic	. ••	17. 100mg	10010	-0	'	
Converter. (See Waste-converter.) Cooking-range attachment		S. Williams and J. Perks	15136	15 July	63	7 Aug.
Cooler. (See Milk-cooler, Cream-cool	oling.)				-	
Cooling and agitating cream		J. Middleton and H. J. Topliss	14370	23 Dec., 1901	75	18 Sept.
Compressing ensilage		J. K. McNeill and W. E. Collins	15376	10 Sept	78	2 Oct.*
Copying letters, Damping apparatus	for		15431	23 Sept	78	2 Oct.*
Couch		A. Nightingale	15156	22 July	63	
Couch, &c.		W. Aggers	14026	21 Sept., 1901		
Cough-mixture			15270	18 Aug	75	18 Sept.
Coupler. (See Buffer-coupler.)		- m 1		1071	1	
Coupling railway-trucks			15104	10 July	/60	24 July.
Coupling. (See Pipe-coupling, Car	c-coup-	· ·	1		1	
ling.)			1	1		
Oover. (See horse-cover, liquid seal		J W A Colling	1540#	10 Sant	70	2 Oct.*
Cow leg-holder	• •	W. A. Collins	15425	19 Sept	78	· 4 Oct.*

ALPHABETICAL LIST OF INVENTIONS—continued.

Агрн	ABETICAL LIST OF INVENTIONS—con	tinued.			
Invention.	Name.	A	pplication.		Gazette.
III VOII WOLL,	Name.	No.	Date.	No.	Date.
Cramp for match boarding	J. Francis J. Lindsay	15108 15367	11 July 8 Sept	 75	18 Sept.*
Crate and cramp for rabbit-packing Cream, Cooling and agitating.	J. Lindsay J. Middleton and H. J. Topliss	$15367 \\ 14370$	8 Sept 23 Dec., 1901	75 75	18 Sept.* 18 Sept.
Crib, &c., Collapsible Crushing, &c., apparatus for chaff-cutter	J. M. Armour W. Andrews and A. W. Beaven	15304 14290	23 Aug 28 Nov., 1901	71 75 83	4 Sept.* 18 Se ₁ t.
Cuff or sleeve protector Cultivator for drill Cultivating, &c., land	T. C. Darby, T. A. Darby, and S.	15488 15448 15314	26 Sept 22 Sept 27 Aug	83	16 Oct.* 16 Oct.*
Curler. (See Hair-curler.) Current-meter, Prepayment and recording	C. Darby G. L. Gowlland	15100	10 July	60	24 July.
Cutter. (See Mitre cutter, Cigar cutter.) Cutter of shearing-machine, Transmitting	J. K. Stewart	15091	10 July	83	16 Oct.
motion to Cutting-tool of planing-machine Cycle-brake	E. H. Slater A. W. Humpbreys	$14213 \\ 15215$	12 Nov., 1901 2 Aug	63 67	7 Aug. 21 Aug.*
Cycle-brake Cycle-crank Cycle driving gear	F. Soper	15118	14 July	63	7 Aug.
Cycle-propelling mechanism	F. L. Summerton and F. J. Amos	15149 15433	23 July 23 S pt	67 78	21 Aug. 2 Oct.*
Damping apparatus for letter-copying	F. H. W. Cowper T. C., T. A., and S. C. Darby	15431 15314	23 Sept	78	2 Oct.*
Dining-table, Convertible Dish. (See Pie-dish.)	H. U. Alcock	15259	27 Aug 12 Aug	67	21 Aug.*
Disinfectant, Delivering Distance, Ascertaining. (See Range-finder.) Distributor. (See Feed-water heater and		15210	2 Aug	67	21 Aug.
distributor.) Distribution of carcase meat Ditching-plough	A. Wilkie E. T. R. and J. G. Coates and	15331 15251	30 Aug 12 Aug	75 71	18 Sept.* 4 Sept.
Divided sole for boot, &c	W. K. Elder E. Dimant	15101	10 July	60	24 July.*
Diving-boat for pearl-fishing	C. W. Penny A. H. Ross	$15275 \\ 14273$	20 Aug 25 Nov., 1901	71 75	4 Sept.* 18 Sept.
Door-retainer	N. B. McLennan	15428	19 Stpt	78	2 Oct.
Draught increaser, &c.	J. D. Tripe W. H. Atkin	$15244 \\ 15219$	11 Aug 2 Aug	67 71	21 Aug.* 4 Sept.*
Draught-chains of vehicles, Spreader for	W. S. Ayson	15190	29 July .	67	21 Aug.
Draught-excluder for doors Draught-excluder for doors	G. J. Smith E. R. Ludbrook, A. B. and G. C. Jackson	$14274 \\ 15222$	25 Nov 5 Aug	57 67	10 July. 21 Aug*
Draught-producer, &c Draw-gear	C. Rillstone A. D. Smith	15112 15248	8 July 14 Aug	60 67	24 July.* 21 Aug.
Draw-gear, Outrigger vehicle	J. F. McIvor	15254 15082	15 Aug	67 60	21 Aug.* 24 July.*
Dredge-bucket, Removing clay from	T. F. Quilter and G. W. Gare	15175	23 July	63	7 Aug.*
Dredge-bucket Dredge-bucket Dredge-ladder, Checking descent of bucket	A. Cederman W. J. Evans and J. D. Campbell J. F. McIvor	15390 15437 15062	12 Sept 24 Sept 2 July	78 60	2 Oct. 24 July.*
down a Dredge-machinery, Driving	J. T. Johnson	15086	3 July	63	7 Aug.*
Dredge-screen, Gold Dredge-screen and elevator	R. H. Sinnet C. Rourke	15325 15153	29 Aug	75 63	18 S∈pt.*
Dredging-machinery	J. Shepherd	15097	10 July*		7 Aug.*
Dredging-machinery	F. Smith	$14349 \\ 15241$	18 Dec., 1901 6 Aug.	75 67	18 Sept. 21 Aug.*
Drill, Cultivator for Drill. (See Rock-drill.)	S. R. Stedman	15438	22 Sept	83	16 Oct.*
Driving-gear Driving mechanism for bicycles, &c	C. G. Garrard W. G. Jesson	$15149 \\ 15348$	23 July 2 Sept	67 75	21 Aug. 18 Sept.*
Dumb-bell, Spring-grip Dust, &c., excluder for doors	E. N. Keamy E. R. Ludbrook, A. B. and G. C.	$\frac{15271}{15222}$	19 Aug 5 Aug	67	21 Aug.*
Dust excluder for doors Dust from carpets, Extraction of	Jackson G. J. Smith The Vacuum Cleaner Company, Limited	14274 15150	25 Nov., 1901 23 July	57 67	10 July. 21 Aug.
Ear-marking lambs, &c	A. H. Ross	14273	25 Nov., 1901	75	18 Sept.
Earth-closet Earth-scoop	T. Ballinger J. B. Jackson	15445 14306	25 Sept 4 Dec., 1901	83 75	16 Oct. 18 Sept.
Easel. (See Blackboard-easel.) Easy-chair, &c	W. Aggers	14026 14407	21 Sept., 1901 8 Jan	71 71	4 Sept. 4 Sept.
Eggs, Box for carriage of Egg-beater	T. W. Coulthard W. Herdman	$15404 \\ 15400$	12 Sept 12 Sept	78 78	2 Oct.* 2 Oct.*
Eggs, Boiling, Apparatus for	W. H. Gore and H. J. K. Massey- Lawless A. Pfaff	15303	22 Aug	71 75	4 Sept.*
Ejector		$15322 \\ 15296$	28 Aug 25 Aug	75	

ALPHABETICAL LIST OF INVENTIONS-continued.

ALPHA	BETICAL LIST OF INVENTIONS—con	tinued.				
Tu-onkio-	Nama	A	pplication.	Gazette.		
Invention.	Name.	No.	Date.	No.	Date.	
Electric arc-lamp	J. P. Campbell H. McGowan J. T. Hunter	15310 15410 15070	27 Aug 18 Sept 2 July	71 28 57	4 Sept. 2 Oct.* 10 July.	
Electric-railway, Three-wire overhead system for Electrical fire-alarm Electrolytical treatment of ores, &c.	J. P. Robertson F. T. Mumford	15446 15165 14228	20 Sept 24 July 14 Nov., 1901	83 71 67	16 Oct.* 4 Sept. 21 Aug.	
Electrolytical treatment of ores, &c. Electro-magnetic waves, Transmission of power by Electro-magnetic waves, Signalling by	E. Waters, jun.	15374 15375	6 Sept.	78 78	2 Oct.	
Electro-magnetic waves, Signalling by Elevator. (See Dredge-screen and elevator, Goods-elevator, Tailings-elevator.)	E. Waters, jun.	15394 14351	10 Sept	78 63	2 Oct.	
Engine, Rotary Engine, Rotary Ensilage, Compressing	P. Ellis J. K. McNeill and W. E. Collins	15274 15376	20 Aug	71 78	4 Sept.* 2 Oct.*	
Envelope Exchange, Operating telephone Exchange, Automatic telephone	J. N. Hancock L. E. De Mole Strowger Automatic Telephone Exchange	15269 15353 15422	18 Aug 4 Sept 19 Sept	71 75 78	4 Sept.* 18 Sept.* 2 Oct.	
Exhaust from oil and gas engine, Utilising Exhausting air, Hydraulic apparatus for Explosive	H. J. Topliss and N. Ardrew W. G. Goss E. Phillips M. Bate	15339 15324 14160 15405	1 Sept 29 Aug 24 Oct 13 S pt	83 75 60 78	16 Oct.* 18 Sept.* 24 July. 2 Oct.*	
Extinguisher. (See Fire extinguisher.) Extraction of letter from box, Preventing	W. L. Davidson	15105	10 July	60	24 July.*	
Fastener. (See Sash-fastener.) Fastening. (See Boot-fastening, Mail-bag fastening.) Fastening.	E. Sprey	14166	26 Oct., 1901	63	7 Aug.	
Fastening, Boot, &c	United Shoe Machinery Com- pany	15205 15157	2 Aug 24 July	67 63	21 Aug.*	
Feed-water heater and distributor Feeding attachment to type-writing machine, Paper-	D. W. McArthur S. S. Coburn	15430 14288	23 Sept 28 Nov., 1901	78 71	2 Oct.*	
Field-gate Filament, Incandescent File, wire-twister, and rule Filter, Rain-water	J. T. Hunter A. Gray F. J. Tonkin	15312 15267 15340	27 Aug 15 Aug 1 Sept	71 71 78	4 Sept. 4 Sept.* 2 Oct.	
Filtering apparatus	7 0 1 3 7 0	14138 14133 14052	21 Oct., 1901 18 Oct., 1901 24 Sept., 1901	63 63 71	7 Aug. 7 Aug. 4 Sept.	
Fire-alarm Fire-alarm, Electrical	J. M. Graham J. P. Robertson W. H. Keon and W. O. Miller	15407 15165 15261	17 Sept	78 71 78	2 Oct.* 4 Sept. 2 Oct.*	
Fire-escape	N. H. Whisker, A. Smart, J. Wilson, and T. G. Peek J. C. Freeth and P. J. H. Munro	15387 14079	8 Sept 28 Sapt	78 57	2 Oct.*	
Fire-escape, extinguisher, and alarm Fire-escape and extinguisher Fire-escape ladder	F. Montague and J. Laffey F. Montague and J. Laffey	15155 15116	21 July 14 July 19 July	63 63 63		
Flax-stripper drum, Trueing-up surface of	J. T. Metters and C. H. Metters J. Taylor and A. E. Reeves J. Anderson	15098 14034 15185 15216	10 July 21 Sept., 1901 29 July 1 Aug	60 75 67 67	24 July.* 18 Sept. 21 Aug.* 21 Aug.*	
Flue, Stove Fluid-heater Flushing cistern Food. (See Malted food, Milk food.)	J. H. S. Brown H. W. Ward	15141 15363	22 July 5 Sept	63 75	7 Aug. 18 Sept.*	
Food, Preservation of Foot, Pneumatic Force pump	T T T T T T T T T T T T T T T T T T T	15212 15199 15242 15320	2 Aug 30 July 11 Aug 28 Aug	67 67 67 75	21 Aug.* 21 Aug.* 21 Aug.* 18 Sept.	
Foul gas in mines, Detecting Foul gas in mines, Testing	J. Hylard J. Pomeroy E. A. Conyers	15321 15087 15416	28 Aug 3 July	75 60 78	18 Sept. 24 July.* 2 Oct.*	
Frying-pan lid and strainer Fuel, Using carbonaceous liquid as Fuel-economizer, &c.	J. P. Kernbaum F. Cotton W. H. Atkin	14111 15318 15219	1 Oct., 1901 28 Aug 2 Aug	75 71	7 Aug. 18 Sept.* 4 Sept.*	
Furnace	A. Grönberg A. Nightingale R. S. Smith	15268 15156 15378	15 Aug	71 63 75	4 Sept. 7 Aug. 18 Sept.*	
Game	A. Underwood D. Gwillim	15193 15341	30 July 2 Sept	67 75	21 Aug.* 18 Sept.*	
Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor Game, Indoor	J. H. Powell A. J. Massey	15224 15107	4 Aug 11 July	67 60	21 Aug.* 24 July.*	
Gas and oil motor Gas burner and mantle. (See Incandescent gas burner and mantle.)	H. A. Nicholson	15290	19 Aug	71	4 Sept.*	
Gas-compresser, Valve for	W. H. Humble J. Hylard	15286 15320 15442	20 Aug 28 Aug 25 Sept	71 75 83	4 Sept. 18 Sept.* 16 Oct.	

ALPHABETICAL LIST OF INVENTIONS - continued.

		Applic	ation.	Gazette.	
Invention.	Name.	No.	Date.	No.	Date.
Gas-lamp. (See Acetylene gas-lamp, In-					
candescent gas-lamp.) Gas of low calorific power, Obtaining light	J. Chamberlain	15234 6	Aug	71	4 Sept.
from Gas. (See Hydrocarbon gas.)					10.0
Gas, Testing Gate	J. Hylard		Aug Sept	75 78	18 Sept.* 2 Oct.
Gate, Field	S. S. Coburn		Nov., 1901	71	4 Sept.
Gear. (See Draw-gear, Driving-gear.) Generating. (See Steam-generating.) Generator. (See Acetylene gas-generator, Hydrocarbon gas-generator, Gas-generator.)	W W D:11	15000	A	F.1	4 9 4
Gig, &c., Movable mudguard for Girth and sureingle	W. H. Diddams		Aug Mar	71 60	4 Sept.* 24 July.
Globe for illuminating purposes Gold extractor and separator	E. Bohm		July Sept	60 78	24 July. 2 Oct.*
Gold, Recovering from refractory ores	T. H. Hicks	15093 10	July	60	24 July.
Gold-saving apparatus	J. S. Weston, H. F. Chaffey, and F. E. Smith	19396 13	Sept	78	2 Oct.*
Gold-saving appliance Gold-saving apparatus	J. D. Dudley H. N. McLeod and G. A. Hurley		Sept Aug	57 71	10 July. 4 Sept.*
Gold-saving apparatus	J. Sigley	15358 5	Sept	75	18 Sept *
Gold-screen Gold-dredge screen	F. Henderson R. H. Sinnet		July Aug	71 75	4 Sept.* 18 Sept.*
Goods-elevator	M. W. Fleming	15335 30	Aug	75 75	18 Sept.* : 18 Sept.*
Grading and concentrating table	J. Fraser		Sept Sept	75	18 Sept.
Grate. (See Fire-grate.) Gravity and automatic concentrating table	J. B. Mason	15372 6	Sept	75	18 Sept.
Grinding stone, &c., Machine for	F. E. Whitham	14615 13	Mar	75 63	18 Sept. 7 Aug.
Gum-boots, Closing leaking holes in	P. H. Brown		July		J
Hair-curler Hair-curler	W. Nicol		Aug July	71 60	4 Sept.* 24 July.*
Hairdressers' rack and advertising device	P. J. Gossling	15217 1	Aug	67	21 Aug.*
Hair, Preparation for the Hames and collar and traces	C. M. Robertson J. Benson		July Sept	67 75	21 Aug.* 18 Sept.*
Hammer. (See Claw-hammer.)	A T) 4		July	60	24 July.
Handle for milk-can	G. Hughan	14145 22	Oct., 1901	63	7 Aug.
Harbour-bar removal, Canal for Hat and clothes brush	F. Lambert C. Lashlie		Aug Sept	67 75	21 Aug.* 18 Sept.*
Hats, Securing	T. W. North, E. Jennings, W. Reece, and H. Forwood		Sept	83	16 Oct.
Heater. (See Fluid-heater, Feed-water heater, Water-heater.)	10eece, and 11. Polwood				
Heating of school-rooms, &c	M. Arragon W. B. Brain and E. Brain		Sept	83 75	16 Oct.* 18 Sept.*
Hedge-clipping machine	E. Collins	15231 7	Aug	67	12 Aug.*
Heel to boot, Attaching	A. F. Davis W. H. Bowick		Aug July	75	18
Hilling and breaking-up ground, Implement for	J. Brasting		Sept	75	18 Sept.*
Hinge Hoist and truck, Portable	R. Dunne M. W. Fleming		July Sept	63 78	7 Aug. 2 Oct.*
Holder. (See Candle - holder, Bicycle - holder, Cow leg holder.)	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,			-	
Holding bag for filling Hook. (See Spring-hook.)	J. Orr, jun.	15120 14	July	63	7 Aug.
Horse-collar	T. W. North		Sept	75	18 Sept.*
Horse-cover Horse-covers, Securing	J. Maclean C. W. Wycherley		Aug., 1901 March	67 67	21 Aug. 21 Aug.*
Horse, Race-, lead-bag	J. Neagle	14398 4	Jan	71 63	4 Sept.
Horse-race starting-machine	A. Cometti	14239 19	Oct., 1901 Nov.	78	7 Aug. 2 Oct.
Horseshoe, Rubber-pad for	W. Waters P. H. Brown		Sept July	83 63	16 Oct.* 7 Aug.
Hydraulic apparatus for exhausting air	W. G. Goss]			
Hydraulic duplex oil-brake Hydro carbon gas, Production of Hydro-carbon gas generator	G. W. Blanks W. B. Walters J. Watt and B. Watt.	15260 16	Sept Aug Sept	75 71 78	18 Sept.* 4 Sept * 2 Oct.*
Illuminant	J. G. Massie		Aug	67	21 Aug.
Incandescent filament and mantle Incandescence gas or vapour lighting	J. T. Hunter The Flameless Gas-light Com-		Aug July	71 63	4 Sept. 7 Aug.
Incandescent gas-burner and mantle Incandescent lamp, Advertising attachment to	pany, Limited A. C. Aucher C. E. Thies and L. E. Lowrey		Sept July	60 60	24 July. 24 July.*
Incandescent mantle	G. Buhlmann		July	63	7 Aug.*
	E. A. Temperley R. L. Suckling		Aug	75	18 Sept.*

ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.	Name.	A	pplication.		Gazette.
7210000	rome.	No.	Date.	No.	Date.
Indicator. (See Temperature-indicator, Target score-indicator, Table-tennis score-indicator.)					
Indoor game. (See Game.) Ink, Printers' varnish and Inlet of suction-pipe Inserting fastenings Insulating walls, &c. Iron. (See plane-iron.)		15169 15334 15205 15273	22 July 30 Aug 2 Aug 20 Aug	63 75 67 71	7 Aug. 18 Sept.* 21 Aug.* 4 Sept.*
Jack. (See Lifting-jack.) Joint for locking-bar type of pipe	G. J. Hoskins	15386	8 Sept	78	2 Oct.
Kerosene in oil-engines, Use of Knife-cleaner Knife cleaner and sharpener	W. B. Brain and E. Brain M. Earle S. Nicolson	15323 15235 15276	26 Aug 2 Aug 20 Aug	75 67 71	18 Sept.* 21 Aug.* 4 Sept.*
Lacing of boots, belts, &c	G. Turner	15360	5 Sept	83	16 Oct.
Ladies' skirts, Measuring Lamb, Docking, &c. Lamb, Docking, &c. Lamp, Acetylene-gas Lamp-bracket Lamp, Fitting for electric Lamp-wick Lance, Whaling	W. Desmond H. McGowan	15392 15117 14273 15218 15278 15410 15307 14042	10 Sept. 14 July 25 Nov., 1901 1 Aug 21 Aug 18 Sept 25 Aug 24 Sept	78 78 75 67 78 78 75	2 Oct.* 2 Oct.* 18 Sept. 21 Aug.* 2 Oct.* 2 Oct.* 18 Sept.* 10 July.
Lathe, Screw-cutting, Attachment to Lead-bag for horse-race Lead-headed nail Leather-skiving machine Leg of cow, Holding Letter-copying, Damping apparatus for Letter, Preventing extraction of from box Lid. (See Closet-seat lid, Frying-pan lid,	F. Simpson J. Neagle	15187 14398 15214 15207 15425 15431 15105	29 July 4 Jan 81 July 2 Aug 19 Sept 23 Sept 10 July	67 71 67 67 78 78 60	21 Aug.* 4 Sept. 21 Aug.* 21 Aug.* 2 Oct.* 2 Oct.* 24 July.*
milk-can lid.) Life-saving appliance Lifting-jack Light from gas of low calorific power, Obtaining	F. A. Miller	15338 15388 15234	1 Sept 12 Sept 6 Aug	83 78 71	16 Oct. 2 Oct. 4 Sept.
Line. (See Clothes-line.) Liquid-fuel Liquid-seal cover Lock. (See Mail-bag lock, Wheel-lock,	F. Cotton H. J. Jones	15318 14749	28 Aug 17 April	75 78	18 Sept. 2 Oct.
Nut-lock.) Lock	F. M. Canda	15183 15125 15386	24 July 17 July 8 Sept	67 63 78	21 Aug.* 7 Aug. 2 Oct.
Mail-bag fastening	R. H. Easdown J. P. Kernbaum A. A. S. Smith J. M. Pinnock	15077 14111 15162 15114	3 July 10 Oct., 1901 24 July 11 July	63 63 63 63	7 Aug. 7 Aug. 7 Aug. 7 Aug.
Mantle. (See Incandescent gas-mantle.) Manure-distributing attachment to plough Manure from waste products, Manufacture of	F. W. Sudholz W. H. Metcalfe	15398 15313	13 Sept 27 Aug	78 75	2 Oct.* 18 Sept.
Marine steam-turbine Marine screw propeller Match-boarding, Cramp for Match-holder, &c Match-striker Mattress and bedstead Mattress-filling machine Mattress. (See Wire mattress.)	J. Francis P. J. Gossling	15351 15444 15108 15256 14442 15283 15298	4 Sept 25 Sept	75 83 67 60 71 71	18 Sept. 16 Oct.* 21 Aug.* 24 July. 4 Sept. 4 Sept.
Mattress, bed, and bolster Meat, Distribution of Measuring ladies' skirts Mechanical milking Medicated biscuit Medicinal compound Mercury, &c., from ore-pulp, Separating Mercury from amalgam, Separating	E. H. Luxford A. Wilkie C. M. Brophy D. T. Sharples J. S. Rutherfurd J. Fraser T. H. Hicks T. H. Hicks	15355 15331 15392 15309 15074 15371 15092 15094	4 Sept	75 78 71 57 75 60 60	18 Sept.* 18 Sept. 2 Oct.* 4 Sept. 10 July. 18 Sept.* 24 July. 24 July.
Meter. (See Current-meter.) Milk food Milk-strainer Milk straining-pan Milking, Mechanical Milk-can lid Milk-can handle Milk-cooler Milking apparatus Mines, Detecting foul gas in	D. R. S. Galbraith J. Kerr W. Harvey D. T. Sharples J. T. Love G. Hughan J. Kerr W. H. Lawrence	15368 15292 15299 15309 15250 14145 15293 15151 15320	6 Sept	75 71 71 71 67 63 71 67 75	18 Sept.* 4 Sept.* 4 Sept. 4 Sept. 21 Aug.* 7 Aug. 4 Sept. 21 Aug. 18 Sept.*

ALPHABETICAL LIST OF INVENTIONS—continued.

	Veme	Al	pplication.		Gazette.
Invention.	Name.	No.	Date.	No.	Date.
Mines, Testing foul gas in	J. Hylard	15321	28 Aug.	75	18 Sept.*
Mitre-cutting machine		15176	23 July	63	7 Aug.*
Mitre-cutting machine	R. Dunne	15243	8 Aug	67	21 Aug.*
Moths, Capturing, at night time	D. Thompson	15195	31 July	67	21 Aug.*
Motion of steam-engine, Reversing	T 01 35 1	15285	22 Aug	71	4 Sept.*
Motive power	J. G. Massie	15233	4 Aug	67	21 Aug.
Motor. (See Electric-motor.)	A. R. Wilkins and J. W. Odering	15306	25 Aug	75	18 Sept.*
Motor attachment to bicycle		15230	7 Aug	67	21 Aug.*
Moving target, Operating		14133	18 Oct	63	7 Aug.
Mud-guard for gig, &c., Movable		15297	25 Aug	71	4 Sept.*
Music-books, Attachment to piano for hold		15188	29 July	67	21 Aug.*
ing					-
	TT '/ - I Ch M him Common -	15/19	18 Sept	78	2 Oct.*
Nails, Assorting	G Guardania	15413 15214	18 Sept 31 July	67	21 Aug.*
Nail, Lead-headed	G. Croxford	10214	or sury	"	21 1146.
Nail. (See Roofing-nail.) Net apparatus, Ping-pong	C. McIntyre, F. C. Palethorpe,	15344	3 Sept	75	18 Sept.*
Ties apparatus, 1 mg-pong	and J. S. Schwartz		-	1	
Newspaper-delivery box, Weather-proof .		15236	2 Aug	67	21 Aug.*
Nicotine-trap for tobacco-pipe	W. A. Ede-Clendinnen	15384	11 Sept	78	2 Oct.
Non-refillable bottle		15085	5 July	60	24 July.*
N OH 11 . 1 . 443	perell Wellennen and I W Pan	15106	9 July	60	24 July.*
Non-refillable bottle	T. C. McLennan and J. W. Pepperell	19100	9 July	00	2± oury.
NT C11 hattle	m o Di 1144	14050	25 Sept., 1901	63	7 Aug.
Non-refillable bottle	1	15346	3 Sept	75	18 Sept.
Non-refilable bottle	T. A. Garratt	15326	26 Aug	75	18 Sept.*
Nut-lock	T T 7 7 7 7	15280	19 Aug	71	4 Sept.*
		1	l		10.0
Oil or gas engine, Use of heavy oils in .		15323	26 Aug	75	18 Sept.*
Oil and gas motor		15290	19 Aug	71	4 Sept.*
Oil-brake, Hydraulic duplex		15352	4 Sept	75 83	18 Sept.* 16 Oct.*
Oil and gas engine, Utilising exhaust from		15339 15095	1 Sept	60	24 July.
Ore-concentrator			10 July	63	7 Aug.
Ore-pulp, Separating	pany	19000	=====================================	""	
Ore-pulverizer, Single-ball	m Tr Tri lan	15096	10 July	60	24 July.
	. F. T. Mumford	14228	14 Nov	67	21 Aug.
Overhead system of electric railway .		15446	20 Sept	83	16 Oct.*
Outrigger vehicle draw-gear	. R. D. Kelly	15254	15 Aug	67	21 Aug.*
The old to the control of the contro	. T. Deane	15173	24 July	63	7 Aug.*
Packing tea, &c	4 77 57 11	15403	16 Sept	78	2 Oct.*
Packing tea, &c		10100		'-	
Paint-brush binder	. C. Sawyer	15319	28 Aug.*	٠.	
Pan. (See Bed-pan, Milk-straining pan.)				l	
Paper-feeding attachment to type-writer.	. D. W. McArthur	15430	23 Sept	78	2 Oct.*
	. W. Brain and E. Brain	15323	26 Aug	75 75	18 Sept. 18 Sept.
	. R. J. Keys	15342 15275	2 Sept 20 Aug	71	4 Sept.*
Pedal. (See Bicycle-pedal.)	. C. W. Penny	10210	20 11.08	'-	I Sopti
Peg. (See Clothes-peg.)					
Pen. (See Fountain-pen.)		1 -	,	1	
Physical exercise, Rowing-machine for .	. L. W. Grayson and C. S. Cunning-	15439	20 Sept	83	16 Oct.*
	ham		20 T 1	077	01 4
Pianoforte, Music-holder attachment to .	R. Chambers		29 July 17 July	67	21 Aug.* 7 Aug.*
Pie-dish	E. B. Arthur T. Herbert	4 4 6 6 6 6	19 June	60	24 July.
	. C. McIntyre, F. C. Palethorpe,	15344	3 Sept	75	18 Sept.*
	and J. S. Schwartz		· -		_
Pipe-coupling	. W. H. Keon	15349	4 Sept	75	18 Sept.*
Pipe. (See Tobacco-pipe.)			10.0		0.0 4 "
Plane-iron	. J. Creamer	15415	18 Sept 1901	78	2 Oct.*
	. E. H. Slater	14213	12 Nov., 1901	63	7 Aug.
Plant. (See Pot-plant.)	. R. J. L. Witty	15311	27 Aug	71	4 Sept.
Planting notatoes	R. J. L. Witty	15453	25 Sept	83	16 Oct.
Plate	. G. F. F. Davis and F. C. Williams	15130	18 July	63	7 Aug.
Plough	. J. Anderson	15170	25 July	63	7 Aug.
Plough, Trenching and ditching	. E. T. R. and J. G. Coates and W.	15251	12 Aug	71	4 Sept.
	K. Elder	15000	19 Cont	70	2 00* *
Plough, Attachment to	F. W. Sudholz	15398 15272	13 Sept 20 Aug	78	2 Oc t.* 4 Sept.*
Plough, Attachment to Plug-brick Pneumatic foot Pneumatic inner tube of tire	C. W. Langstone J. Johnson	15199	30 July .	67	21 Aug.*
Pneumatic inner tube of tire	. E. E. A. Esse	15121	17 July	63	7 Aug.
	. F. H. Killingsworth and P. Raw-	15305	25 Aug	71	4 Sept.*
	son	1	, -		
Pot-plant watering-tray	. W. H. Lawrence	14264	21 Nov	60	24 July.
Potato-chipping machine	. J. Whitelaw and J. Munro	1	16 Sept	78	2 Oct.
Potato-planter	. C. L. Jervis		25 Sept	83	16 Oct. 2 Oct.*
Potato-planting attachment to plough	. F. W. Sudholz	4 40 - 4	13 Sept 6 Sept	78	2 Oct.
Power by electro-magnetic waves, Tran mission of	E. Waters, jun	10914	o sepu	10	2 000.
	. F. M. Hunt	15295	25 Ang	75	18 Sept.*
TIOSOLIWITO TOL DUBUOL					

ALPHABETICAL LIST OF INVENTIONS—continued.

ALPHA	BETICAL LIST OF INVENTIONS—cont	inued.		
Invention.	Name.	Applicat	ion.	Gazette.
18 Ve ntion.	маше.	No. E	ate.	No. Date.
Preservative for eggs	C. Beale United Shoe Machinery Com-	15322 28 A 15212 2 A 15228 7 A	ug (75 18 Sept.* 67 21 Aug.* 67 21 Aug.
Preparation for the hair Prepayment and recording current meter Printers' varnish and ink Printing in gold, &c., powders Privy receptacle	G. L. Gowlland A. G. Wass The Linotype Company, Limited J. Walker	15194 31 Ja 15100 10 Ja 15169 22 Ja 15414 18 Sa 15084 4 Ja	uly 6 uly 6 ept. 7 uly	57 21 Aug.* 50 24 July. 53 7 Aug. 78 2 Oct.
Propeller, Marine screw- Propelling and sustaining boats Protector, cuff or sleeve Protecting bank of river, &c. Pulverizer, Single-ball ore- Pump for low lifts	H. E. McDonald J. F. Rose	15444 25 S 15432 23 S 15448 26 S 15113 12 J 15096 10 J 15451 26 S	ept	33
Pump. (See Force-pump.) Rabbit-packing, Crate and cramp for Rabbit-trap Rabbit-trap, Attachment to Race starter and timer Race. (See also Horse-race, &c.)	J. Lindsay J. Campbell J. T. Good W. Nicol	14747 14 A	ept 7 pril 7	75 18 Sept.* 75 18 Sept.* 8 2 Oct. 21 Aug.
Rack. (See Hairdressers' rack, Broom rack.) Railway-truck coupling Railway-traffic control system	J. T. Woods W. Rowe	15104 10 Ju 15316 28 A		50 24 July.* 5 18 Sept.
Railway. (See Electric railway.) Rain-excluder for doors Rain excluder for door	G. J. Smith	14274 25 N 15222 5 A	ov	7 10 July. 7 21 Aug.*
Rain-water strainer Raising and lowering Venetian blinds Range. (See Cooking range.)	Jackson F. J. Tonkin W. Conyers	15340 1 Se 14322 12 D		78 2 Oct. 75 18 Sept.
Range-finder Reaping-machine, Fingers for Receptacle-handle Receptacle, Privy Recorder (See Vote-recorder, Billiard-	C. A. Trotter R. Cresswell A. R. Ayson J. Walker.		ot., 1901 6	1 4 Sept. 7 Aug. 24 July.
Reducing stone, &c., Machine for Refractory ores, Recovering gold from Register and indicator, Cash	F. E. Whitham T. H. Hicks G. Andrew	14615 15093 14110 10 O	ıly 6	75 18 Sept. 60 24 July. 7 Aug.
Regulator. (See Shear-regulator.) Repairing-patch for bioycle-tire Reshaping rolled products	C. W. Stephenson Foreign McKenna Process Com- pany	15109 15327 26 A		24 July.* 18 Sept.
Retainer. (See Door-retainer.) Reversing motion of steam-engine Rheumatism, Medicinal compound for River-banks, Protecting River-bar removal, Canal for Road-making, Treating clay for Rock-drill Rock-drill Rolled products, Reshaping	J. F. Rose F. Lambert J. T. Steele W. Brady J. Cox Foreign McKenna Process Com-		ept	1 4 Sept.* 18 Sept.* 14 Sept. 14 Sept. 17 21 Aug.* 17 Aug. 18 Sept. 19 16 Oct. 18 Sept.
	F. Giles P. Ellis W. A. E. Henrici St. C. N. H. Macdonald L. W. Grayson and C. S. Cunning-	15386 8 Sc 15075 3 Ja 15247 14 A A 15274 20 A 14351 18 D 15132 18 Ja 15439 20 Sc	ıly 6 ug 7 ug 7 ec., 1901 6 ıly 6	78 2 Oct. 24 July.* 4 Sept.* 14 Sept.* 7 Aug. 7 Aug.* 16 Oct.*
Rubber-heel, Attaching, to boot Rubber-pad for horse-shoe Rule, file, and wire-twister Ruler and blotting-pad Running-out barb-wire	ham W. H. Bowick W. Waters A. Gray C. N. Hodder and J. Rogers N. C. Innes	15187 18 July 15440 20 Se 15267 15 Au 15128 14 July 15191 29 July 15191 29 July 15187 1518	ept 8 ug 7 aly 6	16 Oct.* 14 Sept.* 17 Aug.* 14 Sept.*
Saddle tool-bag Sandal	A. Gray S. Smith and H. R. Smith	15266 15 A 15178 25 Ju	ıl y 6	1 4 Sept.* 21 Aug.* 3 7 Aug.*
Sash-fastener Sash-fastener Sash-fastener Sash, Securing cord to Saving. (See Life-saving appliance, Gold-	A. F. W. Lorie G. Simpson J. G. Reilly J. Armstrong	15145 19 Ju 15337 30 Au 15441 25 So 15449 26 So	ug 7	8 2 Oct. 5 18 Sept. 16 Oct.*
saving.) Saw-set Scarifier Scoop, Earth- Score-indicator, Target Score-indicator for table-tennis, &c. Score, Recording billiard	J. B. Jackson J. McKay A. K. Smith	14306 4 D	ept 7 ec., 1901 7 ept 7 ept 7	18 Sept.* 18 Sept.* 18 Sept. 18 Sept. 18 Sept. 18 Sept. 2 Oct. 21 Aug.*

ALPHABETICAL LIST OF INVENTIONS—continued

ALPH	ABETICAL LIST OF INVENTIONS—con	ıtinued.			
Invention.	Name.	A	pplication.		Gazette.
AN COLUMN		No.	Date.	No.	Date.
Screen. (See Dredge-screen, Gold-screen.) Screw. (See Roofing-screw.) Screw	G. C. Smith F. Simpson	12105	30 July 29 July 25 Sept	67 67 83	21 Aug. 21 Aug.* 16 Oct.*
Scutching-machine for flax Scuttle. (See Coal-scuttle.) Seal-cover, Liquid	J. Taylor and A. E. Reeves H. J. Jones	14034 14749	21 Sept., 1901 17 April	75 78	18 Sept. 2 Oct.
Seal-lock for mail-bag, &c	American Tobacco Company	15162 15246 15200	24 July 14 Aug	63 71 67	7 Aug. 4 Sept. 21 Aug.*
Securing cams, &c., Locking-device for Securing hat on head	F. M. Canda T. W. North, E. Jennings, W. Reece, and H. Forwood	15125 15464	17 July 29 Sept	63 83	7 Aug. 16 Oct.
Self-flushing time-valve for sewage-distribution Schoolrooms, &c., Heating	ward	15418	18 Sept	78 83	2 Oct. 16 Oct.*
Seed-setter Self-sealing closet-seat Separating gold from alluvial wash Separating mercury, &c., from ore-pulp Separating mercury from amalgam Separating ore-pulp	R. J. L. Witty T. D'A. C. Maxted F. Henderson T. H. Hicks T. H. Hicks	15311 15409 15197 15092 15094 15099	27 Aug	71 78 71 60 60 63	4 Sept. 2 Oct.* 4 Sept.* 24 July. 24 July. 7 Aug.
	W. Aggers H. U. Alcock	14026 15373	21 Sept., 1901 6 Sept	71 75	4 Sept. 18 Sept.*
Sewage on to filter-beds, Distributing	E. S. Baldwin and H. H. Rayward	15417	18 Sept	7 8	2 Oct.
Sewage distribution, Self-flushing time- valve for	ward	15418	18 Sept	78 67	2 Oct.
Sewing machine, Welt- Sewing-palm, Attachment to Shaft-bush, Removable Shaft, Support-bearing for Sharpener, Knife Shear-regulator Shearing-machine Shearing-tool, Transmitting motion to cutter of	F. Haar T. Stevenson J. A. Moyes and J. Hopkirk S. Nicolson W. Borlase C. Tandy	15206 14333 15419 15147 15276 15172 14244 15091	2 Aug	67 71 78 71 63 71 83	21 Aug. 4 Sept. 2 Oct. 4 Sept.* 7 Aug.* 4 Sept. 16 Oct.
Shears. (See Sheep-shears.) Sheep-shears	R. Featherstone O. Börs T. McGee C. J. Shipway and H. May T. Danks Sir W. G. Armstrong, Whitworth,	15066 15161 15382	17 July 22 Aug 19 Sept 1 July 24 July 9 Sept 17 July	63 71 78 57 63 83 63	7 Aug. 4 Sept. 2 Oct.* 10 July.* 7 Aug. 16 Oct. 7 Aug.
Shoulder-strap for school-bag Show-case, Axe	and Co., Limited G. Goosman E. O. Risstrom M. B. Silk	15196 15385 15166	28 July 11 Sept 24 July	67 78 63	21 Aug.* 2 Oct. 7 Aug.
Shutter. (See Window-shutter.) Signalling by electro-magnetic waves Signalling by electro-magnetic waves Signalling by electro magnetic waves Sit from tanks, Automatically ejecting Single ball ore-pulverizer Siphon Skirt. (See Ladies' skirt.)	E. Waters, jun R. H. Coltman	15374 15375 15394 15281 15096 15302	6 Sept 6 Sept	78 78 78 78 60 71	2 Oct. 2 Oct. 2 Oct. 2 Oct. 24 July. 4 Sept.
Skiving-machine Skiving-machine Skiving machine, Leather- Slag, Utilising heat of Sliding rod vehicle-wheel lock Sluice-box, Breaking clay in Smoke-cooling attachment, &c., to tobacco-	United Shoe Machinery Company United Shoe Machinery Company G. Mitchell and L. D. Copeland T. Firth	15203 15204 15207 15424 15369 15182 15384	2 Aug	67 67 78 75 67 78	21 Aug.* 21 Aug.* 21 Aug.* 2 Oct. 18 Sept.* 21 Aug.* 2 Oct.
pipe Smoke-consumer	R. D. Brett and T. P. Wood W. H. Atkin E. Smyth and F. Currie E. Dimant United Shoe Machinery Company	15229 15219 15252 15101 15228	7 Aug	71 71 67 60 67	4 Sept. 4 Sept.* 21 Aug.* 24 July.* 21 Aug.
Spanner attachments Spark-arrester Spark-arrester Spark-arrester Spark-arrester Spark-arrester Spark-arrester	P. Rayson J. Whitehouse N. Watt J. Mallett R. Hollis, J. A. Cockburn, and	15159 15429 15362 15315 15167	24 July 22 Sept 5 Sept 27 Aug 24 July	63 78 75 75 63	7 Aug. 2 Oct.* 18 Sept.* 18 Sept.* 7 Aug.*
Spark-preventer, &c Spraying-machine	C. E. Grindrod C. Rillstone C. A. Loader	15112 14313	8 July 4 Dec., 1901	60 75	24 July.* 18 Sept.

ALPHABETICAL LIST OF INVENTIONS—continued.

Invention.	Name.	Aı	plication.	Gazette.		
Inventor.	Name.	No.	Date.	No.	Date.	
Spreading liquid over given areas	E. S. Baldwin and H. H. Rayward	15417	18 Sept	78	2 Oct.	
Spring-grip dumb-bell Spring-hook Springs. (See Vehicle-springs.)	E. N. Keamy L. D. Robertson	15271 15328	19 Aug	75	18 Sept.*	
Stage for bushfelling Staple-drawer and claw-hammer	C. Cross	15450 15265	26 Sept 15 Aug	83 71	16 Oct. 4 Sept.*	
Staple-drawer, &c	E. Gifford and R. R. Holmes	15253	15 Aug	83	16 Oct.*	
Steam-boiler furnace Steam-boiler	E. Maslin L. C. Auldjo	15079 15102	3 July 10 July	60 60	24 July. 24 July.	
Steam-condenser	C. E. Nicholas A. I. Senior	14583 15285	6 Mar 22 Aug	60 71	24 July. 4 Sept.*	
Steam-engine, neversing motion of Steam-generating, Utilising heat of slag for	G. Mitchell and L. D. Copeland	15424	19 Sept	78	2 Oct.	
Steam-turbine, Marine	Hon. C. A. Parsons J. M. Armour	15351 15287	4 Sept 20 Aug.*	75	4 Sept.	
Step-ladder, desk, &c	United Shoe Machinery Company	15208	2 Aug	67	21 Aug.	
Stone. (See Artificial stone.) Stove, Removable flue for Strainer. (See Wire-strainer, Rain-water	H. W. Campbell	15216	1 Aug	67	21 Aug.*	
strainer, Milk-strainer.) Strainer and frying-pan lid	A. C. Murray	14120	14 Oct., 1901	63	7 Aug.	
Street-sweeping machine Street-sweeper	W. Waters	15143 15397	17 July 13 Sept	63 78	7 Aug. 2 Oct.*	
Striker. (See Match-striker.) Suction-pipe, Inlet of Sunshade, verandah-roof, and window- shutter	J. Smaill A. Jones	15334 14123	30 Aug 10 Oct., 1901	75 60	18 Sept.* 24 July.	
Support-bearing for shaft	J. A. Moyes and J. Hopkirk J. Moroney	15147 14629	23 July 15 Mar	60	24 July.	
Surpender	D 0-4:-	15083	15 Mar	71	4 Sept.*	
Suspender	R. Curus	10000	1.001	78	2 Oct.	
Sweepings carrying machine Sweetmeats, Manufacture of	W. Waters W. Leitch	15143 15158	17 July 24 July	63 63	7 Aug.* 7 Aug.	
Fable desk, &c Fable game	J. M. Armour J. H. Powell	15287 15224	20 Aug 4 Aug	67	21 Aug.*	
Table-tennis, &c., Score-indicator for Table. (See Billiard-table, Grading-table, Concentrating-table.)		15393	10 Sept	78	2 Oct.	
Pailings elevator	F. W. Payne J. R. Sigley	15343 15301	30 Aug 22 Aug	78 71	2 Oct. 4 Sept.*	
Tank, Concrete Tank, Ejecting silt from	D TT 0-14	15281	22 Aug 22 Aug	78	2 Oct.	
Tank, Preventing refuse passing into	H. Hammond	15129	18 July	71	4 Sept.	
Tank, Water	J. J. Austin R. Cosslett	15171 15202	25 July 30 July	67	21 Aug.	
Tap	F. M. Gaudet	15068	2 July	57	10 July.	
Target, Operating moving	J. W. Porter J. McKay	15230 15354	7 Aug 4 Sept	67 75	21 Aug.* 18 Sept.*	
Target score-indicator Tea. (See Packing tea, &c.) Team, Yoking horse-	W. H. Cochrane	15189	29 July	67	21 Aug.*	
Telegraphy. (See Wireless telegraphy.) Telephone exchange, Automatic	Strowger Automatic Telephone	15422	19 Sept	78	2 Oct.	
Telephone exchange, Operating	Exchange L. E. De Mole	15353	4 Sept	75	18 Sept.*	
Temperature indicator, Change of	R. Keyte	14198	6 Nov., 1901	67	21 Aug.	
Tension-bridge Testing foul gas of mines		15238 15321	8 Aug 28 Aug	67 75	21 Aug.* 18 Sept.*	
Thermometer, Electric-alarm	A. Johnston	15332	28 Aug	75	18 Sept.*	
Three-wire system of overhead construction limer. (See Race-timer.)		15446 14239	20 Sept	83 78	16 Oct.* 2 Oct.	
Time-handicap, Starting horses on Tip-dray Tires. (See Bioycle-tires, Wheel-tires.)	A. Cometti G. Burren	15455	19 Nov., 1901 30 Sept	83	16 Oct.*	
Tobacco-pipe, Nicotine-trap, &c., for	W. A. Ede-Clendinnen W. E. Shaw	15384 15209	11 Sept 2 Aug	78 67	2 Oct. 21 Aug.*	
Tobacco box, Transporting	A. Gray	15266	15 Aug	71	4 Sept.*	
Toy	F. Hornby	14407	8 Jan	71 63	4 Sept.	
Trailed carriage, Connecting bicycle with Transmitting motion to cutter of shearing- machine		15177 15091	26 July 10 July	83	7 Aug. 16 Oct.	
Transmission of power, &c., by electromagnetic waves	E. Waters, jun	15375	6 Sept	78	2 Oct.	
Trap. (See Animal-trap, Rabbit-trap, Rat- trap.) Tray. (See Pot-plant watering-tray.)						
Tread, Divided, for boot, &c	E. Dimant	15101	10 July	60	24 July.*	
Trenching-plough	E. T. R. Coates, J. G. Coates, and W. K. Elder	15251	12 Aug	71	4 Sept.	

ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.	Name.	Application.	Gazette.	
invention.	ивше.	No. Date.	No. Date.	
Crotting-race starter Crough. (See Animal - feeding trough, Watering-trough.)	A. Cometti	14239 19 Nov., 190	1 78 2 Oct.	
Prouser-clip Pruck and hoist, Portable Pruck-coupling. (See Railway-truck coup-	P. Scoringe		. 78 2 Oct.* . 78 2 Oct.*	
ling.) Crueing up surface of flax stripper drum Cruss for rupture	R. W. Gibbs	12001 0 0 1	. 67 21 Aug.* . 78 2 Oct.	
Tube of tire, Inner pneumatic	C. E. A. Esse T. Danks	15382 9 Sept		
Curning boots, &c., Machine for Cypewriter, Paper-feeding attachment to	D. W. McArthur	15430 23 Sept	. 60 24 July.* . 78 2*Oct.*	
Umbrella Unilising exhaust from oil and gas engine Utilising heat of slag	H. J. Top iss and N. Andrew G. Mitchell and L. D. Copeland.	15339 1 Sept	. 83 16 Oct.*	
Valve Valve for ammonia gas-compressor Valve, Self-flushing time-, for sewage dis-	H. L. Wallace W. H. Humble E. S. Baldwin and H. H. Rayward	15423 19 Sept 15286 20 Aug, . 15418 18 Sept	. 78 2 Oct. . 71 4 Sept. . 78 2 Oct.	
tribution Varnish, Printers' ink and Vehicle-wheel Vehicle, Attachment to, for use as a sail	A. G. Wass H. E. McDonald H. Thatcher	15389 12 Sept.	. 63 7 Aug. . 78 2 Oct.* . 75 18 Sept.	
and advertiser Vehicles, Outrigger draw-gear for Vehicle-spring Vehicles, Spreader for draught chains of		15144 17 July .	. 67 21 Aug.* . 63 7 Aug.* . 67 21 Aug.	
Venetian blind. (See under Blind.) Ventilating boots, &c		1	. 78 2 Oct.* . 60 24 July. . 83 16 Oct.	
Verandah-roof, window-shutter, and sun- shade	turing Company	14123 10 Oct	. 60 24 July. . 63 7 Aug.*	
Wad. (See Ammunition-wad.) Walls, &c., Deadening or insulating		:	. 71 4 Sept.*	
Wash-tub	J. J. Mason	15181 28 July . 14036 4 April, 190	71 4 Sept.* 1+ 60 24 July.	
Waste animal product, Manure from Water-closet, &c		15313 27 Aug	. 75 18 Sept. . 78 2 Oct.* . 78 2 Oct.* . 78 2 Oct.*	
Nater-heater. (See Feed-water heater.)	A. A. Campbell J. Cowan	15901 10 0	. 78 2 Oct.* . 63 7 Aug.	
tray.) Watering-trough, Animal	N. W. Griswold A. F. Roy	4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 63 7 Aug. . 71 4 Sept.*	
Water-sprinkling cart Water-wheel	H. Anscombe and G. Russell W. Aitken	15473 30 Sept 15080 1 July* .	. 83 16 Oct.*	
Weatherproof newspaper-delivery box Well-driving Welt-sewing machine	G. L. Pearson United Shoe Machinery Company	14900 23 May . 15206 2 Aug	. 63 7 Aug. . 67 21 Aug.	
Whaling-lance	E. Berg	15232 7 Aug 15223 6 Aug	. 67 21 Aug.* . 67 21 Aug.	
Wheel-lock Wheel. (See Water-wheel.) Wheel-tire compressing apparatus	J. M. Chambers	15050 0 7-1	20 04 T 1	
Wheel of boot-finishing machine Wheel, Vehicle- Wick, Lamp	G. H. Catt H. E. McDonald R. L. Suckling	15389 12 Sept	. 78 2 Oct.*	
Vindow-blind Vindow, Securing Vindow-sash fastener	T. McMillan J. D. Tripe G. Simpson	15427 20 Sept	. 78 2 Oct.* . 67 21 Aug . 75 18 Sept.	
Window-sash fastener Window-shutter, sunshade, and verandah- roof	J. G. Reilly A. Jones	14123 10 Oct	. 60 24 July.	
Vire, Attaching, to bedsteads Vire-coiler and uncoiler Vire-cutter, &c	E. J. Restorck			
Vire-fence strainer Vire mattress	J. F. Kilburn H. J. Brundell W. A. Garrett	15123 17 July 15452 26 Sept.	. 63 7 Aug.* . 83 16 Oct.*	
Vire mattress	W. T. Riley H. A. Robinson and S. Robinson N. C. Innes	14219 14 Nov. 15333 30 Aug.	. 60 24 July.	

ALPHABETICAL LIST OF INVENTIONS - continued.

Invention.			Name.		A	plication.		Gazette.	
Invention.			Nan	ue.		No.	Date.	No.	Date.
Wire-strainer			H. F. Stewart	•••		15198	29 July	71	4 Sept.*
Wire-strainer			J. Sadlier			15264	15 Aug	71	4 Sept.*
Wire-strainer			C. A. Bergersen			15406	16 Sept	. 99	27 Nov.
Wire-strainer			W. A. Tuck, jun.			14357	16 Dec., 1901	78	2 Oct.
Wire-strainer, &c			E. Gifford and R.	R. Holmes		15253	15 Aug	83	16 Oct.*
Wire twister, file, and rule			A. Gray	• •	• • •	15267	15 Aug	71	4 Sept.*
Wireless telegraphy, Receiv	er for	••	Sir O. J. Lodge, A. E. E. Robinson	. Muirhead	, and	15383	11 Sept	78	2 Oct.
Writing-desk, &c	•••		J. M. Armour	• •	• •	15287	20 Aug.*		
Yoking horse-team	••		W. H. Cochrane	••		15189	29 July	67	21 Aug.*

List of Applicants for Registration of Designs.

A LPHABETICAL list of applicants for registration of designs for quarter ending 30th September, 1902 (including also applications lodged prior to but gazetted during the quarter).

Name and Address.				Design.			Gazette.		
		No. of Class.	No.	Date.		No.	Date.		
Bacon, R. H., Brisbane, Queensland		4	163	11 Jan.		67	21 Aug.		
Eller and Son, Wellington, N.Z		3	170	23 Sept.		87	30 Oct.		
Kirkman and Denison, Auckland, N.Z.		2	161	23 July		63	7 Aug.		
Lewis, J., Greytown North, N.Z		1 j	159	15 July		63	7 Aug.		
Ranger, H. J., Christchurch, N.Z.		1	162	28 July		67	21 Aug.		
Robinson, J., Christchurch, N.Z		3 -	160	21 July		63	7 Aug.		

List of Applicants for Registration of Trade Marks.

A LPHABETICAL list of applicants for registration of trade marks for quarter ending 30th September, 1902 (including also applications lodged prior to but gazetted during such quarter).

N		Class.	App	Gazette.		
Name.	Address.		No.	Date.	No.	Date
Abraham F., and Co	London	42	3889	19 Aug	75	18 Sept.
Alaska Packers' Association	San Francisco	42	3897	22 Aug	71	4 Sept.
Anderson and Shaw	Glasgow	43	3722	21 March	60	24 July.
Armour, A. B., and another	Blackstone Hill, N.Z	47	3866	30 July	67	21 Aug,
Ashwin, M. M. B	Waiheke Island, Auck	42	3915	1 Sept	71	4 Sept.
	land			_		_
Ballantyne, J., and Co	Christohurch	38	3864	26 July	63	7 Aug.
Bamford, C. E	Hautapu, N.Z	50	3886	16 Aug	67	21 Aug.
Barker, G. H	Wellington	43	3888	18 Aug	71	4 Sept
Beath, Schiess, and Co	Melbourne	38	3950	25 Sept	87	30 Oct.
Bell, C. S., and another	Christchurch	3	3860	24 July	63	7 Aug.
Bennett, É. W	San Francisco	50	3885	16 Aug		•
Bidder, B. P	London	50	3560	18 Oct., 1901	57	10 July.
Borax, Consolidated, Limited	London	1, 2, 3	3850, 1, 2	10 July	67	21 Aug.
Borax. (See Patent Borax Company, Limited.)		_, _, _				
Breeze, E. G., and another	Christchurch	3	3930	12 Sept	7 5	18 Sept.
Brown, Barrett, and Co. (See J. M. Geddes.)				_		-
Campbell, W	Wellington	42	3946	24 Sept		••
Carr Bros. and A.h, Limited	London	42	3878	14 Aug		
Castle Tea Company	Wellington	42	3861	25 July	67	21 Aug.
Chapman, J. R	Christchurch	39	3908	28 Aug		
Chapman, J. R.	Christchurch	39	3949	25 Sept	78	2 Oct.
Colegrove, G. H.	Wellington	42	3898	23 Aug	75	18 Sept.
Colegrove Tea Company. (See G. H. Colegrove.)		- -	3300			
Connell, J., and Co., Proprietary,	Melbourne and Sydney	42	3901	26 Aug	71	4 Sept.
onnell, J., and Co., Proprietary, Limited	Sydney	42	3876	13 Aug	67	21 Aug.
ook, J. F. W	Auckland	3	3884	16 Aug	78	2 Oct.
ox, J. and G., Limited	Edinburgh	42	3856, 7	23 July		
remers, G. G. G. C., and another	Culemborg, Holland	43	3869	2 Aug	75	18 Sept.
crosfield, J., and Sons, Limited	Warrington, Eng	47	3920	4 Sept	75	18 Sept.
Curtis's and Harvey, Limited	London	20	3928	8 Sept	75	18 Sept.

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

Name.	Address.	Class.		olication.	Gazette.		
Name.	Address.	Class.	No.	Date.	No.	Date.	
Downer, W. H	Christchurch	47	3931	12 Sept			
Dresden Pianoforte Manufacturing and Agency Company, Limited		9	3896	20 Aug	71	4 Sept.	
Driver, H		42	3848	8 July	60	24 July.	
Dutton, P	G Th. 31	3 3	. 3855 3914	17 July 1 Sept	60	24 July. 4 Sept.	
		3	3929	11 Sept	78	2 Oct.	
Everett and Co. (See B. P. Bidder.)			i.				
Ferguson, J., and Co	Glasgow and Melbourn	e 43	3868	2 Aug		••	
Fresh Food and Frozen Storage Com- pany, Limited	Melbourne	42	3859	24 July	63	7 Aug.	
Geddes, J. M	Auckland	42	3932	13 Sept			
Germinal Sociedad Anonima	El Admor Gerent Manila	e, 45	3858	24 July	63	7 Aug.	
Gilberd and Sons, J. B	Wanganui	47	3846	3 July	1	••	
Gregory, S. E., and another Griffin, J. H. and G. R	37 1	48 42	3442 3389	28 June, 1901 25 May, 1901	75 67	18 Sept. 21 Aug.	
•	1 0 4						
Hall, G., and Sons Harvey, A., and Sons	4 11 5	$\begin{array}{c c} \cdot \cdot & 43 \\ \cdot \cdot & 13 \end{array}$	$3867 \\ 3927$	2 Aug 6 Sept	63	7 Aug.	
Hearne, W. G	Geelong	3	3853	17 July			
Horrockses, Crewds n, and Co., Limited	London	24	3872	7 Aug	67	21 Aug.	
Hoytema, Van. (See under V.)				1			
Hudson, G. I	Ipswich, Queensland Liverpool	3 47	3847 $3943, 4$	3 July 19 Sept	75	18 Sept.	
Hudson, R. S. (See R. W. Hudson.)	22,022		5.715, 1	то вери.		••	
Imperial Tobacco Company, Limited	Bristol	45	3873	7 Aug	99	27 Nov.	
Jansen, H	Langehaven, Holland	43	3877	14 Aug	67	21 Aug.	
Keystone Watch-case Company, The	Philadelphia	10	3432	22 June, 1901	71	4 Sept.	
Lightband, C. D., and another	Christchurch	3	3860	24 July	63	7 Aug.	
Linotype Company, Limited, The		6, 13	3924,5	4 Sept	75	18 Sept.	
Linotype Company, Limited, The Lloyd, E	0	$\begin{array}{ccc} \dots & 5 \\ \dots & 42 \end{array}$	3923 3862	4 Sept 25 July	67	21 Aug.	
Lloyd and Co., E. (See E. Lloyd.) Locke, W	<u> </u>		9096				
Locke, W Lubriphite Company, The	37 37 1	$ \begin{array}{ccc} $	3936 3922	15 Sept 4 Sept	75 75	18 Sept. 18 Sept.	
Lysnar, W. D	Gisborne	42	3947, 8	24 Sept	83	16 Oct.	
McConnochie, W., and another		47	3866	30 July	67	21 Aug.	
McIntyre, D. C McLeod Bros., Limited	T 11	42	3863 3883	25 July 15 Aug	67	01 Ann	
Molassine Company, Limited	London	48 42	3843	2 July	67 63	21 Aug. 7 Aug.	
Muntz's Metal Co., Limited Muralo Company, The	Smethwick, Eng. New York	5 1	3879 3841	14 Aug 2 Jul y	75 57	18 Sept.	
					57	10 July.	
Nathan and Co., Limited, J Nicol, R	(A 1.1	5 50	3926 3874	5 Sept 13 Aug	75	18 Sept.	
Ogden's, Limited	L			1.01			
Oppenheimer and Co., A	T 1.	50, 40, 3	3921 9 3880, 1, 2	4 Sept 14 Aug	67	21 Aug.	
Osborne, H	Ashburton	42	3900	22 July	78	2 Oct.	
Partridge, H. E		. 45	3895	21 Aug	71	4 Sept.	
Partridge, H. E Partridge, H. E		. 45 . 45	$ \begin{vmatrix} 3890, 1, 2, 4 \\ 3893 \end{vmatrix} $		78	2 Oct.	
Partridge, H. E	Auckland	. 45	3945	21 Aug 24 Sept	78	2 Oct.	
Patent Borax Company, Limited	Birmingham	. 2,3,47,4	8 3349, 3350, 1, 2	4 April, 1901	57	10 July.	
Peek, Frean, and Co		. 42	3296	7 Feb., 1901		24 July.	
Peryer, M Pidgeon and Co., Limited, E. W	~	. 50	3899 3870	25 Aug 4 Aug	71 63	4 Sept. 7 Aug.	
Powley and Keast	Dunedin	. 43	3911	29 Aug	75	18 Sept.	
Pretty and Sons, Limited, W Pretty and Sons, Limited		. 13	3933 3934, 5	13 Sept 13 Sept	75 	18 Sept.	
Rice, W. S	N 37 1		3842	-	İ		
Richards, W. O., and another	Sydney	. 48	3442	2 July 28 June, 1901	63 75	7 Aug. 18 Sept.	
Ross Antidote Company, Limited Rudge-Whitworth, Limited	α •. ΄	$\begin{array}{c c} . & 2,3 \\ . & 22,40,2 \end{array}$	3909, 3910 2 3916, 7, 8, 9	29 Aug 4 Sept	75 75	18 Sept. 18 Sept.	
~	**************************************	40					
Sargood, Son, and Ewen Sargood, Son, and Ewen		. 38	3951 3952	26 Sept	78 83	2 Oct. 16 Oct.	
Sharland and Co., Limited	Auckland and Wellingt	on 50	3942	18 Sept	78	2 Oct.	
Smidth and Co., F. L	Copenhagen, Denmark		3875	13 Aug 8 June, 1901	67 75	21 Aug.	
Somerville, W	Durmey	. 47					
Somerville, W	Chicago	. 47 . 3 . 42	3412 3494 3941	15 Aug., 1901 18 Sept		18 Sept. 18 Sept. 16 Oct.	

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

Name.	Address.	Class.	App	Gazette.			
Маше.	Audress.	Class.	No.	Date.	No.	Date.	
Taylor, T. E	Akaroa	42	3940	16 Sept	78	2 Oct.	
Fucker, W. F	Auckland Glasgow	3 37, 37, 37, 37, 40	3954 3902, 3, 4, 5, 6	30 Sept 26 Aug	83 71	16 Oct. 4 Sept.	
Furnbull and Co., W. and G Furnbull and Co., W. and G Furnbull and Co., W. and G	Wellington	10.	3845 3844 3937, 9	2 July 2 July 16 Sept	57 57 87	10 July. 10 July. 30 Oct.	
Furnbull and Co., W. and G. Van Hoytema, D., and another Van Hoytema and Co. (See D. Van	Wellington		3938 3869	16 Sept 2 Aug	 75	 18 Sept.	
Hoytema and G. G. G. C. Cremers.)							
Vailes, Dove, and Co., Limited Vard and Co., J. G Varnock Bros	Newcastle-on-Tyne Invercargill Auckland	42	3436 3887 3865	27 June, 1901 18 Aug	71 71 67	4 Sept.	
Weingarten Bros	NT NT1-	38	3907 3913	25 July 27 Aug 1 Sept	75	21 Aug. 18 Sept.	
pany, Limited Whittome, Stevenson, and Co., Limited Williams Company, T. C	Auckland Richmond, U.S.A	1	3953 3854	29 Sept 21 July	71	4 Sept.	
Woodyatt and Co., A. R	Guelph, Canada Sydney	7 6	3849 3871	10 July 5 Aug	63	7 Aug.	
Vreathall, M. D., and another Vylie, W	Christchurch Wellington	3 42	3930 3912	12 Sept 1 Sept	75 71	18 Sept. 4 Sept.	
Teatman and Co., Limited	London	42	3502	22 Aug., 1901	75	18 Sept.	

By Authority: John Mackay, Government Printer, Wellington.