

Applications for Patents.

THE following list of applications for Patents, filed in New Zealand during the month ending 13th June, has been specially prepared for PROGRESS.

- 21149—J. Wilson, Fitzroy, Vic.: Upholstery and coach-trimming.
- 21150—R. W. Jeffrey, Eaglehawk, Vic.: Safety bucket device. (J. H. Pickles).
- 21151—E. McClelland, Melbourne, Vic. Green-pea sheller. (J. Cuthbert).
- 21152—F. C. J. Olsen, Lyttelton: Wardrobe.
- 21153—T. I. Roberts, Hobart, Tas.: Locks for doors.
- 21154—R. M. Jolly, Petersham, N.S.W.: Separation of tin from tinned iron.
- 21155—A. Artom, Turin, Italy: Wireless telegraphy receiver.
- 21156—E. S. Evelyn, New Town, Tas.: Closure for hermetically sealed receptacles.
- 21157—R. Lowe, Brunswick, Vic.: Maze.
- 21158—F. W. E. Gabriel, Albion, Q.: Turnstile.
- 21159—A. E. Luttrell, Balmain, N.S.W.: Rotary pump.
- 21160—T. F. Locke, Premaydena, and E. W. Duncombe, Deloraine, Tas.: wire strainer.
- 21161—J. C. Wood, Albert Park, Vic. Tyre inflator.
- 21162—A. Nabb, Waverley, N.S.W., and A. Saunders, College Town, S. Australia: Machinery belting.
- 21163—J. J. Gilday, Berringa, Vic.: Pump.
- 21164—D. Zander, T. Falvey, and J. H. Ormrod, Wellington: Potato-cleaning machine.
- 21165—The International Harvester Company of America, Christchurch: Finger for mowers and reapers. (J. D. Bywater).
- 21166—F. H. Trevellian, Wellington: Cash register.
- 21167—N. Guthridge, Melbourne, Vic.: Ore concentrator.
- 21168—N. Guthridge, Melbourne, Vic. Ore Concentrator.
- 21169—N. Guthridge, Melbourne, Vic.: Concentrator feeder.
- 21170—D. A. C. Brown, Palmerston North: Toy.
- 21171—L. Mote, Auckland, and H. and L. Mote, Balmain, N.S.W.: Step ladders.
- 21172—A. Dillv, Kilburnie: Cash bag.
- 21173—N. Ross, Berwick: Tilting casks.
- 21174—J. B. Carroll, Chicago, U.S.A.: Acetylene-burner.
- 21175—E. Deister, Fort Wayne, U.S.A.: Ore concentrator.
- 21176—J. Dawson, Wellington: Bridge construction.
- 21177—W. E. Hughes, Wellington: Paint remover (H. C. Scrutton).
- 21178—A. J. Edwards, Auckland: Trolley-pole controller.
- 21179—J. Long, Christchurch: Ticket holder.
- 21180—E. R. Godward, Invercargill: Siphon.
- 21181—E. R. Godward, Invercargill: Kerosene tap.
- 21182—C. J. H. Payne, Limehills: Non-refillable bottle.
- 21183—J. J. Niven and Co., Napier: Drying offal.
- 21184—C. A. Parsons, Newcastle-on-Tyne, Eng.: Dynamo electric machine.
- 21185—C. A. Parsons, Newcastle-on-Tyne, Eng.: Dynamo electric machine.
- 21186—A. Jack, Palmerston North: Gas generator.
- 21187—H. Irwin, Tikokino: Bird alarm.
- 21188—J. J. Strain, Christchurch: Gas-stove boiler.
- 21189—J. J. Strain, Christchurch: Hot-water attachment to gas stove.
- 21190—I. Russell, Dunedin: Dress chart.
- 21191—R. Mapp, jun., Midhurst: Cow bails.
- 21192—C. W. Watts, Greytown North: Button.
- 21193—B. E. Smith, Footscray, Vic.: Water tank.
- 21194—G. L. M. Dorwald, London, Eng.: Car-burette.
- 21195—J. D. Jackson, Prahran, Vic.: Bath heater.
- 21196—R. T. Cross, Bulimba Q.: Fishing-reels.
- 21197—A. James, London, Eng.: Gold extractor.
- 21198—H. T. F. Esmond, Rozelle, and H. Buckland, Marrickville, N.S.W.: Teaching-apparatus.
- 21199—A. Prior, Dunedin: Diving nails.
- 21200—H. E. Rountree and C. Glasgow, Stratford: Music turner.
- 21201—O. Stewart, Invercargill: Telegraph transmitter.
- 21202—J. D. Plimmer, Lyttelton: Vice.
- 21203—G. Davidson, Hokitika: Pitch chains and sprockets.
- 21204—F. M. Norris and J. Robertson, Hunterville: Non-refillable bottle.
- 21205—A. J. Carrigan, Auckland: Fire lighter.
- 21206—A. J. Park, Onehunga: Tow cleanser.
- 21207—J. A. Ferguson, Denver, U.S.A.: Mould for building-blocks.
- 21208—F. J. Farrell, Auckland: Alarm.
- 21209—H. Taylor, Manurewa: Fireproof starch and blue.
- 21210—E. S. Evelyn, Hobart, Tas.: Non-refillable bottle.
- 21211—F. G. M. Brittin Papanui: Beer pump.
- 21212—G. Robinson, Oamaru: Hat pin.
- 21213—W. Madder, Kaikoura: Voting-machine.
- 21214—W. C. Hames, Wellington: Rotary engine.
- 21215—F. D. Miller, Christchurch: Boot soles.
- 21216—C. Lucas, Wellington: Hanger for scaffolding brackets.
- 21217—J. Fraser Glenthompson, and J. T. Good, Melbourne Vic.: Fuse igniter.
- 21218—C. J. McMaster, Corfield, Q.: Wheel.
- 21219—H. Rochfort, Karangahake: Suction hose.
- 21220—The Australasian Coal Briquette Company, Limited, Sydney, N.S.W.: Coal briquettes. (G. L. Croudace).
- 21221—W. M. Jamieson, Te Papa: Tyre protector.
- 21222—W. Reid, E. Malvern, Vic.: Signalling mechanism.
- 21223—W. R. Millar, Wellington: Door knob.
- 21224—F. M. Staubwasser and T. F. Fauset, Brisbane O.: Life-saving appliance.
- 21225—R. V. Danne St. Kilda, Vic.: Valve and pump connecting-piece.
- 21226—J. Austin, Christchurch: Toasting and grilling device.
- 21227—T. Cahill, Waihi: Spurs.
- 21228—R. J. Roach, Invercargill: Catch for brooches.
- 21229—E. Whitcombe, Pahiatua: Fencing-dropper.
- 21230—A. J. J. Bolton, Armadale, Vic.: Composition for manufacture of butter boxes.
- 21231—E. G. Mills, S Yarra Vic.: Food for calves and stock (F. J. Corbett).
- 21232—H. Wilson St. Kilda, Vic.: Ore-grinding pan.
- 21233—United Shoe Machinery Company, Paterson, U.S.A.: Shoe-upper lacing-machine. (W. A. Smith).
- 21234—R. R. Douglas, Dunedin: Umbrella.
- 21235—P. M. Maze, Paris, France: Pasteurising mill.
- 21236—J. W. Greene, Melbourne Vic.: Vehicle-wheel axle.
- 21237—N. I. Gooder, Wellington: Trolley hearth.
- 21238—J. and W. J. O'Hara, Papatoitoti: Adjustable metal fastening.
- 21239—J. D. McLaurin, Pohangina: Attaching tags to bales of hemp.
- 21240—I. W. Cadle and A. C. Cadle, Launceston, Tas.: Hermetically sealing receptacles for preserves. (W. W. Cadle).
- 21241—H. E. McDonald, Petone: Cooking-utensil.
- 21242—H. E. McDonald, Petone: Tag brand for marking bales of hemp.
- 21243—A. I. Jones, Cricklewood: Apparatus for treating flax.
- 21244—C. Parsons, Patutahi: Fencing standards.
- 21245—The New Zealand 20th Century Gas Company Limited, Wellington: Gas burner. (A. J. Way).
- 21246—F. A. Lakin, Napier: Attaching fencing wires to standards.
- 21247—A. Gardner, Dunedin: Revolver.
- 21248—J. Galt, Maitara: Sleeve link.
- 21249—G. Westmoreland, J. F. Pettie, and E. H. Hewetson, Waipiro Bay: Balancing and locking window sashes.
- 21250—F. H. Trevellian, Wellington: Levelling instrument.
- 21251—J. E. Dangerfield and F. C. J. Cockburn, Auckland: Adjustable school-desk or drawing-table.
- 21252—L. Banks and W. Grey, Auckland: Folding paper box.
- 21253—R. Andrews, W. O. McFadden, and D. Whitburn, Auckland: Fastening gratings in traps, cesspits, etc.
- 21254—H. Rochfort, Karangahake: Recovering values from slummed ore.
- 21255—W. M. Crockett, Dunedin: Hair pin.
- 21256—A. Ramsay, Milton: Ladder.
- 21257—W. D. West, Alexandra South: Beehive frame.
- 21258—G. H. Evans Swanson: Reaper-and-binder.
- 21259—J. Theyers, Alexandra South: Clothes renovator.
- 21260—J. Rae, Carterton: Steering ships.
- 21261—C. Lucas, Wellington: Hanger for scaffolding bracket.
- 21262—W. H. Sebley, Petone: Photographic camera.
- 21263—F. J. W. Gascoyne, Hastings: Tyre protector.
- 21264—H. P. Rasmussen and H. Davies, Geraldine: Closet-seat cover.
- 21265—R. Cosslett, Bristol, England: Tap and cock.
- 21266—B. G. A. Harkness, Stratford: Vacuum pump.
- 21267—E. A. Barnes, Stawell, Vic.: Wrench.
- 21268—D. Graham, N. Ipswich, Q.: Slotting-machine tools and holders.
- 21269—G. Dwyer and W. J. G. Pitt, Melbourne, Vic.: Claw hammer and staple puller.
- 21270—W. Taylor, Sandiacre, England: Operating railway and tramway points.
- 21271—W. C. Green, Marrickville, N.S.W.: Confectionery machine.
- 21272—J. Lock, Auckland: Manufacture of brooms and brushes.
- 21273—C. Bristow Addington: Seed sower.
- 21274—T. C. Hement, Christchurch: Lead-headed nail.
- 21275—J. Mason, Petaluma, Cal., U.S.A.: Fire kindler.
- 21276—P. Jensen, St. Kilda: Perambulator.
- 21277—R. Z. Garrett, Otahuhu: Street sweeper.
- 21278—J. Small, Port Chalmers: System of heating buildings.
- 21279—E. W. G. Coleridge, Wellington: Handle for cooking utensil.
- 21280—F. A. Webster, Christchurch: Fastener or coupling for driving-belts.
- 21281—J. Brown, Maheno: Ploughing and cleaning machine.
- 21282—J. R. Masson, East Melbourne, Vic.: Recovery of antimony and arsenic from ores, etc.
- 21283—J. W. Davis, Devonport: Exposure and Focus Distributor.
- 21284—G. W. Basley, Parnell: Post card.
- 21285—W. Morton and J. Hercus, Dunedin: Swingletree.
- 21286—W. Wenlock, Hawthorn, and W. B. Anderson Hazel Bank: Adjustable picture hanger.
- 21287—D. P. Palmer, Masterton: Chair.
- 21288—Whitcombe and Tombs, Limited, Christchurch: Cardboard box. (A. T. Scott).
- 21289—C. E. Young, Feilding: Branding liquid.
- 21290—W. Youtlen, England: Separating dirt from the waste of cotton-cleaning machines.
- 21291—G. Warne, Christchurch: Turning the leaves of music books, etc.
- 21292—R. Whittaker and R. Tomline, Wellington: Drinking fountain for poultry, etc.
- 21293—T. Whitehorn, Coburg, Vic.: Weighing machine.
- 21294—S. G. Plucknett, Petersham, N. S. W.: Concentrator. (S. G. Plucknett and H. H. Davies).
- 21295—G. E. Dod, Baddow, Q.: Rotary engine.
- 21296—W. E. Crook, Surry Hills, N.S.W.: Railway coupling.
- 21297—L. G. Wieneke, Roma, Q.: Horse-race starter.
- 21298—W. Jamieson Grays, Eng.: Clamping wood.
- 21299—J. H. McFarlane, Albert Park, Vic.: Derrick.
- 21300—R. A. Bradbury, Christchurch: Waterproof garment.

Full particulars and copies of the drawings and specifications in connection with the above applications, which have been completed and accepted, can be obtained from Baldwin & Rayward, Patent Attorneys Wellington, Auckland, Christchurch, Dunedin, &c.

The electrical generating equipment of the new battleships Mississippi and Idaho, now building at the yard of Cramp and Sons, Philadelphia, will consist of eight 100-kilowatt units operated at 125 volts. The electrical installation on the ships will be very complete, including motors operating on the Ward-Leonard system to drive the six big turrets for the 12 in. and 8 in. guns; ammunition hoists for these guns as well as the smaller ones; conveyors for transferring ammunition from the magazines to the hoists; boat cranes and winches, and all blowers except those used for the production of forced draught. In addition, a complete system of telephones, call bells, buzzers, and steering telegraphs will be installed.

For perfect combustion 8lb. of oxygen are required for every pound of hydrogen, and 2½lb. of oxygen for every pound of carbon. With the contracted damper opening of the modern locomotive this perfect combustion cannot be obtained, says the *Iron Age*. One remedy that has been suggested is the staying of the fire-box with hollow stays having an inside diameter of ¼ in. and not over 3-16th in. The amount of air that can be admitted through 1000 or more of these hollow stay bolts is sufficient to improve the combustion very materially. Another good result of having air passing through the stay bolts is that the risk of burning them is decreased, the expansion of the bolt is reduced and the likelihood of the plates cracking is largely avoided.