Applications § for Patents.

THE following list of applications for Patents, filed in New Zealand during the fortnight ending 1st Oct , has been specially prepared for Progress

23410-C. H. E. Hope-Johnstone, Aramoho Treatment of milk.

23411--B. H. Ihwaite and W. Defries, London,

23411—B. H. Ihwaite and W. Defries, London, Eng. Manufacture of molten metals
23412—C. H. F. & Hope-Johnstone, Aramoho Preparing milk for food.
23413—F. A. Alcock, Melbourne, Vic. Cushion rails for forming billiard tables.
23414—S. Doyle, Melbourne, Vic.: Potato washer.
23415—H. J. West and Co., Ltd., Saxiby, Eng., Counter-pressure bottling machine.
23416—J. L. Ohlson, Adelaide, S.A. Sewing machine.

machine.

23417—W. J. Creen, London, Fng.: Branding machine for boxes, casks, etc.
23418—R. P. Myers, Walthamstow, Eng.: Arc

lamp.

23419—R. H. Millar, Wellington Frolley pole. 23420—A. E. Macindoe, Onehunga: Feed regulator for boilers, etc. 23421—W. J. O'Connor, Nightcaps: Hammer

and spanner.

and spanner.

23122—J. E. Crowle, Ballarat, Vic. . Litting jack.

23423—T. O. Tuinbull Kinohaku: Ridging

23424:—Manufacturers Machine Company, Montclair, U.S.A. · Buffing machine pad covers for boot and shoe manufacture.

23425—J. Delbridge, Windsor, Vic.: Air-coin pressor, usable also as a pump.

23126—C. H. Harris Wellington · Fire-extingnisher.

nisher.

23427—T. N. Brocas, Opotiki: Dubbin. 23428—W. E. Chamberlain, Feilding: Packing-

23428—W. E. Champeriain, Fending: Facking-case opener.
23429—E. D. Bilham, [Poverty Bay: Fencing standard.
23430—D. W. McLean, Methven: Tyre protector.
23431—J. C. Drewet, Auckland: Method of bleaching fibres ing fibres.
23432-W. W. Harverson, Wellington Trolley

pole. 23433—J. L. Wilson, Waianiwa: Sharpening

chaff-cutter knives.

23434—C. Craig, Doyleston Collapsible crate. 23435—T. R. Christie, Dunedin Hot-water pressure

supply cylinder. 23436—C. H. Gannaway, Wellington: Bowlers' measure.

A: H. and D. J. Byron and T. M. Scott, Wellington: Flax dressing and drying machine 23438—W. Miller, Christchurch: Checking w Checking wall

plates and similar timbers.

23439—D. A. Watt, Levin: Construction of globes for geographical instruction

23440—H. Quertier, Dunedin: Motor bicycle and

cleaner. 23441—W. Diack, Centre Bush: Earthenware

drain. 23442-F. Schneider, Christchurch · Track-gauging

implement for permanent way. 23443—J. and R. Lindsay, Dunedin: Trolley

pole. -J. C. Drewet, Auckland Celluloid egg-

shield 23445—W. Brierly, Auchland Obtaining power

23445—W. Brierly, Auckland Obtaining power from the tides.
23446—P. Speirs, Tulla Marine, Vic. Plough disc.
23446—P. Speirs, Tulla Marine, Vic. Plough disc.
23448—N. Bouraid, Otahuhu Post card.
23449—N. Bouraid, Otahuhu Post card.
23450—W. Aston, Blenheim Spring check for force feed drill.

23451-C. Suttie, Waharoa, and M. H. Wynyard,

23451—C. Suttle, wanaroa, and M. H. Wynyard, Auckland Catching flax after stripping.
23452—C. Suttle, Waharoa and M. H. Wynyard Auckland Cleaning flax after stripping.
23453—C. Suttle, Waharoa, and M. H. Wynyard, Auckland Operating mechanical catcher for

23454—G. Findlay, Dunedin Bicycle support 23455—"Z" Electric Lamp Syndicate, Limited, 23455—Z. Riectric Lamp Syndicate, Limited, London, Eng.: Manufacture of filaments for incandescent electric lamps 23456—W. F Chamberlam, Fedding. Lock-nut 23457—J. Brockbank, Auckland Device for

tuning pianos, etc. 23458—W H. Blackham, Melbonine, Vic ising the vacuum in the pipe lines of milking machines.

23459-W. A. Johnston, Hobart, Ias Saucepan, etc., cleaner

23460—C. G. Whitaker, Christchurch Fgg-carrier. 23461—A. H. Brownley, Onehunga Locket. 23462—A Jack, Palmerston North Production of

gas from hydrocarbon oils 23463-W. P. McIndoe, Invercargill Trueing up surfaces of flax-stripper beaters.

I Carr. Wharekopae: Wire-stramer. 23465-W Beamish, Wellington: Cigar holder.

23166—The Konomax Rock-drill Syndicate, Limited Johannesburg, Transvaal Rock-drill and

water spray therefor.
23167—The Konomax Rock-drill Syndicate, Limi-

ted, Johannesong, rock-drill, etc. 23468—The Konomax Kock-drill Syndicate, Limited Johannesburg Transvaal Cutting machine 23469—O. Coates, Christchurch Tram or railway Cutting machine Fram or railway

point-shifter.
23470—F. J Swanston, Dunedin Broom-handle coupling

-J. and R. Lindsay, Dunedin. Securing 23471 trolley-pole to car. 23472—R. F. Sorenson, Hastings. Gig.

23473—R. F. Sorenson, Hastings: Road-cart. 23474—R. G. Saxby, Tokomaru Bay Girth surcingle.

23475—A. J. Roycroft, Waihi. Fire alarm. 23476—A. H. Byron and T. M. Scott, Wellington.

Wool-pressing apparatus.

23477—G F. Double and E. S. Quicke, Invercargill
Holding razor blades when setting or stropping.

23478—I. Lewis, Hokitika Gold concentrator. 23179-J. W Synnerholm, Lower Matakana. vtracting kauri gum from sand.

23480-J Ross, Wellington: Grease trap for sinks,

23481—D. E. Davis and S. H. Knight, Hastings, and C. D. Lightbrand Wellington Leather. 23182—J. H. Beamish, Auckland Method of glass

roofing 23483 -K. R. Macdouald, Wanganui Combination

23483—R. R. Macconian, Wanganui Communion cash and receipt book.
23484—C. Giorgi, Palmerston North Mail-bag and basket lock,
23485—G. Beaumont, Dunedin: Belt dressing.
23486—F. J. F. Brown, Wanganui Damper of register-grafts

register-grate. 3487—J. R. Brown, Los Angeles, U.S.A. Lining 23487—J.

for grinding mill. 3488-W. McKeegan, Wellington Tension apparatus for wire-hauling ropes.

23489—f. J. Heskett, Brunswick, Vic : Extraction of zinc from its sulphide.

23490 -E McCorrigan and E. M. Payne, Dunedin: Puzzle-box for matches.

23491-W. B. Curtis and D. Morrison, Auckland and Gisborne, respectively, : Stripping and washing flax.

23192 - United States Automatic Box Machinery Company, Boston, U.S.A.: Paper box-making maclime.

23493-S G Roseman, Auckland Sweeping brush or broom.

23494-W. H. Triggs and W. H. Denton Christ-church: Preventing trotting horses breaking into a gallop.

23495-1. R. Bond, Wanganun: Hoe. 23496-P. Rafferty, Wellington: Trolley head attachment

23497-J C Atkinson, Auckland Umbrella, hat and book rack combined. 23498-W. S. Clark, Melbourns Vic.: Fire kindler.

23499—W. G. I andells, Coburg, Vic., and H. J. Huckson Pakenbam, Vic.: Self-heating soldering bolt and blow lamp. 23500-A. P. Bond, Auckland: Spark arrester.

23501-C. C. Wakefield, London, Eng. burner.

23502-W. Walkerden, Marrickville, N.S.W · Boot or shoe. 23503-D. Brisbane, Ardmore: Economical form

of power. 23501—W. E. Chamberlain, Feilding: Washer.

23505-A. R. Wilfley, Denver, U.S A. roasting process. 23506—C. P. Stewart, Los Anglees, U.S.A.

cess for making sugar.
23507—American Cork and Seal Company, New

3501—American Cork and Sear Company, Net York, U.S.A.: Bottle seal. 3508—B Ward Auckland Fastening the end of fencing wire 3509—A G. Jackson, Brisbanc, Queensland 23508-B Fastening the ends

23509-A Electrical releasing mechanism for clocks, etc. 23510—C. Loomes, Wellington Com-freed a

paratus for selling stamps, etc.
23511—A. K. W. Rissel and W. H. Hennah, Wellington Recording and indicating course Recording and indicating course of a vessel.

J. McBride, Christchurch Resilient wheel for vehicles. 23513—G Westinghouse, Pittsburg, U.S.A. Yield-

ing resistance mechanism.

23514—A. Ravelli, Arenzano, Italy Utilising the movement of sea-wayes.

23515-H. Cotbett, S. Yarra, Vic. Manure and method of manufacturing same.
23516-H. Corbett, S. Yarra, Vic. Food for stock

and method of manufacturing same.

23517—R M Kemp Durham Ox, Vic Subsoil cultivator for attachment to ploughs

23518—I G Lottrell, Berkeley, USA Manufacture of sulphyric code.

ture of sulphuric acid.

23519-T. S. Royds, invercargil Milk bucket holder.

23520-R. Millis, Dunedin: Preparing fibre from Phormium tenax. 23521—C M. Chamberlain, Pueblo, U.S.A : Ore-

extraction apparatus 23522-W, Divey, Burwood. Range hot-water

boiler.

23523—J. C. Drewet, Auckland Fibre-bleaching method. 23524-L. F. J. N. de Farelle, Te Kopuru · Screw

propeller. 23525—L. H. Rogers and A. Myers, Wellington:

23525—L. H. Rogers and A. Myers, Wellington: Puncture composition for tyres.
23526—L. R. Ingey, Wellington: construction of metallic letters, etc., for signs.
23527—G. L. Burton, Napier: Acetylene generator.
23528—E. G. Langton, Masterton: Shirt-cuff fastener and protector.
23529—C. R. Skipage, Wellington: Cow-bail.
23530—A. E. Shipper and D. J. Smith, Kokiri: Belt fastener.
23531—H. W. Mears Balfour: Feed-gear of chaff.

23531-H. W. Mears, Balfour: Feed-gear of chaffcutters.

23532-M. Ruping, Charlottenberg, Ger.: pregnating wood and other porous material. 23533—W. H. J. Ridley, Penrose: Furnace for

extracting metals from ores. 23534—G. E. Partridge, Cromwell. Device fo.

tying bundles of flax. 23535—H. Stephenson, Edenham: Fencing stand-

23536-Commonwealth Manufacturing and Galvanusing Company, Limited, Brisbane, Queen-land. Machine for folding edges of sheet metal. 23537—J. Owen, Wollstonecroft, N.S.W.: Draught

23537—J. Twen, Wolfstonecroff, N.S. W.: Praught fitting for retailing arated liquids from bulk.
23538—I. F. McGarva, Christchurch: Baby cradle.
23539—H. A. Fry Nelson. Acetylene generator.
23510—F. C. White, Auckland. Range.
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 and Rayward, Patent Attorneys, Wellington, Auckland, Christchurch, Dunedin, etc.

Benzol.

Benzol is a product of the distillation of hard coal. For a long time the only source was the coal tar of the gas works, which contained from 1 to 1.5 per cent. benzol and toluol together. This source was not sufficient to supply the demand in the chemical industries. A new source was opened out in the manufacture of coke by distillation. In this process tar. benzol, and ammonia were made as by-products. In 1904 Germany had 19,309 stills, of which 9110, or 47 2 per cent., delivered these by-products; the rest did not. The amount of benzol produced was but small, being only about 0.5 per cent. In that year there were made about 60,000 tons of benzol from twelve million tons of coal. Of these 60,000 tons the greatest part--about 75 per cent.—was used in the dye industry as the source of nitro-benzol, anilin, etc., for in the coal-tar dye industry Germany now has the lead. In 1906 the exportation of that country in anilin and other coal tar products amounted to 116.6 million marks, equalling, say, £5,500,000. The gas industry also used benzol for improving the quality of gas of low illuminating power. A mixture of two-thirds coal gas and one third water gas, such as now generally made by the gasworks, is usually enriched by about forty grams of benzol per cubic metre. This uses up 6000 tons per year in Germany alone. Not only in gas-works is it employed, for benzol is also used for increasing the heating power of furnaces, etc., and it is also utilised in open-air burners, such as are used for street lighting. In all, for these purposes about 1000 tons per year are used. The same material is also used as a solvent for fats, resins, guttapercha, and indiarubber: also to remove varnishes and in the extraction from bones of oil for oil-cake. The consumption for these purposes amounts to between 3000 and 4000 tons per year. There are, therefore, left for the purpose of automobiles only between 3000 and 4000 tons!