

1900.
NEW ZEALAND.

PATENTS, DESIGNS, AND TRADE MARKS :

ELEVENTH ANNUAL REPORT OF THE REGISTRAR.

Presented to both Houses of the General Assembly pursuant to Section 128 of "The Patents, Designs, and Trade Marks Act, 1889."

I HAVE the honour, as required by "The Patents, Designs, and Trade Marks Act, 1889," to present my report for the year ended the 31st December, 1899. The tables printed in the Appendix give a general survey of the work of the office for the year.

Patents.

The total number of applications for patents amounted to 992, showing a decrease of twenty-nine on the figures for the preceding year. I do not anticipate any further fall. The expansion and subsequent decline in certain classes of inventions, referred to in previous reports, seem now to have come to an end, and the business of the office may be regarded as having returned to its normal condition.

It may be noticed, as illustrating the trend of invention, that there has been a considerable increase this year in inventions connected with electricity, dredging and other appliances for the recovery of gold, fire escapes and extinguishers, and crates for the conveyance of frozen rabbits. There were fourteen applications for horse-covers, articles in respect of which it might have been reasonably expected that human ingenuity would have been exhausted long ago.

As usual, the larger number of applications came from inventors resident in the colony; the next highest number came from the United States; and the United Kingdom was third on the list. Details are given in Table H.

Seven applications were received under section 103 of the Act.

The fees received during the year under the head of "Patents" amounted to £2,720 18s.

There were thirty-nine patent agents on the register at the end of the year.

Designs and Trade Marks.

Full particulars as to the applications for the registration of designs and trade marks are given in Tables H, I, L, and M. The total number of applications was—Designs, 13; trade marks, 329. The fees received under both heads amounted to £378 16s. 6d.

General.

The surplus of revenue over expenditure for the year amounted to £2,251. On the expenditure side an item of £202 appears for the first time, being the cost of printing the additional information in the *Gazette* referred to in my report of last year. Considering the office shows a handsome balance to credit every year, I should be glad if more generous provision could be made to give the public fuller information as to inventions. This could be done by publishing in a cheap form the specifications and drawings filed in the office. The cost has hitherto stood in the way, but I hope that ere long this desirable reform will be accomplished.

The new offices in the Government Printing Office were occupied in February last. They are commodious enough, though, from their position on the top floor of a four-story building, not very accessible. The library contains bound volumes of the English specifications from the year 1617 down to the year 1898, and fresh volumes come to hand regularly. These are available to the public within ordinary office hours, but I find that few people avail themselves of the opportunity to search or inspect them. This is to be regretted, if only on the ground that a study of the specifications of inventions already patented would prevent a number of people from wasting their time and money.

A large percentage of the applications filed do not proceed beyond the initial stages, principally, no doubt, because the applicants find that their inventions have either been anticipated or that they do not work in actual practice. There are four stages in the life of a patent—(1) the application, (2) the grant, (3) the payment of the fee for the second term, and (4) the payment of the fee for the final term.

The table below shows the number of applications over a series of years, and the stages to which they have respectively advanced :—

Year.	Number of Applications received.	Number of Letters Patent granted.	Number of Patents on which Second-term Fee paid.	Number of Patents on which Final Fee paid.
1890	614	364	80	37
1891	589	348	78	23
1892	606	326	84	37
1893	625	334	99	...
1894	756	349	88	...
1895	816	362	113	...

It will be observed that 10·16 per cent. of the patents granted in 1890, 6·6 per cent. of those granted in 1891, and 11·3 per cent. of those granted in 1892 have been maintained for the full term of fourteen years.

There has been some discussion lately as to the advisability of altering our patent system by providing for preliminary official examination somewhat on the lines adopted in the United States and Germany. So far as I have been able to ascertain, the systems followed in those countries have not given such entire satisfaction as to justify their adoption here without much fuller information than we at present possess. It seems to have been too hastily assumed by the advocates of examination that in countries where examination prevails a patent once granted may be relied upon as absolutely secure from attack. This, however, is not the case, and the law-courts are still the ultimate tribunal to decide the question of validity, and have still to be resorted to for final settlement in case of dispute. If the Patent Office could, after examination, give a valid title analogous to a Land Transfer title, there might be justification for the great additional expense involved in establishing a different system, but I confess that I see little advantage in compelling an inventor to run the gauntlet of an official examination, which gives him a fictitious security, only to find that he is still subject to a liability to defend his patent in the law-courts. There is also—though this, perhaps, is a minor matter—the risk of friction arising between the office and inventors. I find that inventors, as a rule, are inclined to resent criticism or suggestion, and the most that the office can do is to point out to an applicant that his invention appears to lack the essential quality of novelty, and to leave him to decide whether he will proceed further. On the whole, I am of opinion that the case for “official examination” has not been proved.

The staff of the office is small, but the work is well done. My own time is so fully occupied by my other duties that I have found it impossible to give much attention to the details of the Patent Office, which are therefore carried out under the immediate supervision of Mr. Lewis, the Deputy Registrar. It affords me much pleasure to bear testimony to the assistance I have received from the staff, and to record its zeal and efficiency.

Patent Office, Wellington, 9th June, 1900. F. WALDEGRAVE, Registrar.

APPENDIX.

A.—BALANCE-SHEET of INCOME and EXPENDITURE for the Year ending 31st December, 1899.

<i>Income.</i>			<i>Expenditure.</i>		
	£	s. d.		£	s. d.
Patent fees ...	2,720	18 0	Salaries ...	450	0 0
Design fees ...	7	1 0	Copying specifications, &c. ...	22	4 2
Trade-mark fees ...	371	15 6	Fees to Patent Office Agents ...	41	12 6
Sale of Acts, &c. ...	1	3 0	Printing and stationery from Government Printing Office ...	41	8 6
Other receipts ...	1	5 0	Printing Patents Gazette ...	202	0 0
			Binding, freight, &c., of British specifications and abridgments ...	59	0 8
			Conveyance of books from Museum to P.O. Library ...	5	5 8
			Typewriter ...	19	0 0
			Fees refunded ...	3	16 0
			Incidental expenses ...	6	15 0
			Surplus for the year ...	2,251	0 0
	£3,102	2 6		£3,102	2 6

B.—TABLE showing REVENUE and EXPENDITURE for each of the Last Eight Years.

—	Receipts.	Expenditure.	Surplus.	—	Receipts.	Expenditure.	Surplus.
	£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
1892 ..	1,825 6 0	361 18 10	1,463 7 2	1896 ..	2,583 0 6	564 6 10	2,018 13 8
1893 ..	2,150 2 0	396 8 3	1,753 13 9	1897 ..	3,183 9 0	574 15 2	2,608 13 10
1894 ..	2,477 7 0	536 6 11	1,941 0 1	1898 ..	2,824 9 0	623 1 11	2,201 7 1
1895 ..	2,170 9 6	464 15 8	1,705 13 10	1899 ..	3,102 2 6	851 2 6	2,251 0 0

C.—PARTICULARS of FEES received from the 1st JANUARY to the 31st DECEMBER, 1899.

—	Number.	Fees. — Each.	Amount received.
PATENTS.			
Applications for patents with provisional specifications	512	£ s. 0 10	£ s. d. 256 0 0
Applications for patents with complete specifications	480	0 10	240 0 0
Complete specifications after provisional specifications	142	0 10	71 0 0
Issue of letters patent	504	2 0	1,008 0 0
Applications to amend specifications	8	1 0	8 0 0
Second-term fees, payable before end of fourth year	110	5 0	550 0 0
Third-term fees, payable before end of seventh year	40	10 0	400 0 0
Notices of opposition	5	0 10	2 10 0
Hearing objections	2	2 0	4 0 0
On application for enlargement of time for deposit of complete specifications—			
1st January to 10th May	2	1 0	2 0 0
11th May to 31st December	11	0 10	5 10 0
On grant of such enlargement—			
1st January to 10th May	2	5 0	10 0 0
11th May to 31st December	11	1 0	11 0 0
On application for enlargement of time for acceptance of complete specification—			
1st January to 10th May	1	0 10	0 10 0
11th May to 31st December	1	1 0	1 0 0
On grant of such enlargement—			
1st January to 10th May	1	1 0	1 0 0
11th May to 31st December	1	1 0	1 0 0
Applications for enlargement of time for payment of fees—			
1st January to 10th May	4	1 0	4 0 0
11th May to 31st December	13	0 10	6 10 0
Grant of such enlargement—			
1st January to 10th May	3	3 0	9 0 0
11th May to 31st December	12	1 0	12 0 0
Notice of appeal to Supreme Court against decision of Registrar	1	1 0	1 0 0
Searches—			
1st January to 10th May (each book or specification)	66	0 1	3 6 0
11th May to 31st December (per hour)	150	0 1	7 10 0
Registration of assignments and licenses	68	0 10	34 0 0
Certificates of such registration	53	0 10	26 10 0
Copies of specifications and drawings—			
1st January to 10th May (specifications, 6d. per seventy-two words; drawings, 2s. 6d. per hour)	..	..	15 10 0
11th May to 31st December (specifications, 3d. per seventy-two words; drawings, 2s. 6d. per hour)	..	..	25 14 0
Certifying copies	20	0 1	1 0 0
Correction of clerical errors in specifications, &c.	7	0 5	1 15 0
Registration of Patent Agents	3	1 1	3 3 0
Miscellaneous	..	..	0 10 0
	..	..	£2,720 18 0
DESIGNS.			
Applications for registration of designs	1	0 10	6 10 0
Registration of assignment	1	0 10	0 10 0
Searches	1	0 1	0 1 0
	..	..	£7 1 0
TRADE MARKS.			
Applications for registration of trade-marks	329	0 5	82 5 0
Registration of trade-marks	..	£1 & 5s.	235 15 0
Registration of assignments	..	£1 & 2s.	18 18 0
Certificates of such registration	30	0 5	7 10 0
Notices of opposition	6	1 0	6 0 0
Altering address on Register	1	0 5	0 5 0
Renewal of registration	8	1 0	8 0 0
Copies or extracts (per seventy-two words)	..	6d.	0 4 6
Searches	113	0 1	5 13 0
Advertisements: Cost of extra space in <i>Gazette</i>	..	..	7 5 0
	..	..	£371 15 6

NOTE.—The additional Patents Regulations, which came into force on the 11th May, altered the scale of Patent fees. The table shows the amounts received under the old and new rates respectively.

D.—STAFF of OFFICERS and SALARIES.

	£
Registrar*	Nil.
Deputy-Registrar	240
Clerk	130
Cadet	95

* Also Under-Secretary for Justice.

£465

E.—NUMBER of PROVISIONAL and COMPLETE SPECIFICATIONS RECEIVED, &c., under Act of 1889.

Year.	Number of Applications with which Complete Specifications lodged.		Number of Applications with which Provisional Specifications lodged.		Number of Applications for which Complete Specifications subsequently lodged.		Number of Applications abandoned, lapsed, or refused.		Number of Patents sealed.		Total Number of Applications.
	N.Z.	Foreign.	N.Z.	Foreign.	N.Z.	Foreign.	N.Z.	Foreign.	N.Z.	Foreign.	
1890	242	207	107	60	27	17	202	50	147	217	616
1891	187	207	126	69	29	25	191	50	122	226	589
1892	202	191	160	53	40	16	237	43	125	201	606
1893	198	178	197	52	51	24	262	30	133	200	625
1894	278	166	251	61	69	16	352	51	177	176	756
1895	229	201	307	79	75	34	403	51	133	229	816
1896	299	275	318	100	68	33	439	75	185	293	992
1897	217	303	444	129	87	41	481	95	181	336	1,093
1898	199	305	419	98	102	29	*	*	*	*	1,021
1899	182	297	382	131	*	*	*	*	*	*	992

* These figures are necessarily incomplete, as the time for proceeding further with the applications has not yet expired.

F.—TOTAL NUMBER of APPLICATIONS for PATENTS, and REGISTRATION of DESIGNS and TRADE MARKS, recorded for the Years 1890 to 1899 inclusive.

Year.	Patents.	Designs.	Trade-marks.	Total.
1890	616	5	160	781
1891	589	4	225	818
1892	606	10	290	906
1893	625	1	325	951
1894	756	15	347	1,118
1895	816	14	254	1,084
1896	992	27	279	1,298
1897	1,093	13	361	1,467
1898	1,021	10	343	1,374
1899	992	12	328	1,332

G.—NUMBER of APPLICATIONS for PATENTS from Persons residing in New Zealand and other Colonies and Countries in each of the Years 1897, 1898, and 1899.

	1897.	1898.	1899.		1897.	1898.	1899.
New Zealand	661	616	563	Nicaragua	..	1	..
Argentine Republic	1	..	..	Norway	2	..	..
Austria	2	1	4	Queensland	13	7	8
Belgium	3	5	3	Russia	..	..	2
Canada	12	3	7	South African Republic	10	..	3
Cape of Good Hope	..	1	..	South Australia	18	13	8
Denmark	2	5	10	Spain	1	..	..
France	11	11	5	Sweden	2	2	..
Germany	10	9	15	Tasmania	5	5	2
Holland	..	..	3	United Kingdom	127	131	99
Hungary	..	..	2	United States	56	58	109
India	1	..	1	Uruguay	1	1	..
Italy	2	..	..	Victoria	87	85	68
Natal	1	..	..	Western Australia	3	5	9
New South Wales	65	65	78				

NOTE.—A few applications were received from joint applicants resident in different countries; the figures will, therefore, total more than the actual number of applications received.

H.—NUMBER of APPLICATIONS for REGISTRATION of TRADE MARKS from Persons residing in New Zealand and other Colonies and Countries in each of the Years 1897, 1898, and 1899.

	1897.	1898.	1899.		1897.	1898.	1899.
New Zealand	167	175	180	New South Wales	25	21	15
Canada	1	1	1	Norway	1	4	..
Ceylon	..	1	..	Queensland	3	..	2
Denmark	..	3	..	South Australia	2	1	11
Egypt	1	..	..	Switzerland	2	4	1
France	5	3	1	Tasmania	..	1	..
Germany	4	2	3	United Kingdom	124	97	87
Holland	1	..	..	United States	33	34	23
Hungary	..	1	..	Victoria	22	11	13
India	1	1	..	Western Australia	1	..	..

NOTE.—A few applications were received from persons giving addresses in two or more countries; the figures will, therefore, total more than the actual number of applications received.

I.—NUMBER of Applications to register Trade Marks in the Fifty different Classes, in each of the Years 1897, 1898, and 1899.

Classes.	Classification of Goods.	1897.	1898.	1899.
1	Chemical substances used in manufactures, photography, or philosophical research, and anti-corrosives	5	8	8
2	Chemical substances used for agricultural, horticultural, veterinary, and sanitary purposes	12	11	17
3	Chemical substances prepared for use in medicine and pharmacy	40	41	26
4	Raw or partly-prepared vegetable, animal, and mineral substances used in manufactures not included in other classes	7	3	4
5	Unwrought and partly-wrought metals used in manufacture	3	..	8
6	Machinery of all kinds, and parts of machinery, except agricultural and horticultural machines included in Class 7	4	2	1
7	Agricultural and horticultural machinery, and parts of such machinery	1	2	2
8	Philosophical instruments, scientific instruments, and apparatus for useful purposes; instruments and apparatus for teaching	..	..	..
9	Musical instruments	..	..	..
10	Horological instruments	1	..	3
11	Instruments, apparatus, and contrivances, not medicated, for surgical or curative purposes, or in relation to the health of men or animals	..	..	..
12	Cutlery and edge-tools	4	2	3
13	Metal goods not included in other classes	6	5	5
14	Goods of precious metals (including aluminium, nickel, Britannia-metal, &c.) and jewellery, and imitations of such goods and jewellery	2	..	..
15	Glass	3	1	3
16	Porcelain and earthenware	1	..	1
17	Manufactures from mineral and other substances for building or decoration	..	3	4
18	Engineering, architectural, and building contrivances	6	3	1
19	Arms, ammunition, and stores not included in Class 20	1	..	..
20	Explosive substances	1	5	4
21	Naval architectural contrivances and naval equipments	..	..	..
22	Carriages	23	7	2
23	Cotton yarn and thread	2	7	..
24	Cotton piece-goods of all kinds	2	..	2
25	Cotton goods not included in Classes 23, 24, and 38	1	..	..
26	Linen and hemp yarn and thread	..	..	..
27	Linen and hemp piece-goods	1	..	..
28	Linen and hemp goods not included in Classes 26, 27, and 50	..	..	..
29	Jute yarns and tissues, and other articles made of jute not included in Class 50	..	..	..
30	Silk, spun, thrown, or sewing	..	2	..
31	Silk piece-goods	..	..	1
32	Other silk goods not included in Classes 30 and 31	..	..	..
33	Yarns of wool, worsted, or hair	..	1	1
34	Cloth and stuffs of wool, worsted, or hair	..	2	2
35	Woollen and worsted and hair goods not included in Classes 33 and 34	..	3	1
36	Carpets, floorcloth, and oilcloth	1	3	..
37	Leather, skins, unwrought and wrought, and articles made of leather not included in other classes	4	5	1
38	Articles of clothing	14	24	9
39	Paper (except paperhangings), stationery, and bookbinding	6	7	7
40	Goods manufactured from indiarubber and guttapercha not included in other classes	1	..	4
41	Furniture and upholstery	..	..	1
42	Substances used as food or ingredients in food	91	96	90
43	Fermented liquors and spirits	22	17	15
44	Mineral and aerated waters, natural and artificial, including ginger-beer	11	6	9
45	Tobacco, whether manufactured or unmanufactured	27	15	35
46	Seeds for agricultural or horticultural purposes	1	2	1
47	Candles, common soap, detergents; illuminating, heating, or lubricating oils; matches; and starch, blue, and other preparations for laundry purposes	29	29	26
48	Perfumery (including toilet articles), preparations for the teeth and hair, and perfumed soap	9	22	22
49	Games of all kinds, and sporting articles not included in other classes	1	1	1
50	Miscellaneous	13	8	8

J.—ALPHABETICAL LIST OF APPLICANTS FOR PATENTS IN THE YEAR 1899.

[*Denotes a prior date under section 106 of "The Patents, Designs, and Trade-marks Act, 1889."]

Name, Residence, and Invention.	No.	Date.
Aalborg, C., and another, Wilksburg, U.S.A. (See J. P. Campbell, No. 11948.)		
Abbott, G. A., and others, Burnley, Vic. Filter	12226	7 Dec.
Acetylene Purifying Company (Limited), The, London, Eng. Purifying acetylene. (A. R. Frank)	11939	31 Aug.
Ackerman, O. W., and another, New York, U.S.A. Carbonating liquids	11434	9 March.
Actieselskabet, Burmeister, and Wains, Maskin- og Skibsyggeri, Copenhagen, Denmark. Cream-separator. (O. Anderson)	11621	12 May.
Adams, C., Pleasant Point, N.Z. Wire-strainer	11740	23 June.
Adams, F. W., Blenheim, N.Z. Screen for sampling peas, &c.	11749	27 June.
Adams, F. W., Blenheim, N.Z. Grain-riddle or screen	12243	18 Dec.
Adlard, G. E., Christchurch, N.Z. Lamp for cycles, &c.	11505	4 April.
Adler, L., and others, Copenhagen, Denmark. Cigarette machine	12184	17 Nov.
Alcock, A. U., Southend-on-Sea, Eng. (See The Alcock Electrical Position-finder Company (Limited), No. 11632.)		
Alcock Electrical Position-finder Company (Limited), The, Melbourne, Vic. Electrically transmitting signals. (A. U. Alcock)	11632	18 May.
Allan, J. S., Gisborne, N.Z. Saving and utilising natural gas	11364	6 Feb.
Allen, A. S., Boston, U.S.A. Tympan for printing machinery	11929	25 Aug.
Allen, R. W., and another, Auckland, N.Z. Dressing flax	11471	20 March.
Allen, S. F., Chicago, U.S.A. Shearing-machine	11610	11 May.
Allison, A., and another, Wanganui, N.Z. Medicine for sheep	11302	10 Jan.
Allison, J., and another, Wanganui, N.Z. Medicine for sheep	11302	10 Jan.
Alzugaray, De. (See under D.)		
American Lithographic Company, The, New York, U.S.A. (See G. G. Turri, Nos. 12185, 12186, 12187.)		
Anderson, A., and another, Wellington, N.Z. Water-heating apparatus	11626	16 May.
Anderson, A., and another, Wellington, N.Z. Water-heating apparatus	11827	25 July.
Anderson, E. L., St. Louis, U.S.A. Generation of electricity	12248	21 Dec.
Anderson, G. H., Waiau, N.Z. Weather-boarding	12166	11 Nov.
Anderson, O., Arlington, U.S.A. (See Actieselskabet, Burmeister, and Wains, Maskin- og Skibsyggeri, No. 11621)		
Andrews, W., and another, Christchurch, N.Z. Seed-cleaning machine	11382	5 Feb.
Andrews, W., and others, Christchurch, N.Z. Mixing and preparing chemical manures	12066	6 Oct.
Angus, W., Christchurch, N.Z. Hydraulic ram	11427	7 March.
Anscombe, H., Caversham, N.Z. Fryingpan cover	11772	1 July.
Anson, G. E., and another, Wellington, N.Z. Spigot	12015	25 Sept.
Applegarth, R. G., and another, Wellington, N.Z. Motor	11406	27 Feb.
Archer, G., and another, Benalla, Vic. Butter-box	11404	27 Feb.
Arthur, R. B., Ballarat, Vic. Treating leather	11907	16 Aug.
Arundel, J. M., and another, Gisborne, N.Z. Cover for milk-can	12140	1 Nov.
Ashdown, J., Prahran, Vic. Recovering fats or oils from waste liquids	11513	6 April.
Ashton, W. M., Westmere, N.Z. Device for holding sheep	12082	13 Oct.
Askin, G. K., Ashburton, N.Z. Bicycle-support	11552	21 April.
Askin, G. K., Ashburton, N.Z. Bicycle-support	11699	8 June.
Askin, G. K., and another, Ashburton, N.Z. Belt and braces	12004	18 Sept.
Aspinall, F. B., and another, Lee, Kent, Eng. Extracting metals	11293	9 Jan.
Atkin, E. R., Auckland, N.Z. Window-sash catch	11328	19 Jan.
Atkinson, J. E., and another, Liverpool, Eng. Suspender for billiard chucks	11455	16 March.
Atterbury, B. J., and another, New Malden, Eng. Production of acetylene compounds	11689	8 June.
August, H., and another, Invercargill, N.Z. Gold-prospecting implement	11968	6 Sept.
Auldjo, L. C., Sydney, N.S.W. Furnace	11500	30 March.
Auldjo, L. C., Sydney, N.S.W. Heat-cycle for steam-engine	11835	27 July.
Automatic Telephone Company (Limited), The, London, Eng. Automatic telephone-exchange. (G. Seligmann-Lui)	11698	8 June.
Avery, D., and another, Kew, Vic. Recovering gold and silver	11854	3 Aug.
Avery, J., Nelson, N.Z. Rocket-code for railway signals	11760	29 June.
Avery, J., and another, Armadale, Vic. Recovering gold and silver	11854	3 Aug.
Avery, R., and another, Sausalito, U.S.A. Rock-drill	12161	10 Nov.
Avey, G. A., and another, Thames, N.Z. Prevention of freezing in pumps	12063	7 Oct.
Aylmer, H., and another, Richmond, Canada. Drill for boring	11708	12 June.
Aylworth, D. W., South Haven, Michigan, U.S.A. Fence-clamp. (N. B. Leslie)	11647	25 May.
Bachmann, J. F., and others, Vienna, Austria. Electrical resistances of artificial-stone composition	11743	*24 Aug., '98
Bachmann, J. F., and others, Vienna, Austria. Electrical heating appliance	11744	*24 Aug., '98
Bacon, W. W., and another, Sydney, N.S.W. Shearing-machine	11451	16 March.
Badische Anilin- und Soda-fabrik, Ludwigshafen-on-Rhine, Germany. Sulphuric-anhydride. (R. Knietseh)	11890	14 Aug.
Baines, W., London, Eng. (See E. W. Rudd, No. 12252.)		
Baird, J., Auckland, N.Z. Rotary engine	11345	26 Jan.
Baker, A., Auckland, N.Z. Sleeve-link	11914	22 Aug.
Baker, G. S., and another, London, Eng. Whisking-machine	11561	26 April.
Baker, W. K., and another, London, Eng. Whisking-machine	11561	26 April.
Baldwin, E. S., Wellington, N.Z. Lighthouse-lamp. (O. Ostenson)	11580	3 May.
Ballantine, T., Melbourne, Vic. Perambulator	11747	26 June.
Ballard, G., Buckland, N.Z. Subsoiling attachment to plough	11599	4 May.
Ballou, F., Leadville, U.S.A. Smelting ores	12188	23 Nov.
Bancroft, J. S., Philadelphia, U.S.A. (See Lanston Monotype Machine Company, No. 11815.)		
Bancroft, J. S., and another, Philadelphia, U.S.A. (See Lanston Monotype Machine Company, No. 11816.)		
Banks, Jessie, Auckland, N.Z. Bandbox for bonnets, &c.	11313	11 Jan.
Barber, A. L., New York, U.S.A. Propelling vehicles. (F. O. and F. E. Stanley)	11862	4 Aug.
Barnes, G., Melbourne, Vic. (See A. S. Bloomfield, No. 11582.)		
Barnet, T., Sydney, N.S.W. Time-indicator and -recorder for telephone	11377	13 Feb.
Barnett, M., Charters Towers, Queensland. Enumerating-machine	12192	23 Nov.
Barningham, S., and another, Dunedin, N.Z. Prospecting-apparatus	12230	6 Dec.
Barr, M., and another, Broadheath, Eng. (See The Linotype Company, Limited, No. 11359.)		
Barr, W., Dunedin, N.Z. Spring for rabbit-trap	11759	29 June.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Barthel, G., and others, Dresden, Germany. Burner for petroleum	11418	3 March.
Bartlett, F. L., Cañon City, Colorado, U.S.A. Ore-concentrator	11452	16 March.
Bartley, E., Auckland, N.Z. Stud for securing scrim to walls	12094	13 Oct.
Barton, A. T., and another, London, Eng. (See C. H. Izard, No. 11613.) ..		
Barton, W. W., and another, London, Eng. (See C. H. Izard, No. 11613.) ..		
Basan, E. T. A., and another, Perth, W.A. Train-indicator for crossings ..	11810	20 July.
Baseman, E., Macedon, U.S.A. (See Bickford and Huffman Company, No. 11649.)		
Basley, P. H., and another, Auckland, N.Z. Hair-curler	11931	23 Aug.
Bastick, J., Birmingham, Eng. Manufacture of calcium carbide	11323	18 Jan.
Bates, H. M., and another, London, Eng. Match	12251	21 Dec.
Bates, S., and others, Walsall, Eng. Saddle	11334	25 Jan.
Beaven, A. W., and another, Christchurch, N.Z. Seed-cleaning machine ..	11382	15 Feb.
Beaven, A. W., and others, Christchurch, N.Z. Mixing and preparing chemical manures	12066	6 Oct.
Beavis, J. B., Minneapolis, U.S.A. Account-, sales-, or order-book	11927	22 Aug.
Bechi, De. (See under D.)		
Bechtolsheim, Von. (See under V.)		
Beck, W. J., Fitzroy, Vic. Nail for horse-shoe	11645	22 May.
Bede, E., Brussels, Belgium. (See E. Water, jun., No. 11684.)		
Bedell, H. G., Wellington, N.Z. Window-sash	11895	15 Aug.
Bedell, H. G., and another, Wellington, N.Z. Raising water	11848	1 Aug.
Bedell, H. G., and another, Wellington, N.Z. Spouting dies	11662	30 May.
Bedell, H. G., and another, Wellington, N.Z. Ball-cock for water-cistern ..	11719	16 June.
Bedell, H. G., and another, Wellington, N.Z. Lead-heading nails	12117	26 Oct.
Beere, G. B., Auckland, N.Z. Automatic railway-coupling	11837	24 July.
Begg, J., Assam, India. Digger, scarifier, and weeder	11701	7 June.
Belk, M., Palmerston North, N.Z. Brand for meat	11973	11 Sept.
Bell, G. W., and others, Sydney, N.S.W. Explosive. (W. C. Quinby)	11413	2 March.
Bell, H., and another, Sydney, N.S.W. Hair-curler	11653	25 May.
Bendixen, N., Copenhagen, Denmark. Sterilizing milk	11488	28 March.
Bergl Australia (Limited), and another, Sydney, N.S.W. Manufacture of food from blood	11281	4 Jan.
Bey, P., Talbot, Vic. Vat for ores	11606	11 May.
Bickerton, A. A., Christchurch, N.Z. Petroleum cresset	11376	14 Feb.
Bickerton, W. H., Christchurch, N.Z. Effervescing drink	11950	1 Sept.
Bickford and Huffman Company, Macedon, U.S.A. Grain drill. E. Baseman)	11649	25 May.
Biddle, H., Wellington, N.Z. Closing wool-bales, &c.	11849	2 Aug.
Billens, A., Christchurch, N.Z. Aerating milk	11868	7 Aug.
Binney, J., Fairlie, N.Z. Wool-washing machine	12199	22 Nov.
Bishop, J. E., Sydney, N.S.W. Setting wheel-tires	11814	20 July.
Bjerregaard, A. P., New York, U.S.A. Manufacture of varnish	11826	25 July.
Blaker, W., London, Eng. Rotary advertising device	12250	21 Dec.
Blakey, W. J., Auckland, N.Z. Venetian blind	11593	2 May.
Bloomfield, A. S., Melbourne, Vic. Window sash. (G. Barnes)	11582	3 May.
Bodle, D. W., Manurewa, N.Z. Roller-guide for belting	11808	15 July.
Bond, E., and others, Auckland, N.Z. Bicycle	11844	26 Jan.
Boocook, C., Christchurch, N.Z. Liquid for use in chrome-tanning	11577	1 May.
Bourke, M. F., and another, Riverside, N.Z. Dropper for wire-fencing ..	12116	24 Oct.
Bowater, W. T., Ohakune, N.Z. Supplying water to cow-bails	11963	6 Sept.
Bowater, W. T., Ohakune, N.Z. Straining milk and conveying it to cooler ..	11964	6 Sept.
Bowell, A. H., Auckland, N.Z. Glazed earthenware house-block	11564	22 April.
Bowell, A. H., and another, Auckland, N.Z. Dressing flax	11471	20 March.
Boyens, W. H., Kaikoura, N.Z. Fountain pen	11851	2 Aug.
Boyens, W. H., Christchurch, N.Z. Branding carcasses	11622	25 May.
Boyens, W. H., and another, Kaikoura, N.Z. Marking sheep, &c.	11574	2 May.
Boys, F. T., Invercargill, N.Z. Packing rabbits, &c.	11399	24 Feb.
Bradley, C. S., and another, Avon, U.S.A. Manufacturing soluble salts of barium..	11325	20 Jan.
Bradley, W., Sheffield, Eng. Water-tap	11847	1 Aug.
Brady, H. N., and another, Melbourne, Vic. Cigarette mouthpiece-making machine	11431	9 March.
Brandon, Anna de R., Auckland, N.Z. Lacing boots and shoes	11869	4 Aug.
Brereton, J. W., Athlone, Ireland. Cycle driving-gear	11296	9 Jan.
Bridgland, E. T., and another, Adelaide, S.A. Refrigerator	11609	11 May.
Bristow, C., Marton, N.Z. Fastener for driving-chains of sprocket-wheels	12271	30 Dec.
Brokensha, J., Invercargill, N.Z. Hair-pin	12211	27 Nov.
Bromell, T. A., Wellington, N.Z. Wire strainer	11853	3 Aug.
Brooke-Smith, E., and another, Auckland, N.Z. Treating flax	11408	27 Feb.
Brooke-Smith, E., and another, Auckland, N.Z. Extracting oil from vegetable substances	11445	15 March.
Brooke-Smith, E., and another, Auckland, N.Z. Treating flax	12165	11 Nov.
Brown, A., Wellington, N.Z. Fire-escape	11304	11 Jan.
Brown, A., and another, Manchester, Eng. Saucepan	11745	26 June.
Brown, J., and another, Manchester, Eng. Saucepan	11745	26 June.
Brown, M., Mosgiel, N.Z. Feed-roller for chaff-cutter	12134	2 Nov.
Brown, Rachel, Auckland, N.Z. Medicine	11633	18 May.
Brown, W. J., Dunedin, N.Z. Fire-escape	11410	28 Feb.
Browne, E. E., San Francisco, U.S.A. (See Fraser and Chalmers, Limited, No. 11633.)		
Brownlee, W., Havelock, N.Z. Capsizing guide-pulley	11370	13 Feb.
Bruce, M., Thames, N.Z. Vat for treating ore	11620	10 May.
Bryson, J., and others, Pumphreston, North Britain. Retort for distillation of shale, &c.	11366	10 Feb.
Buchan, H. J., Redfern, N.S.W. Acetylene generator	12179	16 Nov.
Buchanan, A., Palmerston North, N.Z. Ventilated insole for boots and shoes	11688	2 June.
Buchanan, D., Auburn, Vic. Potato-digger	11492	29 March.
Buchanan, D., Auburn, Vic. Potato-digger	12089	16 Oct.
Buchanan, W., Merriwa, N.S.W. Piano	11585	3 May.
Buckley, J. W., Christchurch, N.Z. Cycle luggage-carrier	11758	28 June.
Buckman, J., Bulls, N.Z. Flax-stripper	11965	7 Sept.
Bunting, T., and another, Christchurch, N.Z. Scrubbing-brush	11880	9 Aug.
Burger, M., and another, New York, U.S.A. (See The General Liquid Air and Refrigerating Company, No. 11424.)		

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Burrell, W., and another, Melbourne, Vic. Rabbit-crate	11855	3 Aug.
Burton, E., and another, Brisbane, Queensland. Ticket-printing and -issuing machine ..	12091	16 Oct.
Burton, E., and another, Brisbane, Queensland. Scratching-board for sports	12253	21 Dec.
Burton, E., and another, Brisbane, Queensland. Recorder for sports, &c.	12254	21 Dec.
Burton, G. D., Boston, U.S.A. Unhairing hides and skins	11341	26 Jan.
Burton, G. D., Boston, U.S.A. Tanning hides and skins	11342	26 Jan.
Burton, W. H., and others, Tokatoka, N.Z. Bicycle	11344	26 Jan.
Butler, W. H., New York, U.S.A. Filling and covering boxes	12210	28 Nov.
Butt, G. W., and another, Littlehampton, Eng. Carving-machine	11558	26 April.
Butterworth, R., and another, Broken Hill, N.S.W. Separator	11901	18 Aug.
Butterworth, R., and another, Broken Hill, N.S.W. Separator	11902	18 Aug.
Butterworth, R., and another, Broken Hill, N.S.W. Separator	11903	18 Aug.
Cable, W., Wellington, N.Z. Wire strainer	11824	24 July.
Calvert, L. M., Oudit, Vic. Potato-digger. (A. Sell)	11805	11 Jan.
Cameron, E. A., Queenstown, N.Z. Spark-arrester and fuel-economiser	11489	24 March.
Campbell, A. L., and others, Melbourne, Vic. Filter	12226	7 Dec.
Campbell, H. C., and another, San Francisco, U.S.A. Rock-drill	12161	10 Nov.
Campbell, J., and another, Broad Arrow, W.A. Reflector-light for piano	12081	13 Oct.
Campbell, J. P., Wellington, N.Z. Electrical-measuring instrument. (H. P. Davis and F. Conrad)	11829	26 July.
Campbell, J. P., Wellington, N.Z. Circuit-breaker. (H. P. Davis and G. Wright)	11897	16 Aug.
Campbell, J. P., Wellington, N.Z. Distribution of electrical power. (R. D. Mershon)	11919	24 Aug.
Campbell, J. P., Wellington, N.Z. Fuse-block for electric circuit. (H. P. Davis)	11947	2 Sept.
Campbell, J. P., Wellington, N.Z. Switch for electric circuit. (G. Wright and C. Aalborg)	11948	2 Sept.
Campbell, J. P., Wellington, N.Z. Electrical machine. (B. G. Lamme and J. P. Mallett)	12029	29 Sept.
Campbell, J. P., Wellington, N.Z. Alternating-current induction motor. (B. G. Lamme)	12030	29 Sept.
Campbell, W. E., and another, Wanganui, N.Z. Cycle-frame	11987	13 Sept.
Campion, Emily E., Wellington, N.Z. Apron-bag	12040	2 Oct.
Carr, D. C., Melbourne, Vic. Indicating results of races, &c.	11999	20 Sept.
Carriek, F. H., Wellington, N.Z. Whipping ropes	11884	14 Aug.
Casgrain, L. A., Winchester, U.S.A. (See McKay Shoe-machinery Company, No. 12115)		
Caspers, H., Sydney, N.S.W. Tiring wheels of road-vehicles	12000	20 Sept.
Chamberlain, W. E., Feilding, N.Z. Slasher	12019	28 Sept.
Chapman, A. H., Wellington, N.Z. Walls for freezing-chambers	11437	11 March.
Chapman, A. H., Kurow, Otago, N.Z. Clearing snow and ice from cooling-pipes of freezing-chambers	12035	27 Sept.
Chasles, A. L. P., Orleans, France. Facing for cycle-pedals, &c.	12190	23 Nov.
Chatfield, A. W., Auckland, N.Z. Waterproofing compound	12195	20 Nov.
Chipman, H. S., Sydney, N.S.W. Oil-lamp burner	11453	16 March.
Christiansen, A. C., Aalborg, Denmark. Weighing liquids	11312	11 Jan.
Christie, R. L., and another, Gore, N.Z. Gold-saving plate	12144	2 Nov.
Clark, E. L., Auckland, N.Z. Rotary engine	11786	7 July.
Clark, G. C., Paddington, Sydney, N.S.W. Concentrator	11368	10 Feb.
Clark, J., Okato, N.Z. Instrument for punching bull's nose before inserting ring	11553	20 April.
Clark, R. O. (jun.), Auckland, N.Z. Machine for working clay	11825	21 July.
Cleene, De. (See under D.)		
Clements, T., Launceston, Tasmania. Door-adjusting apparatus	11697	8 June.
Clifford, F., Westport, N.Z. Flax-dressing machine	12261	21 Dec.
Coates, G., Ngairu, N.Z. Wire-strainer	11421	7 March.
Cockerell, M. A., Dunedin, N.Z. Washing-fluid	11290	6 Jan.
Cockerell, R., Dunedin, N.Z. Crushing-machine	11483	21 March.
Cockerell, R., Dunedin, N.Z. Gold-saving table	11750	23 June.
Cockerell, R., Dunedin, N.Z. Reverse action rocking-lever	11803	14 July.
Cockerell, R., Dunedin, N.Z. Stamp-battery	12003	16 Sept.
Coe, J., Auckland, N.Z. Electrical clock	12111	20 Oct.
Coffee, F., Sydney, N.S.W. Reclining-chair	12139	3 Nov.
Commons, F. W., Ballarat, Vic. Jointing wood, stone, &c.	11833	27 July.
Conrad, F., and another, Wilkinsburg, U.S.A. Arc-lamp	11355	2 Feb.
Conrad, F., and another, Wilkinsburg, U.S.A. Electric motor and meter	11465	21 March.
Conrad, F., and another, Wilkinsburg, U.S.A. Alternating current-measuring instrument	11495	29 March.
Conrad, F., and another, Wilkinsburg, U.S.A. (See J. P. Campell, No. 11829).		
Cooze, C. J., Carterton, N.Z. Branding sheep	12064	26 Sept.
Corbett, F. J., South Yarra, Vic. Transmitting and increasing power	11807	12 July.
Corbett, F. J., South Yarra, Vic. Manufacture of lead carbonate	12150	2 Nov.
Corbett, M. J., Greymouth, N.Z. Launching stranded vessels	12160	1 Nov.
Cornish, S. H., and another, Melbourne, Vic. Mattress	11652	25 May.
Corrick, H., Wellington, N.Z. Cycling- or walking-shoe	12007	22 Sept.
Corson, W. L., San Francisco, U.S.A. Gas engine	11627	12 May.
Cotton, A. H., Waiapu, N.Z. Mustard-pot	12058	3 Oct.
Cotton, A. H., and another, Waiapu, N.Z. Shell or projectile	12074	7 Oct.
Cotton, D. W., and another, Westport, N.Z. Quicksilver injector	12146	2 Nov.
Cotton, D. W., and another, Westport, N.Z. Gold-saving block	12147	2 Nov.
Courcy, De. (See under D.)		
Courtney, C. F., and another, Broken Hill, N.S.W. Separator	11901	18 Aug.
Courtney, C. F., and another, Broken Hill, N.S.W. Separator	11902	18 Aug.
Courtney, C. F., and another, Broken Hill, N.S.W. Separator	11903	18 Aug.
Cowan, J., and others, Edinburgh, Scotland. Water tube boiler	12239	14 Dec.
Cox, Mary E., and another, Sydney, N.S.W. Hair-curler	11653	25 May.
Crawdock, E. H., and another, Auckland, N.Z. Attachment to meter to indicate leakage of gas	11540	14 April.
Crawford, R., Feilding, N.Z. Fencing tool	11671	5 June.
Crawford, R., and another, Belfast, Ireland. Scutching flax	12249	21 Dec.
Crook, R. A., Christchurch, N.Z. Punching fencing-standards	11440	10 Mar.
Crook, R. A., Christchurch, N.Z. Fencing standard	11518	10 April.
Crosbie, Talbot. (See under T.)		
Cross, W., Brisbane, Queensland. Preserving timber	11871	9 Aug.
Crosse, A. F., Johannesburg, S.A. Republic. Recovering gold	12053	5 Oct.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Cruikshank, R., and others, Campbelltown, N.Z. Rabbit-crate	11666	30 May.
Cuff, W. H., Braintree, U.S.A. (See McKay Shoe Machinery Co., No. 12162.)		
Cuming, A. J., Christchurch, N.Z. Branding	11602	9 May.
Cuming, A. J., Christchurch, N.Z. Branding	11663	30 May.
Cuming, A. J., Christchurch, N.Z. Marking meat	11700	8 June.
Cuming, A. J., Christchurch, N.Z. Dredging apparatus	11820	19 July.
Cuming, A. J., Christchurch, N.Z. Sowing seed and manure	11883	10 Aug.
Cuming, A. J., St. Albans, N.Z. Dehairing hides and skins	11916	21 Aug.
Curtis, C. W., and another, London, Eng. Explosive	11711	12 June.
Curtis, F., Dunedin, N.Z. Medicine	11503	30 Mar.
Curtis, M. B., Dunedin, N.Z. Collar-stud	11326	21 Jan.
Cutten, W., Dunedin, N.Z. Lubricating lower tumblers of dredges	12038	29 Sept.
Cutten, W., Dunedin, N.Z. Separating solid matter from liquids	12036	29 Sept.
Cutten, W., Dunedin, N.Z. Replacing buckets on lower tumbler of dredge	12012	20 Sept.
Cutten, W., Dunedin, N.Z. Suction elevator	11409	28 Feb.
Cutten, W. H., Dunedin, N.Z. Dredge bucket-link	11371	14 Feb.
Cutten, W. H., Dunedin, N.Z. Reversing motion of dredge-bucket	11799	17 July.
Cutten, W. H., Dunedin, N.Z. Dredge bucket	12169	13 Nov.
Cutten, W. H., Dunedin, N.Z. Elevating tailings	12219	5 Dec.
Dabb, W., Croydon, Vic. Mop	11742	26 June.
Dalton, H., Stratford, N.Z. Sarking for carrying felt for roofs, walls, &c.	11866	7 Aug.
Dalton, H., Stratford, N.Z. Chimney	11917	23 Aug.
Dannhardt, F. H., and another, Richmond, Vic. Earth- or rock-drill	11685	6 June.
Darvall, G. W., Wellington, N.Z. Roof and spouting for buildings	11943	1 Sept.
Daseking, G., and another, Hanover, Germany. Milking-machine	11438	11 Mar.
Daseking, G., and another, Hanover, Germany. Process and apparatus for milking	11439	11 Mar.
Davidson, M. J., Copenhagen, Denmark. Pulverising ores	12173	13 Nov.
Davidson, M. J., Copenhagen, Denmark. Pulverising cement	12174	13 Nov.
Davidson, J., New Plymouth, N.Z. Smoke consumer for steam-boiler	11318	13 Jan.
Davie, Lizzie, Wellington, N.Z. Apparatus for washing crockery, &c.	11380	16 Feb.
Davies, L., and another, Kyles of Bute, Scotland. Explosive	11711	12 June.
Davis, H. P., and another, Pittsburg, U.S.A. Electric switch	11353	2 Feb.
Davis, H. P., and another, Pittsburg, U.S.A. Arc lamp	11355	2 Feb.
Davis, H. P., and another, Pittsburg, U.S.A. Electric motor and meter	11465	21 March.
Davis, H. P., Pittsburg, U.S.A. Electric motor controller	11467	21 March.
Davis, H. P., Pittsburg, U.S.A. Circuit-breaker	11493	29 March.
Davis, H. P., Pittsburg, U.S.A. Electric brake	11494	29 March.
Davis, H. P., and another, Pittsburg, U.S.A. Alternating current-measuring instrument	11495	29 March.
Davis, H. P., and others, Pittsburg, U.S.A. Switch for electric circuit	11530	14 April.
Davis, H. P., Pittsburg, U.S.A. Controller for electric motor	11534	15 April.
Davis, H. P., and others, Pittsburg, U.S.A. Electric railway	11536	15 April.
Davis, H. P., Pittsburg, U.S.A. Electric motor	11618	12 May.
Davis, H. P., Pittsburg, U.S.A. (See W. E. Hughes, No. 11695.)		
Davis, H. P., and others, Pittsburg, U.S.A. Controller for electric motor	11731	22 June.
Davis, H. P., and another, Pittsburg, U.S.A. (See J. P. Campbell, No. 11829.)		
Davis, H. P., and another, Pittsburg, U.S.A. (See J. P. Campbell, No. 11897.)		
Davis, H. P., and another, Pittsburg, U.S.A. (See W. E. Hughes, No. 11941.)		
Davis, H. P., Pittsburg, U.S.A. (See J. P. Campbell, No. 11947.)		
Davis, L. R., and another, Broad Arrow, W.A. Reflector-light for piano	12081	13 Oct.
Davis, W. I., Reefton, N.Z. Dredge	11565	19 May.
Dawes, T., Napier, N.Z. Tool for gardening purposes	11861	2 Aug.
Dawson, B., Wellington, N.Z. Post-and-wire fencing	11555	26 April.
Day, E., Sydenham, N.Z. Iron for finishing edges of boot soles	11794	13 July.
Day, E., Sydenham, N.Z. Iron for finishing edges of boot soles	11551	20 April.
Deacon, O., and another, New Plymouth, N.Z. Ear-mark for live-stock	12043	30 Sept.
De Alzugaray, J. B., Shortlands, Kent, Eng. (See C. H. Izard, No. 12129.)		
De Bechi, G., Paris, France. Treating complex ores	11693	*4 Nov., '98.
De Cleene, L. S., Palmerston North, N.Z. Lifting-jack	11656	26 May.
De Courcy, E. J., and another, Belfast, Ireland. Scutching flax	12249	21 Dec.
Deering Harvester Company, Chicago, U.S.A. Harvester. (J. F. Steward and C. A. A. Rand)	11529	14 April.
De Haas, W., and others, Hamburg, Germany. Burner for petroleum	11418	3 March.
Dell, H., Pukekohe, N.Z. Horse-cover	11906	16 Aug.
Delprat, G. D., and others, Broken Hill, N.S.W. Leaching ores	12204	28 Nov.
De Montin, H., and others, Middlesex, Eng. Polychrome printing-machine	11461	20 March.
Denaeyer, A., Brussels, Belgium. Manufacture of cocoa and milk products	12014	*2 Feb.
Dewar, P. M., Auckland, N.Z. Rotary steam-engine	11991	13 Sept.
Dick, J., Glasgow, North Britain. Treating ores. (W. R. Hutton)	11723	14 June.
Dick, W. B., Hamilton, N.S.W. Butter-printing machine	11725	14 June.
Dickson, A. A., Toronto, Canada. Manufacture of fuel	11605	11 May.
Diesel, R., Munich, Germany. Internal-combustion engine	12164	10 Nov.
Dodd, P. G., London, Eng. Animal trap	11771	5 July.
Doe Portable Electric Light and Power Syndicate (Limited), The, London, Eng. Galvanic battery. (W. S. Doe)	11741	23 June.
Doe, W. S., Jersey, U.S.A. (See The Doe Portable Electric Light and Power Syndicate, Limited, No. 11741.)		
Dolphin, A., and another, Auckland, N.Z. Brickmaking machine	12039	2 Oct.
Dolter, H., Paris, France. Electric traction	12070	9 Oct.
Donald, D., Masterton, N.Z. Eccentric journal lever	11314	13 Jan.
Donnelly, T. C., Dunedin, N.Z. Sifting-screen	11517	5 April
Dooling, D., Hokitika, N.Z. Grubber	12090	16 Oct.
Dornbusch, A., Whangamomona, N.Z. Railway coupling	12262	27 Dec.
Downs, J., New Plymouth, N.Z. Consuming smoke from steam-engines	11292	5 Jan.
Drage, J. J., and another, Adelaide, S.A. Refrigerator	11609	11 May.
Dresser, S. R., Bradford, U.S.A. Pipe-coupling	11583	3 May.
Dresser, S. R., Bradford, U.S.A. Pipe-coupling	12123	27 Oct.
Drewitt, F. M., and another, Christchurch, N.Z. Ashpan and cinder-sieve	11789	12 July.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Drummev, J., Alexandra, N.Z. Dredge	11770	5 July.
Duignan, J. C., Melbourne, Vic. Milking appliance	11994	15 Sept.
Duncan, Limited, P. and D., Christchurch, N.Z. Manure discharge for agricultural drill	11875	9 Aug.
Dunlop, H., Summer Hill, N.S.W. Top-dressing for wood blocks for streets	11512	6 April.
Dyhrberg, L. N., and another, Ashburton, N.Z. Belt and braces	12004	18 Sept.
Eagleton, R., and another, Auckland, N.Z. Hair-wash	11792	11 July.
East, J., Gisborne, N.Z. Treating flax	12212	28 Nov.
Echlin, R. B., and another, Toowong, Queensland. Ticket-printing and -issuing machine	12091	16 Oct.
Echlin, R. B., and another, Toowong, Queensland. Scratching-board for sports	12253	21 Dec.
Echlin, R. B., and another, Toowong, Queensland. Recorder for sports	12254	21 Dec.
Edison, T. A., New Jersey, U.S.A. Crushing- or grinding-rolls	12023	28 Sept.
Ekstromer, E. C., and another, Middlesex, Eng. Extracting metals	11293	9 Jan.
Elder, W. K., Auckland, N.Z. Grip for use in sewing up wool-packs	11299	5 Jan.
Ellershausen, F., London, Eng. Treatment of flue-dust and fumes	12021	28 Sept.
Elstob, J. H., Christchurch, N.Z. Bicycle-support	12172	13 Nov.
Evans, E., Llanrwst, Wales. (See The Imperial S. C. Acetylene-gas Company, Limited, No. 11523.)		
Evans, W., Birchfield, Eng. Till	12022	28 Sept.
Evens, R., Sydney, N.S.W. Sheep medicine	11549	22 April.
Eves, T., Ongar, Essex, Eng. (See W. E. Hughes, No. 11560.)		
Fairhead, W., and another, Auckland, N.Z. Hanging window-sashes	11300	7 Jan.
Falk, C. A., and another, Sydney, N.S.W. (See E. H. and H. A. Jull, No. 11432.)		
Farmer, R. J., Sydney, N.S.W. Non-refillable bottle	11839	28 July.
Faulkner, J. W., Dunedin, N.Z. Protecting-covers for gold-saving plant	12231	8 Dec.
Ferguson, G. W., Sunny Corner, N.S.W. Snip for cutting sheet-metal	12213	1 Dec.
Ferguson, P., Auckland, N.Z. Agitating- and settling-vat	12118	24 Oct.
Ferrell, J. L., Philadelphia, U.S.A. Impregnating wood with fire-proofing preservative reagents	11412	28 Feb.
Finch, R. H., and another, Sydney, N.S.W. Coupling for air-brakes	11845	1 Aug.
Fincham, R. P., Auckland, N.Z. Knife-cleaner	12044	2 Oct.
Firth, T., Wellington, N.Z. Fire-escape	11660	30 May.
Fischer, G., London, Eng. Treating ores and slimes	11426	7 March.
Fish-oil and Guano Company (Limited), The, and another, London, Eng. Extracting oil	11416	3 March.
Fisher, G. H., Wellington, N.Z. Cycle mud-guard and tire-cleaner	11797	15 July.
Fitchett, J., Wellington, N.Z. Vehicle wheel	11734	23 June.
Fitzpatrick, W., Nelson, N.Z. Raising ships	12143	1 Nov.
Flatman, H. A., Christchurch, N.Z. Steering-gear for traction-engine	12031	28 Sept.
Flay, H., Wanganui, N.Z. Vehicle brake	12034	26 Sept.
Fletcher, H. C., and another, Melbourne, Vic. Mattress	11652	25 May.
Fog, S. L., and another, Copenhagen, Denmark. Headless match	11992	15 Sept.
Ford, J., Wellington, N.Z. Broom-handle fastening	12009	22 Sept.
Fowler, J. W., Whangarei Heads, N.Z. Securing ship's screw-propeller	11961	5 Sept.
Fowler, J. W., Whangarei Heads, N.Z. Detonator	12011	22 Sept.
Foyer, M. J., Sydney, N.S.W. Cash- and parcel-carrier system	11514	6 April.
Frank, A. R., Charlottenberg, Germany. (See the Acetylene Purifying Company, Limited, No. 11939.)		
Franklin, H. C., Dunedin, N.Z. Table, reading-desk, and cupboard combined	11623	15 May.
Franks, H., Sydney, N.S.W. Devices for display	11330	24 Jan.
Fraser and Chalmers (Limited), London, Eng. Pump. (J. Stumpf)	12119	27 Oct.
Fraser and Chalmers (Limited), London, Eng. Raising water from mine-shafts. (R. E. Browne)	11683	6 June.
Fraser, J. C., Coromandel, N.Z. Recovering gold	12135	30 Oct.
Fraser, W., and others, Glasgow, North Britain. Retort for distillation of shale, &c.	11366	10 Feb.
Free, S. L. P., Wellington, N.Z. Gold-saving table	12112	23 Oct.
Freeman, T. K., London, Eng. (See W. E. Hughes, No. 11560.)		
Friend, J. E., Wellington, N.Z. Cycle driving-gear	11472	22 Mar.
Friend, J. E., Wellington, N.Z. Sole for boot or shoe	11936	30 Aug.
Fry, H. A., Riwaka, N.Z. Knife-cleaner	12062	7 Oct.
Fuller, G. A., Christchurch, N.Z. Wool-washing apparatus	11932	25 Aug.
Fullwood, H., Carlton, Vic. Ventilation of mines	11473	22 Mar.
Gaffy, M., Mooroopna, Vic. Pruning-shears	11675	6 June.
Galbraith, D. R. S., Auckland, N.Z. Bread-making	12057	2 Oct.
Galbraith, D. R. S., Auckland, N.Z. Bread-making	11757	28 June.
Galbraith, D. R. S., Auckland, N.Z. Water-filter	11730	17 June.
Galbraith, D. R. S., Auckland, N.Z. Controlling horses	11388	16 Feb.
Galbraith, D. R. S., Auckland, N.Z. Treatment of butter	11644	18 May.
Galbraith, D. R. S., and another, Auckland, N.Z. Utilising kauri-gum deposits	11469	18 Mar.
Galbraith, D. R. S., and another, Auckland, N.Z. Lubricating oil	11470	18 Mar.
Galbraith, D. R. S., and another, Auckland, N.Z. Shell or projectile	12074	7 Oct.
Galbraith, D. R. S., and another, Auckland, N.Z. Steamship	12170	10 Nov.
Gallagher, T., Adelaide, S.A. Bicycle-seat and handle adjustment	11709	12 June.
Galloway, W. B., Palmerston South, N.Z. Rabbit-trap	11595	4 May.
Garchey, L. A., Lyons, France. Manufacture of ceramic stone	11282	4 Jan.
Gardner, J. H., and another, Christchurch, N.Z. Fuel	11338	25 Jan.
Gardner, J. O., Glorit, N.Z. Melting ironsand	11891	12 Aug.
Garnham, R., Wellington, N.Z. Water-closet cistern	11390	21 Feb.
Garnham, R., Wellington, N.Z. Inlet-valve float for water-cistern	11576	2 May.
Garnham, R., Wellington, N.Z. Valve for water-cistern	11920	24 Aug.
Gatenby, R. M., Wanganui, N.Z. Petty account book	12056	4 Oct.
Geer, Letitia M., New York, U.S.A. Syringe for rectal purposes	11525	14 April.
Geissler, C., Stassfurt, Germany. Apparatus for taking samples of pulverised materials	11524	14 April.
General Liquid Air and Refrigerating Company, The, New Jersey, U.S.A. Refrigerating or liquefying fluids or gases. (O. P. Ostergren and M. Burger)	11424	7 March.
Gere, W. E., Syracuse, U.S.A. (See Merrell-Soule Company, No. 11487.)		
Gibbings, A. H., and others, Bradford, Eng. Removing wool and hair from skins	11962	5 Sept.
Gibbons, H. J., and another, Perth, W.A. Train-indicator for crossings	11810	20 July.
Gibbons, N., Manurewa, N.Z. Double-keeled boat	11298	5 Jan.
Gibbons, R. P., Kopu, N.Z. Circulating water in steam boilers	12032	27 Sept.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued.*

Name, Residence, and Invention.	No.	Date.
Gibbons, S., and another, Marton, N.Z. Gold-saving apparatus	12106	21 Oct.
Gibson, J., Wallsend, N.S.W. Loading coal, &c., into ship's hold	11989	13 Sept.
Gilling, H. W., Okalawa, N.Z. Washing-machine	12005	21 Sept.
Gilmour, D., Trenton, Canada. Manufacture of lumber	12055	5 Oct.
Gilmour, D., Trenton, Canada. Manufacture of lumber	12088	14 Oct.
Gilshnan, E., Christchurch, N.Z. Compass and time-indicator	11403	24 Feb.
Girling, G., New Plymouth, N.Z. Stone-breaker's hammer	11702	9 June.
Gitsam, J., Richmond, Vic. Extraction of zinc	12194	23 Nov.
Glass, B. W., Belfast, N.Z. Wool-drying machine	11822	20 July.
Glover, Mary, Leicester, Eng. (See G. G. Turri, No. 11511.)		
Godward, E. R., Invercargill, N.Z. Ink-well	11850	29 July.
Godward, E. R., Invercargill, N.Z. Hair-pin	11878	8 Aug.
Godward, E. R., Invercargill, N.Z. Pin	11944	29 Aug.
Godward, E. R., Invercargill, N.Z. Egg-beater	12241	15 Dec.
Godward, E. R., Invercargill, N.Z. Tool for boring post-holes	12263	29 Dec.
Gold, F., Richmond, Vic. Nail	12259	22 Dec.
Gommessen, J., Sydney, N.S.W. Separating fats and grease	11682	6 June.
Gooder, N. I., Wellington, N.Z. Telegraph transmitter and receiver	11548	21 April.
Goodridge, E., Mossvale, N.S.W. Urinal	11310	12 Jan.
Gordon, J., Inverell, N.S.W. Non-refillable bottle	11331	24 Jan.
Gordon, T., and another, Wanganui, N.Z. Fire-escape ladder	11755	29 June.
Gore, J., Dunedin, N.Z. Roofing-tiles	11570	21 April.
Gould, C. H., Melbourne, Vic. Smoke-preventer and fuel-economiser	12263	28 Dec.
Gould, J. B., and another, Wellington, N.Z. Spigot	12015	25 Sept.
Graetz, M., Berlin, Germany. (See L. Thurnauer, No. 11612.)		
Graf, K., and another, Christchurch, N.Z. Plough	12037	29 Sept.
Graf, K., and another, Christchurch, N.Z. Cycle toe-clip	12102	18 Oct.
Graf, K., and another, Christchurch, N.Z. Seed-cleaning machinery	12103	18 Oct.
Graf, K., and another, Christchurch, N.Z. Wool-press	12168	11 Nov.
Graham, T. C., and others, Battle Creek, U.S.A. Extracting oil from nuts	11391	23 Feb.
Grant, A., Auckland, N.Z. Preserving meat	12041	28 Sept.
Grant, A., Auckland, N.Z. Preserving meat	12093	13 Oct.
Grant, D., and another, Wellington, N.Z. Cover for closet-seat	11291	6 Jan.
Grant, D., and another, Wellington, N.Z. Cover for closet-seat	11557	26 April.
Grayson, W., Gisborne, N.Z. Drawing fencing-staples	12196	21 Nov.
Green, G. H., Unley, S.A. Registering and recording fares	12189	23 Nov.
Green, R. W., Baynton, Vic. Race and register for counting sheep	11762	3 July.
Green, W. M., Melbourne, Vic. Crate	11562	27 April.
Greenslade, J., Christchurch, N.Z. Grain- and seed-threshing machine	11383	15 Feb.
Greig, W. C., and another, Christchurch, N.Z. Fuel	11338	25 Jan.
Griffiths, W., Brunnerton, N.Z. Bore-hole sludge and water-pump	12246	4 Dec.
Griffiths, W., Brunnerton, N.Z. Sinking bore-holes	12247	4 Dec.
Gulliver, H., Claremont, W. A Sash-holder	11716	16 June.
Guthridge, N., and others, Melbourne, Vic. Filter	12226	7 Dec.
Haas, De. (See under D.)		
Hadley, P. A., Auckland, N.Z. Fire-escape	12059	3 Oct.
Hair, J., Oamaru, N.Z. Wire strainer	11858	1 Aug.
Hall, E. W., Christchurch, N.Z. Syringe, enema, and hot-water bag	11860	2 Aug.
Hall, G., and another, New Plymouth, N.Z. Ear-mark for live-stock	12043	30 Sept.
Halstead, W., Pleasant Point, N.Z. Window-sash	11444	15 March.
Hamilton, J. W. C., and another, Liverpool, Eng. Curing and preserving hides and skins	11280	4 Jan.
Hamilton, J. W. C., and others, Liverpool, Eng. Manufacture of food from blood	11281	4 Jan.
Hamilton, J. W. C., and another, Liverpool, Eng. Rendering albumenoids of meat soluble	11811	20 July.
Hampton, H. V., Melbourne, Vic. Oil-explosion engine	11365	7 Feb.
Hampton, W., Auckland, N.Z. Vessel for liquids, &c.	11346	28 Jan.
Hancox, H. A., and another, Sydney, N.S.W. Rotary engine	11980	13 Sept.
Hancox, R. J., and another, Sydney, N.S.W. Rotary engine	11980	13 Sept.
Hannan, D., and another, Invercargill, N.Z. Rabbit-crate	11490	24 March.
Hannan, D., and another, Invercargill, N.Z. Rabbit-crate	11563	22 April.
Hansen, C. H., Greymouth, N.Z. Horse-cover fastener	11522	7 April.
Hansen, G., Russell, N.Z. Propeller steering apparatus	11923	21 Aug.
Harder, E. F., and another, Wilkinsburg, U.S.A. Electric switch	11353	2 Feb.
Harkness, B. G. A., Stratford, N.Z. Water-heater	11830	27 July.
Harkness, B. G. A., Stratford, N.Z. Hoist for dairy-factory	11831	27 July.
Harnett, E., London, Eng. Application of springs to cycles	12127	28 Oct.
Harper, C., Woodbridge, W. A Sheaf-header appliance for thresher	11634	18 May.
Harris, J. J., and another, London, Eng. Sporting-gloves	12237	14 Dec.
Harris, W. H., Christchurch, N.Z. Sifter	11449	14 Mar.
Harris, W. W., Middlesex, Eng. (See P. Pfeiderer, No. 11905.)		
Hartwell, E., and others, Blenheim, N.Z. Dressing flax	11592	3 May.
Harvey, W. H., London, Eng. (See W. E. Hughes, No. 11515.)		
Hassler, R. H., Indianapolis, U.S.A. Speed varying devices for electric motor	11617	12 May.
Hathaway, R. M., and another, Wellington, N.Z. Moistening adhesive surfaces	11477	23 Mar.
Hawke, T., Auckland, N.Z. Horse-cover	11865	3 Aug.
Hay, J., and others, Blenheim, N.Z. Dressing flax	11592	3 May.
Hay, R., and another, Dunedin, N.Z. Gold-saving mat	12240	11 Dec.
Hayhurst, Estelle, Christchurch, N.Z. Conveyance for debt-collectors	11448	14 Mar.
Hazlett, L. C., Dunedin, N.Z. Bridle	12153	7 Nov.
Heard, W. H., London, Canada. Spray-pump	11955	4 Sept.
Heeles, M. G., Wellington, N.Z. Gold-saving blanket	11598	8 May.
Heighton, A. L., Christchurch, N.Z. Machine belt fastener	11567	28 April.
Hellström, O. B., Sydney, N.S.W. Cornice and curtain-hanger	11587	4 May.
Hemmingway, J., Spearfish, U.S.A. Treating fuel	11953	4 Sept.
Hemus, Nellie A., Auckland, N.Z. Door for flue of grate	11823	21 July.
Henckels, O., and others, Hamburg, Germany. Burner for petroleum	11418	3 Mar.
Henderson, W. F., Catlin's River, N.Z. Churn	12108	20 Oct.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued.*

Name, Residence, and Invention.	No.	Date.
Henn, R. W., Hawera, N.Z. Pneumatic valve	11507	4 April.
Henn, R. W., Hawera, N.Z. Pneumatic valve	11508	4 April.
Henn, R. W., Hawera, N.Z. Pneumatic valve	11509	4 April.
Hesse, L., Melbourne, Vic. Utilising waste products of coffee during roasting	11763	3 July.
Hett, E., New Dorp, U.S.A. (See G. G. Turri, Nos. 12185, 12186, 12187.)		
Heys, J. J., Lynn, Massachusetts, U.S.A. (See W. E. Hughes, No. 12225.)		
Hight, A. E., Brookside, Canterbury, N.Z. Cleaning watercourses	11728	16 June.
Hildyard, G. R., Surrey, Eng. Manufacture of plates for printing	12236	*3 Feb.
Hill, C., and another, Ballarat, Vic. Cycle pedal and crank head	11974	11 Sept.
Hill, H. T., Waiuku, Auckland, N.Z. Composition for preventing horses being attacked by flies	11389	18 Feb.
Hodgkinson, T., Invercargill, N.Z. Kiln for bricks, &c.	11594	1 May.
Hodgson, H., Opunake, N.Z. Milk aerator and cooler	12220	5 Dec.
Holder, C. H., Auckland, N.Z. Automobile vehicle	11717	16 June.
Holland, S. J., Auckland, N.Z. Cooking apparatus	11736	22 June.
Holmes, J. A., and others, Christchurch, N.Z. Apparatus for steeping grain	11783	13 July.
Holst, P. N., and others, Copenhagen, Denmark. Cigarette machine	12184	17 Nov.
Hooker, Lucy, Sydney, N.S.W. Gas-burner	11309	12 Jan.
Hooper, G. H. B., Toronto, Canada. Electric brake	11856	3 Aug.
Horne, L., Melbourne, Vic. Treatment of ores	12052	5 Oct.
Horne, L., Melbourne, Vic. Propulsion of steamships	12130	31 Oct.
Horwood, E. J., and others, Broken Hill, N.S.W. Leaching ores	12204	28 Nov.
Hosking, W., Norseman, W.A. Automatic ore-feeder	11982	13 Sept.
House, H., and others, Christchurch, N.Z. Apparatus for steeping grain	11783	13 July.
Howard, J., Sydney, N.S.W. Bicycle attachment for transmitting power	11523	10 April.
Howe, A., Auckland, N.Z. Separating gold from ironsand	11301	7 Jan.
Howes, A., and another, Wanganui, N.Z. Rusticated board joint	11821	20 July.
Howes, A. A. N., and another, Wellington, N.Z. Motor	11406	27 Feb.
Howes, G. J., and another, Wanganui, N.Z. Rusticated board joint	11821	20 July.
Howland, H. E., New York, U.S.A. Burner for incandescent lamp. (O. M. Thowless)	11527	14 April.
Huckaby, G. E. U., Malden, U.S.A. Burring wool, &c.	11838	28 July.
Hudson, C. A., and another, Gore, N.Z. Gold-saving plate	12144	2 Nov.
Hughes, W. E., Wellington, N.Z. Alternating current apparatus. (E. M. Tingley and M. W. Shallenberger)	11356	2 Feb.
Hughes, W. E., Wellington, N.Z. Appliances for use in fireplaces, &c. (The Incandescent Fire, Mantel, and Stove Company, Limited; W. H. Harvey)	11515	6 April.
Hughes, W. E., Wellington, N.Z. Preservation of milk. (T. K. Freeman, T. Eves)	11560	26 April.
Hughes, W. E., Wellington, N.Z. Fuse-blocks for electric circuit. (H. P. Davis)	11695	8 June.
Hughes, W. E., Wellington, N.Z. Dynamo electric-machine. (B. G. Lamme)	11832	27 July.
Hughes, W. E., Wellington, N.Z. Spirit-lamp. (M. Salomon)	11834	27 July.
Hughes, W. E., Wellington, N.Z. Building-block. (E. Jensen)	11841	31 July.
Hughes, W. E., Wellington, N.Z. Controller for electric motor. (H. P. Davis and G. Wright)	11941	31 Aug.
Hughes, W. E., Wellington, N.Z. Drill. (H. J. Kimman and E. N. Hurley)	12001	20 Sept.
Hughes, W. E., Wellington, N.Z. Electrical distribution. (B. G. Lamme)	12010	22 Sept.
Hughes, W. E., Wellington, N.Z. Alternating current-generator. (B. G. Lamme)	12020	28 Sept.
Hughes, W. E., Wellington, N.Z. Valve for flushing cisterns. (P. Murphy)	12049	4 Oct.
Hughes, W. E., Wellington, N.Z. Attaching corrugated iron to buildings. (C. H. Windle)	12107	21 Oct.
Hughes, W. E., Wellington, N.Z. Heel-breasting machine. (McKay Shoe Machinery Company; J. J. Heys)	12225	7 Dec.
Hughes, W. E., Wellington, N.Z. Grinding-machine. (Plano Manufacturing Company; J. Macphail)	12257	21 Dec.
Hulme, A. I., and another, Richmond, N.Z. Furnace-boiler for baker's oven	11970	7 Sept.
Hurley, E. N., and another, Chicago, U.S.A. (See W. E. Hughes, No. 12001.)		
Hushands, J., London, Eng. (See D. McRorie, No. 12235.)		
Hutchinson, D., Melbourne, Vic. Sampling milk, &c.	11791	13 July.
Hutton, W. R., Glasgow, North Britain. (See J. Dick, No. 11723.)		
Imperial S.C. Acetylene Gas Company (Limited), The, Manchester, Eng. Storage and generation of acetylene. (E. Evans)	11528	14 April.
Imshenetzky, A., St. Petersburg, Russia. Manufacture of building material	11628	18 May.
Incandescent Fire Mantel and Stove Company (Limited), London, Eng. (See W. E. Hughes, No. 11515.)		
Isitt, F., Sydney, N.S.W. Incandescent-gas mantle	11805	12 July.
Isitt, F., Sydney, N.S.W. Compressing gas and air	11915	22 Aug.
Izard, C. H., Wellington, N.Z. Horse-clipper or sheep-shears. (W. W. and A. T. Barton)	11613	11 May.
Izard, C. H., Wellington, N.Z. Extracting gold. (J. B. de Alzugaray)	12129	30 Oct.
Jackman, Mary L., Auckland, N.Z. Pin	12149	2 Nov.
Jackman, Mary L., Auckland, N.Z. Clip for ladies' belt	12208	28 Nov.
Jackson, A. B., Tuparoa, N.Z. Spur-fastener	12258	22 Dec.
Jackson, F. H., New Plymouth, N.Z. Fastener for handles	11398	24 Feb.
Jacobs, C. B., and another, East Orange, U.S.A. Manufacturing soluble salts of barium	11325	20 Jan.
Jacobsen, T. B., and another, Auckland, N.Z. Hanging window-sashes	11300	7 Jan.
Jenkinson, G. H., Masterton, N.Z. (See J. E. Jenkinson, No. 11809.)		
Jenkinson, J. E., Wellington, N.Z. Mixing and cutting phosphorised pollard. (G. H. Jenkinson)	11809	18 July.
Jensen, E., Copenhagen, Denmark. (See W. E. Hughes, No. 11841.)		
Johns, J. T., and another, Auckland, N.Z. Steam-ship	12170	10 Nov.
Johnson, Ellen, and others, Bradford, Eng. Removing hair and wool from skins	11962	5 Sept.
Johnson, J. B., Te Aroha, N.Z. Milk aerating and cooling apparatus	11887	14 Aug.
Johnson, J. T., Waipori, N.Z. Hydraulic nozzle dredge	12145	3 Nov.
Johnson, S. L., and others, Bradford, Eng. Removing hair and wool from skins	11962	5 Sept.
Johnson, Mary A., Wellington, N.Z. Shaft connection for hand-cart, &c.	12151	7 Nov.
Johnson, Mary A., Wellington, N.Z. Device for supporting body of person in bed	12152	7 Nov.
Jonassen, M. P., and another, Christchurch, N.Z. Sheet-metal shears	12097	16 Oct.
Jones, E., Auckland, N.Z. Horse-cover	11464	21 March.
Jones, F. W., Barwick, Eng. Treatment of explosives	11294	9 Jan.
Jones, J., and others, Dalmeny, North Britain. Retort for distillation of shale, &c.	11366	10 Feb.
Jones, W., Feilding, N.Z. Appliance for drawing staples	11686	7 June.
Jones, W. P., and another, Cornwall, Eng. Match	12251	21 Dec.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Jones, W. R. S., London, Eng. Central buffer- and draw-gear apparatus for railway vehicles..	11436	11 March.
Jordan, E., and another, Sydney, N.S.W. Metal-sheet moulding machine ..	11614	12 May.
Jörg, A., and others, Vienna, Austria. Electrical resistances of artificial stone composition ..	11743	*24 Aug., '98
Jörg, A., and others, Vienna, Austria. Electrical heating appliance ..	11744	*24 Aug., '98
Joseph, J. H., and another, Perth, W.A. Race-game ..	11959	4 Sept.
Joyce, J. J., Sydney, N.S.W. Printing-surface or block ..	12084	13 Oct.
Jull, E. H., and another, Auckland, N.Z. Bicycle-stand and tool-chest. (A. Young and C. A. Falk)	11432	9 March.
Jull, H. A., and another, Auckland, N.Z. Bicycle-stand and tool-chest. (A. Young and C. A. Falk)	11432	9 March.
Kater, J. H. W., Reefton, N.Z. Filter ..	12158	8 Nov.
Kellogg, J. H., Battle Creek, U.S.A. Preparing cereal cakes ..	11045	4 Oct.
Kellogg, J. H., and others, Battle Creek, U.S.A. Extracting oil from nuts ..	11391	23 Feb.
Kellogg, W. K., and others, Battle Creek, U.S.A. Extracting oil from nuts ..	11391	23 Feb.
Kelly, P. G., Auckland, N.Z. Billiard-cue chalker ..	11806	12 July.
Kelly, P. G., Auckland, N.Z. Billiard-cue chalker ..	11715	13 June.
Kelly, T. H., and others, Sydney, N.S.W. Explosive. (W. C. Quinby) ..	11413	2 March.
Kemphorne, A. H. O., Te Puke, N.Z. Horse gears ..	11867	7 Aug.
Kenah, J. W., Mangatoki, N.Z. Bicycle-brake ..	11478	20 March.
Kerr, J., and others, Campbelltown, N.Z. Rabbit-crate ..	11666	30 May.
Kerr, R. C., Wellington, N.Z. Cleansing composition. (K. Plummer) ..	11733	23 June.
Kerry, R. A. C., Onehunga, N.Z. Knife-cleaner ..	11864	3 Aug.
Kershaw, B., Manchester, Eng. Knitting-machine ..	11921	24 Aug.
Kiernan, T. E., Turakina, N.Z. Trace spreader ..	11795	15 July.
Kimber, W. E., Johannesburg, S.A. Republic. Sharpening rock-drills, &c. ..	11433	9 March.
Kimman, H. J., and another, Chicago, U.S.A. (See W. E. Hughes, No. 12001).		
King, A. E., Lovell's Fat, N.Z. Rabbit-trap ..	11930	23 Aug.
King, J., Invercargill, N.Z. Spark arrester and extinguisher ..	12206	28 Nov.
Kingsbury, J. E., London, Eng. Telephonic system and apparatus ..	11307	11 Jan.
Kingsbury, J. E., London, Eng. Telephonic system and apparatus ..	11308	11 Jan.
Kingsbury, J. E., London, Eng. Telephonic system and apparatus ..	11327	21 Jan.
Kirchner, J., and others, Vienna, Austria. Electrical resistances of artificial stone composition ..	11743	*24 Aug., '98
Kirchner, J., and others, Vienna, Austria. Electrical heating appliance ..	11744	*24 Aug., '98
Kirk, R. N., and others, Sydney, N.S.W. Explosive. (W. C. Quinby) ..	11413	2 March.
Kirschner, A. G., and another, Copenhagen, Denmark. Headless match ..	11992	15 Sept.
Kitson, A., Germantown, U.S.A. Vapour burning lamp or stove ..	11566	27 April.
Kley, A. C., Liverpool, Eng. Printing and marking apparatus ..	12078	13 Oct.
Kley, A. C., Liverpool, Eng. Inking-pad ..	12079	13 Oct.
Klug, G. C. and others, Broken Hill, N.S.W. Leaching ores ..	12204	28 Nov.
Knietsch, R., Ludwigshafen-on-Rhine, Germany. (See Badische Anilin and Soda Fabrik, No. 11890).		
Knocks, A. J., Otaki, N.Z. Medicine for horses ..	11443	14 March.
Kohn, A., and another, Auckland, N.Z. Hair wash ..	11792	11 July.
Köneman, W. A., Boulder, W.A. Recovering gold ..	11348	1 Feb.
Köneman, W. A., Boulder, W.A. Treating ores ..	11349	1 Feb.
König, A., and others, Budapest, Hungary. Electrical resistances of artificial stone composition ..	11743	*24 Aug., '98
König, A., and others, Budapest, Hungary. Electrical heating appliance ..	11744	*24 Aug., '98
Koopman, E. B., London, Eng. Apparatus for exhibiting succession of pictures ..	11608	11 May.
Krause, A. H., Auckland, N.Z. Flavoured tea ..	11286	4 Jan.
Krause, J., Totara, N.Z. Coiling or uncoiling wire ..	11990	13 Sept.
Kreuser, E., Meckernich, Germany. Separating ores ..	11480	23 March.
Kugellicht Gesellschaft mit beschränkter Haftung, Dresden, Germany. Production of incandescent gas light. (E. Salzenberg)	11559	26 April.
Lafferty, C., St. Albans, N.Z. Bottom wash for boot soles ..	11603	10 May.
Lamberg, J., Wellington, N.Z. Windmill ..	11669	3 June.
Lamme, B. G., Pittsburg, U.S.A. Electrical distribution ..	11354	2 Feb.
Lamme, B. G., Pittsburg, U.S.A. Electrical distribution ..	11466	21 March.
Lamme, B. G., and another, Pittsburg, U.S.A. Regulation of electro-motive force ..	11468	21 March.
Lamme, B. G., Pittsburg, U.S.A. Utilisation and conversion of electric currents ..	11496	29 March.
Lamme, B. G., Pittsburg, U.S.A. Induction-motor ..	11531	14 April.
Lamme, B. G., Pittsburg, U.S.A. Converting energy of alternating electric currents into mechanical energy ..	11532	14 April.
Lamme, B. G., Pittsburg, U.S.A. Electrical distribution ..	11535	15 April.
Lamme, B. G., Pittsburg, U.S.A. Electrical distribution and regulation ..	11678	6 June.
Lamme, B. G., Pittsburg, U.S.A. Rotary transformers or synchronous motors ..	11696	8 June.
Lamme, B. G., Pittsburg, U.S.A. (See W. E. Hughes, Nos. 11832, 12010, 12020.)		
Lamme, B. G., and another, Pittsburg, U.S.A. (See J. P. Campbell, No. 12029.)		
Lamme, B. G., Pittsburg, U.S.A. (See J. P. Campbell, No. 12030.)		
Lane, C., and another, Michigan, U.S.A. (See S. W. Shaw, No. 11414.)		
Lane, J., and another, Michigan, U.S.A. (See S. W. Shaw, No. 11414.)		
Lanigan, P., Auckland, N.Z. Gold-dredging driving-gear ..	11870	5 Aug.
Lanston Monotype Machine Company, Washington, U.S.A. Type-casting and composing-machine. (J. S. Bancroft)	11815	20 July.
Lanston Monotype Machine Company, Washington, U.S.A. Preparing perforated record-strips of type-forming machines. (J. S. Bancroft and W. H. Wood)	11816	20 July.
Lanston Monotype Machine Company, Washington, U.S.A. Preparing record-strips of type-forming machines. (T. Lanston)	12124	27 Oct.
Lanston, T., Washington, U.S.A. (See Lanston Monotype Machine Company, No. 12124.)		
Lanwer, W., and another, Bremerhaven, Germany. Preserving perishable food ..	11900	18 Aug.
Larcomb, E., and another, Palmerston North, N.Z. Fire-escape ..	11303	11 Jan.
Larcomb, E., and another, Palmerston North, N.Z. Fire-escape ..	11475	23 March.
Latta, R., Dunedin, N.Z. Cycle parcel-rest and lamp-bracket ..	11787	13 July.
Lavender, G. W., Melbourne, Vic. Paper-holder and picture-frame ..	11481	30 March.
Lavery, A., Waipukurau, N.Z. Wire strainer ..	11407	27 Feb.
Lavery, A., and another, Waipukurau. Dropper for wire fencing ..	12116	24 Oct.
Lea, D., Masterton, N.Z. Candle extinguisher ..	11462	21 March.
Leather, J., Liverpool, Eng. Ventilating appliance ..	11321	18 Jan.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Lee, E., and another, London, Eng. Show-case	11295	9 Jan.
Lee, T. J., Inverell, N.S.W. Non-refillable bottle	11450	16 March.
Leech, G. J., Christchurch, N.Z. Flax-dressing	11751	27 June.
Lees, E. L., Auckland, N.Z. Window-fastener	11297	5 Jan.
Legge, A. M., and another, Auckland, N.Z. Attachment to meter to indicate leakage of gas	11540	14 April.
Legge, C., Wellington, N.Z. Cigarette-case	12077	13 Oct.
Lentz, D. H., Joliet, U.S.A. (See E. W. McKenna, Nos. 11459, 11460.)		
Leske, G., Berlin, Germany. Corrugating paper	11651	25 May.
Leslie, G. J. A., Auckland, N.Z. Window-fastener	11925	21 Aug.
Leslie, N. B., South Haven, Michigan, U.S.A. (See D. W. Aylworth, No. 11647.)		
Levinge, H. M., and another, Halcombe, N.Z. Ink	12033	30 Sept.
Levinge, Jessie, and another, Halcombe, N.Z. Ink	12032	30 Sept.
Lewin, Ross. (See under R.)		
Lewis, J., Greytown North, N.Z. Method of voting	11546	19 April.
Lewis, I. L., Hokitika, N.Z. Turbine for utilizing river currents, &c.	11720	29 May.
Lewis, I. L., Hokitika, N.Z. Raising water from rivers	11721	29 May.
Lewis, I. L., Hokitika, N.Z. Obtaining auriferous material from river-beds	11722	7 June.
Leyner, J. G., Denver, U.S.A. Rock-drilling engine	11773	6 July.
Linde, Von. (See under V.)		
Lindsey, G., Sydney, N.S.W. Propelling vessels	12264	28 Dec.
Lingard, W., Wellington, N.Z. Boot or shoe	11655	25 May.
Linley, J. A., and another, Sydney, N.S.W. Curing and preserving hides and skins	11280	4 Jan.
Linley, J. A., and another, Sydney, N.S.W. Rendering albumenoids of meat soluble	11811	20 July.
Linney, A. M., Bedworth, Eng. Air-tube for pneumatic tire	11694	8 June.
Linotype Company (Limited), The, London, Eng. Electrical melting-apparatus. (J. Place and M. Barr)	11359	*4 Feb. '98
Linotype Company (Limited), The, London, Eng. (See E. Waters, junr., Nos. 12027, 12141, 12142.)		
Little, D., and another, Auckland, N.Z. Marking rails, &c., for windows	11892	12 Aug.
Little, G. H., and another, Auckland, N.Z. Marking rails, &c., for windows	11892	12 Aug.
Lorden, F. L., and another, Wellington, N.Z. Tobacco-cutting machine	11908	21 Aug.
Loughrey, A., and others, Christchurch, N.Z. Apparatus for steeping grain	11783	13 July.
Lowden, J., Dunedin, N.Z. Coupling for railway vehicles	11778	5 July.
Lowry, G. A., Chicago, U.S.A. Compressing fibrous material	11951	4 Sept.
Lowry, G. A., Chicago, U.S.A. Making grass twine	11952	4 Sept.
Lui, Seligmann. (See under L.)		
Lusk, J. G., Hamilton, N.S.W. Window lock	11526	14 April.
Lyell, G., jun., and another, Gisborne, Vic. Testing milk	11738	21 June.
Lyon, H., and another, Glasgow, Scotland. Refrigerating apparatus	11800	17 July.
Lysaght, A. R., Sydney, N.S.W. Wire-netting machine	11499	30 March.
Macalister, J., Invercargill, N.Z. Subsoil attachment to plough	12181	15 Nov.
Macalister, J., Invercargill, N.Z. Harvesting machinery	11340	24 Jan.
Macalister, J., Invercargill, N.Z. Subsoil attachment to plough	11735	20 June.
Macalpine, T., and another, Chiswick, Eng. Production of acetylene compounds	11689	8 June.
Macdonnell, D. R., and another, Dunedin, N.Z. Velocipede driving-gear	11588	4 May.
Macdonnell, G. M. G., and another, Dunedin, N.Z. Velocipede driving-gear	11588	4 May.
Mackenzie, F. W., and another, Wellington, N.Z. Separating gold from sand, &c.	12104	20 Oct.
Mackie, W., and another, London, Eng. (See E. Waters, jun., No. 11766.)		
MacMillan, J., Balclutha, N.Z. Shearing-machine	11361	3 Feb.
Maconochie, A. W., London, Eng. Provision tin	12114	25 Oct.
Maconochie, A. W., and another, London, Eng. (See E. Waters, jun., No. 11766.)		
Macphail, J., Blue Island, U.S.A. (See W. E. Hughes, No. 12257.)		
Macpherson, A., and another, Wellington, N.Z. Cover for closet-seat	11291	6 Jan.
Macpherson, A., and another, Wellington, N.Z. Cover for closet-seat	11557	26 April.
Mactear, J., London, Eng. Obtainment of cyanogen compounds	12086	10 Oct.
Madan, C. S., and another, Manchester, Eng. (See the New Steam Stamp Mill Syndicate, No. 11415)		
Madden, A. J., Prahran, Vic. Electrical synchronising clocks	12224	7 Dec.
Madden, A. J., Prahran, Vic. Electrically controlled clock	11395	23 Feb.
Madden, D., Parkes, N.S.W. Eye ointment	11681	6 June.
Maddox, F. W., and another, Wellington, N.Z. Preparing and putting up colouring matters	11463	21 March.
Maertens, E., Providence, U.S.A. Cleaning wool	11993	15 Sept.
Mailer, M., and another, Carlton, Vic. Earth- or rock-drill	11685	6 June.
Maure, J. T., and another, Christchurch, N.Z. Belt fastener	11519	11 April.
Maine, W., jun., and another, Christchurch, N.Z. Belt fastener	11519	11 April.
Mainland, H. L., Burke's, Dunedin, N.Z. Animal-trap	12175	11 Nov.
Malcolm, H. F., Sydney, N.S.W. Mail-bag fastener	11673	6 June.
Mallett, J. P., and another, Pittsburg, U.S.A. (See J. P. Campbell, No. 12029)		
Malmstrom, P. E., and another, New York, U.S.A. Carbonating liquids	11434	9 March.
Maltman, A., Reefton, N.Z. Separator	11873	4 Aug.
Manchee, J. W., Sydney, N.S.W. Wire-fence dropper	11798	17 July.
Mander, J. H., Christchurch, N.Z. Vote-recording mechanism	11817	21 July.
Mann, W. E., South Yarra, Vic. Unicycle	11591	4 May.
Manning, R. W., Awatuna, N.Z. Hand sheep-shears	11781	11 July.
March, E., London, Eng. Registering and issuing checks at public pay-windows	11879	16 Feb.
Marchbank, J., Broadford, Vic. Automatically supplying liquids in predetermined quantities	11284	4 Jan.
Marconi, G., London, Eng. (See the Wireless Telegraph and Signal Company (Limited), Nos. 11550 and 11812.)		
Marconi, G., London, Eng. (See the Wireless Telegraph and Signal Company (Limited), No. 11812.)		
Marks, H. J., Toowoomba, Queensland. Railway-car coupling	12013	25 Sept.
Marles, H., and another, Brighton, Eng. Carving-machine	11558	26 April.
Marsden Company, The, Philadelphia, U.S.A. Material for packings. (M. W. Marsden)	11538	15 April.
Marsden, M. W., Philadelphia, U.S.A. (See the Marsden Company, No. 11538)		
Marsh, R. F., Maitland, N.S.W. Rotary motor	11981	13 Sept.
Martin, E., Wellington, N.Z. Artists' easel	11704	12 June.
Martin, T. E., Barmer, Norfolk, Eng. Seed-drill	11889	14 Aug.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued*.

Name, Residence, and Invention.	No.	Date.
Martino, F. W., and another, Sheffield, Eng. Treating ores ..	11486	28 March.
Martino, F. W., and another, Sheffield, Eng. Precipitation of gold ..	11556	26 April.
Mason, H. A., Wellington, N.Z. Chimney-cowl ..	11643	23 May.
Mason, H. A., Wellington, N.Z. Chimney-cowl ..	11657	26 May.
Mason, W. N. E., and another, Wellington, N.Z. Jug ..	12083	13 Oct.
Massey-Harris Co. (Limited), Toronto, Canada. Seeding-machine. (C. McLeod) ..	12113	25 Oct.
Massie, J. G., Belleville, U.S.A. Working and ventilating mines ..	11393	23 Feb.
Massie, J. G., Melbourne, Vic. Rotary punkah ..	12054	5 Oct.
Maunder, R. M., and another, Ashurst, N.Z. Clothes-horse ..	12221	5 Dec.
Maunder, W. S., and another, Ashurst, N.Z. Clothes-horse ..	12221	5 Dec.
Maxwell, E., Opunake, N.Z. Preventing sand, &c., accumulating in harbours ..	11956	4 Sept.
Maxwell, J. S., Auckland, N.Z. Silt punt. ..	11843	27 July.
Maxwell, J. S., Auckland, N.Z. Silt punt. ..	11844	27 July.
May, C., Dunedin, N.Z. Apparatus for detecting and extinguishing fire ..	11360	3 Feb.
McAllister, W. C., Linwood, N.Z. Plotting traverses by co-ordinates ..	11752	27 June.
McArtney, H., Nelson, N.Z. Water-heater ..	11935	26 Aug.
McAuslin, W., Ashburton, N.Z. Acetylene generator ..	11724	14 June.
McCulloch, J., Portreath, Cornwall, Eng. Pump ..	11581	3 May.
McCulloch, R., and another, Invercargill, N.Z. Rabbit-crate ..	11658	23 May.
McDonald, D., Epsom, Auckland, N.Z. Rivet ..	11726	14 June.
McDougall, J. W., Napier, N.Z. Spring clutch door-lock spindle ..	11913	16 Aug.
McDougall, J. W., Napier, N.Z. Fastening for door-handle ..	12148	6 Nov.
McFarlane, D., Invercargill, N.Z. Gold-separator ..	11756	27 June.
McGeorge, J. C., Dunedin, N.Z. Screen for gold-saving dredge ..	11886	16 Dec.
McGill, D., and another, Petone, N.Z. Refrigerating-machine ..	11392	23 Feb.
McGregor, E., Mangaonoho, N.Z. Wire-rope tramway ..	11665	29 May.
McGregor, E., Mangaonoho, N.Z. Planing-machinery ..	11753	29 June.
McGregor, E., Mangaonoho, N.Z. Box-making machinery ..	11785	12 July.
McGregor, E., Mangaonoho, N.Z. Cask-making machinery ..	11793	14 July.
McGregor, E., Mangaonoho, N.Z. Dredging-machinery ..	11898	16 Aug.
McGregor, R., Westport, N.Z. Dredge- and prospecting-pump ..	12028	9 Oct.
McGregor, T., and another, Gisborne, N.Z. Cover for milk-can ..	12140	1 Nov.
McIntyre, C., Wellington, N.Z. Tool for removing cycle-tyres ..	11357	2 Feb.
McIntyre, J., Onehunga, N.Z. Swingle-tree ..	12203	12 Dec.
McKail, L. A. M., Auburn, Vic. Sash-fastener ..	11819	17 July.
McKay, D., Rangiora, N.Z. Milk-strainer ..	11604	9 May.
McKay Shoe Machinery Company, Boston, U.S.A. Driving fastenings. (L. A. Casgrain) ..	12115	25 Oct.
McKay Shoe Machinery Company, Boston, U.S.A. Jack for nailing- and slugging-machine. (W. H. Cuff) ..	12162	10 Nov.
McKay Shoe Machinery Company, Boston, U.S.A. (See W. E. Hughes, No. 12225.)		
McKee, R. J., and another, Wellington, N.Z. Machine for inserting matches into boxes ..	11520	13 April.
McKenna, E. W., Milwaukee, U.S.A. Renewing old steel rails ..	11458	20 March.
McKenna, E. W., Milwaukee, U.S.A. Charging railway-rails into furnaces. (D. H. Lentz) ..	11459	20 March.
McKenna, E. W., Milwaukee, U.S.A. Sawing and straightening railway-rails. (D. H. Lentz) ..	11460	20 March.
McKenzie, Charlotte, Invercargill, N.Z. Hook-and-eye ..	12229	5 Dec.
McLay, W., and another, Wellington, N.Z. Machine for inserting matches into boxes ..	11520	13 April.
McLeod, A., and others, Auckland, N.Z. Key for locking timber-jack ..	11934	26 Aug.
McLeod, A., and others, Onehunga, N.Z. Key for locking timber-jack ..	11934	26 Aug.
McLeod, C., Martinborough, N.Z. Fencing-dropper ..	11986	13 Sept.
McLeod, C., Toronto, Canada. (See Massey-Harris Company (Limited), No. 12113)		
McLeod, C., Hawthorn, Vic. Seed and manure drill ..	11906	11 Jan.
McLeod, D. A., Gisborne, N.Z. Removing sand from river-beds, &c. ..	11859	2 Aug.
McLeod, Elizabeth, and others, Onehunga, N.Z. Key for locking timber-jack ..	11934	26 Aug.
McMillan, J. H., and others, Sydenham, N.Z. Cutter and perforator for printing machinery ..	11457	18 March.
McMullen, G., and another, Perth, W.A. Race game ..	11959	4 Sept.
McPhee, J. A., Dunedin, N.Z. Can-opener ..	12182	15 Nov.
McQueen, J., Invercargill, N.Z. Rabbit-crate ..	11375	10 Feb.
McRorie, D., Melbourne, Vic. Umbrella. (J. Husbands) ..	12235	13 Dec.
McVeigh, W. J., and another, Berry, N.S.W. Testing milk ..	11738	21 June.
Mence, L. W., and another, Wanganui, N.Z. Photographic camera ..	11441	13 March.
Menli, C., Eltham, N.Z. Horse-cover ..	11506	4 April.
Mentipley, W., Melbourne, Vic. Amalgamating and concentrating apparatus ..	11372	15 Feb.
Mergenthaler, O., Baltimore, U.S.A. (See E. Waters, jun., No. 12027.)		
Merrell-Soule Company, Syracuse, U.S.A. Vegetable powder. (W. B. Gere) ..	11487	28 March.
Mershon, R. D., New York, U.S.A. (See J. P. Campbell, No. 11919.)		
Metallurgische Gesellschaft, A. G., Frankfurt-on-Main, Germany. Magnetic separator. (J. P. Wetherill) ..	11311	12 Jan.
Metzger, J., Campbelltown, N.Z. Trouser protector ..	11885	11 Aug.
Metzger, J., and others, Campbelltown, N.Z. Rabbit-crate ..	11666	30 May.
Metzler, A. J., Sydney, N.S.W. Gelatinising of brewing grain ..	11988	13 Sept.
Millar, R., Dunedin, N.Z. Treadle mechanism ..	11501	27 March.
Millard, E. C., London, Eng. Belt ..	11350	1 Feb.
Miller, D., Auckland, N.Z. Ventilator ..	11804	12 July.
Miller, J., Balmain, N.S.W. Production of acetylene gas ..	12138	3 Nov.
Miller, J., Mosgiel, N.Z. Heating laundry-irons by gas ..	12100	14 Oct.
Miller, Jessie, Arrowtown, N.Z. Self-feeding stoker for steam boiler ..	12131	27 Oct.
Miller, Jessie, Arrowtown, N.Z. Bicycle-brake ..	12132	27 Oct.
Miller, R. C., and another, Invercargill, N.Z. Gold-prospecting implement ..	11968	6 Sept.
Milne, A., Marrickville, N.S.W. Preventing the sinking of a vessel ..	12265	28 Dec.
Miner, W., and others, Walsall, Eng. Saddle ..	11334	25 Jan.
Mitchell, F., and another, Ballarat, Vic. Cycle pedal and crank-head ..	11974	11 Sept.
Mitchell, D., Wellington, N.Z. Deck disengaging boat-gear ..	11320	18 Jan.
Mitchell, J., Auckland, N.Z. Producing lettering for banners, placards, &c. ..	11926	21 Aug.
Mitchell, W. L., Dunedin, N.Z. Bicycle pedal and toe-clip ..	11790	13 July.
Mollison, G. P., and another, Dunedin, N.Z. Dredge ..	12099	14 Oct.
Montin, De. (See under D.)		
Moore, D., Timaru, N.Z. Feed-run for sowing small seeds ..	11687	2 June.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Moran, J., Palmerston North, N.Z. Boot repairing last	11578	3 May.
Morgan, J. D. P., Pukeroro, N.Z. Converting refuse into charcoal	12068	6 Oct.
Moros, G., Dargaville, N.Z. Coupling-chain	11924	21 Aug.
Morran, J. M., Auckland, N.Z. Joining seams of mackintosh garments	11547	13 April.
Morris, C. C., Dunedin, N.Z. Adjusting and locking window-sashes	11401	23 Feb.
Morris, W., Christchurch, N.Z. Locking bicycle-wheels	11568	25 April.
Morrow, A., Auckland, N.Z. Fish-hook	11877	8 Aug.
Morrow, A., Auckland, N.Z. Segment and shrapnel shell	11946	31 Aug.
Morrow, R. B., and another, Auckland, N.Z. Cleaner for breech-block of rifles	12076	10 Oct.
Moss, R. J., Birmingham, Eng. Acetylene-gas generator	11333	25 Jan.
Mowlem, J., Masterton, N.Z. Wire-strainer	11998	20 Sept.
Mozart, H. S., Gawler, S.A. Kerosene-pump	11983	13 Sept.
Mumford, F. G., and another, Fitzroy. Hand-shield for cyclists	11590	4 May.
Munn, F. E., New York, U.S.A. Wire opening-device for envelopes, boxes, &c.	12159	10 Nov.
Munt, E., and another, Battersea, Eng. Pianoforte	12176	15 Nov.
Munt, W. G., and another, Battersea, Eng. Pianoforte	12176	15 Nov.
Murphy, J. T., Blenheim, N.Z. Harness	11910	22 Aug.
Murphy, P., Balmain, N.S.W. (See W. E. Hughes, No. 12049.)		
Murray, J. D., and another, Wellington, N.Z. Treating wool locks and dags	11642	23 May.
Murray, R. L. H., Wellington, N.Z. Coin-in-the-slot graphophone	11554	25 April.
Murray, T., and another, Wanganui, N.Z. Advertising apparatus	11625	12 May.
Murray, W. A., Auckland, N.Z. Gate	12154	3 Nov.
Nable, Esther, Parkes, N.S.W. Garment pocket	11985	13 Sept.
Neild, H. W., Kent, Eng. (See The Neild "Sleeve" Electric-joint Syndicate, Limited, No. 11679.)		
Neild "Sleeve" Electric-joint Syndicate (Limited), The, London, Eng. Joint for telegraph wire. (H. W. Neild.)	11679	6 June.
Nelson, A., Invercargill, N.Z. Apparatus for carrying rabbits in railway-vans	11636	16 May.
Nelson, W., Tomoana, N.Z. Cooling air for freezing purposes	11969	6 Sept.
Nernst, W., Gottingen, Germany. Electric incandescent lamp	11322	18 Jan.
Newson, C. M., Auckland, N.Z. Tell-tale and burglar alarm	11729	20 June.
New Steam Stamp-mill Syndicate, The, Salford, Eng. Steam Stamp-mill. (F. A. Parnell and C. S. Madan.)	11415	3 March.
Newton, J. E., Christchurch, N.Z. Preserving-retort	11601	8 May.
Nicholas, J., Blenheim, N.Z. Vehicle-brake	11960	4 Sept.
Nicholson, W., and another, Palmerston North, N.Z. Fire-escape	11303	11 Jan.
Nicholson, W., and another, Palmerston North, N.Z. Fire-escape	11475	23 March.
Nixon, Caroline, Linwood, N.Z. Closing an electric alarm-circuit in case of fire	11435	9 March.
Nolan, E. E., and another, Wilkinsburg, U.S.A. Securing core-plates in dynamo electric machinery	11659	29 May.
Norrell, W., and another, Wellington, N.Z. Treating wool locks and dags	11642	23 May.
North, H., Wellington, N.Z. Wire mattress	11996	18 Sept.
Norton, E., Maywood, U.S.A. Hermetically sealing sheet-metal cans	11417	3 March.
Norton, J. T., Lyttelton, N.Z. Egg-preservative	12125	24 Oct.
Nuttall, W. T., Dannevirke, N.Z. Non-refillable bottle	11879	11 Aug.
Oakley, H., and another, Christchurch, N.Z. Acetylene-gas generator	11881	9 Aug.
Oakley, H., and another, Christchurch, N.Z. Water-closet flushing-cistern	12234	12 Dec.
Oatway, G. H., and another, Dunedin, N.Z. Dredge tumbler	11339	25 Jan.
O'Brien, C. L., Lyttelton, N.Z. Raising water	12167	11 Nov.
O'Donovan, R., Puniho, Taranaki, N.Z. Fire-escape	11316	12 Jan.
Okey, F. W., New Plymouth, N.Z. Apparatus for heating milk	11754	19 June.
Olsen, F. J., and another, Invercargill, N.Z. Purifying water	12245	15 Dec.
Ostberg, J., St. Kilda, Vic. Rubber repairing compound	11954	4 Sept.
Ostenso, O., Wellington, N.Z. (See E. S. Baldwin, No. 11580.)		
Ostergren, O. P., and another, New York, U.S.A. (See The General Liquid Air and Refrigerating Company, No. 11424.)		
O'Toole, W. B., Invercargill, N.Z. Bench-grip	11949	31 Aug.
Oxyliquit Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Explosive. (C. Von Linde)	11802	17 July.
Paaske, J., Carterton, N.Z. Bicycle driving-gear	11713	14 June.
Page, C. E., Linwood, N.Z. Step-ladder and shelf	11429	6 March.
Page, C. E., Linwood, N.Z. Hanging window-sashes	11640	20 May.
Page, W., Cross Creek, N.Z. Strainer and repairer for wire fence	11912	19 Aug.
Page, W. L., and another, Dunedin, N.Z. Dredge	12099	14 Oct.
Palmer, A. C., Euroa, Vic. Removing and replacing tyres on wheel-rims	12080	13 Oct.
Paltridge, C. C., Malvern, S.A. Rendering paper fit for receiving press-copy impressions	12048	4 Oct.
Parish, E. W., London, Eng. Steam apparatus for cooking, &c.	12087	14 Oct.
Park, A. J., Dunedin, N.Z. Gold-saving apparatus	11894	15 Aug.
Park, H., Sydney, N.S.W. Gold dredge	11746	26 June.
Park, J., and another, Moanataiari, N.Z. Prevention of freezing in pumps	12063	7 Oct.
Park, J. A., and another, Dunedin, N.Z. Sifting-screen	11840	31 July.
Park, J. R., Dunedin, N.Z. Gold-saving apparatus	12267	29 Dec.
Parker, D., Chiltern, Vic. Gold separating and amalgamating machine	11479	23 March.
Parker, J., Napier, N.Z. Mixture for killing weeds	12205	28 Nov.
Parnell, F. A., and another, London, Eng. (See The New Steam Stamp-mill Syndicate No. 11415.)		
Parsons, F. W., and another, Wanganui, N.Z. Cycle-frame	11987	13 Sept.
Patchett, J., and another, Blenheim, N.Z. Folding-ladder for fire-escape purposes	11402	24 Feb.
Patchett, T., and another, Blenheim, N.Z. Folding-ladder for fire-escape purposes	11402	24 Feb.
Patching, T. H., Strathfield, N.S.W. Railway-carriage coupling	11732	22 June.
Patching, T. H., and another, Sydney, N.S.W. Coupling for air-brakes	11845	1 Aug.
Payne, A. E. H., London, Eng. Ready reckoner	12133	30 Oct.
Payne, E. E. M., and others, Aylesbury, Eng. Liming furs, skins, &c.	11878	16 Feb.
Payne, F. W., Dunedin, N.Z. Elevator tray for dredge	11777	5 July.
Payne, F. W., Dunedin, N.Z. Separating magnetic sand from gold-wash	12232	11 Dec.
Payne, F. W., Dunedin, N.Z. Dredging appliance	11788	11 July.
Payne, R., Dunedin, N.Z. Gold-saving table	12218	30 Nov.
Pearse, J. J., Perth, W.A. Grid or broiler	12008	22 Sept.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued*.

Name, Residence, and Invention.	No.	Date.
Pearson, G. A., Wellington, N.Z. Hand-signalling lamp	11670	5 June.
Pease, E. L., Stockton-on-Tees, Eng. Roof	11692	8 June.
Pedersen, O., Marton, N.Z. Gold-saving apparatus	12106	21 Oct.
Pedersen, W. G., and others, Hellerup, Denmark. Cigarette-machine ..	12184	7 Nov.
Pender, J., Brunswick, Vic. Motor-vehicle	11703	12 June.
Penney, W. S., and another, London, Eng. Vehicle-brake	12120	27 Oct.
Perkins, R., and another, Ucoita, S.A. Elevator for loading wheat, &c... ..	12228	7 Dec.
Perkins, T. S., Idlewood, U.S.A. Starting mechanism for electric motor ..	11691	8 June.
Petersson, E., Brussels, Belgium. Treating ores	11324	20 Jan.
Pfleiderer, P., West Norwood, Eng. Refrigerating apparatus. (W. W. Harris.) ..	11905	18 Aug.
Pickford, J. S., and another, Upper Holloway, Eng. Show-case	11295	9 Jan.
Pilkington, A. W., and another, Auckland, N.Z. Window-sash spring suspender ..	11332	18 Jan.
Pinches, W., and another, Wanganui, N.Z. Advertising apparatus	11625	12 May.
Place, J., and another, Broadheath, Eng. (See The Linotype Company (Limited), No. 11359.)		
Plano Manufacturing Company, Chicago, U.S.A. (See W. E. Hughes, No. 12257.)		
Plummer, G. W., Auckland, N.Z. Bleaching and cleaning flax	11712	9 June.
Plummer, J. H., and another, Toronto, Canada. Drill for boring	11708	12 June.
Plummer, Kate, Gisborne, N.Z. (See R. C. Kerr, No. 11733.)		
Pointon, C. E., and another, Wellington, Eng. Machine for dividing dough ..	11611	11 May.
Pointon, J. E., and another, Wellington, Eng. Machine for dividing dough ..	11611	11 May.
Pomeroy, J. H., Invercargill, N.Z. Crate	11572	27 April.
Poppelwell, W., Nevis, N.Z. Pick attachment for dredge tumblers	12201	23 Nov.
Potter, A., Auckland, N.Z. Mustard-cup	11942	29 Aug.
Potter, C. J., Newcastle-on-Tyne, Eng. (See G. S. Potter, No. 11984.)		
Potter, G. S., St. Kilda, Vic. Manufacture of cement. (C. J. Potter)	11984	13 Sept.
Potts, W. E., Dunedin, N.Z. Convertible frame for utilising tins	11780	6 July.
Poulsen, V., Copenhagen, Denmark. Phonographic record	12255	21 Dec.
Preiss Electric Storage Syndicate (Limited), The, Adelaide, S.A. Secondary battery. (A. Preiss.)	11474	22 March.
Preiss, A., Norwood, S.A. (See The Preiss Electric Storage Syndicate (Limited), No. 11474.)		
Price, A., Sydney, N.S.W. Boiler-cleaner	11624	13 May.
Price, W. H., Sydenham, N.Z. Spray-nozzle	11476	21 March.
Pritchett, P. H., Little River, Canterbury, N.Z. Cycle driving-mechanism	12233	11 Dec.
Pullen, A. R., Sydney, N.S.W. Rail butt-joints and fishplate fastenings ..	12266	28 Dec.
Pullman, E. E., and others, London, Eng. Liming furs, skins, &c.	11378	16 Feb.
Pullman, J., and others, London, Eng. Liming furs, skins, &c.	11378	16 Feb.
Quinby, W. C., Alameda, U.S.A. (See T. H. Kelly, G. W. Bell, and R. N. Kirk, No. 11413.)		
Ramage, J., Balclutha, N.Z. Water-tap	11539	17 April.
Ramsay, W. E., St. Albans, N.Z. Sash-weight	11966	6 Sept.
Ramsey, H., Eltham, N.Z. Cooking apparatus	11635	19 May.
Ramson, M., New Plymouth, N.Z. Horse-cover	11727	20 June.
Ranald, J., London, Eng. Extracting metals	11904	18 Aug.
Rand, C. A., and another, Chicago, U.S.A. (See Deering Harvester Company, No. 11529.)		
Ranger, H. J., Christchurch, N.Z. Road-cleaning machinery	11661	29 May.
Raper, A. E., and others, Ophir, Otago, N.Z. Rabbit-trap	11937	25 Jan.
Raper, F., jun., and another, Dunedin, N.Z. Rabbit-trap	12109	20 Oct.
Raper, F., jun., and others, Ophir, Otago, N.Z. Rabbit-trap	11937	25 Jan.
Raper, F., sen., and another, Dunedin, N.Z. Rabbit-trap	12109	20 Oct.
Raper, F., sen., and others, Ophir, Otago, N.Z. Rabbit-trap	11937	25 Jan.
Rapson, J., Kakanui, N.Z. Wire-strainer, cutter, and key combined	11967	5 Sept.
Rathbone, F., and others, Wallsall, Eng. Saddle	11934	25 Jan.
Rawnsley, E. G., Christchurch, N.Z. Manure- and seed-sower	11972	8 Sept.
Raymond, F. V., Invercargill, N.Z. Envelope	11315	10 Jan.
Rayward, A. L., and another, Auckland, N.Z. Mud-guard for vehicle	11288	4 Jan.
Rayward, T. N., and another, Auckland, N.Z. Mud-guard for vehicle	11288	4 Jan.
Reach, W., Auckland, N.Z. Device for weaning calves	12016	22 Sept.
Rees, J., and another, Carlton, Vic. Fan and motor therefor	11584	3 May.
Reid, D., Melbourne, Vic. Stereo- and electro plates	11545	18 April.
Reid, R. S., Timaru, N.Z. Automatic car-coupling	11521	13 April.
Reid, R. S., Timaru, N.Z. Automatic car-coupling	11796	15 July.
Renner, G., and another, Kaikoura, N.Z. Marking sheep, &c. (See A. Tindill, No. 11874.)	11574	2 May.
Revolving Heel Company, The, Burnley, Eng. (See A. Tindill, No. 11874.)		
Reynolds, E. C., and another, Dunedin, N.Z. Sifting-screen	11840	31 July.
Reynolds, L. H., and another, Dunedin, N.Z. Dredge tumbler	11939	25 Jan.
Rich, F. A., Karangahake, N.Z. Cycle-driving and controlling gear	12065	5 Oct.
Richards, A., Auckland, N.Z. Wire and spring suspension-bottom for couches, &c. ..	11502	28 March.
Richards, G., Auckland, N.Z. Woven-wire cots, bedsteads, &c.	11575	27 April.
Richards, J. H., and another, Adelaide, S.A. Amalgamator	11947	1 Feb.
Richardson, E., Moonee Ponds, Vic. Locomotive engine fire-bars, &c.	12214	1 Dec.
Richardson, E., Moonee Ponds, Vic. Fittings for stationary and marine boilers ..	12227	7 Dec.
Richardson, E., jun., Albury, Canterbury, N.Z. Rifle	11828	25 July.
Richmond, C. M., New York, U.S.A. (See Richmond Gold and Silver Cigarette Company, No. 12193.)		
Richmond Gold and Silver Cigarette Company, New York, U.S.A. Cigarette-wrapper. (C. M. Richmond)	12193	23 Nov.
Ridland, A. F., Dunedin, N.Z. Obtaining auriferous material from river-beds ..	11714	14 June.
Riley, E., jun., Flinders, Vic. Machine for cutting fern and scrub	11676	6 June.
Ritchie, A. B., Corowa, N.S.W. Generating and storing acetylene	12046	4 Oct.
Roberts, E., Dunedin, N.Z. Dredging-ladder	11779	6 July.
Roberts, E., Dunedin, N.Z. Elevator-bucket for dredges	11782	7 July.
Roberts, E., Dunedin, N.Z. Wheel elevator for dredge	12202	23 Nov.
Roberts, H., Auckland, N.Z. Dust- and insect-screen for windows	11857	1 Oct.
Roberts, H., Auckland, N.Z. Window-sashes and lights	12085	9 Oct.
Roberts, H., Auckland, N.Z. Rein-holder	12197	21 Nov.
Robertson, A. E., Motueka, N.Z. Pole and stump-jack	11852	2 Feb.
Robertson, J., and another, Halcombe, N.Z. Moistening adhesive surfaces	11477	23 March.
Robins, A., and another, Auckland, N.Z. Utilizing kauri-gum deposits	11469	18 March.
Robins, A., and another, Auckland, N.Z. Lubricating-oil	11470	18 March.
Robinson, J., Christchurch, N.Z. Horse-cover	11767	3 July.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued.*

Name, Residence, and Invention.	No.	Date.
Rodgers, J. G., Springfield, U.S.A. Manufacture of rubber tires	12128	28 Oct.
Roeback, W. J., Dunedin, N.Z. Gold-saving screen	11596	5 May.
Rogers, G. T., and another, Sydney, N.S.W. Metal-sheet moulding machine	11614	12 May.
Roseman, S. G., Wellington, N.Z. Brush	11579	3 May.
Rosenberg, C. O., Wellington, N.Z. Subdivider for use of artists	12017	27 Sept.
Ross, A., and another, Invercargill, N.Z. Flax heckling-machine	11619	9 May.
Ross, E. S., Hobart, Tasmania. Umbrella	11586	4 May.
Ross, G., Dunedin, N.Z. Boots	11544	18 April.
Ross, W., and another, Invercargill, N.Z. Flax heckling-machine	11619	9 May.
Ross-Lewin, G. E., and others, Denver, U.S.A. Rock-drill	12122	27 Oct.
Roth, J. J., Sydney, N.S.W. Soap-cake and advertising-tablet	12177	15 Nov.
Rowe, G. R., and another, Auckland, N.Z. Billiard-table	11835	25 Jan.
Rowe, N., Wilkesburg, U.S.A. Regulation of electro-motive force	11690	8 June.
Rudd, E. W., Melbourne, Vic. Gear and motor for self-propelled vehicle. (W. Baines)	12252	21 Dec.
Ruping, E., and another, Bremerhaven, Germany. Preserving perishable food	11900	18 Aug.
Rust, A. M., Whangarei Heads, N.Z. Controlling marine-engines	12067	6 Oct.
Rund, E., and another, Chicago, U.S.A. (See E. Waters, jun., No. 12002.)		
Salomon, M., Aldenhoven, Germany. (See W. E. Hughes, No. 11834.)		
Saltmarsh, H. A., Brisbane, Queensland. River-bed mining apparatus	11498	30 March.
Salzenberg, E., Orefeld, Germany. (See Kugellicht Gesellschaft, No. 11559.)		
Sanders, R. D., Eastbourne, Eng. Manufacture of wire	11813	20 July.
Sandford, W., and others, Lithgow, N.S.W. Rail-joint	11867	10 Feb.
Sandlant, T., Gisborne, N.Z. Propeller	11876	3 Aug.
Sandow, E., London, Eng. Dumb-bell	12256	21 Dec.
Sankey, H., and another, Auckland, N.Z. Treating flax	11408	27 Feb.
Sankey, H., and another, Auckland, N.Z. Extracting oil from vegetable substances	11445	15 March.
Sankey, H., and another, Auckland, N.Z. Treating flax	12165	11 Nov.
Saunders, A., London, Eng. (See F. C. Saunders, No. 11958.)		
Saunders, F. C., St. Kilda, Vic. Framing or support for bottles, &c. (A. Saunders)	11958	4 Sept.
Savage, A. E., Cockle Creek, N.S.W. Treating zinc-bearing ores	12069	9 Oct.
Schadick, J. F. W. H., Westport, N.Z. Nut and washer	11862	12 Jan.
Schadick, J. F. W. H., and another, Westport, N.Z. Quicksilver-injector	12146	2 Nov.
Schadick, J. F. W. H., and another, Westport, N.Z. Gold-saving block	12147	2 Nov.
Schilz, E., Johannesburg, S.A. Republic. Treating ores	12098	18 Oct.
Schlaadt, H., Dunedin, N.Z. Fencing-standard	11430	3 March.
Schlaadt, J. A., and another, Dunedin, N.Z. Prospecting apparatus	12230	6 Dec.
Schmidt, A. P., and another, Invercargill, N.Z. Rabbit-crate	11490	24 March.
Schmidt, A. P., and another, Invercargill, N.Z. Rabbit-crate	11563	22 April.
Schmoll, E., and another, Christchurch, N.Z. Boot or shoe	11317	14 Jan.
Schmoll, L., and another, Christchurch, N.Z. Boot or shoe	11317	14 Jan.
Schmucker, A. P., and others, Denver, U.S.A. Rock-drill	12122	27 Oct.
Schnée, C. E., Karlsbad, Austria. Electric-bath apparatus	11922	24 Aug.
Schneider, Henrietta, Christchurch, N.Z. Corset	11639	20 May.
Scott, C. F., Pittsburg, U.S.A. Electrical distribution	11533	15 April.
Scott, C. F., Pittsburg, U.S.A. Electrical distribution	11615	12 May.
Scott, C. F., and another, Pittsburg, U.S.A. Regulation of electro-motive force	11468	21 March.
Scott, C. F., and others, Pittsburg, U.S.A. Switch for electric circuit	11530	14 April.
Scott, H. A., Christchurch, N.Z. Sinking post-holes	11400	22 Feb.
Sears, J. J., Sydney, N.S.W. Weighing- and computing-scale	11589	4 May.
Seaton, D. M., San Francisco, U.S.A. Loom	12121	27 Oct.
Secor, J. A., New York, U.S.A. Marine propulsion	12024	3 Oct.
Sebillot, A. M. G., Paris, France. Dressing zinc ores	12137	3 Nov.
Sedcole, H., Wellington, N.Z. Wool press	11381	16 Feb.
Seffer, J., Queenstown, N.Z. Bicycle tire-protector	11405	11 March.
Seligmann-Lui, G., Paris, France. (See The Automatic Telephone Company (Limited), No. 11698.)		
Sell, A., Ellimint, Vic. (See L. M. Calvert, No. 11305.)		
Seymour, E., Chicago, U.S.A. Rotary engine	11571	28 April.
Shadgett, Eliza, Petone, N.Z. Draft-increaser for fireplace	11971	9 Sept.
Shale, T., Dunedin, N.Z. Dredging machinery	11957	4 Sept.
Shale, T., Dunedin, N.Z. Dredge	11976	12 Sept.
Shale, T., Dunedin, N.Z. Pasteurising and cooling milk	12051	2 Oct.
Shallenberger, M. W., and another, Rochester, U.S.A. (See W. E. Hughes, No. 11356.)		
Shaw, E., London, Eng. Manufacture of sweetmeats	12270	30 Dec.
Shaw, S. W., New Plymouth, N.Z. Fence. (J. and C. Lane)	11414	3 March.
Shaw, W. E., Sydney, N.S.W. Lid or cover for vessels	12092	16 Oct.
Shears, B., Geraldine, N.Z. Disc-arrow	11882	10 Aug.
Shepherd, J., Invercargill, N.Z. Timber-measurer	12217	30 Nov.
Shepherd, J., Invercargill, N.Z. Bullet-resisting garment	11893	15 Aug.
Shore, W. A., Dunedin, N.Z. Gold-saving mat	11616	12 May.
Shore, W. A., and another, Dunedin, N.Z. Gold-saving apparatus	11768	5 July.
Shorland, J. O., and another, Wellington, N.Z. Water-heating apparatus	11827	25 July.
Shorland, J. O., and another, Wellington, N.Z. Water-heating apparatus	11626	16 May.
Short, H. L., New Malden, Eng. Increasing sound from telephonic instrument	11680	6 June.
Siemsglüss, G., and another, Walsrode, Germany. Milking-machine	11438	11 March.
Siemsglüss, G., and another, Walsrode, Germany. Process and apparatus for milking	11439	11 March.
Silcocks, E., and others, Sydney, N.S.W. Rail-joint	11367	10 Feb.
Silley, J. H., and another, Sydney, N.S.W. Shearing-machine	11451	16 March.
Simon, J., and another, Dunedin, N.Z. Boot or shoe	12026	28 Sept.
Simon, J. P., and another, Dunedin, N.Z. Boot or shoe	12026	28 Sept.
Simultaneous Colour-printing Syndicate (Limited), The, and another, London, Eng. Poly-chrome printing-machine	11461	20 March.
Sinclair, A., Patea, N.Z. Cask-stave jointing machine	11997	19 Jan. '00.
Singer, I., and another, Petone, N.Z. Preparing and putting up colouring matters	11463	21 March.
Skeates, T. S., Auckland, N.Z. Horse- or cow-cover	11573	28 April.
Small, J., Port Chalmers, N.Z. Prospector and gold-saver	12198	21 Nov.
Smale, R. H., and others, Blenheim, N.Z. Dressing flax	11592	3 May.
Smart, W., and others, Linwood, N.Z. Cutter and perforator for printing-machinery	11457	18 March.
Smethurst, E., Christchurch, N.Z. Securing fencing-wires	11447	14 March.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Smethurst, E., Christchurch, N.Z. Regulating the heat of cooking-ovens	12223	4 Dec.
Smith, Brooke-. (See under B.)		
Smith, A., Dannevirke, N.Z. Cleaning sheep-dags	12269	29 Dec.
Smith, A., Wakatipu, N.Z. Damming rivers for gold-mining	11739	12 July.
Smith, A. L., and another, Morningson, N.Z. Feed for seed-drills	11940	31 Aug.
Smith, H., and others, Linwood, N.Z. Cutter and perforator for printing-machinery ..	11457	18 March.
Smith, I., Nottingham, Eng. Meter, motor, or pump	12191	23 Nov.
Smith, I., Nottingham, Eng. Meter, motor, or pump	11706	12 June.
Smith, J., Salt Lake City, U.S.A. Treating ores	12163	10 Nov.
Smith, R. S., and another, Wellington, N.Z. Separating gold from sand, &c. ..	12104	20 Oct.
Smith, T., Tamworth, N.S.W. Bridle	11872	9 Aug.
Somes, H. A., Sydney, N.S.W. Manufacture of fertilisers from blood	11629	18 May.
Somes, H. A., Sydney, N.S.W. Manufacture of fertilisers from digester soup ..	11630	18 May.
Somes, H. A., Sydney, N.S.W. Meat extract	11631	18 May.
Sommer, A., Cambridge, U.S.A. Solutions of carbamides in oils, &c. ..	12155	8 Nov.
Soper, W. F., and another, Christchurch, N.Z. Ash-pan and cinder-sieve ..	11789	12 July.
Soule, Merrell. (See under M.)		
Sparrow, F., and another, Fitzroy, Vic. Hand-shield for cyclists	11590	4 May.
Spear, T., Gore, N.Z. Gold-saving apparatus	12018	27 Sept.
Speight, J., Kirwee, N.Z. Steam tubular motor	11784	12 July.
Stahlecker, C., Sydney, N.S.W. Attachment to clock for recording events	11978	13 Sept.
Stamm, W., London, Eng. Ball grinding-mill. (H. L. Sulman)	11650	25 May.
Standfield, E. R., Melbourne, Vic. Dish-cover	11836	27 July.
Stanley, F. E., and another, Newton, U.S.A. (See A. L. Barber, No. 11862.) ..		
Stanley, F. O., and another, Newton, U.S.A. (See A. L. Barber, No. 11862.) ..		
Stanley, J. C. W., and others, London, Eng. Extracting oil	11416	3 March.
Stenson, W. H., Oamaru, N.Z. Lifting-jack	11482	22 Mar.
Steiger, J., London, Eng. Manufacture of cement	12178	15 Nov.
Stenhouse, A., and another, Broken Hill, N.S.W. Valve operating apparatus ..	11896	15 Aug.
Stephenson, J. F., Glenferrie, Vic. Supporting frame of bedstead	11705	12 June.
Stephenson, P., Greymouth, N.Z. Fire-escape	11485	27 Mar.
Sterne, A. J., New York, U.S.A. Igniting device for gas-burner	11765	3 July.
Stevens, A., and another, London, Eng. Vehicle-brake	12120	27 Oct.
Stevens, E., Melbourne, Vic. Fire-shutter or -screen	11863	5 Aug.
Stevens, R., Christchurch, N.Z. Preventing person's foot from becoming wedged in railway-points	11428	7 Mar.
Stevens, W. J., Christchurch, N.Z. Opening and closing doors of cabs, &c. ..	11918	21 Aug.
Stevenson, G., Dunedin, N.Z. Steam-engine	11672	5 June.
Stevenson, J. T. W., and another, Auckland, N.Z. Brickmaking-machine	12039	2 Oct.
Stevenson, T., Dunedin, N.Z. Centrifugal pump	11761	30 June.
Stevenson, W., Dunedin, N.Z. Rabbit-crate	11484	27 Mar.
Steward, J. F., and another, Chicago, U.S.A. (See Deering Harvester Company, No. 11529.)		
Stewart, R. T., Waikaiti, Otago, N.Z. Cycle	11289	6 Jan.
St. George, R., Otahuhu, N.Z. Plough	12136	30 Oct.
Stirling Boiler Company (Limited), and another, Edinburgh, Scotland. Water tube boiler	12239	14 Dec.
Stock, W., and another, Hastings, N.Z. Cooling malt liquors	12126	26 Oct.
Stonyer, J. W., Linwood, N.Z. Seed-feeder for agricultural drill	12050	2 Oct.
Stonyer, J. W., Linwood, N.Z. Seed-feeder for agricultural drill	12101	16 Oct.
Storrie, A., Invercargill, N.Z. Seed-sower and cultivator	11411	28 Feb.
Storrie, A., Invercargill, N.Z. Seed-sower	11933	26 Aug.
Story, J. W., and another, Melbourne, Vic. Rabbit-crate	11855	3 Aug.
Strawbridge, H., Waihakeke, N.Z. Blight exterminator	12075	12 Oct.
Stuart, D., Auckland, N.Z. Knife-cleaner	12207	28 Nov.
Stubbs, F., and another, Sheffield, Eng. Treating ores	11486	28 Mar.
Stubbs, F., and another, Sheffield, Eng. Precipitation of gold	11556	26 April.
Stumpf, J., Berlin, Germany. (See Fraser and Chalmers, Limited, No. 12119.) ..		
Sulman, H. L., London, Eng. Obtaining gold from its ores	11394	23 Feb.
Sulman, H. L., London, Eng. (See W. Stamm, No. 11650.)		
Sutton, H. A. C., Flemington, Vic. Upholstered chair-seat	11446	15 Mar.
Swann, J., and another, Brim, Vic. Elevator for loading bags of wheat, &c. ..	12228	7 Dec.
Sweet, L. D., and others, Denver, U.S.A. Rock-drill	12122	27 Oct.
Symes, H., Dunedin, N.Z. Gold-saving apparatus	11769	5 July.
Symington, J., Glasgow, Scotland. Pumping- and winding machinery	11358	2 Feb.
Tait, A. L. J., Dunedin, N.Z. Dressing fibre	11422	2 Mar.
Tait, A. L. J., Dunedin, N.Z. Pot-cleaning instrument	12183	16 Nov.
Talbot-Crosbie, J. B., and another, Renfrew, Scotland. Refrigerating apparatus	11800	17 July.
Tandy, C., Wellington, N.Z. Horse-shoe	12180	16 Nov.
Tannett-Walker, F. W., and another, Leeds, Eng. Refrigerating-machine	11392	23 Feb.
Taylor, A., Orepuki, N.Z. Tin-opener	11937	21 Aug.
Taylor, F. C., New York, U.S.A. Printing in several colours at one impression ..	11975	7 Sept.
Taylor, J., Dunedin, N.Z. Rabbit-crate	11543	18 April.
Taylor, J. M., and another, Christchurch, N.Z. Acetylene-gas generator	11881	9 Aug.
Taylor, J. M., and another, Christchurch, N.Z. Water-closet flushing-cistern ..	12234	12 Dec.
Taylor, T. L., Melbourne, Vic. Advertisement display	11710	12 June.
Temperley, J., Marton, N.Z. Strapping horse or cow-covers	11776	8 July.
Terry, C. A., and others, New York, U.S.A. Electric railway	11536	15 April.
Tevlev, T., Kisslovodsk, Russia. Explosive	11718	16 June.
Theilgaard, A. E. J. V. J., Copenhagen, Denmark. Disulcanising indiarubber ..	11707	12 June.
Thomas, A. C., and another, Liverpool, Eng. Suspender for billiard-chalks	11455	16 March.
Thomas, E., Auckland, N.Z. Stopping growth of marketable onions	12244	15 Dec.
Thomas, E. W., and another, Sydney, N.S.W. Recovering gold from metallurgical fumes	12215	1 Dec.
Thomas, E. W., and another, Sydney, N.S.W. Recovering gold from metallurgical fumes	12216	1 Dec.
Thomas, J., London, Eng. Saddle-clip for cycle	12200	21 Nov.
Thompson, T., and another, Invercargill, N.Z. Rabbit-crate	11658	23 May.
Thomson, G. L., Auckland, N.Z. Covering for grain-stacks, &c.	11510	5 April.
Thomson, J., Invercargill, N.Z. Lifting gold from rocky bottoms	12222	2 Dec.
Thomson, J. R., and another, Sydney, N.S.W. Propelling bicycles	11852	3 Aug.
Thomson, W., and another, Christchurch, N.Z. Furnace-boiler for baker's oven ..	11970	7 Sept.
Thornley, W., and others, Marrickville, N.S.W. Rail-joint	11367	10 Feb.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—*continued.*

Name, Residence, and Invention.	No.	Date.
Thowless, O. M., Newark, U.S.A. (See H. E. Howland, No. 11527.)		
Thurnauer, L., Melbourne, Vic. Acetylene generator. (M. Graetz)	11612	11 May.
Tilburn, C., Dunedin, N.Z. Dredge	11995	18 Sept.
Timmis, I. A., London, Eng. Manufacture of food	11888	14 Aug.
Tindal, H., Amsterdam, Netherlands. Production of ozone	12071	9 Oct.
Tindal, H., Amsterdam, Netherlands. Sterilising liquids by ozone	12072	9 Oct.
Tindill, A., Wellington, N.Z. Boot heel. (The Revolving Heel Company; G. Wood)	11874	10 Aug.
Tingley, E. M. and another, Pittsburg, U.S.A. (See W. E. Hughes, No. 11356.)		
Tissington, G. E., and another, Sydney, N.S.W. Propelling bicycles	11852	8 Aug.
Todd, C., Heriot, N.Z. Recovering gold	12209	28 Nov.
Toft, E., and another, London, Eng. Sporting gloves	12237	14 Dec.
Tomline, R., and another, Christchurch, N.Z. Wool-press	12168	11 Nov.
Tomline, R., and another, Christchurch, N.Z. Seed-cleaning machinery	12103	18 Oct.
Tomline, R., and another, Christchurch, N.Z. Plough	12037	29 Sept.
Tomline, R., and another, Christchurch, N.Z. Sheet-metal shears	12097	16 Oct.
Tomline, R., and another, Christchurch, N.Z. Cycle toe-clip	12102	18 Oct.
Tomline, R., and others, Christchurch, N.Z. Apparatus for steeping grain	11783	13 July.
Toogood, W., Featherston, N.Z. Stripper for flax-dressing	11363	10 Feb.
Torr, J. A., Opotiki, N.Z. Washing and scouring liquid	11737	21 June.
Torrans, J., Auckland, N.Z. Fire-escape	11899	14 Aug.
Torrans, J., Auckland, N.Z. Button and pin	12060	3 Oct.
Torrans, J., Auckland, N.Z. Spittoon	12061	3 Oct.
Travis, W. H., Christchurch, N.Z. Horse-cover fastenings	11442	2 March.
Treadwell, A., Wellington, N.Z. Type-engraving process	11775	7 July.
Tremain, W., Auckland, N.Z. Safety draught-hook	12260	27 Dec.
Trengrove, W. H., Christchurch, N.Z. Gear-wheel	11774	5 July.
Trevaskis, W. P., and another, Benalla, Vic. Butter-box	11404	27 Feb.
Trevethick, J., and another, Auckland, N.Z. Billiard-table	11335	25 Jan.
Trevor, R. C., Christchurch, N.Z. Utilization of indiarubber	11351	31 Jan.
Trollope, H. C., and another, Wellington, N.Z. Tobacco-cutting machine	11908	21 Aug.
Trudgeon, W. T., Auckland, N.Z. Rein-holder	12096	16 Oct.
Turnbull, W., Wellington, N.Z. Drawing off fixed quantities of liquids	11386	18 Feb.
Turner, W. M., Toowoomba, Queensland. Horse-race starting-machine	11319	18 Jan.
Türr, R., Paris, France. (See Türr's Acetylene Gas Syndicate, Limited, Nos. 11396, 11397.)		
Turri, G. G., Melbourne, Vic. Printing-surface. (The American Lithographic Company; E. Hett)	12186	21 Nov.
Turri, G. G., Melbourne, Vic. Printing mechanism. (The American Lithographic Company; E. Hett)	12187	21 Nov.
Turri, G. G., Melbourne, Vic. Trunk or case. (M. Glover)	11511	6 April.
Turri, G. G., Melbourne, Vic. Transferring and printing mechanism. (The American Lithographic Company; E. Hett)	12185	21 Nov.
Türr's Acetylene Gas Syndicate (Limited), London, Eng. Acetylene-gas burner. (R. Türr)	11397	23 Feb.
Türr's Acetylene Gas Syndicate (Limited), London, Eng. Production and combustion of acetylene gas. (R. Türr.)	11396	23 Feb.
Tyree, W., Sydney, N.S.W. Acetylene-gas generator	11846	1 Aug.
Tyson, J., Rongahere, N.Z. Gold-saving and cloth-washing machine	11638	22 May.
Tzamis, A., Sydney, N.S.W. Stove for heating irons	12156	10 Nov.
Ulrich, C. A., Auckland, N.Z. Saving fine gold	11373	15 Feb.
Unwin, H. J., and another, Featherston, N.Z. Apparatus for stumping and logging	11516	5 April.
Vaile, E. B., Auckland, N.Z. Railway brake	11504	30 March.
Vaile, E. B., Auckland, N.Z. Music leaves	12095	16 Oct.
Vaile, E. B., and another, Auckland, N.Z. Envelope	11423	3 March.
Vaile, E. B., and another, Auckland, N.Z. Tap	11600	3 March.
Vaile, J. R., Auckland, N.Z. Ink- and pencil-eraser	11541	14 April.
Vaile, P. A., Auckland, N.Z. Connecting bridle-reins, &c.	11641	20 May.
Vaile, P. A., Auckland, N.Z. Boot for horses	11668	30 May.
Vaile, P. A., Auckland, N.Z. Pen nib	12042	30 Sept.
Vaile, P. A., Auckland, N.Z. Envelope	11423	3 March.
Vaile, P. A., and another, Auckland, N.Z. Tap	11600	5 May.
Van der Vijgh, A. H., and others, Amsterdam, Holland. Artificial stone	11677	6 June.
Van der Vijgh, G., and others, Amsterdam, Holland. Artificial stone	11677	6 June.
Van der Vijgh, H., and others, Amsterdam, Holland. Artificial stone	11677	6 June.
Venables, J., Christchurch, N.Z. Lead-headed nails	11384	15 Feb.
Vernon, J., Wanganui, N.Z. Ventilator for boots and shoes	11979	9 Sept.
Verschoyle, W. D., Auckland, N.Z. Vessel for containing edible substances	11287	4 Jan.
Vijgh, Van der. (See under Van.)		
Vogt, A., Vienna, Austria. Manufacture of electrical resistances	11648	*23 Aug., '98
Vogt, A., and others, Vienna, Austria. Electrical resistances of artificial stone composition	11743	*24 Aug., '98
Vogt, A., and others, Vienna, Austria. Electrical heating apparatus	11744	*24 Aug., '98
Von Bechtolsheim, Baron, Munich, Germany. Milking apparatus	11491	29 March.
Von Linde, C., Munich, Germany. (See Oxyliquit Gesellschaft, No. 11802.)		
Wakelin, O., Ballance, N.Z. Marking butter-box	11654	25 May.
Walker, J. H., Christchurch, N.Z. Acetylene-gas generator	11646	23 May.
Walker, Tannett-. (See under T.)		
Walsh, J. D., Otakia, N.Z. Hair-pin	12073	10 Oct.
Walsh, J. D., Otakia, N.Z. Instrument for slaughtering cattle	12171	14 Nov.
Walton, F., London, England. Mosaic floor-cloth	11454	16 Mar.
Ward, C. H., and another, Sydney, N.S.W. Recovering gold from metallurgical fumes	12215	1 Dec.
Ward, C. H., and another, Sydney, N.S.W. Recovering gold from metallurgical fumes	12216	1 Dec.
Ward, J., Riversdale, N.Z. Gold-dredging bucket and screen	12110	20 Oct.
Warner, F. A., Hawera, N.Z. Knife-cleaner	12157	10 Nov.
Warren, J., Broken Hill, N.S.W. Pulveriser	11374	15 Feb.
Waters, E., jun., Melbourne, Victoria. Electric traction. (E. Bede)	11684	6 June.
Waters, E., jun., Melbourne, Victoria. Closing provision-tins. (A. W. Maconochie and W. Mackie)	11766	18 July.
Waters, E., jun., Melbourne, Victoria. Internal combustion engine. (G. Westinghouse and E. Ruud)	12002	20 Sept.
Waters, E., jun., Melbourne, Victoria. Machine for making printing bars. (The Linotype Company, Limited; O. Mergenthaler)	12027	28 Sept.

ALPHABETICAL LIST OF APPLICANTS FOR PATENTS FOR THE YEAR 1899—continued.

Name, Residence, and Invention.	No.	Date.
Waters, E., jun., Melbourne, Victoria. Linotype machine. (The Linotype Company, Limited)	12141	4 Nov.
Waters, E., jun., Melbourne, Victoria. Linotype machine. (The Linotype Company, Limited)	12142	4 Nov.
Watt, J. B. O., Dunedin, N.Z. Newspaper rack	11369	13 Feb.
Watts, D., Ballarat, Victoria. Two-speed gearing for cycle	11674	6 June.
Watty, F. J., and another, Wanganui, N.Z. Fire-escape ladder	11755	29 June.
Webb, G. B., Westfield, U.S.A. Measuring faucet	12047	4 Oct.
Webster, R. F., Pukekohe, N.Z. Horse-cover	11748	23 June.
Weiner, C. C., and others, Vienna, Austria. Electrical resistances of artificial stone composition	11743	*24 Aug.'98
Weiner, C. C., and others, Vienna, Austria. Electrical heating appliance	11744	*24 Aug.'98
Welsby, J., Wellington, N.Z. Dredging machinery	12242	18 Dec.
Welsby, J., and another, Wellington, N.Z. Spouting dies	11662	30 May.
Welsby, J., and another, Wellington, N.Z. Ball-cock for water-cistern	11719	16 June.
Welsby, J., and another, Wellington, N.Z. Raising water	11848	1 Aug.
Welsby, J., and another, Wellington, N.Z. Lead-heading nails	12117	26 Oct.
Werner, J., Lowburn Ferry, Otago, N.Z. Obtaining gold from river-beds	11977	12 Sept.
Westinghouse, G., Pittsburg, U.S.A. Electro-pneumatic controlling apparatus	11497	29 Mar.
Westinghouse, G., and another, Pittsburg, U.S.A. Securing core-plate in dynamo electric machinery	11659	29 May.
Westinghouse, G., and others, Pittsburg, U.S.A. Electric railway	11536	15 April.
Westinghouse, G., and another, Pittsburg, U.S.A. (See E. Waters, jun., No. 12002.)		
Wetherill, J. P., South Bethlehem, U.S.A. (See Metallurgische Gesellschaft, A. G., No. 11311.)		
Whelan, D. J., and another, Auckland, N.Z. Window-sash spring suspender	11332	18 Jan.
Whitburn, D., Auckland, N.Z. Leggings	12105	18 Oct.
Whitburn, D., Auckland, N.Z. Vegetable-cutter and grater	11945	31 Aug.
Whitburn, D., and another, Auckland, N.Z. Hair-curler	11931	23 Aug.
White, C., Wellington, N.Z. Acetylene-gas generator	11607	11 May.
White, J., and another, Dunedin, N.Z. Gold-saving apparatus	11768	5 July.
White, J. S., Dunedin, N.Z. Funnel for filling narrow-necked vessels	11637	16 May.
White, R. H., Wanganui, N.Z. Exchange-slip and coupon trading system	11667	31 May.
White, R. C., and another, Dunedin, N.Z. Gold-saving mat.	12240	11 Dec.
White, T., Rangiora, N.Z. Heating rooms, &c.	11420	2 March.
Whitehead, E. A., and another, Broken Hill, N.S.W. Valve operating apparatus	11896	15 Aug.
Whitehorn, T., and another, Melbourne, Vic. Cigarette mouthpiece-making machine	11431	9 March.
Whitelaw, A. A., Wellington, N.Z. Treadle attachment for linotype machine	11911	22 Aug.
Whitmore, E. H., and another, Invercargill, N.Z. Purifying water	12245	15 Dec.
Whitney, A. C., and another, Auckland, N.Z. Cleaner for breech-block of rifles	12076	10 Oct.
Whyte, D. A., Dunedin, N.Z. Safety stop valve and governor	11569	24 April.
Whyte, W. R., Wellington, N.Z. Typewriter	11928	25 Aug.
Wildbore, C. E., Pohangina, N.Z. Rein-holder	11336	4 Feb.
Willey, E. M., Dunedin, N.Z. Measuring liquids	11542	18 April.
Wildridge, J., Sydney, N.S.W. Sub-aqueous dredger	12238	14 Dec.
Wilkins, J., and others, Auckland, N.Z. Bicycle	11344	26 Jan.
Williams, C., Levin, N.Z. Appliance for washing and peeling potatoes, &c.	11597	1 May.
Williams, D., and another, Adelaide, S.A. Amalgamator	11347	1 Feb.
Williams, Elizabeth T., Picton, N.Z. Dress-making chart	11842	28 July.
Williams, R. K., Thames, N.Z. Filtering oil	11801	17 July.
Williams, R., and another, Hastings, N.Z. Cooling malt liquors	12126	26 Oct.
Williams, W. F., London, Eng. Tire and rim for wheel	11537	15 April.
Williamson, D. H., Wanganui, N.Z. Apparatus for rapid issue of railway-tickets	11885	17 Feb.
Willis, A. D., and another, Wanganui, N.Z. Photographic camera	11441	13 March.
Wilson, C. R., Christchurch, N.Z. Cycle driving-gear	11938	28 Aug.
Wilson, D., Wellington, N.Z. Envelope	11818	22 July.
Wilson, W. R., Narandera, N.S.W. Cultivator	11283	4 Jan.
Windle, C. H., Calcutta, India. (See W. E. Hughes, No. 12107.)		
Wireless Telegraph and Signal Company (Limited), The, London, Eng. Wireless telegraphy. (G. Marconi)	11550	22 April.
Wireless Telegraph and Signal Company (Limited), The, London, Eng. Wireless telegraphy. (G. Marconi)	11812	20 July.
Wiseman, J., Auckland, N.Z. Breeching attachment for horse cover	11329	19 Jan.
Withers, W., Palmerston North, N.Z. Fireplace screen	11387	9 March.
Wood, G., Burnley, Eng. (See A. Tindill, No. 11874.)		
Wood, W., Dunedin, N.Z. Gold-saving apparatus	11764	3 July.
Wood, W. H., and another, Philadelphia, U.S.A. (See Lanston Monotype Machine Company, No. 11816)		
Woodger, R. A., Wellington, N.Z. Fire-escape	11343	30 Jan.
Woods, P., Kawakawa, N.Z. Horse-cover attachments	12006	19 Sept.
Woolf, I., and another, Christchurch, N.Z. Scrubbing-brush	11880	9 Aug.
Woolhouse, G., Ross, N.Z. Feed-regulator for use in treating auriferous sand	11909	17 Aug.
Worthington, C. C., Westchester, U.S.A. Steam pump	11235	5 Jan.
Worthington, C. C., Dunnfield, U.S.A. Steam-engine	11664	1 June.
Wren, J., and another, Collingwood, Vic. Fan and motor therefor	11584	3 May.
Wright, G., and another, Wilkinsburg, U.S.A. (See J. P. Campbell, No. 11948)		
Wright, G., and another, Wilkinsburg, U.S.A. (See W. E. Hughes, No. 11941)		
Wright, G., Wilkinsburg, U.S.A. Switch for electric circuit	11425	7 March.
Wright, G., and another, Wilkinsburg, U.S.A. (See J. P. Campbell, No. 11897)		
Wright, G., and others, Wilkinsburg, U.S.A. Switch for electric circuit	11530	14 April.
Wright, G. and others, Wilkinsburg, U.S.A. Controller for electric motor	11731	22 June.
Wright, J., and others, Dunedin, N.Z. Mixing and preparing chemical manures	12066	6 Oct.
Wright, J., and another, Wellington, N.Z. Jug	12083	13 Oct.
Wright, W. W., Christchurch, N.Z. Animal-trap	11456	15 March.
Wright, W. H., Ontario, Canada. (See Wright's Taper-Roller Bearings Syndicate, Limited, No. 12025)		
Wright's Taper-Roller Bearings Syndicate (Limited), London, Eng. Roller-bearings. (W. H. Wright)	12025	28 Sept.
Wurts, A. J., and others, Pittsburg, U.S.A. Controller for electric motor	11731	22 June.
Wyatt, J., and another, Kaiwairua, N.Z. Apparatus for stumping and logging	11516	5 April.
Young, A., and another, Sydney, N.S.W. (See E. H. and H. A. Jull, No. 11432.)		
Young, W. P., and another, Dunedin, N.Z. Feed for seed drill	11940	31 Aug.
Zinsli, R., Stratford, N.Z. Horse-cover	11419	1 March.

K.—ALPHABETICAL LIST OF TITLES OF INVENTIONS FOR WHICH LETTERS PATENT HAVE BEEN APPLIED DURING THE YEAR 1899.

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

Invention, and Name of Inventor.	No.	Date.
Account-book. J. B. Beavis	11927	22 Aug.
Account-book. R. M. Gatenby	12056	4 Oct.
Acetylene-gas burner. Türr's Acetylene Gas Syndicate (Limited)	11397	23 Feb.
Acetylene compounds. B. J. Atterbury	11689	8 June.
Acetylene-gas apparatus. Türr's Acetylene Gas Syndicate (Limited)	11369	23 Feb.
Acetylene-gas laundry-iron. J. Miller	12100	14 Oct.
Acetylene generator. H. J. Buchan	12179	16 Nov.
Acetylene generator. The Imperial S.C. Acetylene Gas Company (Limited)	11528	14 April.
Acetylene generator. W. McAuslin	11724	14 June.
Acetylene generator. J. Miller	12138	3 Nov.
Acetylene generator. R. J. Moss	11333	25 Jan.
Acetylene generator. A. B. Ritchie	12046	4 Oct.
Acetylene generator. J. M. Taylor and H. Oakley	11881	9 Aug.
Acetylene generator. L. Thurnauer	11612	11 May.
Acetylene generator. W. Tyree	11846	1 Aug.
Acetylene generator. J. H. Walker	11646	23 May.
Acetylene generator. C. White	11607	11 May.
Acetylene purifier. The Acetylene Purifying Company (Limited)	11939	31 Aug.
Adhesive surface, Device for moistening. R. M. Hathaway and J. Robertson	11477	23 March.
Adjustment, Velocipede seat- and handle-. T. Gallagher	11709	12 June.
Advertisement displayer. T. L. Taylor	11710	12 June.
Advertising apparatus. T. Murray and W. Pinches	11625	12 May.
Advertising device. W. Blaker	12250	21 Dec.
Advertising tablet and soap cake. J. J. Roth	12177	15 Nov.
Aerator. (See Milk-aerator, Milk-aerator and cooler.) A. Billens	11868	7 Aug.
Agitating and settling vat. P. Ferguson	12118	24 Oct.
Agitator, Slimes. L. Horne	12052	5 Oct.
Air-brake coupling. T. H. Patching and R. H. Finch	11845	1 Aug.
Air-cooler. W. Nelson	11969	6 Sept.
Air or gas-compressor. F. Isitt	11915	22 Aug.
Aeriform fluids or gases, Refrigerating or liquefying. The General Liquid Air Refrigerating Company	11424	7 May.
Alarm, Burglar-. C. M. Newson	11729	20 June.
Alarm, Electric fire-. C. Nixon	11435	9 March.
Albumenoids of meat, Soluble. J. W. C. Hamilton and J. A. Linley	11811	20 July.
Ale-cooler. W. Stock and R. Williams	12126	26 Oct.
Alternating current apparatus. W. E. Hughes	11356	2 Feb.
Alternating current, Converting energy of, into mechanical energy. B. G. Lamme	11532	14 April.
Alternating current induction motor. J. P. Campbell	12030	29 Sept.
Alternating current measuring instrument. H. P. Davis and F. Conrad	11495	29 March.
Amalgamator. D. Williams and J. H. Richards	11347	1 Feb.
Amalgamator and concentrator. G. C. Clark	11368	10 Feb.
Amalgamator and concentrator. W. Mentiplay	11372	15 Feb.
Amalgamator and separator, Gold. D. Parker	11479	23 March.
Amalgamator, Ore concentrator, separator, and. G. Fischer	11426	7 March.
Anhydride, Sulphuric. Badische Anilin and Soda Fabrik	11890	14 Aug.
Animal-trap. P. G. Dodd	11771	5 July.
Animal-trap. H. L. Mainland	12175	11 Nov.
Animal-trap. W. W. Wright	11456	15 March.
Antimony, Extracting, from ores. J. Ranald	11904	18 Aug.
Antimony, Treating ores containing. E. Petersson	11324	20 Jan.
Apron-bag. E. E. Campion	12040	2 Oct.
Arc-lamp. H. P. Davis and F. Conrad	11355	2 Feb.
Arsenic-ores, Treating. E. Petersson	11324	20 Jan.
Artificial stone. A. H., H., and G. Van der Vijgh	11677	6 June.
Ashpan and cinder-sieve. F. W. Saper and F. M. Drewitt	11789	12 July.
Auriferous material from river-beds, Obtaining. I. L. Lewis	11722	7 June.
Auriferous material from river-beds, Obtaining. A. F. Ridland	11714	14 June.
Auriferous sand, Feed regulator for table for. G. Woolhouse	11909	17 Aug.
Automobile vehicle. C. H. Holder	11717	16 June.
Auto-vehicle. E. W. Rudd	12252	21 Dec.
Bag, Apron. E. E. Campion	12040	2 Oct.
Bag, Combined syringe, enema, and hot-water. E. W. Hall	11860	2 Aug.
Bags, Grip for holding, while being sewn. W. K. Elder	11299	5 Jan.
Bales, &c., Apparatus for closing wool-. H. Biddle	11849	2 Aug.
Ball-cock. H. G. Bedell and J. Welsby	11719	16 June.
Ball grinding-mill. W. Stamm	11650	25 May.
Band-box. J. Banks	11313	11 Jan.
Bar, Printing. E. Waters, jun.	12027	28 Sept.
Barium salts, Manufacturing. C. S. Bradley and C. B. Jacobs	11325	20 Jan.
Battery. (See Galvanic-battery, Secondary-battery, Stamper-battery.)		
Bath apparatus, Electric or medicinal. C. E. Schnée	11922	24 Aug.
Bearings, Roller-. Wright's Taper Roller-bearings Syndicate (Limited)	12025	28 Sept.
Bed-pan, Support for person during removal of. M. A. Johnson	12152	7 Nov.
Bedstead-frame. J. F. Stephenson	11705	12 June.
Bedsteads, Attaching woven wire to. G. Richards	11575	27 April.
Belt and braces, Combined. L. N. Dyhrberg and G. K. Askin	12004	18 Sept.
Belt-clip. M. L. Jackman	12208	28 Nov.
Belt-fastener. A. L. Heighton	11567	28 April.
Belt-fastener. W. and J. T. Maine	11519	11 April.
Belt or strap. E. C. Millard	11350	1 Feb.
Belting, Roller-guide for. D. W. Bodle	11808	15 July.
Bench-grip. W. B. O'Toole	11949	31 Aug.
Bicycle. E. Bond, W. H. Burton, and J. Wilkins	11344	26 Jan.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Bicycle, Attachment to, for transmitting power to sheep-shears. J. Howard	11523	10 April.
Bicycle-brake. J. W. Kenah	11478	20 Mar.
Bicycle-brake. J. Miller	12182	27 Oct.
Bicycle-clip, -pedal, and -toe. W. L. Mitchell	11790	13 July.
Bicycle driving-gear. J. Paaske	11713	14 June.
Bicycles, driving and controlling gear for. F. A. Rich	12085	5 Oct.
Bicycles, Facing for pedals of. A. L. P. Chasles	12190	23 Nov.
Bicycles, Means of propelling. G. E. Tissington and J. R. Thomson	11852	3 Aug.
Bicycle mud-guard and tyre-cleaner. G. H. Fisher	11797	15 July.
Bicycle pedal- and toe-clip. W. L. Mitchell	11790	13 July.
Bicycle pedal, Facing for. A. L. P. Chasles	12190	23 Nov.
Bicycle-seat and -handle adjustment. T. Gallagher	11709	12 June.
Bicycle-seat and luggage carrier, Means of attaching. J. W. Buckley	11758	28 June.
Bicycle-stand and tool-chest combined. E. H. and H. A. Jull	11432	9 Mar.
Bicycle-support. G. K. Askin	11552	21 April.
Bicycle-support. G. K. Askin	11699	8 June.
Bicycle-support. J. H. Elstob	12172	13 Nov.
Bicycle-wheels, Device for locking. W. Morris	11568	25 April.
Bicycle. (See Cycle, Tire, Velocipede, Wheel.)		
Billiard-chalk suspender. A. C. Thomas and J. E. Atkinson	11455	16 March.
Billiard-cue chalker. P. G. Kelly	11715	13 June.
Billiard-cue chalker. P. G. Kelly	11806	12 July.
Billiard-table. G. R. Rowe and J. Trevithick	11335	25 Jan.
Binding mechanism, Harvester. J. Macalister	11340	24 Jan.
Bismuth and antimony from ores, Extraction of. J. Ranald	11904	18 Aug.
Bit-sharpener. W. E. Kimber	11433	9 March.
Blanketing, Gold-saving. M. G. Heeles	11598	5 May.
Bleaching and cleaning flax. G. W. Plummer	11712	9 June.
Bleaching flax. F. Clifford	12261	21 Dec.
Blight exterminator. H. Strawbridge	12075	12 Oct.
Blind, Venetian. W. J. Blakey	11593	2 May.
Block. (See Building-block, Gold-saving-block, House-block, Printing-block, Street-block.)		
Blood, Manufacture of food from. J. W. C. Hamilton and Bergl Australia (Limited)	11281	4 Jan.
Blood, Manufacturing fertilisers from. H. A. Somes	11629	18 May.
Board joint, Rusticated. G. J. and A. Howes	11821	20 July.
Boarding, Weather-. G. H. Anderson	12166	11 Nov.
Boat. N. Gibbons	11298	5 Jan.
Boat-gear, Deck disengaging. D. Mitchell	11320	18 Jan.
Boiler-fittings. E. Richardson	12227	7 Dec.
Boilers, Stoker for. J. Miller	12131	27 Oct.
Boiler. A. I. Hulme and W. Thomson	11970	7 Sept.
Boiler, Circulating water in steam. R. P. Gibbons	12032	27 Sept.
Boiler-cleaner. A. Price	11624	13 May.
Boiler, Water-tube. J. and J. M. Cowan	12239	14 Dec.
Book, Account-. R. M. Gatenby	12056	4 Oct.
Book, Account sales or order-. J. B. Beavis	11927	22 Aug.
Boot. G. Ross	11544	18 April.
Boot or shoe. E. and L. Schmoll	11317	14 Jan.
Boot heel. A. Tindill	11874	10 Aug.
Boot, Horse-. P. A. Vaile	11668	30 May.
Boot last. J. Moran	11578	3 May.
Boot or shoe. E. and L. Schmoll	11317	14 Jan.
Boot or shoe. W. Lingard	11655	25 May.
Boot or shoe. J. and J. P. Simon	12026	28 Sept.
Boot or shoe ventilated insole. A. Buchanan	11688	2 June.
Boot sole. J. E. Friend	11936	30 Aug.
Boot sole finishing-iron. E. Day	11794	13 July.
Boot soles, Iron for finishing edges of. E. Day	11551	20 April.
Boot soles, Wash for. C. Lafferty	11603	10 May.
Boot ventilator. J. Vernon	11979	9 Sept.
Boot. (See also Golosh, Sandal, Slipper.)		
Boots, &c., Lacing-. A. de R. Brandon	11869	4 Aug.
Bore-holes, Sinking. W. Griffiths	12247	4 Dec.
Boring drill. H. Aylmer and J. H. Plummer	11708	12 June.
Boring post-holes. E. R. Godward	12268	29 Dec.
Bot and worm medicine. A. J. Knocks	11443	14 March.
Bottle for use in milk-testing. W. J. McVeigh and G. Lyell, jun.	11738	21 June.
Bottle frame or support. F. C. Saunders	11958	4 Sept.
Bottle. (See Non-refillable bottle.)		
Bottles, Closing provision. E. Waters, jun.	11766	18 July.
Box. (See Band-box, Butter-box, Case, Crate, Fare-box, Show-case, Till, Trunk.)		
Box-filling and covering-machine. W. H. Butler	12210	28 Nov.
Box-making machinery. E. McGregor	11785	12 July.
Boxes, Machine for inserting matches into. R. J. McKee and W. McLay	11520	13 April.
Braces, Combined belt and. L. N. Dyhrberg and G. K. Askin	12004	18 Sept.
Brake. (See Air-brake, Bicycle-brake, Electric-brake, Vehicle-brake.)		
Brand. M. Belk	11973	11 Sept.
Branding. A. J. Cuming	11602	9 May.
Branding apparatus. W. H. Boyens	11622	25 May.
Branding apparatus. C. J. Cooze	12064	26 Sept.
Branding apparatus. A. J. Cuming	11663	30 May.
Breadmaking. D. R. S. Galbraith	11757	28 June.
Breadmaking. D. R. S. Galbraith	12057	2 Oct.
Breaker, Circuit. J. P. Campbell	11897	16 Aug.
Breaker, Circuit. H. P. Davis	11493	29 March.
Breasting-machine, Heel. W. E. Hughes	12225	7 Dec.
Breech-block cleaner, Rifle or carbine. A. C. Whitney and R. B. Morrow	12076	10 Oct.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Brewing-grain, Gelatinising. A. J. Metzler	11988	13 Sept.
Brickmaking-machine. A. Dolphin and J. T. W. Stephenson	12039	2 Oct.
Bridle. T. Smith	11872	9 Aug.
Bridle. L. C. Hazlett	12153	7 Nov.
Bridle and rein connection. P. A. Vaile	11641	20 May.
Broiler. J. J. Pearse	12008	22 Sept.
Bromine solutions, Precipitating gold from. F. W. Martino and F. Stubbs	11556	26 April.
Broom-handle fastening. J. Ford	12009	22 Sept.
Brush. S. G. Roseman	11579	3 May.
Brush, Scrubbing. T. Bunting and I. Woolf	11880	9 Aug.
Bucket. (See Dredge-bucket.)		
Buffer and draw-gear for railway vehicles. W. R. S. Jones	11436	11 Mar.
Building-block. W. E. Hughes	11841	31 July.
Building material. A. Imschenetzky	11628	18 May.
Building, Spouting and roof for. G. W. Darvall	11943	1 Sept.
Buildings, Attaching corrugated iron to. W. E. Hughes	12107	21 Oct.
Buildings, Securing scrim to walls of. E. Bartley	12094	13 Oct.
Bullet-resisting garment. J. Shepherd	11893	15 Aug.
Burglar-alarm. C. M. Newson	11729	20 June.
Burner. G. Barthel, O. Henckels, and W. de Haas	11418	3 March.
Burner. L. Hooker	11309	12 Jan.
Burner. H. S. Chipman	11453	16 March.
Burner. H. E. Howland	11527	14 April.
Burner. Türr's Acetylene Gas Syndicate, Limited	11897	23 Feb.
Burner, Igniting device for. A. J. Sterne	11765	3 July.
Burnisher and ink- and pencil-eraser, Combined. J. R. Vaile	11541	14 April.
Burring wool. G. E. U. Huckaby	11888	28 July.
Butter-box. W. P. Trevaskis and G. Archer	11404	27 Feb.
Butter-boxes, Stamping and marking. O. Wakelin	11654	25 May.
Butter-dividing and moulding-machine. W. B. Dick	11725	14 June.
Butter-fat, Testing milk for. W. J. McVeigh and G. Lyell, jun.	11738	21 June.
Butter, Treating. D. R. S. Galbraith	11644	18 May.
Button and pin, Combined. J. Torrens	12060	3 Oct.
Cab door, Apparatus for opening. W. J. Stevens	11918	21 Aug.
Cakes, Cereal. J. H. Kellogg	12045	4 Oct.
Calcoining limestone, &c. J. Bryson, J. Jones, and W. Fraser	11866	10 Feb.
Calcium-carbide, Manufacturing. J. Bastick	11823	18 Jan.
Calves, Device for weaning. W. Reach	12016	22 Sept.
Camera. A. D. Willis and L. W. Mence	11441	13 March.
Can cover. J. M. Arundel and T. McGregor	12140	1 Nov.
Can-opener. J. A. McPhee	12182	15 Nov.
Can or vessel, Hermetically sealing. E. Norton	11417	3 March.
Candle extinguisher. D. Lea	11462	21 March.
Caoutchouc, Disvulcanising. A. E. J. V. J. Theilgaard	11707	12 June.
Carbamides in oils, Solutions of sweet. A. Sommer	12155	8 Nov.
Carbide, Manufacturing calcium-. J. Bastick	11823	18 Jan.
Carbine breech-block cleaner. A. C. Whitney and R. B. Morrow	12076	10 Oct.
Carbonating liquids. P. E. Malmstrom and O. W. Ackerman	11434	9 March.
Car-coupling apparatus. R. S. Reid	11521	13 April.
Cargo, Loading. J. Gibson	11989	13 Sept.
Carriage or perambulator, Child's. T. Ballantine	11747	26 June.
Carrier system, Cash- and parcel-. M. J. Foyer	11514	6 April.
Case or crate. W. M. Green	11562	27 April.
Case, Show-. E. Lee and J. S. Pickford	11295	9 Jan.
Carving-machine. H. Marls and G. W. Butt	11558	26 April.
Cash- and parcel-carrier system. M. J. Foyer	11514	6 April.
Cask-making machinery. E. McGregor	11793	14 July.
Cask-stave cutter. A. Sinclair	11997	19 Sept.
Casting and composing machine, Type. Lanston Monotype Machine Company	11815	20 July.
Cattle-slaughtering instrument. J. D. Walsh	12171	14 Nov.
Cement. J. Steiger	12178	15 Nov.
Cement. G. S. Potter	11984	13 Sept.
Cement, ore, &c., Pulverising. M. J. Davidsen	12173	13 Nov.
Cement-pulverising mill. M. J. Davidsen	12174	13 Nov.
Ceramic stone. L. A. Garchey	11282	4 Jan.
Cereal cakes. J. H. Kellogg	12045	4 Oct.
Chaff-cutter, Feed-roller for. M. Brown	12134	2 Nov.
Chain, Coupling-. G. Moros	11924	21 Aug.
Chain-fastener. C. Bristow	12271	30 Dec.
Chainless cycle-gear. C. R. Wilson	11938	28 Aug.
Chair. F. Coffee	12139	3 Nov.
Chairs and wire mattresses, Spring bottom for. A. Richards	19502	28 March.
Chair-seat. H. A. C. Sutton	11446	15 March.
Chalker, Billiard-cue. P. G. Kelly	11715	13 June.
Chalker, Billiard-cue. P. G. Kelly	11806	12 July.
Chalk suspender, Billiard-. A. C. Thomas and J. E. Atkinson	11455	16 March.
Charcoal from vegetable refuse, Making. J. D. P. Morgan	12068	6 Oct.
Chart, Dressmaking-. E. T. Williams	11842	28 July.
Check. (See also Ticket.)		
Checks at pay-windows, Registering and issuing. E. March	11379	16 Feb.
Chemical generation of electricity. E. L. Anderson	12248	21 Dec.
Chemical manure. J. Wright, W. Andrews, and A. W. Beaven	12066	6 Oct.
Chest, Tool-, and bicycle-stand combined. E. H. and H. A. Jull	11432	9 March.
Child's carriage or perambulator. T. Ballantine	11747	26 June.
Chimney. H. Dalton	11917	23 Aug.
Chimney-cowl. H. A. Mason	11643	23 May.
Chimney- or ventilator-cowl. H. A. Mason	11657	26 May.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued*.

Invention, and Name of Inventor.	No.	Date.
Chloride or bromine solutions, Precipitating gold from. F. W. Martino and F. Stubbs ..	11556	26 April.
Chocolate and milk products. A. Denaeyer	12014	*2 Feb.
Chrome tanning-liquid. C. Boocock	11577	1 May.
Churn. W. F. Henderson	11108	20 Oct.
Cigarette-case. C. Legge	12077	13 Oct.
Cigarette-machine. W. G. Pedersen, L. Adler, and P. N. Holst	12184	17 Nov.
Cigarette-mouthpiece machine. T. Whitehorn and H. N. Brady	11481	9 March.
Cigarette wrapper. Richmond Gold and Silver Cigarette Company	12193	23 Nov.
Cinder-sieve and ashpan. F. W. Soper and F. M. Drewitt	11789	12 July.
Circuit-breaker. H. P. Davis	11493	29 March.
Circuit-breaker. J. P. Campbell	11897	16 Aug.
Circuit. (See also Electric circuit.)		
Cistern ball-cock. H. G. Bedell and J. Welsby	11719	16 June.
Cistern, Closet flushing-. J. M. Taylor and H. Oakley	12234	12 Dec.
Cistern flushing-valve. W. E. Hughes	12049	4 Oct.
Cistern-valve. R. Garnham	11920	24 Aug.
Cistern-valve. R. Garnham	11576	2 May.
Cistern, Water-closet. R. Garnham	11890	21 Feb.
Clamp, Fence-. D. W. Aylworth	11647	25 May.
Clay-working machine. R. O. Clark, jun.	11825	21 July.
Clinical-table, reading-desk, and cupboard. H. C. Franklin	11623	15 May.
Cleaner for rifle breech-block. A. C. Whitney and R. B. Morrow	12076	10 Oct.
Cleaner. (See also Boiler-cleaner, Knife-cleaner.)		
Cleaning appliance. A. L. J. Tait	12183	16 Nov.
Cleaning flax, Bleaching and. G. W. Plummer	11712	9 June.
Cleaning machinery, Road-. H. J. Ranger	11661	29 May.
Cleaning sheep dags. A. Smith	12269	29 Dec.
Cleaning watercourses, Appliances for. A. E. Hight	11728	16 June.
Cleaning wool. E. Maertens	11993	15 Sept.
Cleansing composition. R. C. Kerr	11733	22 June.
Clip. (See Belt-clip, Bicycle-clip, Cycle saddle-clip, Cycle toe-clip.)		
Clippers, Horse-. C. H. Izard	11613	11 May.
Clock, Recording-attachment for. C. Stahlecker	11978	13 Sept.
Clock. (See also Electric-clock, Time-indicator.)		
Closet-flushing cistern. J. M. Taylor and H. Oakley	12234	12 Dec.
Closet-seat cover. D. Grant and A. Macpherson	11291	6 Jan.
Closet-seat cover. D. Grant and A. Macpherson	11557	26 April.
Closing wool-bales, Apparatus for. H. Biddle	11849	2 Aug.
Clothes-horse. W. S. and R. M. Maunder	12221	5 Dec.
Cock, Ball-. H. G. Bedell and J. Welsby	11719	16 June.
Cocoa or chocolate and milk products. A. Denaeyer	12014	*2 Feb.
Codlin-moth and blight exterminator. H. Strawbridge	12075	12 Oct.
Coffee products, Utilizing waste. L. Hesse	11763	3 July.
Coffer-dam dredge. W. L. Page and G. P. Mollison	12099	14 Oct.
Coiler and uncoiler, Wire-. J. Krause	11990	13 Sept.
Cold-stores, Walls of. A. H. Chapman	11487	11 March.
Collar-stud. M. B. Curtis	11826	21 Jan.
Colouring hides, &c. G. D. Burton	11842	26 Jan.
Colouring matters, Preparing and putting up. I. Singer and F. W. Maddox	11463	21 March.
Colour-printing machine. F. C. Taylor	11975	7 Sept.
Combustion engine, Internal. E. Waters, jun.	12002	20 Sept.
Compass and time-indicator. E. Gilshnan, jun.	11403	24 Feb.
Composing-machine, Type-casting and. Lanston Monotype Machine Company	11815	20 July.
Compressed air, Prevention of freezing in machinery driven by. J. Park and G. A. Avey	12063	7 Oct.
Compressor. (See Fibre-compressor, Gas- or Air-compressor.)		
Computing-scale, Weighing and. J. J. Sears	11589	4 May.
Concentrating liquids. E. Shaw	12270	30 Oct.
Concentrating or separating and amalgamating ores. G. Fischer	11426	7 March.
Concentrator. F. L. Bartlett	11452	16 March.
Concentrator. G. C. Clarke	11368	10 Feb.
Concentrator and amalgamator. W. Mentiplay	11372	15 Feb.
Controller. (See Electric motor-controller.)		
Controlling-apparatus, Electro-pneumatic. G. Westinghouse	11497	29 March.
Controlling horses. D. R. S. Galbraith	11388	16 Feb.
Converting and distributing electric currents. B. G. Lamme	11466	21 March.
Conveyance. E. Hayhurst	11448	14 March.
Cooker, Steam. E. W. Parish	12087	14 Oct.
Cooking-apparatus. H. Ramsey	11635	19 May.
Cooking-apparatus. S. J. Holland	11736	22 June.
Cooking-oven, Regulating heat of. E. Smethurst	12223	4 Dec.
Cooking sweetmeats. E. Shaw	12270	30 Dec.
Cooler. (See Milk-aerator and Milk-cooler.)		
Cooling air. W. Nelson	11969	6 Sept.
Cooling ale, &c. W. Stock and R. Williams	12126	26 Oct.
Cooling-pipes, Clearing snow, &c., from. A. H. Chapman	12035	27 Sept.
Copying, Treating paper for press-. C. C. Paltridge	12048	4 Oct.
Core-plates in dynamo electric machinery, Securing. G. Westinghouse and E. E. Nolan	11659	29 May.
Cornice and curtain-hanger combined. O. B. Hellström	11587	4 May.
Corrugated iron, Attachment of, to buildings. W. E. Hughes	12107	21 Oct.
Corrugated iron, Nail for. F. Gold	12259	22 Dec.
Corrugating paper, Machinery for. G. Leske	11651	25 May.
Corset. H. Schneider	11639	20 May.
Couches, chairs, and wire mattresses, Spring bottom for. A. Richards	11502	28 March.
Counting and recording mechanism, Vote-. J. H. Mander	11817	21 July.
Counting sheep, Mechanism for. R. W. Green	11762	23 July.
Coupling. (See Air-brake coupling, Car-coupling, Chain-coupling, Pipe-coupling, Railway-car coupling, Railway-vehicle coupling.)		

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Coupon. R. H. White	11667	31 May.
Cover. (See also Can-cover, Closet-seat cover, Dish-cover, Frying-pan cover, Grain-stack cover, Horse-cover, Vessel-cover.)		
Cover for gold-saving plant. J. W. Faulkner	12231	8 Dec.
Cow-bails, Supplying water to. W. T. Bowater	11963	6 Sept.
Cowl, Chimney. H. A. Mason	11643	23 May.
Cowl for chimney or ventilator. H. A. Mason	11657	26 May.
Crank-head, Cycle-pedal and. F. Mitchell and C. Hill	11974	11 Sept.
Crate for frozen animals. J. H. Pomeroy	11572	27 April.
Crate for frozen animals, Export. A. P. Schmidt and D. Hannan	11490	24 March.
Crate or case. W. M. Green	11562	27 April.
Crate. (See also Rabbit-crate.)		
Cream separator. Actieselskabet Burmeister and Wains Maskin og Skibsbyggeri	11621	12 May.
Cresset, Petroleum. A. A. Bickerton	11376	14 Feb.
Crockery and cutlery washing apparatus. L. Davie	11380	16 Feb.
Crossings, Train indicator for. H. J. Gibbons and E. T. A. Basan	11810	20 July.
Crushing machine. R. Cockerell	11483	21 March.
Crushing or grinding rolls. T. A. Edison	12023	28 Sept.
Cue chalk, Billiard. P. G. Kelly	11715	13 June.
Cue chalk, Billiard. P. G. Kelly	11806	12 July.
Cultivator, Ridger, seed and manure sower and. A. Storrie	11411	28 Feb.
Cultivator, Spring-tooth. W. R. Wilson	11283	4 Jan.
Cupboard, Table, reading-desk, and. H. C. Franklin	11623	15 May.
Cup, Mustard. A. Potter	11942	29 Aug.
Cure of fluke-worm in sheep, Specific for. R. Evens	11549	22 April.
Cure of liver and stomach complaints, Medicine for. F. Curtis	11503	30 March.
Curing hides and skins. J. W. C. Hamilton and J. A. Linley	11280	4 Jan.
Curler, Hair. D. Whitburn and P. H. Basley	11931	23 Aug.
Curler, Hair. M. E. Cox and H. Beil	11653	25 May.
Current generator, Alternating. W. E. Hughes	12020	28 Sept.
Current measuring instrument, Alternating. H. P. Davis and F. Conrad	11495	29 March.
Currents, Utilizing and converting electric. B. G. Lamme	11496	29 March.
Curtain hanger and cornice combined. O. B. Hellström	11587	4 May.
Cutlery and crockery washing apparatus. L. Davie	11380	16 Feb.
Cutter and grater, Fruit and vegetable. D. Whitburn	11945	31 Aug.
Cutter and perforator for printing machine. J. H. McMillan, W. Smart, and H. Smith	11457	18 March.
Cutter, Combined wire-strainer, key, and. J. Hair	11858	1 Aug.
Cutter. (See also Cask stove cutter, Fern and scrub cutter, Poisoned pollard cutter, and Tobacco cutter.)		
Cutting sheet metal, Snip for. G. W. Ferguson	12213	1 Dec.
Cyanide solution. A. F. Crosse	12053	5 Oct.
Cyanide solutions, Precipitating metals from. F. W. Martino and F. Stubbs	11486	28 March.
Cyanide solutions, Recovering gold and silver from. D. and J. Avery	11854	3 Aug.
Cyanide solutions, Recovering gold and silver from. W. A. Koneman	11348	1 Feb.
Cyanide treatment of ores. E. Schilz	12098	18 Oct.
Cyanide treatment of ores, Agitating material during. L. Horne	12052	5 Oct.
Cyanogen compounds. J. Mactear	12086	10 Oct.
Cycle. R. T. Stewart	11289	6 Jan.
Cycle chain fastener. C. Bristow	12271	30 Dec.
Cycle driving-gear. J. W. Brereton	11296	9 Jan.
Cycle driving-gear. J. E. Friend	11472	22 March.
Cycle driving-gear, Chainless. C. R. Wilson	11938	28 Aug.
Cycle driving mechanism. P. H. Pritchett	12233	11 Dec.
Cycle frame. F. W. Parsons and W. E. Campbell	11987	13 Sept.
Cycle gearing. D. Watts	11674	6 June.
Cycle lamp. G. E. Adlard	11505	4 April.
Cycle parcel-rest and lamp-bracket. R. Latta	11787	13 July.
Cycle pedal and crank-head. F. Mitchell and C. Hill	11974	11 Sept.
Cycle saddle-clip. J. Thomas	12200	21 Nov.
Cycle springs. E. Harnett	12127	28 Oct.
Cycle toe-clip. R. Tomline and K. Graf	12102	18 Oct.
Cycle. (See also Bicycle, Tire, Velocipede, Wheel.)		
Cycling sandal. H. Corrick	12007	22 Sept.
Cyclist, Hand-shield for. F. G. Mumford and F. Sparrow	11590	4 May.
Dags, Cleaning wool. A. Smith	12269	29 Dec.
Damming rivers for gold-mining purposes. A. Smith	11739	12 July.
Damper for locomotive-engine. E. Richardson	12214	1 Dec.
Deck disengaging boat-gear. D. Mitchell	11320	18 Jan.
Dehairing hides and skins for tanning. A. J. Cuming	11916	21 Aug.
Desk, and cupboard, Table, reading-. H. C. Franklin	11623	15 May.
Detonator. J. W. Fowler	12011	22 Sept.
Die, Spouting. H. G. Bedell and J. Welsby	11662	30 May.
Digester soup, Manufacturing fertilisers from. H. A. Somes	11630	18 May.
Digger. J. Begg	11701	7 June.
Digger. (See also Potato-digger.)		
Disc-harrow. B. Shears	11882	10 Aug.
Dish-cover. E. R. Standfield	11836	27 July.
Displaying bottles, &c. F. C. Saunders	11958	4 Sept.
Displaying device. H. Franks	11330	24 Jan.
Distilling retort, Shale-. J. Bryson, J. Jones, and W. Fraser	11366	10 Feb.
Distribution, Electrical. (See under Electrical.)		
Disulcanizing process. A. E. J. V. J. Theilgaard	11707	12 June.
Dividing dough, &c., Machine for. C. E. and J. E. Pointon	11611	11 May.
Diving-gear, Gold-dredging. P. Lanigan	11870	5 Aug.
Door adjuster. T. Clements	11697	8 June.
Door for grate-flue. N. A. Hemus	11823	21 July.
Door-handle fastening. J. W. McDougall	12148	6 Nov.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Door-lock spindle. J. W. McDougall	11913	16 Aug.
Door of cab, Apparatus for opening. W. J. Stevens	11918	21 Aug.
Dough, &c., Machine for dividing. C. E. and J. E. Pointon	11611	11 May.
Draught-hook. W. Tremain	12260	27 Dec.
Draught of fireplace, Regulator for. E. Shadgett.. .. .	11971	9 Sept.
Draw-gear, Railway. W. R. S. Jones	11436	11 March.
Drawing off liquids. W. Turnbull	11386	18 Feb.
Drawing staples, nails, &c., Tool for. W. Grayson	12196	21 Nov.
Dredge. W. I. Davis	11565	19 May.
Dredge. J. Drummey	11770	5 July.
Dredge. J. T. Johnson	12145	3 Nov.
Dredge. W. L. Page and G. P. Mollison	12099	14 Oct.
Dredge. H. Park	11746	26 June.
Dredge. T. Shale	11976	12 Sept.
Dredge. C. Tilburn	11995	18 Sept.
Dredge. J. Wildridge	12238	14 Dec.
Dredge- and prospecting-pump combined. R. McGregor	12028	9 Oct.
Dredge bucket. W. H. Cutten	12169	13 Nov.
Dredge bucket. E. Roberts	11782	7 July.
Dredge bucket, Gold. J. Ward	12110	20 Oct.
Dredge bucket-link. W. H. Cutten	11371	14 Feb.
Dredge buckets, Appliance for replacing, on tumblers. W. Cutten	12012	20 Sept.
Dredge buckets, Reversing motion of. W. H. Cutten	11799	17 July.
Dredge elevator. E. Roberts	12202	23 Nov.
Dredge, Elevator-tray for. F. W. Payne	11777	5 July.
Dredge, Screen for gold. J. C. McGeorge	11886	11 Aug.
Dredge, Screen for gold. J. Ward	12110	20 Oct.
Dredge-tumblers. L. H. Reynolds and G. H. Oatway	11339	25 Jan.
Dredge-tumblers, Pick-attachment for. W. Poppelwell	12201	23 Nov.
Dredges, Lubricating the lower tumblers of. W. Cutten	12038	29 Sept.
Dredging-apparatus. A. J. Cumming	11820	19 July.
Dredging-appliance. F. W. Payne	11788	11 July.
Dredging driving-gear, Gold-. P. Lanigan	11870	5 Aug.
Dredging-ladder. E. Roberts	11779	6 July.
Dredging machinery. E. McGregor	11898	16 Aug.
Dredging machinery. T. Shale	11957	4 Sept.
Dredging machinery. J. Welsby	12242	18 Dec.
Dress chart. E. T. Williams	11842	28 July.
Dressing fibre, flax, &c. (See Fibre, Flax, Phormium tenax.)		
Drill, Seed-feeder for. J. W. Stonyer	12050	2 Oct.
Drill, Seed-feeder for. J. W. Stonyer	12101	16 Oct.
Drill. (See also Agricultural-drill, Boring-drill, Earth-drill, Grain-drill, Manure-drill, Pneumatic-drill, Rock-drill, Seed-drill.)		
Drink, Effervescing. W. H. Bickerton	11950	1 Sept.
Driver, Fastening. McKay Shoe Machinery Company	12115	25 Oct.
Driving-gear, Bicycle. F. A. Rich	12065	5 Oct.
Driving-gear, Bicycle. J. Paaske	11713	14 June.
Driving-gear, Chainless cycle. C. R. Wilson	11988	28 Aug.
Driving-gear, Cycle. J. W. Brereton	11296	9 Jan.
Driving-gear, Cycle. J. E. Friend	11472	22 March.
Driving-gear, Velocipede. D. K. and G. M. G. Macdonnell	11538	4 May.
Driving-mechanism, Cycle. P. H. Pritchett	12233	11 Dec.
Dropper. (See Fencing-dropper.)		
Droppers, Securing wires in. E. Smethurst	11447	14 March.
Dryer, Steam-. E. W. Parish	12087	14 Oct.
Drying flax. F. Clifford	12261	21 Dec.
Drying wool. B. W. Glass	11822	20 July.
Dumb-bell. E. Sandow	12256	21 Dec.
Dust-screen for windows. H. Roberts	11857	1 Aug.
Dust from metallurgical furnaces, Recovery of gold, &c., from. F. Ellershausen	12021	28 Sept.
Dye. (See Colouring matter.)		
Dynamo electric machine. W. E. Hughes	11832	27 July.
Dynamo electric machinery, Securing core-plates in. G. Westinghouse and E. E. Nolan	11659	29 May.
Ear-mark for live-stock. G. Hall and O. Deacon	12043	30 Sept.
Earth-drill. F. H. Dannhardt and M. Mailer	11685	6 June.
Easel attachment. R. Martin	11704	12 June.
Effervescing drink. W. H. Bickerton	11950	1 Sept.
Egg-beater. E. R. Godward	12241	15 Dec.
Egg-preservative. J. T. Norton	12125	24 Oct.
Electricity, Chemical generation of. E. L. Anderson	12248	21 Dec.
Electrical distribution. B. G. Lamme.. .. .	11354	2 Feb.
Electrical distribution and regulation. B. G. Lamme	11678	6 June.
Electrical distribution, System of. B. G. Lamme	11535	15 April.
Electrical distribution, System of. C. F. Scott	11533	15 April.
Electrical distribution, System of. C. F. Scott	11615	12 May.
Electrical distribution, System of. W. E. Hughes	12010	22 Sept.
Electrical heating and melting. The Linotype Company, Limited	11359	* 4 Feb.'98.
Electrical heating appliances. J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, and A. Jörg	11744	*24 Aug.'98.
Electrical machine. J. P. Campbell	12029	29 Sept.
Electrical measuring-instrument. J. P. Campbell	11829	26 July.
Electrical power, Distribution of. J. P. Campbell	11919	24 Aug.
Electrical resistance. A. Vogt	11648	25 May.
Electrical resistance. J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, and A. Jörg	11743	*24 Aug.'98.
Electric brake. G. H. B. Hooper	11856	3 Aug.
Electric brake. H. P. Davis	11494	29 March.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Electric-circuit fuse-block. J. P. Campbell	11947	2 Sept.
Electric-circuit fuse-block. W. E. Hughes	11695	8 June.
Electric circuit, Switch for. C. F. Scott, H. P. Davis, and G. Wright	11530	14 April.
Electric circuit, Switch for. G. Wright	11425	7 March.
Electric circuit, Switch for. J. P. Campbell	11948	2 Sept.
Electric clock. A. J. Madden	11395	23 Feb.
Electric clock. A. J. Madden	12224	7 Dec.
Electric clock. J. Coe	12111	20 Oct.
Electric current, Converting energy of alternating, into mechanical energy. B. G. Lamme	11532	14 April.
Electric currents, Converting and distributing. B. G. Lamme	11466	21 March.
Electric currents, Utilising and converting. B. G. Lamme	11496	29 March.
Electric fire-alarm. C. Nixon	11435	9 March.
Electric lamp. W. Nernst	11322	18 Jan.
Electric machine, Dynamo. W. E. Hughes	11832	27 July.
Electric machinery, Securing core-plates in dynamo. G. Westinghouse and E. E. Nolan	11659	29 May.
Electric motor controller. H. P. Davis	11467	21 March.
Electric motor controller. H. P. Davis	11534	15 April.
Electric motor controller. H. P. Davis	11618	12 May.
Electric motor controller. H. P. Davis, G. Wright, and A. J. Wurts	11731	22 June.
Electric motor controller. W. E. Hughes	11941	31 Aug.
Electric motor or meter. H. P. Davis and F. Conrad	11465	21 March.
Electric motor, Speed-varying device and. R. H. Hassler	11617	12 May.
Electric motor-starting mechanism. T. S. Perkins	11691	8 June.
Electric or medicinal bath apparatus. C. E. Schneé	11922	24 Aug.
Electric railway. G. Westinghouse, C. A. Terry, and H. P. Davis	11536	15 April.
Electric switch. H. P. Davis and F. Harder	11353	2 Feb.
Electric telegraph. The Alcock Electrical Position Finder Company (Limited)	11632	18 May.
Electric traction. E. Waters, jun.	11684	6 June.
Electric traction. H. Dolter	12070	9 Oct.
Electric-wire joint. The Neild "Sleeve" Electric Joint Syndicate (Limited)	11679	6 June.
Electro-magnetic ore-separator. E. Kreuser	11480	23 March.
Electro-motive force regulator. C. F. Scott and B. G. Lamme	11468	21 March.
Electro-motive force regulator. N. Rowe	11690	8 June.
Electro or stereoplate. D. Reid	11545	18 April.
Electro-pneumatic controlling apparatus. G. Westinghouse	11497	29 March.
Elevator. W. Cutten	11409	28 Feb.
Elevator for dredge. E. Roberts	12202	23 Nov.
Elevator for loading purposes. R. Perkins and J. Swann	12228	7 Dec.
Elevator, Tailings. W. H. Cutten.	12219	5 Dec.
Elevator-tray for dredge. F. W. Payne	11779	5 July.
Enema, hotwater-bag and syringe combined. E. W. Hall	11860	2 Aug.
Engine. (See Explosion-engine, Gas-engine, Marine-engine, Locomotive engine, Motor, Rock-drilling engine, Rotary engine, Steam engine, Traction engine.)		
Engraving process, Type. A. Treadwell	11775	7 July.
Enumerating-machine. E. R. Echlin and E. Burton	12091	16 Oct.
Enumerating-machine. M. Barnett	12192	23 Nov.
Envelope. D. Wilson	11818	22 July.
Envelope. F. V. Raymond	11315	10 Jan.
Envelope. P. A. and E. B. Vaile	11423	3 March.
Envelopes, opening device for. F. E. Munn	12159	10 Nov.
Eraser, Combined burnisher, and ink and pencil. J. R. Vaile	11541	14 April.
Escape. (See Fire-escape.)		
Ethylene. B. J. Atterbury	11639	8 June.
Evaporating liquids. E. Shaw	12270	30 Dec.
Evaporation, Steam. E. W. Parish	12087	14 Oct.
Exchange, Automatic telephone. The Automatic Telephone Company (Limited)	11698	8 June.
Exhibiting moving pictures. E. B. Koopman	11608	11 May.
Explosion engine. H. V. Hampton	11365	7 Feb.
Explosive. C. W. Curtis and L. Davies	11711	12 June.
Explosive. F. W. Jones	11294	9 Jan.
Explosive. Oxyliquit Gesellschaft mit Beschränkter Haftung	11802	17 July.
Explosive. T. H. Kelly, G. W. Bell, and R. N. Kirk	11413	2 March.
Explosive. T. Tevlev	11718	16 June.
Extinguisher, Candle. D. Lea	11462	21 March.
Extinguisher, Spark. J. King	12206	28 Nov.
Extract, Meat. H. A. Somes	11631	18 May.
Eye ointment. D. Madden	11681	6 June.
Facing for steps, bicycle pedals, &c. A. L. P. Chasles	12190	23 Nov.
Fan, and motor therefor. J. Rees and J. Wren	11584	3 May.
Fare receiver and recorder. G. H. Green	12189	23 Nov.
Fastener. (See Belt-fastener, Broom-fastener, Chain-fastener, Handle-fastener, Horsecover-fastener, Lock, Mail-bag-fastener, Sash-fastener, Spur-fastener, Window-fastener.)		
Fastening-driver. McKay Shoe Machinery Company	12115	25 Oct.
Fat-separator. J. Gommesen	11682	6 June.
Fats and oils from liquids, Recovering. J. Ashdown	11513	6 April.
Faucet, Measuring. G. B. Webb	12047	4 Oct.
Feed for seed-drill. A. L. Smith and W. P. Young	11940	31 Aug.
Feed-regulator for table used in treatment of auriferous sand. G. Woolhouse	11909	17 Aug.
Feed-roller of chaff-cutter. M. Brown	12134	7 Oct.
Feeder, Ore. W. Hosking	11932	13 Sept.
Felt, Sarking for carrying roofing. H. Dalton	11866	7 Aug.
Fence. S. W. Shaw	11414	3 March.
Fence-clamp. D. W. Aylworth	11647	25 May.
Fencing-dropper. A. Lavery and M. F. Bourke	12116	24 Oct.
Fencing-dropper. C. McLeod	11936	13 Sept.
Fencing-dropper, Wire. J. W. Manchec	11798	17 July.
Fencing, Post-and-wire. B. Dawson	11555	26 April.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Fencing-standard. R. A. Crook	11518	10 April.
Fencing-standard. H. Schlaadt	11430	3 March.
Fencing-standards and -droppers, Securing wires in. E. Smethurst	11447	14 March.
Fencing-standards, Punching. R. A. Crook	11440	10 March.
Fencing-tool. R. Crawford	11671	5 June.
Fern-cutter. E. Riley, jun	11676	6 June.
Fertilisers from blood, Manufacture of. H. A. Somes	11629	18 May.
Fertilizers from digester soup, Manufacture of. H. A. Somes	11630	18 May.
Fibre-compressor. G. A. Lowry	11951	4 Sept.
Fibre dressing-machinery. A. L. J. Tait	11422	2 March.
Fibre. (See also Flax, <i>Phormium tenax</i> .)		
Filter. D. R. S. Galbraith	11730	17 June.
Filter. G. A. Abbott, A. L. Campbell, and N. Guthridge	12226	7 Dec.
Filter. J. H. W. Kater	12158	8 Nov.
Filtering oil, Apparatus for. R. K. Williams	11801	17 July.
Fire-alarm. C. May	11360	3 Feb.
Fire-alarm, Electric. C. Nixon	11435	9 March.
Fire-bars, &c., for locomotive-engine. E. Richardson	12214	1 Dec.
Fire-escape. A. Brown	11304	11 Jan.
Fire-escape. W. J. Brown	11410	28 Feb.
Fire-escape. T. Firth	11660	30 May.
Fire-escape. P. A. Hadley	12059	3 Oct.
Fire-escape. W. Nicholson and E. Larcomb	11303	11 Jan.
Fire-escape. W. Nicholson and E. Larcomb	11475	23 March.
Fire-escape. R. O'Donovan	11316	12 Jan.
Fire-escape. P. Stephenson	11485	27 March.
Fire-escape. J. Torrens	11899	14 Aug.
Fire-escape. R. A. Woodger	11343	30 Jan.
Fire-escape ladder. J. and T. Patchett	11402	24 Feb.
Fire-escape ladder. F. J. Watty and T. Gordon	11755	29 June.
Fire-extinguishing apparatus. C. May	11360	3 Feb.
Fire-shutter for windows, doors, &c. E. Stevens	11863	5 Aug.
Fireplace appliances. W. E. Hughes	11515	6 April.
Fireplace draught-regulator. E. Shadgett	11971	9 Sept.
Fireplace screen. W. Withers	11387	9 March.
Fireproof solutions, Impregnating wood with. J. L. Terrell	11412	28 Feb.
Fire-screen for windows and doors. E. Stevens	11863	5 Aug.
Fish-hook. A. Morrow	11877	8 Aug.
Fish-plate fastening. A. R. Pullen	12266	28 Dec.
Flavouring tea. A. H. Krause	11286	4 Jan.
Flax, Bleaching and cleaning. G. W. Plummer	11712	9 June.
Flax-dressing apparatus. G. J. Leech	11751	27 June.
Flax-drying, bleaching, and fielding-machine. F. Clifford	12261	21 Dec.
Flax-heckling machine. W. and A. Ross	11619	9 May.
Flax-scutching. E. J. De Courcy	12249	21 Dec.
Flax-stripper. J. Buckman	11965	7 Sept.
Flax-stripper. W. Toogood	11362	10 Feb.
Flax. (See also Fibre, <i>Phormium tenax</i> .)		
Floor-cloth, Manufacture of mosaic. F. Walton	11454	16 March.
Flue-door, Grate. N. A. Hemus	11823	21 July.
Flue-dust or fumes from metallurgical furnaces, Recovery of gold from. F. Ellershausen	12021	28 Sept.
Fluids or gases, Refrigerating or liquefying aeriform. The General Liquid Air and Refrigerating Company	11424	7 March.
Fluke-worm specific. R. Evens	11549	22 April.
Flushing-cistern, Closet. J. M. Taylor and H. Oakley	12234	12 Dec.
Flushing-valve. W. E. Hughes	12049	4 Oct.
Fly-repelling composition. H. T. Hill	11389	18 Feb.
Food. Bergl Australia, Limited, and J. W. C. Hamilton	11281	4 Jan.
Food. I. A. Timmis	11888	14 Aug.
Food, Preserving. W. Lanwer and E. Rüping	11900	18 Aug.
Foot-protector for railway-points. R. Stevens	11428	7 March.
Fountain-pen. W. H. Boyens	11851	2 Aug.
Frame, Cycle. F. W. Parsons and W. E. Campbell	11987	13 Sept.
Frame for tins. W. E. Potts	11780	6 July.
Freezing-chambers, Method of clearing snow from cooling pipes of. A. H. Chapman	12035	27 Sept.
Freezing-chambers, Construction of walls of. A. H. Chapman	11437	11 March.
Freezing in pumps, Prevention of. J. Park and G. A. Avey	12063	7 Oct.
Fruit-cutter and grater. D. Whitburn	11945	31 Aug.
Frying-pan cover. H. Anscombe	11772	1 July.
Fuel. J. H. Gardner and W. C. Greig	11338	25 Jan.
Fuel. J. Hemingway	11953	4 Sept.
Fuel-economiser. C. H. Gould	12263	28 Dec.
Fuel-economiser and spark-arrester. E. A. Cameron	11489	24 March.
Fuel, Peat. A. A. Dickson	11605	11 May.
Fumes from metallurgical furnaces, Treatment of. F. Ellershausen	12021	28 Sept.
Fumes, Recovering gold from. C. H. Ward and E. W. Thomas	12215	1 Dec.
Fumes, Recovering gold from. C. H. Ward and E. W. Thomas	12216	1 Dec.
Funnel for filling bottles, &c. J. S. White	11637	16 May.
Furnace. L. C. Auldjo	11500	30 March.
Furnaces, Apparatus for charging railway rails into. E. McKenna	11459	20 March.
Furs, skins, &c., Liming. J. and E. E. Pullman and E. E. M. Payne	11378	16 Feb.
Fuse-block for electric circuit. J. P. Campbell	11947	2 Sept.
Fuse-block for electric circuit. W. E. Hughes	11695	8 June.
Galvanic battery. The Doe Portable Electric Light and Power Syndicate (Limited)	11741	23 June.
Game, Race. G. McMullen and J. H. Joseph	11959	4 Sept.
Gardening tool. T. Dawes	11861	2 Aug.
Garment, Bullet-resisting. J. Shepherd	11893	15 Aug.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued*.

Invention, and Name of Inventor.	No.	Date.
Garment pocket. E. Nable	11985	13 Sept.
Garments, Joining seams of mackintosh. J. M. Morran	11547	13 April.
Gas-burner, Igniting device for. A. J. Sterne	11765	3 July.
Gases, Refrigerating or liquefying aeriform fluids or. The General Liquid Air and Refrigerating Co.	11424	7 March.
Gas, Hydrocarbon. J. Miller	12138	3 Nov.
Gaslight, Incandescent. Kugellicht Gesellschaft mit beschränkter Haftung	11559	26 April.
Gas mantle, Incandescent. F. Isitt	11805	12 July.
Gas-meter attachment for indicating leakage. A. M. Legge and E. H. Craddock	11540	14 April.
Gas or air compressor. F. Isitt	11915	22 Aug.
Gas or internal combustion engine. W. L. Corson	11627	12 May.
Gas, Utilising natural. J. S. Allan	11364	6 Feb.
Gas. (See also Acetylene.)		
Gate. W. A. Murray	12154	3 Nov.
Gear, Horse-. A. H. O. Kempthorne	11867	7 Aug.
Gear wheel. W. H. Trengrove	11774	5 July.
Gelatinising brewing-grain. A. J. Metzler	11988	13 Sept.
Generator. (See Acetylene-generator, Current-generator, Steam-generator.)		
Gloves for sporting purposes. J. J. Harris and E. Toft	12237	14 Dec.
Gold and silver from cyanide solutions, Recovering. D. and J. Avery	11854	8 Aug.
Gold and silver from cyanide solutions, Recovering. W. A. Koneman	11348	1 Feb.
Gold and silver from ores, Extracting. C. H. Izard	12129	30 Oct.
Gold and silver ores, Treating. J. Smith	12163	10 Nov.
Gold dredge, Screen for. J. C. McGeorge	11886	11 Aug.
Gold-dredging bucket. J. Ward	12110	20 Oct.
Gold-dredging diving-gear. P. Lanigan	11870	5 Aug.
Gold from chloride or bromine solutions, Precipitating. F. W. Martino and F. Stubbs	11556	26 April.
Gold from fumes, Recovering. C. H. Ward and E. W. Thomas	12215	1 Dec.
Gold from fumes, Recovering. C. H. Ward and E. W. Thomas	12216	1 Dec.
Gold from ironsand, Separating. A. Howe	11301	7 Jan.
Gold from ores, Obtaining. H. L. Sulman	11394	23 Feb.
Gold from river-beds, Obtaining. J. Werner	11977	12 Sept.
Gold from rocky bottoms. J. Thomson	12222	2 Dec.
Gold-mining and prospecting appliance. J. Smail	12198	21 Nov.
Gold-mining dredge. W. L. Page and G. P. Mollison	12099	14 Oct.
Gold-mining purposes, Damming rivers for. A. Smith	11739	12 July.
Gold-prospecting implement. H. August and R. C. Miller	11968	6 Sept.
Gold, Raising. J. Thomson	12222	2 Dec.
Gold-recovering devices. C. Todd	12209	28 Nov.
Gold-recovery by cyanide solutions. A. F. Crosse	12053	5 Oct.
Gold-saving. C. A. Ulrich	11373	15 Feb.
Gold-saving apparatus. A. J. Park	11894	15 Aug.
Gold-saving apparatus. J. R. Park	12267	9 Dec.
Gold-saving apparatus. H. Symes	11769	5 July.
Gold-saving apparatus. S. Gibbons and O. Pedersen	12106	21 Oct.
Gold-saving apparatus. T. Spear	12018	27 Sept.
Gold-saving apparatus. W. A. Shore and J. White	11768	5 July.
Gold-saving apparatus. W. Wood	11764	3 July.
Gold-saving blanketing. M. G. Heeles	11598	8 May.
Gold-saving block, Quicksilvered. D. W. Cotton and J. F. W. H. Schadick	12147	2 Nov.
Gold-saving machine. J. Tyson	11638	22 May.
Gold-saving mat. R. Hay and R. C. White	12240	11 Dec.
Gold-saving mat. W. A. Shore	11616	12 May.
Gold-saving plant, Cover for. J. W. Faulkner	12231	8 Dec.
Gold-saving plate. R. L. Christie and C. A. Hudson	12144	2 Nov.
Gold-saving screen. J. R. Park	12267	29 Dec.
Gold-saving screen. W. J. Roebuck	11596	5 May.
Gold-saving table. R. Cockerell	11750	23 June.
Gold-saving table. S. L. P. Free	12112	23 Oct.
Gold-saving table. J. R. Park	12267	29 Dec.
Gold-saving table. R. Payne	12218	30 Nov.
Gold separator and amalgamator. D. Parker	11479	23 March.
Gold-separator, Magnetite sand and. D. McFarlane	11756	27 June.
Gold, silver, tin, &c., Recovering. J. C. Fraser	12135	30 Oct.
Gold wash, Separating magnetic sand from. F. W. Payne	12232	11 Dec.
Golosh. H. Corrick	12007	22 Sept.
Golosh. (See also Boot, Sandal, Slipper.)		
Governor and valve combined. D. A. Whyte	11569	24 April.
Grain-drill. Bickford and Huffman Company	11649	25 May.
Grain, Gelatinising brewing-. A. J. Metzler	11988	13 Sept.
Grain-stack covering. G. L. Thomson	11510	5 April.
Grain, Steeping. H. House, A. Loughrey, J. A. Holmes, and R. Tomline	11783	13 July.
Graphophone. R. L. H. Murray	11554	25 April.
Grass twine, Apparatus for making. G. A. Lowry	11952	4 Sept.
Grate-flue, Door for. N. A. Hemus	11823	21 July.
Grater, Fruit and vegetable cutter and. D. Whitburn	11945	31 Aug.
Grates, &c., for locomotive engine. E. Richardson	12214	1 Dec.
Grease separator. J. Gommessen	11682	6 June.
Grid or broiler. J. J. Pearse	12008	22 Sept.
Grinding-machine for harvester knives. W. E. Hughes	12257	21 Dec.
Grinding-mill, Ball. W. Stamm	11650	25 May.
Grinding- or crushing-rolls. T. A. Edison	12023	28 Sept.
Grip, Bench-. W. B. O'Toole	11949	31 Aug.
Grip for use in sewing up woolpacks. W. K. Elder	11299	5 Jan.
Grubber. D. Dooling	12090	16 Oct.
Guide, Belting. D. W. Bodle	11808	15 July.
Gum-elastic, Disvulcanizing. A. E. J. V. J. Theilgaard	11707	12 June.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Gum from <i>Phormium tenax</i> , Extracting. R. H. Smale, J. Hay, and E. Hartwell ..	11592	3 May.
Gum, Utilizing kauri-. D. R. S. Galbraith and A. Robins ..	11469	18 March.
Gun-carriage brake. A. Stevens and W. S. Penney ..	12120	27 Oct.
Hair-curler. M. E. Cox and H. Bell ..	11653	25 May.
Hair-curler. D. Whitburn and P. H. Basley ..	11931	23 Aug.
Hair-pin. E. R. Godward ..	11878	8 Aug.
Hair-pin. J. Brokensha ..	12211	27 Nov.
Hair-pin. J. D. Walsh ..	12073	10 Oct.
Hair-wash. R. Eagleton and A. Kohn ..	11792	11 July.
Hammer, Stonebreakers'. G. Girling ..	11702	9 June.
Hand-shield for cyclist. F. G. Mumford and F. Sparrow ..	11590	4 May.
Handle adjustment, Velocipede. T. Gallagher ..	11709	12 June.
Handle-fastener. F. H. Jackson ..	11398	24 Feb.
Harbours, Preventing accumulation of sand, &c., in. E. Maxwell ..	11956	4 Sept.
Harness, Saddle. F. Rathbone, S. Bates, and W. Miner ..	11334	25 Jan.
Harness, Trotting- or racing-. J. T. Murphy ..	11910	22 Aug.
Harrow, Disc-. B. Shears ..	11882	10 Aug.
Harvester. Deering Harvester Company ..	11529	14 April.
Harvester-knives, Grinding-machine for. W. E. Hughes ..	12257	21 Dec.
Harvesting machinery. J. Macalister ..	11340	24 Jan.
Heat cycle for steam-engine. L. C. Auldjo ..	11835	27 July.
Heat of ovens, Regulator for. E. Smethurst ..	12223	4 Dec.
Heater. (See Steam-heater, Water-heater.) ..		
Heating appliances, Electrical. J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, A. Jörg ..	11744	*24 Aug. '98
Heating, Electrical. The Linotype Company (Limited) ..	11859	*4 Feb. '98
Heating irons, Stove for. A. Tzamis ..	12156	10 Nov.
Heating milk, &c., before separating, Apparatus for. F. W. Okey ..	11754	19 June.
Heating rooms, &c. T. White ..	11420	2 March.
Heckling-machine, Flax. W. and A. Ross ..	11619	9 May.
Heel, Boot-. A. Tindill ..	11874	10 Aug.
Heel-breasting machine. W. E. Hughes ..	12225	7 Dec.
Hermetically sealing cans or vessels. E. Norton ..	11417	3 March.
Hides and skins, Curing and preserving. J. W. C. Hamilton and J. A. Linley ..	11280	4 Jan.
Hides and skins for tanning, Dehairing. A. J. Cumming ..	11916	21 Aug.
Hides and skins, Tanning and colouring. G. D. Burton ..	11842	26 Jan.
Hides and skins, Unhairing. G. D. Burton ..	11341	26 Jan.
Hoe, Horse-. T. E. Martin ..	11889	14 Aug.
Hoist. B. G. A. Harkness ..	11831	27 July.
Holder. (See Paper-holder, Rein-holder, Sash-holder, Sheep-holder.) ..		
Hook-and-eye. C. McKenzie ..	12229	5 Dec.
Hook, Draught. W. Tremain ..	12260	27 Dec.
Hook, Fish-. A. Morrow ..	11877	8 Aug.
Horse boot. P. A. Vaile ..	11668	30 May.
Horse-clipper. C. H. Izard ..	11613	11 May.
Horse, Clothes-. W. S. and R. M. Maunder ..	12221	5 Dec.
Horse-gear. A. H. O. Kempthorne ..	11867	7 Aug.
Horse-cover. H. Dell ..	11906	16 Aug.
Horse-cover. T. Hawke ..	11865	3 Aug.
Horse-cover. E. Jones ..	11464	21 March.
Horse-cover. C. Menli ..	11506	4 April.
Horse-cover. M. Ramson ..	11727	20 June.
Horse-cover. J. Robinson ..	11767	3 July.
Horse-cover. W. H. Travis ..	11442	2 March.
Horse-cover. R. F. Webster ..	11748	23 June.
Horse-cover. J. Wiseman ..	11329	19 Jan.
Horse-cover. R. Zinsli ..	11419	1 March.
Horse-cover attachments. P. Woods ..	12006	19 Sept.
Horse-cover fastener. C. H. Hansen ..	11522	7 April.
Horse- or cow-cover. T. S. Skeats ..	11573	28 April.
Horse- or cow-cover. J. Temperley ..	11776	8 July.
Horseshoe nail. W. J. Beck ..	11645	22 May.
Horseshoe racing-plate. C. Tandy ..	12180	16 Nov.
Horse-traction gear. J. McIntyre ..	12203	12 Dec.
Horses, Controlling. D. R. S. Galbraith ..	11388	16 Feb.
Horses, Means of keeping flies off. H. T. Hill ..	11389	18 Feb.
Horses, Medicine for cure of bots in. A. J. Knocks ..	11443	14 March.
Hotchkiss boiler-cleaner. A. Price ..	11624	13 May.
Hot-water bag, Combined syringe, enema, and. E. W. Hall ..	11860	2 Aug.
House-block. A. H. Bowell ..	11564	22 April.
Hydraulic ram. W. Angus ..	11427	7 March.
Ice, Clearing, from cooling pipes. A. H. Chapman ..	12035	27 Sept.
Igniting-device for gas-burner. A. J. Sterne ..	11765	3 July.
Incandescent gas light. Kugellicht Gesellschaft mit beschränkter Haftung ..	11559	26 April.
Incandescent gas-mantle. F. Isitt ..	11805	12 July.
Incandescent lamp. W. Nernst ..	11322	18 Jan.
Incandescent lighting, Burner for. L. Hooker ..	11309	12 Jan.
Indiarubber, Disvulcanising. A. E. J. V. J. Theilgaard ..	11707	12 June.
Indiarubber, Utilising. R. C. Trevor ..	11351	31 Jan.
Indicating results of races, Apparatus for. D. C. Carr ..	11999	20 Sept.
Indicator for crossings, Train-. H. J. Gibbons and E. T. A. Basan ..	11810	20 July.
Induction motor. B. G. Lamme ..	11531	14 April.
Induction motor. J. P. Campbell ..	12030	29 Sept.
Injector, Quicksilver. D. W. Cotton and J. F. W. H. Schadick ..	12146	2 Nov.
Ink. H. M. and J. Levinge ..	12033	30 Sept.
Inking-pad. A. C. Kley ..	12079	13 Oct.
Ink-well. E. R. Godward ..	11850	29 July.
Insole, Ventilating boot-. A. Buchanan ..	11688	2 June.
Internal-combustion engine. E. Waters, jun. ..	12002	20 Sept.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Internal-combustion engine. R. Diesel	12164	10 Nov.
Iron, Attachment of corrugated, to buildings. W. E. Hughes	12107	21 Oct.
Iron for finishing edges of boot sole. E. Day	11551	20 April.
Iron for finishing edges of boot sole. E. Day	11794	13 July.
Ironsand, Melting. J. O. Gardner	11891	12 Aug.
Ironsand, Separating gold from. A. Howe	11301	7 Jan.
Irons, Stove for heating. A. Tzamis	12156	10 Nov.
Jack for nailing- and slugging-machine. McKay Shoe Machinery Company	12162	10 Nov.
Jack. (See also Lifting-jack, Stump-jack, Timber-jack.)		
Jars, Closing provision-. E. Waters, jun.	11766	18 July.
Jointing wood with wood, stone, &c. F. W. Commons	11833	27 July.
Judges' recorder for sports, &c. E. Burton and R. B. Echlin	12254	21 Dec.
Jug. W. N. E. Mason and J. Wright	12083	13 Oct.
Joint. (See Board-joint, Rail-joint.)		
Kauri gum, Utilising. D. R. S. Galbraith and A. Robins	11469	18 March.
Kerosene-pump. H. S. Mozart	11983	13 Sept.
Key, and cutter, Combined wire-strainer. J. Hair	11858	1 Aug.
Key, Combined wire-strainer, cutter, and. J. Rapson	11967	5 Sept.
Key for timber-jack. A., E., and A. McLeod	11934	26 Aug.
Kiln. T. Hodgkinson	11594	1 May.
Knife-cleaner. D. Stuart	12207	28 Nov.
Knife-cleaner. H. A. Fry	12062	7 Oct.
Knife-cleaner. F. A. Warner	12157	10 Nov.
Knife-cleaner. R. A. C. Kerry	11864	3 Aug.
Knife-cleaner. R. P. Fincham	12044	2 Oct.
Knives, Grinding-machine for harvest-. W. E. Hughes	12257	21 Dec.
Knitting-machine. B. Kershaw	11921	24 Aug.
Lacing boots. A. de R. Brandon	11869	4 Aug.
Ladder and shelf combined, Step-. C. E. Page	11429	6 March.
Ladder, Dredging-. E. Roberts	11779	6 July.
Ladder, Fire-escape. J. and T. Patchett	11402	24 Feb.
Ladder, Fire-escape. F. J. Watt and T. Gordon	11755	29 June.
Lamp. G. E. Adlard	11505	4 April.
Lamp. A. Kitson	11566	27 April.
Lamp. W. E. Hughes.	11834	27 July.
Lamp, Arc-. H. P. Davis and F. Conrad	11355	2 Feb.
Lamp-bracket, Cycle parcel-rest and. R. Latta	11787	13 July.
Lamp, Electric. W. Nernst	11322	18 Jan.
Lamp, Hand-signalling-. G. A. Pearson	11670	5 June.
Lamp, Lighthouse. E. S. Baldwin	11580	3 May.
Last, Boot. J. Moran	11578	3 May.
Launching stranded vessel. M. J. Corbett	12160	1 Nov.
Laundry-iron, Acetylene-gas. J. Miller.	12100	14 Oct.
Leaching ores. G. D. Delprat, E. J. Horwood, and G. C. King	12204	28 Nov.
Lead carbonate (PbCO ₃), Manufacturing. F. J. Corbett	12150	2 Nov.
Lead-headed nail. J. Venables	11384	15 Feb.
Lead-heading nails. J. Welsby and H. G. Bedell	12117	26 Oct.
Leather, Treating. R. B. Arthur	11907	16 Aug.
Leaves, Music. E. B. Vaile	12095	16 Oct.
Leggings. D. Whitburn	12105	18 Oct.
Lettering, symbols, &c., Method of producing. J. Mitchell	11926	21 Aug.
Lever. D. Donald	11314	13 Jan.
Lever, Rocking. R. Cockerell	11803	14 July.
Lid or cover for vessel. W. E. Shaw	12092	16 Oct.
Lifting-jack. L. S. de Cleene	11656	26 May.
Lifting-jack. W. H. Steenson	11482	22 March.
Lighthouse-lamp. E. S. Baldwin	11580	3 May.
Light, Incandescent gas-. Kugellicht Gesellschaft mit beschränkter Haftung	11559	26 April.
Lights for pianos, &c., Reflector-. J. Campbell and L. R. Davis	12081	13 Oct.
Liming furs, skins, &c. J. and E. E. Pullman and E. E. M. Payne	11378	16 Feb.
Link for dredge bucket. W. H. Cutten	11371	14 Feb.
Link, Sleeve. A. Baker	11914	22 Aug.
Linotype machine. E. Waters, jun.	12141	4 Nov.
Linotype machine. E. Waters, jun.	12142	4 Nov.
Linotype machine, Electrical melting for metal-pot of. The Linotype Company, Limited	11359	*4 Feb., '98
Linotype machine, Treadle attachment for. A. A. Whitelaw	11911	22 Aug.
Liquefying aeriform fluids or gases, Refrigerating or. The General Liquid Air and Refrigerating Company	11424	7 March.
Liquid-measuring and -supplying apparatus. J. Marchbank	11284	4 Jan.
Liquids, Apparatus for measuring. E. M. Wildey	11542	18 April.
Liquids, Carbonating. P. E. Malmstrom and O. W. Ackerman	11434	9 March.
Liquids, Drawing off. W. Turnbull	11386	18 Feb.
Liquids, Evaporating, &c. E. Shaw	12270	30 Dec.
Liquids, Separation of solids from. W. Cutten	12036	29 Sept.
Liquids, Sterilising by ozone. H. Tindal	12072	9 Oct.
Liquors, Cooling ale and other malt. W. Stock and R. Williams	12126	26 Oct.
Liver and stomach complaints, Medicine for cure of. F. Curtis	11503	30 March.
Loading-apparatus. R. Perkins and J. Swann	12228	7 Dec.
Loading coal, grain, &c., into ships' holds. J. Gibson	11989	13 Sept.
Locking bicycle-wheels. W. Morris	11568	25 April.
Lock, Window. J. G. Lusk	11526	14 April.
Lock, Window-sash. C. C. Morris	11401	23 Feb.
Locomotive engine, Fire-bars, &c., for. E. Richardson	12214	1 Dec.
Logging apparatus, Stumping and. H. J. Unwin and J. Wyatt	11516	5 April.
Loom. D. M. Seaton	12121	27 Oct.
Lubricator for dredge-tumblers. W. Cutten	12038	29 Sept.
Luggage-carrier and seat for bicycle. J. W. Buckley	11758	28 June.
Lumber. D. Gilmour	12055	5 Oct.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Lumber. D. Gilmour	12088	14 Oct.
Mackintoshes, Joint for Seams of. J. M. Morran	11547	13 April.
Magnetic magnetite-sand and gold separator. D. McFarlane	11756	27 June.
Magnetic sand-separator. F. W. Payne	12232	11 Dec.
Magnetic sand-separator. F. W. Mackenzie and R. S. Smith	12104	20 Oct.
Magnetic separator. C. F. Courtney and R. Butterworth	11901	18 Aug.
Magnetic separator. C. F. Courtney and R. Butterworth	11902	18 Aug.
Magnetic separator. C. F. Courtney and R. Butterworth	11903	18 Aug.
Magnetic separator. Metallurgische Gesellschaft A.-G.	11311	12 Jan.
Magnetite sand- and gold-separator. D. McFarlane	11756	26 June.
Mailbag-fastener. H. F. Malcolm	11673	6 June.
Mantle, Incandescent gas-. F. Isitt	11805	12 July.
Manure- and seed-drill. C. McLeod	11306	11 Jan.
Manure- and seed-sower. E. G. Rawnsley	11972	8 Sept.
Manure- and seed-sower and cultivator and ridger. A. Storrie	11411	28 Feb.
Manure- and seed-sowing machinery. A. J. Cuming	11883	10 Aug.
Manure-discharge for agricultural drills and sowers. P. and D. Duncan, Limited	11875	9 Aug.
Manure-mixer, Chemical. J. Wright, W. Andrews, and A. W. Beaven	12066	6 Oct.
Marine-engine regulator and controller. A. M. Rust	12067	6 Oct.
Marine propulsion. J. A. Secor	12024	28 Sept.
Mark, Ear-. G. Hall and O. Deacon	12043	30 Sept.
Marker, Meat-. A. J. Cuming	11700	8 June.
Marking-apparatus. A. C. Kley	12078	13 Oct.
Marking butter-boxes, Stamping or. O. Wakelin	11654	25 May.
Marking rails and styles for doors, frames, &c., Device for setting-out and. G. H. and D. Little	11892	12 Aug.
Marking sheep. G. Renner and W. H. Boyens	11574	2 May.
Mat, Gold-saving. W. A. Shore	11616	12 May.
Mat, Gold-saving. R. Hay and R. C. White	12240	11 Dec.
Match. S. L. Fog and A. G. Kirschner	11992	15 Sept.
Match. W. P. Jones and H. M. Bates.. .. .	12251	21 Dec.
Matches into boxes, Machine for inserting. R. J. McKee and W. McLay	11520	13 April.
Mattress. (See Wire mattress.)		
Mattresses, Spring-bottom for wire. A. Richards	11502	28 March.
Measurer, Timber-. J. Shepherd	12217	30 Nov.
Measuring faucet. G. B. Webb	12047	4 Oct.
Measuring instrument, Alternating-current. H. P. Davis and F. Conrad	11495	29 March.
Measuring instrument, Electrical. J. P. Campbell	11829	26 July.
Measuring liquids, Apparatus for. E. M. Wildey	11542	18 April.
Meat extract. H. A. Somes.. .. .	11631	18 May.
Meat-brand. M. Belk	11973	11 Sept.
Meat-marker. A. J. Cuming	11700	8 June.
Meat, Preserving. A. Grant	12093	13 Oct.
Meat-preserving method. A. Grant	12041	28 Sept.
Meat, Soluble albuminoids of. J. W. C. Hamilton and J. A. Linley	11811	20 July.
Medicinal-bath apparatus, Electric or. C. E. Schnée	11922	24 Aug.
Medicine. F. Curtis	11503	30 March.
Medicine, Horse-. A. J. Knocks	11443	14 March.
Medicine, Sheep-. A. and J. Allison	11302	10 Jan.
Melting, Electrical. The Linotype Company, Limited	11359	*4 Feb.'98.
Melting ironsand. J. O. Gardner	11891	12 Aug.
Metallurgical furnaces, Treatment of dust from. F. Ellershausen	12021	28 Sept.
Metals from ores, Extracting. F. B. Aspinall and E. C. Ekstromer	11293	9 Jan.
Metal sheet moulding-machine. E. Jordan and G. T. Rogers	11614	12 May.
Metals, Precipitating, from cyanide solutions. F. W. Martino and F. Stubbs	11486	28 March.
Metals, Recovery of precious. J. C. Fraser	12135	30 Oct.
Meter. I. Smith	12191	23 Nov.
Meter, Electric motor or. H. P. Davis and F. Conrad	11465	21 March.
Meter, Liquid. I. Smith	11706	12 June.
Meter, Leakage-indicator for gas-. A. M. Legge and E. H. Craddock	11540	14 April.
Milk-aerator. A. Billens	11868	7 Aug.
Milk-aerator and -cooler. H. Hodgson.. .. .	12220	5 Dec.
Milk-aerator and -cooler. J. B. Johnson	11887	14 Aug.
Milk and cocoa and chocolate products. A. Denaeayer	12014	*2 Feb.
Milk, Appliance for straining and conveying, to aerator. W. T. Bowater	11964	6 Sept.
Milk-can cover. J. M. Arundel and T. McGregor	12140	1 Nov.
Milk-cooler. T. Shale	12051	2 Oct.
Milk for butter-fat, Testing. W. J. McVeigh and G. Lyell, jun.	11738	21 June.
Milk, Heating. F. W. Okey	11754	19 June.
Milk-jug. J. Wright and W. N. E. Mason	12083	13 Oct.
Milk-measuring and -supplying apparatus. J. Marchbank	11284	4 Jan.
Milk-pail, Strainer for. D. McKay	11604	9 May.
Milk pasteuriser and cooler. T. Shale	12051	2 Oct.
Milk preserving. W. E. Hughes	11560	26 April.
Milk, Sampling. D. Hutchinson	11791	13 July.
Milk, Sterilising. N. Bendixen	11488	28 March.
Milk-weighing apparatus. A. C. Christiansen	11312	11 Jan.
Milking-apparatus. Clemens, Baron von Bechtolsheim	11491	29 March.
Milking-apparatus. G. Siemsglüss and G. Daseking	11439	11 March.
Milking-appliance. J. C. Duigan	11994	15 Sept.
Milking-machine. G. Siemsglüss and G. Daseking	11438	11 March.
Mill. (See Ball-mill, Cement pulverising mill, Stamp-mill.)		
Mines, Ventilating. H. Fullwood	11473	23 March.
Mines, Ventilating and working. J. G. Massie	11393	23 Feb.
Mining apparatus, River-bed-. H. A. Saltmarshe	11498	30 March.
Mixing- or whisking-machine. W. K. and J. S. Baker	11561	26 April.
Moistening adhesive surfaces, Device for. R. M. Hathaway and J. Robertson	11477	23 March.
Mop. W. Dabb	11742	26 June.
Mosaic floor-cloth, Manufacturing. F. Walton	11454	16 March.
Motor. A. A. N. Howes and R. G. Applegarth	11406	27 Feb.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—continued.

Invention, and Name of Inventor.	No.	Date.
Motor. I. Smith	12191	23 Nov.
Motor. (See also Electric motor, Induction motor, Rotary motor, Steam motor, Synchronous motors.)		
Motor for fans. J. Rees and J. Wren	11584	3 May.
Motor vehicle. J. Pender	11703	12 June.
Moulding machine, Butter-. W. B. Dick	11725	14 June.
Moulding machine, Metal sheet. E. Jordan and G. T. Rodgers	11614	12 May.
Mud-guard and tire-cleaner, Bicycle. G. H. Fisher	11797	15 July.
Mud-guard for velocipede. A. L. and T. N. Rayward	11288	4 Jan.
Music-leaves. E. B. Vaile	12095	16 Oct.
Mustard-cup. A. Potter	11942	29 Aug.
Mustard-pot. A. H. Cotton	12058	3 Oct.
Nail for corrugated iron. F. Gold	12259	22 Dec.
Nail, Horseshoe. W. J. Beck	11645	22 May.
Nailing and slugging-machine, Jack for. McKay Shoe Machinery Company	12162	10 Nov.
Nail, Lead-headed. J. Venables	11384	15 Feb.
Nails, Leadheading. H. G. Bedell and J. Welsby	12117	26 Oct.
Nails, staples, &c., Tool for drawing. W. Grayson	12196	21 Nov.
Netting machine, Wire-. A. R. Lysaght	11499	30 March.
Newspaper rack. J. B. C. Watt	11369	13 Feb.
Nib, Pen. P. A. Vaile	12042	30 Sept.
Non-refillable bottle. J. Gordon	11331	24 Jan.
Non-refillable bottle. R. J. Farmer	11839	28 July.
Non-refillable bottle. T. J. Lee	11450	16 March.
Non-refillable bottle. W. T. Nuttall	11879	11 Aug.
Nozzle. W. H. Price	11476	21 March.
Nut and washer. J. F. W. H. Schadick	11362	12 Jan.
Nuts, Extracting oil from. T. C. Graham and J. H. and W. K. Kellogg	11391	23 Feb.
Oil. D. R. S. Galbraith and A. Robins	11470	18 March.
Oil, Apparatus for filtering. R. K. Williams	11801	17 July.
Oil, Extracting. H. Sankey and E. Brooke-Smith	11445	15 March.
Oil, Extracting. J. C. W. Stanley and The Fish-oil and Guano Company, Limited	11416	3 March.
Oil from nuts, Extracting. T. C. Graham and J. H. and W. K. Kellogg	11391	23 Feb.
Oils and fats from liquids, Recovering. J. Ashdown	11513	6 April.
Oils, fats, &c., Solutions of sweet carbamides in. A. Sommer	12155	8 Nov.
Ointment, Eye. D. Madden	11681	6 June.
Onions, Stopping growth of. E. Thomas	12244	15 Dec.
Opener, Can. J. A. McPhee	12182	15 Nov.
Opener, Tin. A. Taylor	11937	21 Aug.
Order-book. J. A. Beavis	11927	22 Aug.
Ore, cement, &c., Pulverising. M. J. Davidsen	12173	13 Nov.
Ore concentrator. F. L. Bartlett	11452	16 March.
Ore feeder. W. Hosking	11982	13 Sept.
Ores, Concentrating or separating and amalgamating. G. Fischer	11426	7 March.
Ores containing arsenic, antimony, or tellurium, Treating. E. Petersson	11324	20 Jan.
Ores, Cyanide treatment of. E. Schilz	12098	18 Oct.
Ores, Dressing zinc. A. M. G. Sébillot	12137	3 Nov.
Ore separator. E. Kreuser	11480	23 March.
Ores, Extracting bismuth and antimony from. J. Ranald	11904	18 Aug.
Ores, Extracting metals from. C. H. Izard	12129	30 Oct.
Ores, Extracting metals from. F. B. Aspinall and E. C. Ekstromer	11293	9 Jan.
Ores, Leaching. G. D. Delprat, E. J. Horwood, and G. C. King	12204	28 Nov.
Ores, Obtaining gold from. H. L. Sulman	11394	23 Feb.
Ores, Pulverising. M. J. Davidsen	12173	13 Nov.
Ores, Recovering zinc from sulphide. J. Gitsham	12194	23 Nov.
Ores, Smelting. F. Ballou	12188	23 Nov.
Ores, Treating. G. de Bechi	11693	*4 Nov. '98.
Ores, Treating. J. Smith	12163	10 Nov.
Ores, Treating roasted. W. A. Koneman	11349	1 Feb.
Ores, Treating sulphidic. J. Dick	11723	14 June.
Ores, Treating zinc. A. E. Savage	12069	9 Oct.
Ores, Treatment of, and precipitation of metals from cyanide solutions. F. W. Martino and F. Stubbs	11486	28 March.
Ore-vat. M. Bruce	11620	10 May.
Ore-vat. P. Bey	11606	11 May.
Oven, Regulating heat of cooking-. E. Smethurst	12223	4 Dec.
Ozone, Producing. H. Tindal	12071	9 Oct.
Ozone, Steriliser for liquids by. H. Tindal	12072	9 Oct.
Pack, wool-, Grip for use in sewing up. W. K. Elder	11299	5 Jan.
Packing devices, Rabbit-. F. T. Boys	11399	24 Feb.
Packing material. The Marsden Company	11538	15 April.
Pad, Ink-. A. C. Kley	12079	13 Oct.
Pail, Strainer for Milk-. D. McKay	11604	9 May.
Paint. (See Colouring matter.)		
Pan cover, Frying-. H. Anscombe	11772	1 July.
Paper for press copying, Treating. C. C. Paltridge	12048	4 Oct.
Paper-holder. G. W. Lavender	11481	20 March.
Paper, Machinery for corrugating. G. Leske	11651	25 May.
Parcel-carrier system, Cash and. M. J. Foyer	11514	6 April.
Pasteurising and cooling milk. T. Shale	12051	2 Oct.
Peas, &c., Screen for sampling. F. W. Adams	11749	27 June.
Peat fuel. A. A. Dickson	11605	11 May.
Pedal and crank-head, Cycle-. F. Mitchell and C. Hill	11974	11 Sept.
Pedal and toe-clip, Bicycle-. W. L. Mitchell	11790	13 July.
Pedal, Facing for bicycle-. A. L. P. Chasles	12190	23 Nov.
Peeling potatoes, Appliance for washing and. C. Williams	11597	1 May.
Pen, Fountain. W. H. Boyens	11851	2 Aug.
Pen nib. P. A. Vaile	12042	30 Sept.
Perambulator. T. Ballantine	11747	26 June.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued*.

Invention, and Name of Inventor.	No.	Date.
Perforator for printing-machine, Cutter and. J. H. McMillan, W. Smart, and H. Smith	11457	18 March.
Petroleum-burner. G. Barthel, O. Henckels, and W. de Haas	11418	3 March.
Petroleum-cresset. A. A. Bickerton	11376	14 Feb.
Phonograph. H. L. Short	11680	6 June.
Phonographic records. V. Poulsen	12255	21 Dec.
<i>Phormium tenax</i> , Dressing and extracting gum from. R. H. Smale, J. Hay, and E. Hartwell	11592	3 May.
<i>Phormium tenax</i> , Treating. A. H. Howell and R. W. Allen	11471	20 March.
<i>Phormium tenax</i> , Treating. J. East	12212	28 Nov.
<i>Phormium tenax</i> , Treating. H. Sankey and E. Brooke-Smith	11408	27 Feb.
<i>Phormium tenax</i> , Treating. H. Sankey and E. Brooke-Smith	12165	11 Nov.
<i>Phormium tenax</i> . (See also Fibre, Flax.)		
Physical culture, Dumb-bell for. E. Sandow	12256	21 Dec.
Piano. W. Buchanan	11585	3 May.
Pianoforte. E. and W. G. Munt	12176	15 Nov.
Pianos, Reflector lights for. J. Campbell and L. R. Davis	12081	13 Oct.
Pick-attachment for dredge-tumblers. W. Poppelwell	12201	23 Nov.
Picture-frame. G. W. Lavender	11481	20 March.
Pictures, Exhibiting moving. E. B. Koopman	11608	11 May.
Pin. E. R. Godward	11944	29 Aug.
Pin. M. L. Jackman	12149	2 Nov.
Pin and button combined. J. Torrens	12060	3 Oct.
Pin. (See also Hair-pin.)		
Pipe-coupling. S. R. Dresser	11583	3 May.
Pipe-coupling. S. R. Dresser	12123	27 Oct.
Pipes of freezing-chambers, Method of clearing snow from. A. H. Chapman	12035	27 Sept.
Planing machinery. E. McGregor	11753	29 June.
Plate, Gold-saving. R. L. Christie and C. A. Hudson	12144	2 Nov.
Plate, Printing-. G. R. Hildyard	12236	14 Dec.
Plotting traverses, Device for. W. C. McAlister	11752	27 June.
Plough. R. Tomline and K. Graf	12037	29 Sept.
Plough. R. St. George	12136	30 Oct.
Plough. J. Macalister	12181	15 Nov.
Plough, Subsoiler for. G. Ballard	11599	4 May.
Plough, Subsoiler for. J. Macalister	11735	20 June.
Pneumatic drill. W. E. Hughes	12001	20 Sept.
Pocket, Garment-. E. Nable	11985	13 Sept.
Pollard-cutter, Poisoned. J. E. Jenkinson	11809	18 July.
Polychrome printing-machine. The Simultaneous Colour-printing Syndicate (Limited), and H. de Montin	11461	20 March.
Post-and-wire fencing. B. Dawson	11555	26 April.
Post-holes, Apparatus for sinking. H. A. Scott	11400	22 Feb.
Post-holes, Tool for boring. E. R. Godward	12268	29 Dec.
Potato-digger. D. Buchanan	11492	29 March.
Potato-digger. D. Buchanan	12089	16 Oct.
Potato-digger. L. M. Calvert	11305	11 Jan.
Potatoes, Appliance for washing and peeling. C. Williams	11597	1 May.
Pot, Mustard-. A. H. Cotton	12058	3 Oct.
Power, Distributor of electrical. J. P. Campbell	11919	24 Aug.
Power increasing and transmitting mechanism. F. J. Corbett	11807	12 July.
Precipitating gold from chloride or bromine solutions. F. W. Martino and F. Stubbs	11556	26 April.
Precipitating metals from cyanide solutions. F. W. Martino and F. Stubbs	11486	28 March.
Precipitating. (See also Gold, Ores.)		
Preservative, Egg-. J. T. Norton	12125	24 Oct.
Preserve-tin. A. W. Maconochie	12114	25 Oct.
Preserving. A. Grant	12041	28 Sept.
Preserving. A. Grant	12093	13 Oct.
Preserving hides and skins. J. W. C. Hamilton and J. A. Linley	11280	4 Jan.
Preserving food. W. Lanwer and E. Rüping	11900	18 Aug.
Preserving milk. W. E. Hughes	11560	26 April.
Preserving-retort. J. E. Newton	11601	8 May.
Preserving solutions, Impregnating wood with fireproofing and. J. L. Ferrell	11412	28 Feb.
Preserving timber. W. Cross	11871	9 Aug.
Press-copying paper. C. C. Paltridge	12048	4 Oct.
Press, Wool-. H. Sedcole	11381	16 Feb.
Press, Wool-. R. Tomline and K. Graf	12168	11 Nov.
Printing. G. G. Turri	12187	21 Nov.
Printing and marking apparatus. A. C. Kley	12078	13 Oct.
Printing and transferring mechanism. G. G. Turri	12185	21 Nov.
Printing-bar. E. Waters, jun.	12027	28 Sept.
Printing block or surface. J. J. Joyce	12084	13 Oct.
Printing in colours. F. C. Taylor	11975	7 Sept.
Printing-machine, Cutter and perforator for. J. H. McMillan, W. Smart, and H. Smith	11457	18 March.
Printing-machine, Polychrome. The Simultaneous Colour-printing Syndicate (Limited) and H. de Montin	11461	20 March.
Printing machine, Ticket-. E. Burton and R. B. Echlin	12091	16 Oct.
Printing-plate. G. R. Hildyard	12236	14 Dec.
Printing-surface. G. G. Turri	12186	21 Nov.
Printing-tympan. A. S. Allen	11929	25 Aug.
Projectile or shell. A. H. Cotton and D. R. S. Galbraith	12074	7 Oct.
Propeller. T. Sandiant	11876	3 Aug.
Propeller steering-apparatus. G. Hansen	11923	21 Aug.
Propeller to shaft, Securing. J. W. Fowler	11961	5 Sept.
Propelling apparatus, Vehicle-. A. L. Barber	11862	4 Aug.
Propelling vessels. G. Lindsay	12264	28 Dec.
Propulsion, Marine. J. A. Secor	12024	28 Sept.
Propulsion, Steamship	12130	31 Oct.
Prospecting apparatus. S. Earningham and J. A. Schlaadt	12230	6 Dec.
Prospecting implement, Gold-. H. August and R. C. Miller	11968	6 Sept.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor,	No.	Date.
Prospecting implement, Gold-. J. Smail	12198	21 Nov.
Prospecting-pump. R. McGregor	12028	9 Oct.
Protector, Tire-. J. Seffer	11405	11 March.
Protector, Trouser-. J. Metzger	11885	11 Aug.
Provision-jars, &c., Closing. E. Waters, jun.	11766	18 July.
Provision-tin. A. W. Maconochie	12114	25 Oct.
Pruning-shears. M. Gaffy	11675	6 June.
Pulley. W. Brownlee	11370	13 Feb.
Pulveriser. J. Warren	11374	15 Feb.
Pulverising mill, Cement-. M. J. Davidsen	12174	13 Nov.
Pulverising ore, cement, &c. M. J. Davidsen	12173	13 Nov.
Pump. C. C. Worthington	11285	5 Jan.
Pump. Fraser and Chalmers, Limited.. .. .	12119	27 Oct.
Pump. H. A. and R. J. Hancox	11980	13 Sept.
Pump. I. Smith	11706	12 June.
Pump. I. Smith	12191	23 Nov.
Pump. J. McCulloch	11581	3 May.
Pump. R. McGregor	12028	9 Oct.
Pump. T. Stevenson	11761	30 June.
Pump. W. Griffiths	12246	4 Dec.
Pump. W. H. Heard	11955	4 Sept.
Pumping and winding machinery. J. Symington	11358	2 Feb.
Pump, Kerosene. H. S. Mozart	11983	13 Sept.
Pumps, &c., Preventing freezing in. J. Park and G. A. Avey.. .. .	12063	7 Oct.
Punching fencing-standards. R. A. Crook	11440	10 March.
Punching hole in bull's nose for insertion of ring. J. Clark	11553	20 April.
Punkah. J. G. Massie	12054	5 Oct.
Punt. (See Silt punt.)		
Purifier, Acetylene. The Acetylene Purifying Company, Limited	11939	31 Aug.
Purifying water. F. J. Olsen and E. H. Whitmore	12245	15 Dec.
Pyritic slime separator. A. Maltman	11873	4 Aug.
Quicksilver injector. D. W. Cotton and J. F. W. H. Schadick	12146	2 Nov.
Rabbit-crate. A. P. Schmidt and D. Hannan	11490	24 March.
Rabbit-crate. A. P. Schmidt and D. Hannan	11563	22 April.
Rabbit-crate. J. McQueen	11875	10 Feb.
Rabbit-crate. J. Metzger and R. Cruickshank	11666	30 May.
Rabbit-crate. J. Taylor	11543	18 April.
Rabbit-crate. R. McCulloch and T. Thompson	11658	23 May.
Rabbit-crate. W. Burrell and J. W. Story	11855	3 Aug.
Rabbit-crate. W. Stevenson	11484	27 March.
Rabbit-packing devices. T. T. Boys	11399	24 Feb.
Rabbit-trap. A. E. King	11930	23 Aug.
Rabbit-trap. F. and F. Raper	12109	20 Oct.
Rabbit-trap. F., F., and A. E. Raper	11337	25 Jan.
Rabbit-trap. W. B. Galloway	11595	4 May.
Rabbit-trap, Spring. W. Barr	11759	29 June.
Rabbits, Apparatus for carrying, in railway-van. A. Nelson	11636	16 May.
Race and register for counting sheep. R. W. Green	11762	3 July.
Race-game. G. McMullen and J. H. Joseph	11959	4 Sept.
Race-meetings, Scratching-board for. E. Burton and R. B. Echlin	12253	21 Dec.
Race-meetings, Recorder for. E. Burton and R. B. Echlin	12254	21 Dec.
Race-result indicator. D. C. Carr	11999	20 Sept.
Race-starter. W. M. Turner	11319	18 Jan.
Racing- or trotting-harness. J. T. Murphy	11910	22 Aug.
Racing-plate or horseshoe. C. Tandy	12180	16 Nov.
Rack. J. B. C. Watt	11369	13 Feb.
Rail-joint. A. R. Pullen	12266	28 Dec.
Rail-joint. W. Sandford, W. Thornley, and E. Silcocks	11367	10 Feb.
Rail lifting-jack. W. H. Steenson	11432	22 March.
Rails, Renewing steel. E. W. McKenna	11458	20 March.
Railway rails into furnaces, Apparatus for charging. E. W. McKenna	11459	20 March.
Railway rails, Machine for sawing and straightening. E. W. McKenna	11460	20 March.
Railway brake. E. B. Vaile	11504	30 March.
Railway-car coupling. H. J. Marks	12013	22 Sept.
Railway-car coupling. R. S. Reid	11796	15 July.
Railway-carriage coupling. A. Dornbusch	12262	27 Dec.
Railway-carriage coupling. T. H. Patching	11732	22 June.
Railway, Electric. G. Westinghouse, C. A. Terry, and H. P. Davis	11536	15 April.
Railway points. R. Stevens	11428	7 March.
Railway signals. J. Avery	11760	29 June.
Railway van, Apparatus for carrying rabbits in. A. Nelson	11636	16 May.
Railway-vehicle coupling. G. B. Beere	11837	24 July.
Railway-vehicle coupling. J. Lowden	11778	5 July.
Railway vehicles, Buffer and draw-gear for. W. R. S. Jones	11436	11 March.
Raising gold. J. Thomson	12222	2 Dec.
Raising ships. W. Fitzpatrick	12143	1 Nov.
Raising water. C. L. O'Brien	12167	11 Nov.
Raising water. Fraser and Chalmers (Limited)	11633	6 June.
Raising water. I. L. Lewis	11721	29 May.
Raising water. J. Welsby and H. G. Bedell	11848	1 Aug.
Ram, Hydraulic. W. Angus	11427	7 March.
Reading-desk, and cupboard, Clinical table. H. C. Franklin.. .. .	11623	15 May.
Ready reckoner. A. E. H. Payne	12133	30 Oct.
Receiver, Telegraph transmitter and. N. I. Gooder	11548	21 April.
Reckoner, Ready. A. E. H. Payne	12133	30 Oct.
Recording attachment for clock. C. Stahlecker	11973	13 Sept.
Recorder for sports and race meetings. E. Burton and R. B. Echlin	12254	21 Dec.
Recording mechanism, Vote-counting and. J. H. Mander	11817	21 July.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Record strips for type-forming machines. Lanston Monotype Machine Company ..	11816	20 July.
Record strips for type-forming machines. Lanston Monotype Machine Company ..	12124	27 Oct.
Reflector lights for pianos, &c. J. Campbell and L. R. Davis ..	12081	13 Oct.
Refrigerating apparatus. H. Lyon and J. B. Talbot-Crosbie ..	11800	17 July.
Refrigerating or liquefying aeriform fluids or gases. The General Liquid Air and Refrigerating Company ..	11424	7 March.
Refrigerator. D. McGill and F. W. Tannett-Walker ..	11392	23 Feb.
Refrigerator. J. J. Drage and E. T. Bridgland ..	11609	11 May.
Refrigerator. P. Pfeleiderer ..	11905	18 Aug.
Registering and issuing checks at pay-windows. E. March ..	11379	16 Feb.
Registering and recording fares. G. H. Green ..	12189	23 Nov.
Registering cash receipts, Till and means for. W. Evans ..	12022	28 Sept.
Regulating heat to ovens. E. Smethurst ..	12223	4 Dec.
Regulating electro-motive force. C. F. Scott and B. G. Lamme ..	11468	21 March.
Regulating marine engines. A. M. Rust ..	12067	6 Oct.
Rein-holder. C. E. Wildbore ..	11336	4 Feb.
Rein-holder. H. Roberts ..	12197	21 Nov.
Rein-holder. W. T. Trudgeon ..	12096	16 Oct.
Reins, Connecting straps of. P. A. Vaile ..	11641	20 May.
Repairing compound for rubber tire. J. Ostberg ..	11954	4 Sept.
Resistance, Electrical. A. Vogt ..	11648	25 May.
Resistance, Electrical. J. F. Bachmann, A. Vogt, C. C. Weiner, A. König, J. Kirchner, and A. Jörg ..	11743	*24 Aug. '98.
Retort. J. Bryson, J. Jones, and W. Fraser ..	11366	10 Feb.
Retort, Preserving. J. E. Newton ..	11601	8 May.
Riddle or screen for sampling peas. F. W. Adams ..	11749	27 June.
Riddle or screen for thresher. F. W. Adams ..	12243	18 Dec.
Ridger, manure and seed sower, and cultivator. A. Storrie ..	11411	28 Feb.
Rifle. E. Richardson, jun. ..	11828	25 July.
Rifle breech-block cleaner. A. C. Whitney and R. B. Morrow ..	12076	10 Oct.
Rim and tire, Wheel-. W. F. Williams ..	11537	15 April.
River-bed mining apparatus. H. A. Saltmarshe ..	11498	30 March.
River-beds, Obtaining auriferous material from. A. F. Ridland ..	11714	14 June.
River-beds, Obtaining auriferous material from. I. L. Lewis ..	11722	7 June.
River-beds, Obtaining gold from. J. Werner ..	11977	12 Sept.
River-beds, Removing sand from. D. A. McLeod ..	11859	2 Aug.
Rivers, Raising water from. I. L. Lewis ..	11721	29 May.
Rivet. D. McDonald ..	11726	14 June.
Road-cleaning machinery. H. J. Ranger ..	11661	29 May.
Rock-drill. F. H. Dannhardt and M. Mailer ..	11685	6 June.
Rock-drill. A. P. Schmucker, L. D. Sweet, and G. E. Ross-Lewin ..	12122	27 Oct.
Rock-drill. R. Avery and H. C. Campbell ..	12161	10 Nov.
Rock-drilling engine. J. G. Leyner ..	11773	6 July.
Rock-drill sharpening machine. W. E. Kimber ..	11433	9 March.
Rocking-lever. R. Cockerell ..	11803	14 July.
Roller-bearings. Wright's Taper-Roller Bearings Syndicate (Limited) ..	12025	28 Sept.
Rolls, Crushing or grinding. T. A. Edison ..	12023	28 Sept.
Roof. E. L. Pease ..	11692	8 June.
Roof and spouting for building. G. W. Darvall ..	11943	1 Sept.
Roofing-felt, Sarking for carrying. H. Dalton ..	11866	7 Aug.
Roofing-tile. J. Gore ..	11570	21 April.
Roofing-nail. F. Gold ..	12259	22 Dec.
Rooms, Heating. T. White ..	11420	2 March.
Ropes, Whipping. F. H. Carrick ..	11884	14 Aug.
Rotary engine. E. Seymour ..	11571	28 April.
Rotary engine. E. L. Clark ..	11786	7 July.
Rotary engine. H. A. and R. J. Hancox ..	11980	13 Sept.
Rotary engine. J. Baird ..	11345	26 Jan.
Rotary engine. P. M. Dewar ..	11991	13 Sept.
Rotary motor. R. F. Marsh ..	11981	13 Sept.
Rotary motor. I. Smith ..	11706	12 June.
Rotary transformer. B. G. Lamme ..	11696	8 June.
Rubber tires, Repairing compound for. J. Ostberg ..	11954	4 Sept.
Rusticated board joint. G. J. and A. Homes ..	11821	20 July.
Saddle-clip, Cycle. J. Thomas ..	12200	21 Nov.
Saddle, Harness-. F. Rathbone, S. Bates, and W. Miner ..	11334	25 Jan.
Sales-book. J. B. Beavis ..	11927	22 Aug.
Salts of barium, Manufacturing. C. S. Bradley and C. B. Jacobs ..	11325	20 Jan.
Samples of pulverised material, Apparatus for taking. C. Geissler ..	11524	14 April.
Sampling milk. D. Hutchinson ..	11791	13 July.
Sampling peas, &c. F. W. Adams ..	11749	27 June.
Sandal. H. Corrick ..	12007	22 Sept.
Sandal. (See also Boot, Golosh, Slipper.) ..		
Sand and gold separator, Magnetite. D. McFarlane ..	11756	27 June.
Sand and shingle in harbours, Preventing accumulation of. E. Maxwell ..	11956	4 Sept.
Sand, Feed regulator for table for use in treating. G. Woolhouse ..	11909	17 Aug.
Sand from river-beds, Removing. D. A. McLeod ..	11859	2 Aug.
Sand-separator, Magnetic. F. W. Mackenzie and R. S. Smith ..	12104	20 Oct.
Sand-separator, Magnetic. F. W. Payne ..	12232	11 Dec.
Sarking for carrying roofing-felt. H. Dalton ..	11866	7 Aug.
Sash-fastener. L. A. M. McKail ..	11819	17 July.
Sash-holder. H. Gulliver ..	11716	16 June.
Sash. (See also Window-sash.) ..		
Sash-weight. W. E. Ramsay ..	11966	6 Sept.
Saucepan. J. and A. Brown ..	11745	26 June.
Scale, Weighing and computing. J. J. Sears ..	11589	4 May.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Scarifier. J. Begg	11701	7 June.
Scouring liquid, Washing and. J. A. Torr	11737	21 June.
Scow or punt. J. S. Maxwell	11843	27 July.
Scow or punt. J. S. Maxwell	11844	27 July.
Scratching-board for sports meetings. E. Burton and R. B. Echlin	12253	21 Dec.
Screen or riddle for sampling peas, &c. F. W. Adams	11749	27 June.
Screen. (See also Dredge-screen, Dust-screen, Fire-screen, Fireplace-screen, Gold-saving screen, Sifting-screen, Thresher-screen.)		
Screw-nail. F. Gold	12259	22 Dec.
Scrimming buildings. E. Bartley	12094	13 Oct.
Scrubbing-brush. T. Bunting and I. Woolf	11880	9 Aug.
Scrub-cutter. E. Riley, jun.	11676	6 June.
Scutcher, Flax-. E. J. De Courcy	12249	21 Dec.
Sealing cans or vessels, Hermetically. E. Norton	11417	3 March.
Seams of mackintosh garments, Joining. J. M. Morran	11547	13 April.
Seat-adjustment, Velocipede. T. Gallagher	11709	12 June.
Seat and luggage-carrier for bicycle. J. W. Buckley	11758	28 June.
Seat, Chair. H. A. C. Sutton	11446	15 Nov.
Seat-cover, Closet. D. Grant and A. Macpherson	11291	6 Jan.
Seat-cover, Closet. D. Grant and A. Macpherson	11557	26 April.
Secondary battery. The Preiss Electric Storage Syndicate (Limited)	11474	22 March.
Seed- and manure-drill. C. McLeod	11306	11 Jan.
Seed- and manure sowing machinery. A. J. Cumming	11893	10 Aug.
Seed-cleaner. W. Andrews and A. W. Beaven	11382	15 Feb.
Seed-cleaner, Screen for. F. W. Adams	12243	18 Dec.
Seed-cleaning machinery. R. Tomline and K. Graf	12103	18 Oct.
Seed-drill. T. E. Martin	11889	14 Aug.
Seed drill, Feed for. A. L. Smith and W. P. Young	11940	31 Aug.
Seed-feeder for drill. J. W. Stonyer	12101	16 Oct.
Seed-feeder for drill. J. W. Stonyer	12050	2 Oct.
Seeding-machine. Bickford and Huffman Company	11649	25 May.
Seeding machine. Massey, Harris, and Company (Limited)	12113	25 Oct.
Seed-sampler. F. W. Adams	11749	27 June.
Seed-sower. A. Storrie	11933	26 Aug.
Seed-sower. D. Moore	11687	2 June.
Seed-sower, Manure and. E. G. Rawnsley	11972	8 Sept.
Seed-sower and -cultivator, Ridger, manure and. A. Storrie	11411	28 Feb.
Segment and shrapnel shell. A. Morrow	11946	31 Aug.
Separating and amalgamating ores, Concentrating or. G. Fischer	11426	7 March.
Separating gold from ironsand. A. Howe	11301	7 Jan.
Separating solid matter from liquids. W. Cutten	12036	29 Sept.
Separator. (See Cream-separator, Gold-separator, Magnetic separator, Magnetite separator, Ore-separator, Sand-separator, Slime-separator.)		
Setting-out and marking rails and styles for doors, frames, &c. G. H. and D. Little	11892	12 Aug.
Setting tires, Machine for. J. E. Bishop	11814	20 July.
Shaft-connection for hand-carts, go-carts, &c. M. A. Johnson	12151	7 Nov.
Shale-distilling retort. J. Bryson, J. Jones, and W. Fraser	11366	10 Feb.
Sharpening rock-drills. W. E. Kimber	11433	9 March.
Sheaf-header appliance for thresher. R. Brown	11633	18 May.
Shearing-machine. J. MacMillan	11361	3 Feb.
Shearing-machine. J. H. Silley and W. Bacon	11451	16 March.
Shearing machine. S. P. Allen	11610	11 May.
Shears, Pruning. M. Gaffy	11675	6 June.
Shears, Sheep-. C. H. Izard	11613	11 May.
Shears, Sheet metal. M. P. Jonassen and R. Tomline	12097	16 Oct.
Sheep branding. C. J. Cooze	12064	26 Sept.
Sheep-dags, Machinery for cleaning. A. Smith	12269	29 Dec.
Sheep-holding device. W. M. Ashton	12082	13 Oct.
Sheep, Marking. G. Renner and W. H. Boyens	11574	2 May.
Sheep medicine. A. and J. Allison	11302	10 Jan.
Sheep, Race and register for counting. R. W. Green	11762	3 July.
Sheep-shears, Attachment to bicycle for transmitting power to. J. Howard	11523	10 April.
Sheep-shears. R. W. Manning	11781	11 July.
Sheep-shears or horse-clippers. C. H. Izard	11613	11 May.
Sheep, Specific for cure of fluke-worm in. R. Evens	11549	22 April.
Sheet-metal shears. M. P. Jonassen and R. Tomline	12097	16 Oct.
Sheet-metal, Snip for cutting. G. W. Ferguson	12213	1 Dec.
Shell or projectile. A. H. Cotton and D. R. S. Galbraith	12074	7 Oct.
Shell, Segment and shrapnel. A. Morrow	11946	31 Aug.
Sinks, Recovering fats and oils from. J. Ashdown	11513	6 April.
Slime separator, Pyritic. A. Maltman	11873	4 Aug.
Ship, Double-keeled. N. Gibbons	11298	5 Jan.
Ships' holds, Loading coal or grain into. J. Gibson	11989	13 Sept.
Ships, Raising. W. Fitzpatrick	12143	1 Nov.
Shoe or boot. E. and L. Schmoll	11317	14 Jan.
Shoe or boot. J. P. and J. Simon	12026	28 Sept.
Show-case. E. Lee and J. S. Pickford	11295	9 Jan.
Shrapnel-shell, Segment and. A. Morrow	11946	31 Aug.
Shutter, Fireplace. W. Withers	11387	9 March.
Shutter for windows, doors, &c., Fire-. E. Stevens	11863	5 Aug.
Sieve and ashpan, Cinder-. F. W. Soper and F. M. Drewitt	11789	12 July.
Sifter. W. H. Harris	11449	14 March.
Sifting-screen. J. A. Park and E. C. Reynolds	11840	31 July.
Sifting-screen. T. C. Donnelly	11517	5 April.
Signalling-lamp. G. A. Pearson	11670	5 June.
Signals, Railway-. J. Avery	11760	29 June.
Silt-punt. J. S. Maxwell	11843	27 July.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Silt-punt. J. S. Maxwell	11844	27 July.
Silver ores, Treating. J. Smith	12163	10 Nov.
Sinking bore-holes. W. Griffiths	12247	4 Dec.
Sinking, Preventing vessels. A. Milne	12265	28 Dec.
Sketching, Subdivider for use in. C. O. Rosenberg	12017	27 Sept.
Skins and hides, Curing. J. W. C. Hamilton and J. A. Linley	11280	4 Jan.
Skins and hides for tanning, Dehairing. A. J. Cumming	11916	21 Aug.
Skins and hides, Tanning. G. D. Burton	11942	26 Jan.
Skins, furs, &c., Liming. J. and E. E. Pullman and E. E. M. Payne	11378	16 Feb.
Skins, Removing wool, &c., from. S. L. and E. Johnson and A. H. Gibbings	11962	5 Sept.
Skins, Unhairing hides and. G. D. Burton	11341	26 Jan.
Slasher. W. E. Chamberlain	12019	28 Sept.
Slaughtering cattle, Instrument for. J. D. Walsh	12171	14 Nov.
Sleeve-link. A. Baker	11914	22 Aug.
Slime separator, Pyritic. A. Maltman	11873	4 Aug.
Slimes, Stirring or agitating. L. Horne	12052	5 Oct.
Slipper. H. Corrick	12007	22 Sept.
Slipper. (See Boot, Golosh, Sandal.)		
Slugging-machine, Jack for. McKay Shoe Machinery Company	12162	10 Nov.
Smelting ores. F. Ballou	12188	23 Nov.
Smoke-consumer. J. Davidson	11318	13 Jan.
Smoke-consumer. J. Downs	11292	5 Jan.
Smoke-preventer and fuel-economiser. C. H. Gould	12263	28 Dec.
Snip for cutting sheet-metal. G. W. Ferguson	12213	1 Dec.
Snow and ice from cooling-pipes, Clearing. A. H. Chapman	12035	27 Sept.
Soap-cake, Advertising. J. J. Roth	12177	15 Nov.
Sole, Boot-. J. E. Friend	11936	30 Aug.
Soles, Wash for boot-. C. Lafferty	11603	10 May.
Solids from liquids, Separation of. W. Cutten	12036	29 Sept.
Solutions of sweet carbamides in oils. A. Sommer	12155	8 Nov.
Sower and cultivator, Ridger, manure- and seed-. A. Storrie	11411	28 Feb.
Sower, Feed-run for. D. Moore	11687	2 June.
Sower, Manure-discharge for drill or. P. and D. Duncan (Limited)	11875	9 Aug.
Sower. (See Manure-sower, Seed-sower.)		
Spark-arrester and extinguisher. J. King	12306	28 Nov.
Spark-arrester and fuel-economiser. E. A. Cameron	11489	24 March.
Speech, Storing. V. Poulsen	12252	21 Dec.
Specific for diarrhoea, dysentery, &c. R. Brown	11633	18 May.
Specific for fluke-worms in sheep. R. Evens	11549	22 April.
Speed-varying device and electric motor. R. H. Hassler	11617	12 May.
Spindle, Door-lock. J. W. McDougall	11913	16 Aug.
Spigot. G. E. Anson and J. B. Gould	12015	25 Sept.
Spirit-lamp. W. E. Hughes	11834	27 July.
Spittoon. J. Torrens	12061	3 Oct.
Sports meetings, Recorder for. E. Burton and R. B. Echlin	12254	21 Dec.
Sports, Result indicator for. D. C. Carr	11999	20 Sept.
Sports-meetings, Scratching-board for. E. Burton and R. B. Echlin	12253	21 Dec.
Spouting and roof for building. G. W. Darvall	11943	1 Sept.
Spouting-die. H. G. Bedell and J. Welsby	11662	30 May.
Spur-fastener. A. B. Jackson	12259	12 Dec.
Spring, Rabbit-trap. W. Barr	11759	29 June.
Spring, Cycle. E. Harnett	12127	28 Oct.
Stacks, Coverings for grain. G. L. Thomson	11510	5 April.
Stamper-battery. R. Cockerell	12003	16 Sept.
Stamping and marking butter-boxes. O. Wakelin	11654	25 May.
Stamp-mill. The New Steam Stamp-mill Syndicate	11415	3 March.
Standard. (See Fencing-standard.)		
Staple-drawing appliance. W. Jones	11686	7 June.
Staples, nails, &c., Tool for drawing. W. Grayson	12196	21 Nov.
Starting-machine barriers, Connecting. P. A. Vaile	11641	20 May.
Starting-machine, Race. W. M. Turner	11319	18 Jan.
Starting mechanism, Electric motor. T. S. Perkins	11691	8 June.
Stave-cutter, Cask. A. Sinclair	11997	19 Sept.
Steam-boiler. R. P. Gibbons	12032	27 Sept.
Steam-boiler, Stoker for. J. Miller	12131	27 Oct.
Steam cooking, heating, drying, &c., apparatus. E. W. Parish	12087	14 Oct.
Steam-engine. C. C. Worthington	11664	1 June.
Steam-engine. G. Stevenson	11672	5 June.
Steam-engine, Heat cycle for. L. C. Auldjo	11835	27 July.
Steam generator. E. W. Parish	12087	14 Oct.
Steam motor. J. Speight	11784	12 July.
Steamship. J. T. Johns and D. R. S. Galbraith	12170	10 Nov.
Steamships, Propelling. L. Horne	12130	31 Oct.
Steeping grain. H. House, A. Loughrey, J. A. Holmes, and R. Tomline	11788	13 July.
Steering-apparatus. G. Hansen	11923	21 Aug.
Steering-gear, Traction-engine. H. A. Flatman	12031	28 Sept.
Step-ladder and shelf combined. C. E. Page	11429	6 March.
Steps, Facing for. A. L. P. Chasles	12190	23 Nov.
Stereo or Electroplate. D. Reid	11545	18 April.
Steriliser for liquids by ozone. H. Tindal	12072	9 Oct.
Sterilising milk. N. Bendixen	11488	28 March.
Stirrer for slimes in ore-treatment. L. Horne	12052	5 Oct.
Stoker for steam-boilers. J. Miller	12131	27 Oct.
Stone, Artificial. A. H., H., and G. van der Vijgh	11677	6 June.
Stonebreaker's hammer. G. Girling	11702	9 June.
Stone, Ceramic. L. A. Garchey	11282	4 Jan.
Storing speech. V. Poulsen	12255	21 Dec.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued*.

Invention, and Name of Inventor.	No.	Date.
Stove. A. Kitson	11566	27 April.
Stove devices. W. E. Hughes	11515	6 April.
Stove for heating irons. A. Tzamis	12156	10 Nov.
Strainer for milk-pail. D. McKay	11604	9 May.
Strainer. (See also Wire-strainer.)		
Strap or belt. E. C. Millard	11350	1 Feb.
Street block. H. Dunlop	11512	6 April.
Stripper. (See Fax-stripper.)		
Stud, Collar-. M. B. Curtis	11826	21 Jan.
Stud, Secrim-securing. E. Bartley	12094	13 Oct.
Stumping and logging apparatus. H. J. Unwin and J. Wyatt	11516	5 April.
Stump-jack. A. E. Robertson	11852	2 Feb.
Subdivider for use in sketching. C. O. Rosenberg	12017	27 Sept.
Subsoil attachment to plough. J. Macalister	12181	15 Nov.
Subsoiler for plough. G. Ballard	11599	4 May.
Subsoiler for plough. J. Macalister	11735	20 June.
Sulphide ores, Recovering zinc from. J. Gitsham	12194	23 Nov.
Sulphidic ores, Treating. J. Dick	11723	14 June.
Sulphuric anhydride. Badische Anilin and Soda Fabrik	11890	14 Aug.
Support. (See Bicycle-support.)		
Support for person during removal of bed-pan. M. A. Johnson	12152	7 Ncv.
Suspender, Billiard-chalk. A. C. Thomas and J. E. Atkinson	11455	16 March.
Sweetmeats, Manufacturing. E. Shaw	12270	30 Dec.
Swingletree. J. McIntyre	12203	12 Dec.
Switch. (See Electric switch, Electric-circuit switch.)		
Synchronous motor. B. G. Lamme	11696	8 June.
Syringe. L. Mumford-Geer	11525	14 April.
Syringe, enema, and hot-water bag combined. E. W. Hall	11860	2 Aug.
Table for use in treating auriferous sand, Feed-regulator for. G. Woolhouse	11909	17 Aug.
Table, reading-desk, and cupboard, Clinical. H. C. Franklin	11623	15 May.
Table. (See also Billiard-table, Gold-saving table.)		
Tailings elevator. W. H. Cutten	12219	5 Dec.
Tanning, Dehairing hides and skins for. A. J. Cuming	11916	21 Aug.
Tanning hides and skins. G. D. Burton	11342	26 Jan.
Tanning-liquid, Chrome. C. Boocock	11577	1 May.
Tap. J. Ramage	11539	17 April.
Tap. P. A. and E. B. Vaile	11600	5 May.
Tap. W. Bradley	11847	1 Aug.
Tea, Flavouring. A. H. Krause	11286	4 Jan.
Telegraph, Electrical. The Alcock Electrical Position Finder Company (Limited)	11632	18 May.
Telegraphic transmitter and receiver. N. I. Gooder	11548	21 April.
Telegraph wire joint. The Neild "Sleeve" Electric Joint Syndicate (Limited)	11679	6 June.
Telegraphy, Wireless. The Wireless Telegraph and Signal Company (Limited)	11550	22 April.
Telegraphy, Wireless. The Wireless Telegraph and Signal Company (Limited)	11812	20 July.
Telephone. H. L. Short	11688	6 June.
Telephone exchange, Automatic. The Automatic Telephone Company (Limited)	11698	8 June.
Telephone, Time indicator and recorder for. T. Barnett	11377	13 Feb.
Telephonic system and apparatus. J. E. Kingsbury	11307	11 Jan.
Telephonic system and apparatus. J. E. Kingsbury	11308	11 Jan.
Telephonic system and apparatus. J. E. Kingsbury	11327	21 Jan.
Tell-tale. O. M. Newson	11729	20 June.
Tellurium, arsenic, or antimony, Treating ores containing. E. Petersson	11324	20 Jan.
Testing milk for butter-fat. W. J. McVeigh and G. Lyell, jun.	11738	21 June.
Thresher, Screen for. F. W. Adams	12243	18 Dec.
Thresher, Sheaf-header appliance for. R. Brown	11633	18 May.
Threshing-machine. J. Greenslade	11383	15 Feb.
Ticket-printing and issuing-machine. E. Burton and R. B. Echlin	12051	16 Oct.
Tickets, Apparatus for issuing. D. H. Williamson	11385	17 Feb.
Ticket-issuing mechanism. M. Barnett	12192	23 Nov.
Ticket. (See also Check.)		
Tile, Roofing-. J. Gore	11570	21 April.
Till. W. Evans	12022	28 Sept.
Till, Receiving and recording mechanism for. G. H. Green	12189	23 Nov.
Timber-jack, Key for. A., E., and A. McLeod	11934	26 Aug.
Timber-measurer. J. Shepherd	12217	30 Nov.
Timber, Preserving. W. Cross	11871	9 Aug.
Time-indicator and recorder for telephone. T. Barnett	11377	13 Feb.
Time-indicator, Compass and. E. Gilshnan, jun.	11403	24 Feb.
Timepiece, Recording attachment for. C. Stahlecker	11978	13 Sept.
Tin, Frame for. W. E. Potts	11780	6 July.
Tin-opener. A. Taylor	11937	21 Aug.
Tin, Provision-. A. W. Maconochie	12114	25 Oct.
Tins, Closing provision-. E. Waters, jun.	11766	18 July.
Tire air-tube. A. M. Linney	11694	8 June.
Tire and wheel-rim. W. F. Williams	11537	15 April.
Tire-cleaner, Bicycle mud-guard and. G. H. Fisher	11797	15 July.
Tire-protector. J. Seffer	11405	11 March.
Tires, Appliance for removing and replacing pneumatic. A. C. Palmer	12080	13 Oct.
Tire-setting machine. J. E. Bishop	11814	20 July.
Tires, Repairing compound for rubber. J. Ostberg	11954	4 Sept.
Tires, Rubber. J. G. Rodgers	12128	28 Oct.
Tires, Tool for removing and replacing cycle-. C. McIntyre	11357	2 Feb.
Tiring wheels. H. Caspers	12000	20 Sept.
Tobacco-cutter. F. L. Lorden and H. C. Trollope	11908	21 Aug.
Toe-clip, Bicycle pedal and. W. L. Mitchell	11790	13 July.
Toe-clip for cycles. R. Tomline and K. Graf	12102	18 Oct.
Tool-chest and bicycle-stand combined. E. H. and H. A. Jull	11432	9 March.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Tool, Fencing-. R. Crawford	11671	5 June.
Tool for boring post-holes. E. R. Godward	12268	29 Dec.
Tool for drawing staples, nails, &c. W. Grayson	12196	21 Nov.
Tool for removing and replacing cycle-tires. C. McIntyre	11357	2 Feb.
Tool, Gardening-. T. Dawes	11861	2 Aug.
Totalisator. E. Burton and R. B. Echlin	12091	16 Oct.
Trace-spreader. T. E. Kiernan	11795	15 July.
Traction, Electric. E. Waters, jun.	11684	6 June.
Traction, Electric. H. Dolter	12070	9 Oct.
Traction-engine steering-gear. H. A. Flatman	12031	28 Sept.
Traction-gear, Horse. J. McIntyre	12203	12 Dec.
Train-indicator for crossings. H. J. Gibbons and E. T. A. Basan	11810	20 July.
Tramway, Wire-rope. E. McGregor	11665	29 May.
Transferring and printing mechanism. G. G. Turri	12185	21 Nov.
Transformer, Rotary. B. G. Lamme	11696	8 June.
Transmitter and receiver, Telegraphic. N. I. Gooder	11548	21 April.
Trap. (See Animal-trap, Rabbit-trap.)		
Traverses, Device for plotting. W. C. McAlister	11752	27 June.
Tray for dredge, Elevator-. F. W. Payne	11777	5 July.
Treadle attachment for linotype machine. A. A. Whitelaw	11911	22 Aug.
Treadle mechanism. R. Millar	11501	27 March.
Trotting- or racing-harness. J. T. Murphy	11910	22 Aug.
Trouser-protector. J. Metzger	11885	11 Aug.
Trunk. G. G. Turri	11511	6 April.
Tumbler, Dredge-. L. H. Reynolds and G. H. Oatway	11339	25 Jan.
Tumblers, Appliance for replacing buckets on dredge-. W. Cutten	12012	20 Sept.
Tumblers of dredges, Lubricator for lower. W. Cutten	12038	29 Sept.
Tumblers, Pick attachment for dredge-. W. Poppelwell	12201	23 Nov.
Turbine. I. L. Lewis	11720	29 May.
Twine, Apparatus for making grass. G. A. Lowry	11952	4 Sept.
Tympan, Printing-. A. S. Allen	11929	25 Aug.
Type casting and composing machine. Lanston Monotype Machine Company	11815	20 July.
Type-engraving process. A. Treadwell	11775	7 July.
Type-forming machine, Record strips for. Lanston Monotype Machine Company	11816	20 July.
Type-forming machine, Record strips for. Lanston Monotype Machine Company	12124	27 Oct.
Typewriter. W. R. Whyte	11928	25 Aug.
Tyre. (See Tire.)		
Umbrella. D. McRorie	12235	13 Dec.
Umbrella. E. S. Ross	11586	4 May.
Unicycle. W. E. Mann	11591	4 May.
Urinal. E. Goodridge	11310	12 Jan.
Valve. R. Garnham	11576	2 May.
Valve. R. Garnham	11920	24 Aug.
Valve. R. W. Henn	11507	4 April.
Valve. R. W. Henn	11508	4 April.
Valve. R. W. Henn	11509	4 April.
Valve and governor combined. D. A. Whyte	11569	24 April.
Valve, Automatically operated. A. Stenhouse and E. E. Whitehead	11896	15 Aug.
Valve, Cistern-. R. Garnham	11390	21 Feb.
Valve, Cistern flushing-. W. E. Hughes	12049	4 Oct.
Van, Apparatus for carrying rabbits in railway-. A. Nelson	11636	16 May.
Varnish. A. P. Bjerregaard	11826	25 July.
Vat. (See Agitating- and settling-vat, Ore-vat.)		
Vegetable cutter and grater, Fruit and. D. Whitburn	11945	31 Aug.
Vegetable powder. Merrell-Soule Company	11487	28 March.
Vehicle and propelling-apparatus. A. L. Barber	11862	4 Aug.
Vehicle-brake. H. Flay	12034	26 Sept.
Vehicle-brake. J. Nicholas	11960	4 Sept.
Vehicle-brake. A. Stevens and W. S. Penney	12120	27 Oct.
Vehicle-tire, Rubber. J. G. Rodgers	12128	28 Oct.
Vehicle. (See also Automobile vehicle, Auto-vehicle, Conveyance, Motor vehicle.)		
Velocipede driving-gear. D. R. and G. M. G. Macdonnell	11588	4 May.
Velocipede mud-guard. A. L. and T. N. Rayward	11288	4 Jan.
Velocipede seat and handle adjustment. T. Gallagher	11709	12 June.
Venetian blind. W. J. Blakey	11593	2 May.
Ventilating and working mines. J. G. Massie	11393	23 Feb.
Ventilating-appliance. J. Leather	11321	18 Jan.
Ventilating mines. H. Fullwood	11473	23 March.
Ventilator. D. Miller	11804	12 July.
Ventilator, Boot-. J. Vernon	11979	9 Sept.
Ventilator or chimney-cowl. H. A. Mason	11657	26 May.
Vessel, Cover for. W. E. Shaw	12092	16 Oct.
Vessel, Double-keeled. N. Gibbons	11298	5 Jan.
Vessel for containing edible substances. W. D. Verschoyle	11287	4 Jan.
Vessel for liquids. W. Hampton	11346	28 Jan.
Vessels, Launching of stranded. M. J. Corbett	12160	1 Nov.
Vessels, Preventing sinking of. A. Milne	12265	28 Dec.
Vessels, Propelling. G. Lindsay	12264	28 Dec.
Vote counting and recording mechanism. J. H. Mander	11817	21 July.
Voting, Method of. J. Lewis	11546	19 April.
Walls of freezing-chambers, Construction of. A. H. Chapman	11437	11 March.
Walls, Securing scrim to. E. Bartley	12094	13 Oct.
Wash for boot-soles. C. Lafferty	11603	10 May.
Washer-head and screw-nail. F. Gold	12259	22 Dec.
Washing and peeling potatoes, Appliance for. C. Williams	11597	1 May.
Washing and scouring liquid. J. A. Torr	11737	21 June.
Washing-apparatus for crockery and cutlery. L. Davie	11380	16 Feb.

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued*.

Invention, and Name of Inventor.	No.	Date.
Washing-fluid. M. A. Cockerell	11290	6 Jan.
Washing-machine. H. W. Gilling	12005	21 Sept.
Washing wool. (See Wool.)		
Watercourse, Appliance for cleaning. A. E. Hight	11728	16 June.
Water from rivers, Raising. I. L. Lewis	11721	29 May.
Water-heater. B. G. A. Harkness	11830	27 July.
Water-heater. H. McCartney	11935	26 Aug.
Water-heater. J. O. Shorland and A. Anderson	11626	16 May.
Water-heater. J. O. Shorland and A. Anderson	11827	25 July.
Waterproofing compound. A. W. Chatfield	12195	20 Nov.
Water, Purifying. F. J. Olsen and E. H. Whitmore	12245	15 Dec.
Water-raiser. Fraser and Chalmers (Limited)	11683	6 June.
Water, Raising. C. L. O'Brien	12167	11 Nov.
Water, Raising. I. L. Lewis	11721	29 May.
Water, Raising. J. Welsby and H. G. Bedell	11848	1 Aug.
Weaning calves, Device for. W. Reach	12016	22 Sept.
Weatherboarding. G. H. Anderson	12166	11 Nov.
Weed-destroying mixture. J. Parker	12205	28 Nov.
Weeder. J. Begg	11701	7 June.
Weighing- and computing-scale. J. J. Sears	11589	4 May.
Weighing apparatus, Milk-. A. C. Christiansen	11812	11 Jan.
Weight, Sash-. W. E. Ramsay	11966	6 Sept.
Well, Ink-. E. R. Godward	11850	29 July.
Wheel. J. Fitchett	11734	23 June.
Wheel, Gear-. W. H. Trengrove	11774	5 July.
Wheel-rim and tire. W. F. Williams	11537	15 April.
Wheel-rims, Appliance for removing and replacing pneumatic tires on. A. C. Palmer	12080	13 Oct.
Wheels, Device for locking bicycle-. W. Morris	11568	25 April.
Wheels, Tiring. H. Caspers	12000	20 Sept.
Whipping ropes. F. H. Carrick	11884	14 Aug.
Whisking- or mixing-machine. W. K. and G. S. Baker	11561	26 April.
Winding-machinery, Pumping- and. J. Symington	11358	2 Feb.
Windmill. J. Lamberg	11669	3 June.
Window and sash. W. Halstead	11444	15 March.
Windows, Dust- and insect-screen for. H. Roberts	11857	1 Aug.
Window-fastener. E. L. Lees	11297	5 Jan.
Window-fastener. G. J. A. Leslie	11925	21 Aug.
Window-lock. J. G. Lusk	11526	14 April.
Window-sash. H. G. Bedell	11895	15 Aug.
Window-sash fastener. E. R. Atkin	11328	19 Jan.
Window-sashes, Adjusting and locking. C. C. Morris	11401	23 Feb.
Window-sashes and cords. H. Roberts	12085	9 Oct.
Window-sashes, Counterbalancing. A. S. Bloomfield	11582	3 May.
Window-sashes, Hanging. W. Fairhead and T. B. Jacobsen	11300	7 Jan.
Window-sashes, Hanging. C. E. Page	11640	20 May.
Window-sash suspender. A. W. Pilkington and D. J. Whelan	11832	18 Jan.
Wire coiling and uncoiling apparatus. J. Krause	11990	13 Sept.
Wire-fence dropper. J. W. Manchee	11798	17 July.
Wire-fencing dropper. A. Lavery and M. F. Bourke	12116	24 Oct.
Wire fencing, Post-and-. B. Dawson	11555	26 April.
Wire joint. The Neild "Sleeve" Electric Joint Syndicate (Limited)	11679	6 June.
Wireless telegraphy. The Wireless Telegraph and Signal Company (Limited)	11550	22 April.
Wireless telegraphy. The Wireless Telegraph and Signal Company (Limited)	11812	20 July.
Wire, Manufacturing. R. D. Sanders	11813	20 July.
Wire mattress. H. C. Fletcher and S. H. Cornish	11652	25 May.
Wire mattress. H. North	11996	18 Sept.
Wire mattresses, Spring bottom for. A. Richards	11502	28 March.
Wire-netting machine. A. R. Lysaght	11499	30 March.
Wire-strainer. A. Lavery	11407	27 Feb.
Wire-strainer. C. Adams	11740	23 June.
Wire-strainer. G. Coates	11421	7 March.
Wire-strainer. J. Mowlem	11998	20 Sept.
Wire-strainer. T. A. Bromell	11853	3 Aug.
Wire-strainer. W. Cable	11824	24 July.
Wire strainer and repairer. W. Page	11912	19 Aug.
Wire strainer, cutter, and key combined. J. Rapson	11967	5 Sept.
Wire strainer, key, and cutter combined. J. Hair	11858	1 Aug.
Wires in fencing standards and droppers, Securing. E. Smethurst	11447	14 March.
Wood blocks for streets, Top-dressing. H. Dunlop	11512	6 April.
Wooden block for gold-saving. D. W. Cotton and J. F. W. H. Schadick	12147	2 Nov.
Wood with wood, stone, &c., Jointing. F. W. Commons	11833	27 July.
Wood, Impregnating, with fireproofing and preserving solutions. J. L. Ferrell	11412	28 Feb.
Wool-bales, &c., Apparatus for closing. H. Biddle	11849	2 Aug.
Wool, Burring. G. E. U. Huckaby	11838	28 July.
Wool, Cleaning. E. Maertens	11993	15 Sept.
Wool-drying machine. B. W. Glass	11822	20 July.
Wool locks and dags, Treating. W. Norrell and J. D. Murray	11642	23 May.
Woolpack, Grip for use in sewing up. W. K. Elder	11299	5 Jan.
Wool-press. H. Sedcole	11381	16 Feb.
Wool-press. R. Tomline and K. Graf	12168	11 Nov.
Wool-washing machine. A. Smith	12269	29 Dec.
Wool-washing machine. J. Binney	12199	22 Nov.
Wool-washing apparatus. G. A. Fuller	11932	25 Aug.
Wrapper, Cigarette-. Richmond Gold and Silver Cigarette Company	12193	23 Nov.
Zinc-ores, Dressing. A. M. G. Sébillot	12137	3 Nov.
Zinc-ores, Treating. A. E. Savage	12069	9 Oct.
Zinc-precipitation in recovering gold by cyanide solutions. A. F. Crosse	12053	5 Oct.
Zinc, Recovering, from sulphide ores. J. Gitsham	12194	23 Nov.

L.—ALPHABETICAL LIST OF APPLICANTS FOR REGISTRATION OF DESIGNS DURING THE YEAR 1899.

Name and Address.	Number of Class.	Number of Design.	Date.
Cohen, S. E., Sydney, N.S.W.	2	109	26 June.
Cousins and Atkin, Auckland, N.Z.	3	105	24 Feb.
Gladstone, W. E., Invercargill, N.Z.	5	104	10 Feb.
Goldsmiths and Silversmiths' Alliance, The. (See S. E. Cohen.)			
Grazzini, A., Auckland, N.Z.	4	106	19 May.
Schütze, G., Melbourne, Vic.	10	108	26 June.
Shuttleworth, J. J., Ryde, N.S.W.	10	110	20 July.
Somerville and Co. (Limited), J., Leith, N.B.	4	100	10 Feb.
Welch, C. K., Coventry, Eng.	1	101	29 March.
Welch, C. K., Coventry, Eng.	3	102	29 March.
Welch, C. K., Coventry, Eng.	3	103	29 March.
Williams, E. T., Picton, N.Z.	5	107	3 May.
Williams, E. T., Picton, N.Z.	5	111	29 July.

M.—ALPHABETICAL LIST OF APPLICANTS FOR REGISTRATION OF TRADE MARKS DURING THE YEAR 1899.

Name and Address.	No. of Class.	No. of Application.	Date.
Aerators (Limited), London, Eng.	13	2828	9 Oct.
Allen and Co., S. L., Philadelphia, U.S.A.	7	2707	20 July.
Allen and Sons (Limited), S., Townsville, Queensland	42	2840	25 Oct.
American Dunlop Tire Company, The, Belleville, U.S.A.	40	2768	25 Aug.
American Tobacco Company, The, New York, U.S.A.	45	2897	11 Dec.
American Tobacco Company, The, New York, U.S.A.	45	2912	29 Dec.
Andrew and Co. (Limited), J. H., Sheffield, Eng.	5	2892-3	7 Dec.
Antikamnia Chemical Company, St. Louis, U.S.A.	3	2763	22 Aug.
Aston, J., and another, Wellington, N.Z.	3	2813	29 Sept.
Aulsebrook and Co., Christchurch, N.Z.	42	2688	14 June.
Ballantyne and Co., J., Christchurch, N.Z.	24	2721	26 July.
Banks Peninsula Canning Company, The, Akaroa, N.Z.	42	2595	11 Jan.
Barlow, H., and another, Napier, N.Z.	2	2621	6 March.
Barnett, W., Christchurch, N.Z.	48	2884	28 Nov.
Barraclough, H. J., Wellington, N.Z.	3	2674	5 June.
Barrett's Food Company Proprietary (Limited), Richmond, Vic.	42	2909	28 Dec.
Barry, P., Wellington, N.Z.	15	2720	26 July.
Bartram and Son, J., Melbourne, Vic.	42	2632	7 April.
Baume, A., London, Eng.	10	2692	26 June.
Baume and Co. (See A. Baume.)			
Beetham and Son, M., Cheltenham, Eng.	48	2605	1 Feb.
Bennett, D., London, Eng.	3	2841	27 Oct.
Bickerton, W. H., Christchurch, N.Z.	44	2779	4 Sept.
Bickford and Sons, A. M., Adelaide, S.A.	3	2873	16 Nov.
Bickford and Sons, A. M., Adelaide, S.A.	42	2874	16 Nov.
Bickford and Sons, A. M., Adelaide, S.A.	43	2875	16 Nov.
Bickford and Sons, A. M., Adelaide, S.A.	48	2876	16 Nov.
Bishop and Robson, Christchurch, N.Z.	43	2691	26 June.
Blickensderfer Manufacturing Company, The, Stamford, U.S.A.	39	2801	19 Sept.
Book, P., and Co., Auckland, N.Z.	42	2591	6 Jan.
Bovine (Limited), London, Eng.	42	2671	25 May.
Bradbury and Co., R. A., Christchurch, N.Z.	38	2641	25 April.
Briscoe and Co., A., Dunedin, N.Z.	47	2824-7	9 Oct.
British and Foreign Safety Fuse Company, Redruth, Eng.	20	2881	23 Nov.
British Cyanides Company (Limited), The, Oldbury, Eng.	1	2606	2 Feb.
British Uralite Company (Limited), The, London, Eng.	17	2879-	23 Nov.
		2880	
Brooks and Co., H., London, Eng.; and Melbourne, Vic.	16	2693	27 June.
Brown, Barrett, and Co., Auckland, N.Z.	42	2585	4 Jan.
Brown, Barrett, and Co., Auckland, N.Z.	42	2607	7 Feb.
Brown, R., Auckland, N.Z.	3	2832	14 Oct.
Bruhns, E., Hyde, N.Z.	3	2640	21 April.
Burt (Limited), A. and T., Dunedin, N.Z.	5	2616	22 Feb.
Busck, A., Auckland, N.Z.	42	2814	29 Sept.
Cameron and Co., W. R., Dunedin, N.Z.	42	2643	26 April.
Cameron and Co., W. R., Dunedin, N.Z.	42	2644	26 April.
Carter and Co., J., London, Eng.	46	2615	16 Feb.
"Carters." (See J. Carter and Co.)			
Cellular Clothing Company (Limited), The, London, Eng.	38	2702	20 July.
Challoner, J., and another, Melbourne, Vic.	3	2611	10 Feb.
Challoner, J. W., and another, Melbourne, Vic.	3	2611	10 Feb.
Chapman, R. W., and another, Fernside, N.Z.	42	2885	28 Nov.
Chemical Stores Company, The. (See W. Taine.)			
Chipman, H. S., Sydney, N.S.W.	2	2597	19 Jan.
Chipman, H. S., Sydney, N.S.W.	42	2631	7 April.
Chipman, H. S., Sydney, N.S.W.	6	2834	16 Oct.
Chubb and Sons Lock and Safe Company (Limited), London, Eng.	13	2886	29 Nov.
Churchman, W. A. and A. C., Ipswich, Eng.	45	2739	4 Aug.
Clark, G. F., Maidstone, Eng.	42	2823	5 Oct.
Clayton, H., Melbourne, Vic.	3	2701	20 July.
Coley, H., and Davis, Foxton, N.Z.	4	2750	18 Aug.

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

Name and Address.	No. of Class.	No. of Application.	Date.
Cooke, J. A., Christchurch, N.Z.	3	2770	30 Aug.
Cooke, J. A., Christchurch, N.Z.	48	2771	30 Aug.
Coomb's Eureka Aerated Flour Company (Limited), Nottingham and London, Eng. ..	42	2613	16 Feb.
Cooper, F. J., Auckland, N.Z.	3	2838-9	24 Oct.
Costello, W., and another, Greymouth, N.Z.	42	2784	11 Sept.
Crease and Son (Limited), E. H., Wellington, N.Z.	42	2805	22 Sept.
Crease and Son (Limited), E. H., Wellington, N.Z.	42	2851	7 Nov.
Crease and Son (Limited), E. H., Wellington, N.Z.	42	2857-	10 Nov.
		2862	
Crease, H. E., Wellington, N.Z.	48	2899	14 Dec.
Crown Ironworks Company (Limited), The, Christchurch, N.Z.	18	2809	27 Sept.
Curtis's and Harvey (Limited), London, Eng.	20	2646-7	11 May.
Curtis's and Harvey (Limited), London, Eng.	20	2703	20 July.
Daily, J. J., Christchurch, N.Z.	50	2617	22 Feb.
Davis and Lawrence Company (Limited), The, Montreal, Canada; and New York, U.S.A. ..	3	2782	8 Sept.
De Renzy, T. G., Auckland, N.Z.	39	2602	30 Jan.
Dimock and Co., W., Wellington, N.Z.	42	2780	5 Sept.
Dixon, E. S., Masterton, N.Z.	3	2676	5 June.
Dixson, H. R., Adelaide, S.A.	45	2774-8	4 Sept.
Dombrain, E. F., Christchurch, N.Z.	2	2773	4 Sept.
Downer, W. H., Riccarton, N.Z.	47	2678	7 June.
Downer, W. H., Riccarton, N.Z.	48	2690	22 June.
Dufour and Co., Thal, Switzerland	31	2706	20 July.
Dunlop Pneumatic Tire Company (Limited), The, London, Eng.	40	2592	12 Jan.
Dunlop Pneumatic Tire Company (Limited), The, London, Eng.	13	2664	18 May.
Dunlop Pneumatic Tire Company (Limited), The, London, Eng.	40	2665	18 May.
Dunlop Pneumatic Tire Company, Aust. (Limited), The, London, Eng.	40	2742	9 Aug.
Durant and Co., London, Eng.	48	2734	1 Aug.
Eagleton, R., Auckland, N.Z.	48	2661	17 May.
Eagleton, R., and another, Auckland, N.Z.	48	2700	17 July.
Eagleton, R., and another, Auckland, N.Z.	48	2741	8 Aug.
Ellingham, A. J., and others, Hastings, N.Z.	2	2831	12 Oct.
Ellis, Sellgren, and Co., Auckland, N.Z.	42	2608	30 Jan.
Ellis, Sellgren, and Co., Auckland, N.Z.	42	2787	12 Sept.
Ellis, Sellgren, and Co., Auckland, N.Z.	48	2788	12 Sept.
Ellis, Sellgren, and Co., Auckland, N.Z.	3	2789	12 Sept.
Ellis, Sellgren, and Co., Auckland, N.Z.	3	2790	12 Sept.
Ellis, Sellgren, and Co., Auckland, N.Z.	48	2791	12 Sept.
Farbenfabriken vormals Friedrich Bayer and Co., Elberfeld, Germany	42	2772	1 Sept.
Ferru-Cocoa Manufacturing Company (Limited), London, Eng.	42	2698	17 July.
FitzGerald, W. C., Wellington, N.Z.	3	2618	22 Feb.
Foster Clark and Co., G. (See G. F. Clark.)			
Fox Brothers and Co. (Limited), Wellington, Eng.	34	2677	6 June.
Frossard Levic and Co. (See F. Levic.)			
Gilbey (Limited), W. and A., London, Eng.	43	2608	8 Feb.
Gilbey (Limited), W. and A., London, Eng.	43	2609	8 Feb.
Gilbey (Limited), W. and A., London, Eng.	43	2610	8 Feb.
Gill Brothers and Co., Steubenville, Ohio, U.S.A.	15	2798	15 Sept.
Glendining, R., Dunedin, N.Z.	4	2802	22 Sept.
Goldring, M., Sydney, N.S.W.	10	2732	28 July.
Gollin and Co., Melbourne, Vic.	42	2803	20 Sept.
Grand Rapids Cycle Company, Grand Rapids, U.S.A.	22	2668	25 May.
Great Barrier Pigeongram Agency, The, Auckland, N.Z.	39	2709	21 July.
Green, W. J., Sydney, N.S.W.	3	2600	24 Jan.
Gregg and Co. (Limited), W., Dunedin, N.Z.	42	2682	12 June.
Gregg and Co. (Limited), W., Dunedin, N.Z.	42	2807	8 Sept.
Grierson, Oldham, and Co. (Limited), London, Eng.	43	2689	16 June.
Grimble and Co. (Limited), London, Eng.	42	2624	16 March.
Hall, H. J., London, Eng.	3	2587	4 Jan.
Hall and Co., T. H., Auckland, N.Z.	42	2642	25 April.
Hally, G. J., Cambridge, N.Z.	43	2626	20 March.
Hally, G. J., Cambridge, N.Z.	44	2633	14 April.
Hancock and Co., Newmarket, N.Z.	43	2849	3 Nov.
Hancock and Co., Newmarket, N.Z.	43	2850	3 Nov.
Hart, W. S., Waipu, Auckland, N.Z.	42	2767	25 Aug.
Hartmann and Kajtjens Composition Company (Limited), Suter. (See under S.) ..			
Hartstone and Sons, Woodville, N.Z.	42	2872	15 Nov.
Hartstone and Sons, Woodville, N.Z.	42	2911	29 Dec.
Harvey, W. J., and another, Wellington, N.Z.	3	2813	29 Sept.
Hayward, W. R., Dunedin, N.Z.	47	2745	14 Aug.
Hayward and Co. (See W. R. Hayward.)			
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	2	2722	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	47	2723	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	48	2724	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	2	2725	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	47	2726	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	48	2727	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	2	2728	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	47	2729	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	48	2730	26 July.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	47	2877	23 Nov.
Hedley and Co. (Limited), T., Newcastle-on-Tyne, Eng.	48	2878	23 Nov.
Helidon Spa Water Company (Limited), Brisbane and Helidon, Queensland	44	2910	28 Dec.
Hendy, A. M., Dunedin, N.Z.	48	2908	27 Dec.
Henry, G. N., Auckland, N.Z.	38	2786	12 Sept.
Hildebrand and Co., A., Greymouth, N.Z.	42	2751	17 Aug.
Hillside Chemical Company, The, Newburgh, U.S.A.	3	2842	27 Oct.
Holophane (Limited), London, Eng.	15	2806	22 Sept.

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

Name and Address.	No. of Class.	No. of Application.	Date.
Hondai Lanka Tea Company. (See G. T. K. McKenzie.)	42	2636	18 April.
Howrth, H. W., Dunedin, N.Z.	42	2637	18 April.
Howrth, H. W., Dunedin, N.Z.	42	2633-4	12 June.
Howrth, H. W., Dunedin, N.Z.	42	2630	7 April.
Hudson, E., Birkenhead, Auckland, N.Z.	47	2708	20 July.
Hunt and Coxon, Christchurch, N.Z.	2	2822	5 Oct.
Hunt, W. J., Wellington, N.Z.	2	2887-8	1 Dec.
Hunt, W. J., Wellington, N.Z.	42	2885	28 Nov.
Hurse, J., and another, Fernside, Canterbury, N.Z.	42	2743	11 Aug.
Hutton, G. B., Auckland, N.Z.	42	2601	26 Jan.
Irvine and Stevenson. (See W. Stevenson.)	42	2898	11 Dec.
Jeyes's Sanitary Compounds Company (Limited), London, Eng.	44	2623	15 March.
Kearns, Younghusband, and Co., Auckland, N.Z.	2	2815	2 Oct.
Kemp, A. E., Gore, N.Z.	3	2816	2 Oct.
Kempthorne, Prosser, and Co.'s New Zealand Drug Company (Limited), Dunedin, N.Z.	42	2817	2 Oct.
Kempthorne, Prosser, and Co.'s New Zealand Drug Company (Limited), Dunedin, N.Z.	44	2818	2 Oct.
Kempthorne, Prosser, and Co.'s New Zealand Drug Company (Limited), Dunedin, N.Z.	47	2819	2 Oct.
Kempthorne, Prosser, and Co.'s New Zealand Drug Company (Limited), Dunedin, N.Z.	48	2820	2 Oct.
Kempthorne, Prosser, and Co.'s New Zealand Drug Company (Limited), Dunedin, N.Z.	50	2821	2 Oct.
Kerr, R., Newtown, Wellington, N.Z.	47	2696	4 July.
Knox-Tyree and Co., J., Wellington, N.Z.	44	2638	22 April.
Koefoed, H. L., Thames, N.Z.	42	2685	12 June.
Koefoed, H. L., Thames, N.Z.	42	2907	22 Dec.
Kohn, A., and another, Auckland, N.Z.	48	2700	18 July.
Kohn, A., and another, Auckland, N.Z.	48	2741	8 Aug.
Kronheimer and Co., J., Melbourne, Vic.	45	2588	8 May.
Lamb, F., and another, Napier, N.Z.	2	2621	6 March.
Langdown and Son, Christchurch, N.Z.	42	2594	16 Jan.
Lenz, W., Kuripuni, N.Z.	42	2781	5 Sept.
Levic, F., Sydney, N.S.W.	45	2900	14 Dec.
Levin Co-operative Dairy Company (Limited), Levin, Wellington, N.Z.	42	2808	25 Sept.
Little and Co., A. E., Lynn, U.S.A.	38	2599	20 Jan.
Luckie, F. de L., and others, Hastings, N.Z.	2	2831	12 Oct.
Luckie and Co. (See J. Tindall, A. J. Ellingham, and F. de L. Luckie.)	42	2596	18 Jan.
Mackerras and Hazlett, Dunedin, N.Z.	42	2713	21 July.
Mackerras and Hazlett, Dunedin, N.Z.	42	2713	21 July.
Manning and Co., J. (See J. M. Wigg.)	49	2614	16 Feb.
Maponite (Limited), London, Eng.	42	2848	3 Nov.
Markwald, H., Wellington, N.Z.	42	2882	25 Nov.
Martin, W. H., Upper Hutt, N.Z.	1	2714	22 July.
Mauri Brothers and Thomson, Sydney, N.S.W.	2	2715	22 July.
Mauri Brothers and Thomson, Sydney, N.S.W.	4	2716	22 July.
Mauri Brothers and Thomson, Sydney, N.S.W.	42	2717	22 July.
Mauri Brothers and Thomson, Sydney, N.S.W.	45	2718	22 July.
Mauri Brothers and Thomson, Sydney, N.S.W.	50	2719	22 July.
McDonald, S. M., Invercargill, N.Z.	38	2800	18 Sept.
McFarlane, A. and J., Dunedin, N.Z.	42	2864	13 Nov.
McGregor, T., Makaraka, N.Z.	42	2883	27 Nov.
McIntosh and Co., W. A., Dunedin, N.Z.	47	2666	23 May.
McKenzie, G. T. K., Dunedin, N.Z.	42	2660	12 May.
Miles, Stapleton, and Co. (See J. and W. Challoner.)	42	2785	11 Sept.
Moir and Co., Christchurch, N.Z.	37	2590	6 Jan.
Montgomery, G. A., Springfield, N.Z.	38	2744	11 Aug.
Mosgiel Woollen Factory Company (Limited), The, Dunedin, N.Z.	33	2792	12 Sept.
Mosgiel Woollen Factory Company (Limited), The, Dunedin, N.Z.	34	2793	12 Sept.
Mosgiel Woollen Factory Company (Limited), The, Dunedin, N.Z.	35	2794	12 Sept.
Mosgiel Woollen Factory Company (Limited), The, Dunedin, N.Z.	38	2795	12 Sept.
Muralo Company, The, New York, U.S.A.	41	2835	21 Oct.
Murphy, J. M., Mosstown, Wanganui, N.Z.	42	2797	15 Sept.
Nathan and Co., J., Wellington, N.Z.	42	2622	15 March.
Nathan and Co., J., Wellington, N.Z.	42	2752-7	21 Aug.
Nathan and Co., L. D., Auckland, N.Z.	39	2865	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	42	2866	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	43	2867	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	44	2868	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	45	2869	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	47	2870	13 Nov.
Nathan and Co., L. D., Auckland, N.Z.	48	2871	13 Nov.
Neil, J., Dunedin, N.Z.	3	2663	17 May.
Nelson Brothers (Limited), Tomoana, N.Z.	2	2598	20 Jan.
Nettlefolds (Limited), Birmingham and London, Eng.	5	2649	12 May.
Nettlefolds (Limited), Birmingham and London, Eng.	5	2651-3	12 May.
Nettlefolds (Limited), Birmingham and London, Eng.	13	2650	12 May.
Newing, A. B., Caulfield, Vic.	1	2681	12 June.
Newstadter Brothers, San Francisco, U.S.A.	38	2639	22 April.
Newton and Son, J., Kaiwarra, Wellington, N.Z.	47	2758	18 Aug.
New Zealand Loan and Mercantile Agency Company (Limited), The, Wellington, N.Z.	2	2843	3 Nov.
New Zealand Loan and Mercantile Agency Company (Limited), The, Wellington, N.Z.	5	2844	3 Nov.
New Zealand Loan and Mercantile Agency Company (Limited), The, Wellington, N.Z.	7	2845	3 Nov.
New Zealand Loan and Mercantile Agency Company (Limited), The, Wellington, N.Z.	12	2846	3 Nov.
New Zealand Loan and Mercantile Agency Company (Limited), The, Wellington, N.Z.	50	2847	3 Nov.
New Zealand Paint- and Varnish-manufacturing Company. (See J. Paterson.)	1	2604	30 Jan.
Nobles and Hoare, London, Eng.	45	2746-9	14 Aug.
Oakes and Co. (Limited), London, Eng.	45	2746-9	14 Aug.

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

Name and Address.	No. of Class.	No. of Application.	Date.
Ogdens (Limited), Sydney, N.S.W.	45	2711-2	21 July.
Onehunga Glue-manufacturing Company. (See E. Hudson.)			
Onewhero Co-operative Dairy Company, Onewhero, Auckland, N.Z. ..	42	2769	26 Aug.
Onewhero Co-operative Dairy Company, Onehunga, Auckland, N.Z. ..	42	2863	3 Nov.
Osborne, E., Foxton, N.Z.	3	2687	14 June.
Osmonds (Limited), Birmingham, Eng.	22	2672	25 May.
Owen and Co., E., Sheffield, Eng.	12	2894	7 Dec.
Owens and Costello. (See T. Owens and W. Costello.)			
Owens, T., and another, Greymouth, N.Z.	42	2784	11 Sept.
Paterson, J., Thames, N.Z.	1	2804	22 Sept.
Peck Brothers and Winch (Limited), London, Eng.	42	2648	11 May.
Perfect Coffee Company (Limited), The, London, Eng.	42	2589	10 May.
Pihl, D., Ohoka, Canterbury, N.Z.	42	2810	29 Sept.
Pocota Company. (See F. Lamb and H. Barlow.)			
Portland Cement-fabrik Saturn, Hamburg, Germany	17	2731	27 July.
Pretty and Son, W., Ipswich, Eng.	13	2829	9 Oct.
Pretty and Son, W., Ipswich, Eng.	38	2830	9 Oct.
Proprietary Lav-o-lan Wool-scouring Company (Limited), The, Adelaide, S.A. ..	4	2704	20 July.
Proprietary Lav-o-lan Wool-scouring Company (Limited), The, Adelaide, S.A. ..	47	2705	20 July.
Purdie and Co., J., Dunedin, N.Z.	44	2890	4 Dec.
Reckitt and Sons (Limited), Sydney, N.S.W.; Hull and London, Eng. ..	50	2645	27 April.
Reece and Sons, E., Christchurch, N.Z.	10	2695	3 July.
Renzy. (See De Renzy.)			
Rewa Co-operative Dairy Company (Limited), Rewa, Wellington, N.Z. ..	42	2619	3 March.
Reynolds, J. T., and others, Manchester, Eng.	24	2697	13 July.
Roberts, C. P., Oamaru, N.Z.	39	2629	4 April.
Robinson and Sons, J., Christchurch, N.Z.	44	2612	14 Feb.
Roederer, L. O., Reims, France	43	2670	25 May.
Rosella Preserving Company Proprietary (Limited), North Melbourne, Vic. ..	42	2738	3 Aug.
Rosella Preserving Company Proprietary (Limited), North Melbourne, Vic. ..	42	2733	9 Sept.
Salmon and Gluckstein (Limited), London, Eng.	45	2654-9	12 May.
Saunders and Co., Christchurch, N.Z.	44	2906	22 Dec.
Schaper, F., Hamburg, Germany	45	2675	5 June.
Shanly, J., Christchurch, N.Z.	48	2710	21 July.
Sharland and Co. (Limited), Wellington, N.Z.	50	2796	13 Sept.
Sharland and Co. (Limited), Wellington, N.Z.	50	2833	16 Oct.
Sharland and Co. (Limited), Wellington, N.Z.	42	2852-3	8 Nov.
Sprosen, H. L., Dunedin, N.Z.	2	2733	31 July.
Stevenson, W., Dunedin, N.Z.	42	2694	28 June.
Suter Hartmann and Rahtjens Composition Company (Limited), London, Eng. ..	1	2896	8 Dec.
Swann and Co., J. H., Dunedin, N.Z.	47	2740	4 Aug.
Taine, W., Dunedin, N.Z.	1	2759	21 Aug.
Taine, W., Dunedin, N.Z.	17	2760	21 Aug.
Taine, W., Dunedin, N.Z.	47	2761	21 Aug.
Taine, W., Dunedin, N.Z.	50	2762	21 Aug.
Thorne and Sons (Limited), R., London, Eng.; and Greenock, Scotland ..	43	2620	3 March.
Thum Company, The O. and W., Grand Rapids, U.S.A.	2	2686	12 June.
Tindall, J., and others, Hastings, N.Z.	2	2831	12 Oct.
Trading Stamp Company, The, Auckland, N.Z.	39	2586	4 Jan.
Trench's Remedies (Limited), Dublin, Ireland.	3	2680	8 June.
Trilene Company, The. (See D. Bennett.)			
Turner and Co., T., Sheffield, Eng.	12	2895	7 Dec.
Turner and Turner, Wellington, N.Z.	42	2625	17 March.
Tweedie and McLean, Riverton, N.Z.	42	2627	21 March.
Tyree, J. Knox. (See Knox-Tyree.)			
Usherwood, A. E., Dunedin, N.Z.	47	2628	24 March.
Vacuum Oil Company, Rochester, U.S.A.; London, Eng.; Melbourne, Vic.; &c. ..	47	2764-6	22 Aug.
Vacuum Oil Company, Rochester, U.S.A.; London, Eng.; Melbourne, Vic.; &c. ..	47	2837	24 Oct.
Vinolia Company (Limited), London, Eng.	47	2811	29 Sept.
Vinolia Company (Limited), London, Eng.	48	2812	29 Sept.
Vinolia Company (Limited), London, Eng.	47	2854	8 Nov.
Vinolia Company (Limited), London, Eng.	48	2855	8 Nov.
Wairarapa Farmers' Co-operative Association (Limited), The, Masterton, N.Z. ..	42	2667	23 May.
Walker, J. M. and A. F., and another, Manchester, Eng.	24	2697	13 July.
Walker, T. H., Awhitu, N.Z.	42	2635	15 April.
Walker and Co., J. M. (See J. M. and A. F. Walker and J. T. Reynolds.)			
Walsh, A., Auckland, N.Z.	45	2799	16 Sept.
Walsh and Co., Austin. (See A. Walsh.)			
Ward and Co. (Limited), Christchurch, N.Z.	43	2669	26 May.
Ward and Co. (Limited), Christchurch, N.Z.	43	2891	7 Dec.
Watson and McGill, Petersburg, U.S.A.	45	2901-5	15 Dec.
Wellington Bacon-curing and Refrigerating Company. (See W. Dimock and Co.)			
White (Limited), A. J., London, Eng.	3	2679	8 June.
Whitlock, F., Wanganui, N.Z.	42	2836	24 Oct.
Wigg, J. M., Auckland, N.Z.	3	2634	14 April.
Wilkie and Co., J., Dunedin, N.Z.	42	2699	17 July.
Williams, E. T., Picton, N.Z.	39	2856	10 Nov.
Wills (Limited), W. D. and H. O., Bedminster, Bristol, and London, Eng. ..	45	2735-7	1 Aug.
Wilson, J. F., Auckland, N.Z.	42	2593	14 Jan.
Wilson and Co., R., Dunedin, N.Z.	42	2662	17 May.
Wingfield, Rowbotham, and Co. (See T. Turner and Co.)			
Wolff, A. C., Wellington, N.Z.	45	2889	1 Dec.
Woodley and McNaught, Wellington, N.Z.	42	2673	30 May.

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