

ALPHABETICAL LIST OF INVENTIONS—*continued.*

Invention.	Name.	Application.		Gazette.	
		No.	Date.	No.	Date.
Seat, Roadster and gig	A. C. Atkin	16051	2 March ..	21	19 March.*
Secondary battery	C. T. J. Oppermann	15960	10 Feb. ..	13	19 Feb.
Securing doors, windows, &c. ..	J. D. Tripe	15838	6 Jan. ..	6	23 Jan.*
Securing ends of machinery-belt	H. F. Mander and F. Lewis ..	15987	17 Feb. ..	18	5 March.*
Securing fastening of rails ..	J. E. Tonkin, W. Ames, and W. E. H. Nicolle	15995	18 Feb. ..	25	2 April.
Securing front of animal-cover ..	A. S. Hasell	16038	2 March ..	21	19 March.*
Securing handle to broom-head ..	D. M. Brooks	15980	14 Feb. ..	21	19 March.
Seed sower	W. E. Chamberlain	15806	23 Dec. ..	21	19 March.
Seed-sower	H. Kerr	15910	24 Jan. ..	9	5 Feb.*
Seed-sowing apparatus	M. McCormick	14727	7 April, 1902	6	23 Jan.
Selective signalling by electro-magnetic waves	R. A. Fessenden	15846	7 Jan. ..	6	23 Jan.
Selenotrope and Tellurian	A. Hosking	15895	20 Jan. ..	13	19 Feb.
Self-lighting fitting for gas-burner ..	S. Shaw	14899	22 May, 1902	18	5 March.
Self-tightening nut and washer ..	T. Hewton	15880	15 Jan. ..	9	5 Feb.
Self-tilting table	R. Harvey and C. J. Bruce ..	16132	25 March ..	25	2 April.
Separating iron from sand	F. W. Taylor	16150	28 March ..	29	16 April.*
Separating oily impurities from water	H. T. Davis and E. Perrett ..	15854	9 Jan. ..	6	23 Jan.
Separator. (See Centrifugal separator, Cream-separator, Magnetic separator, Oil-separator.)					
Sewage on to filter-beds, Distributing ..	E. S. Baldwin and H. H. Ray- ward	15968	12 Feb. ..	21	19 March.
Sewing-machine, Perforating-attachment to Sewing-machine. (See Blind-stitch sewing- machine, Shoe-sewing machine.)	E. Spragg	16104	14 March ..	25	2 April.*
Shaft, Dredge-tumbler	E. Roberts	16057	3 March ..	25	2 April.
Sheaf-carrier of harvester	J. V. Fahey	14637	15 March, '02	6	23 Jan.
Shear-blades crossing, Preventing ..	J. Reid	15976	10 Feb. ..	13	19 Feb.*
Shear-regulator	C. V. Affleck	15953	5 Feb. ..	13	19 Feb.*
Shearing-machine, Metal	D. Donald	14559	25 Feb., 1902	6	23 Jan.
Shears, Thumb and guard attachment for	J. McGrath	16056	6 March ..	21	19 March.
Sheep-bags, Printing	D. Urquhart	15891	20 Jan. ..	9	5 Feb.*
Sheep-dipping apparatus	S. E. Denniston	15992	13 Feb. ..	18	5 March.
Sheep-drafting apparatus	J. Dick	16006	20 Feb. ..	18	5 March.
Sheep-shears	C. J. Shipway and H. May ..	14932	29 May, 1902	6	23 Jan.
Sheep-shears	H. Hartree	16054	4 March ..	21	19 March.*
Sheep-shears, Grip for handle of	S. F. Clare	15946	2 Feb. ..	13	19 Feb.*
Sheet-metal can or box	F. W. Feaver	15856	10 Jan. ..	9	5 Feb.
Sheet metal into cubes, Forming ..	W. H. Pearson	16114	18 March ..	29	16 April.
Shell for cream-separator	T. H. Vickery	15900	21 Jan. ..	9	5 Feb.*
Shield for stay-busk	A. F. Wall	14703	4 April, 1902	6	23 Jan.
Ship, Mounting billiard-table in	W. McKenzie	15979	14 Feb. ..	13	19 Feb.*
Ship's raft	Union Steamship Company of New Zealand (Limited) ..	15975	12 Feb. ..	21	19 March.
Ship's raft	J. Waymouth	16028	23 Feb. ..	21	19 March.*
Ship's telegraph	J. Ormiston	15832	6 Jan. ..	6	23 Jan.*
Shoe, Fastening lacing-hooks in	United Shoe Machinery Company	16108	19 March ..	25	2 April.
Shoe-sewing machine	United Shoe Machinery Company	16108	19 March ..	25	2 April.
Side-slip of cycle, Preventing ..	S. Butler	16178	31 March ..	29	16 April.
Signalling-apparatus for cable-tramway	W. J. Dunstan	16176	31 March ..	29	16 April.*
Signalling by electro-magnetic waves	R. A. Fessenden	15846	7 Jan. ..	6	23 Jan.
Signalling-system for electric railway	W. E. Hughes	15908	27 Jan. ..	9	5 Feb.
Single or poly-phase current source, Ob- taining unidirectional current from ..	J. P. Campbell	15898	23 Jan. ..	9	5 Feb.
Siphon	J. W. Tong	15877	19 Jan. ..	9	5 Feb.
Skidding of cycle, &c., Preventing ..	S. Butler	16178	31 March ..	29	16 April.
Skylight	J. D. Florant	15970	12 Feb. ..	13	19 Feb.*
Slag, Generating steam from hot ..	H. A. Seymour	15851	9 Jan. ..	6	23 Jan.
Slaking lime, Apparatus for	E. J. Parrott	14866	7 May, 1902	25	2 April.
Slicer, Cucumber, &c.	M. C. Cossar	16156	31 March ..	29	16 April.*
Sluice-box, Withdrawing material from	J. Thomson	15849	5 Jan. ..	6	23 Jan.*
Smelting ironsand	A. Reid	16097	16 March ..	25	2 April.*
Smoke-abatement arrangement ..	G. Fraser and L. Le B. Mount ..	15957	7 Feb. ..	18	5 March.*
Smoke-consumer	H. E. Leighton	16117	21 March ..	..	..
Smoke-minimiser	G. W. Basley	15998	16 Feb. ..	18	5 March.
Smoke or spark arrester	B. Crawford	15882	15 Jan. ..	18	5 March.*
Smoking-pipe clip	G. Aldous	15984	16 Feb. ..	18	5 March.
Soap-moulding machine	K. Schnetzer	15727	3 Dec., 1902	18	5 March.
Sodawater-bottle opener	S. White	15921	27 Jan. ..	9	5 Feb.*
Sole for boot or shoe	E. Dimant	15101	10 July, 1902	6	23 Jan.
Sower. (See Seed-sower.)					
Sowing seed and cereals	W. E. Chamberlain	15806	23 Dec., 1902	21	19 March.
Spark-arrester	H. Gunn	14859	6 May, 1902	13	19 Feb.*
Spark-arrester	B. Crawford	15882	15 Jan. ..	18	5 March.*
Spark-extinguisher	C. W. Haines	14857	8 May, 1902	13	19 Feb.
Speed-gearing. (See Pedal-action and speed, Variable-speed gearing.)					
Spinning-top	J. C. Corbett	16181	31 March ..	29	16 April.*
Spirit-level	F. W. Crowther	16061	6 March ..	21	19 March.*
Split-link, hook, &c.	J. Holms, jun.	15933	30 Jan. ..	13	19 Feb.*
Splitting. (See Leather-splitting.)					
Spouting	J. P. Evans	14942	24 May, 1902	18	5 March.
Spreading polish on floors	J. Stewart	16090	12 March ..	25	2 April.*