

ALPHABETICAL LIST OF TITLES OF INVENTIONS—*continued.*

Invention, and Name of Inventor.	No.	Date.
Show-case, Axe. E. O. Risstrom	15385	11 Sept.
Shrinking cloth, &c. M. B. Silk	15166	24 July.
Shunting-appliances. W. Taylor	14499	6 Feb.
Shutter. (See Window-shutter.)		
Signalling. (See Railway-signalling.)		
Signalling at facing-points. J. S. Kirkpatrick	14995	9 June.
Signalling by electro-magnetic waves. E. Waters, jun.	15374	6 Sept.
Signalling by electro-magnetic waves. E. Waters, jun.	15375	6 Sept.
Signalling by electro-magnetic waves. E. Waters, jun.	15394	10 Sept.
Signalling state of tide. G. Allman	15611	6 Nov.
Signalling state of tide. G. Allman, F. Clennell, and H. L. Moffatt	15776	17 Dec.
Silt from tanks, Automatically ejecting. R. H. Coltman	15281	22 Aug.
Silver-sulphide, Extracting, from ore. E. S. Baldwin and H. H. Rayward	15687	27 Nov.
Single-ball ore-pulveriser. T. H. Hicks	15096	10 July.
Siphon. J. H. S. Brown	14678	27 March.
Siphon. J. H. S. Brown	14838	5 May.
Siphon. D. Seymour	15302	26 Aug.
Siphon. R. Williams	15698	26 Nov.
Siphon. W. Waters	15702	27 Nov.
Siphon flushing-tank. A. Burt, jun.	15562	25 Oct.
Siphon for water-closet. J. Constable	15670	22 Nov.
Siphon pump for drawing off liquids. W. H. Boyens	14396	3 Jan.
Siphon, Kerosene-. G. F. Hutchinson and G. W. Symmans	14951	4 June.
Skin, Preparation for. K. Cooper	15520	15 Oct.
Skirt. S. Hutchins	14892	21 May.
Skirt. (See also Ladies' skirt.)		
Skiving-machine. United Shoe Machinery Company	15203	2 Aug.
Skiving-machine. United Shoe Machinery Company	15204	2 Aug.
Skiving machine, Leather-. United Shoe Machinery Company	15207	2 Aug.
Skylight. T. Ballinger	14491	3 Feb.
Skylight. T. Ballinger	14604	11 March.
Slag, Utilising heat of. G. Mitchell and L. D. Copeland	15424	19 Sept.
Sleeve and means of securing to tumbler-shaft. J. Murison	14683	25 March.
Sleeve of lower tumbler-shaft, Attaching. J. Murison and C. L. Watt	14808	26 April.
Slicer. (See Bacon-slicer. Ham and bacon slicer.)		
Sliding-rod vehicle-wheel lock. T. Firth	15369	9 Sept.
Sling and shackle. W. Beamish	15507	11 Oct.
Sluice-box, Breaking clay in. C. T. Swanell and W. Lee	15182	24 July.
Smoke-cooling attachment, &c., to tobacco-pipe. W. A. Ede-Clendinnen	15384	11 Sept.
Smoke-consumer. W. H. Atkin	15219	2 Aug.
Smoke-consumer. R. D. Brett and T. P. Wood	15229	7 Aug.
Smoke or fumes, Pumping. D. Hanna	15643	19 Nov.
Smoke-stack, Spark-stopper for. H. Gunn	14859	6 May.
Snatch-block. E. Smyth and F. Currie	15252	12 Aug.
Snatch-block for steel ropes, &c. W. S. Hutcheson	14800	28 April.
Soap-manufacturing. E. Waters	14584	6 March.
Soap-moulding machine. K. Schnetzer	15727	3 Dec.
Soda-water bottle, Opening. S. White	15697	26 Nov.
Soldering. (See Can-soldering.)		
Soldering seams of can-bodies. G. W. Berry	14933	29 May.
Sole. (See Boot-sole.)		
Sole-laying machine, Pressing-form for. United Shoe Machinery Company	15228	7 Aug.
Sound reproducing and transmitting diaphragm. H. G. A. I. Wieder and S. S. Bromhead	14572	3 March.
Sound-trumpet of graphophone. W. C. Runge	15047	27 June.
Sower. (See Seed-sower.)		
Sowing seed with fertiliser. P. F. A. and J. Robertson	15550	16 Oct.
Spanner-attachment. P. Rayson	15159	24 July.
Spark-arrester. G. Claydon	14528	14 Feb.
Spark-arrester. C. E. Hodge	14633	18 March.
Spark-arrester. F. E. Rogers and E. Hosking	14958	5 June.
Spark-arrester. E. A. Cameron	15019	16 June.
Spark-arrester. R. Hollis, J. A. Cockburn, and C. E. Grindrod	15167	24 July.
Spark-arrester. J. Mallett	15315	27 Aug.
Spark-arrester. N. Watt	15362	5 Sept.
Spark-arrester. J. Whitehouse	15429	22 Sept.
Spark-arrester and draught-controlling apparatus. J. C. Bowring	15715	4 Dec.
Spark-arrester for locomotive. H. S. Wainwright	15617	7 Nov.
Spark-arrester for locomotive. J. Baird	15638	15 Nov.
Spark-catcher. H. A. Cooper	14530	15 Feb.
Spark-catcher. C. W. Constable	15485	1 Oct.
Spark-extinguisher. C. W. Haines.. .. .	14857	8 May.
Spark-preventer. C. Rillstone	15112	8 July.
Spark-stopper. H. Gunn	14859	6 May.
Spindle attachment for door-knob. J. E. A. Frost	14927	23 May.
Spindle, Securing door-knob to. T. B. Jacobsen	14851	6 May.
Sponge, Restoring overworked. R. Todd	15470	3 Oct.
Spotting-disc for canvas target, Fixing. C. H. Shattky	14901	17 May.
Spouting. J. P. Evans	14942	24 May.
Sprayer. F. and T. Mercer and G. D. J. Duck	14707	5 April.
Spreader for draught-chains. W. H. Reynolds	14722	8 April.
Spreader for draught-chains. W. S. Ayson	15190	29 July.
Spreading liquid over given areas. E. S. Baldwin and H. H. Rayward	15417	18 Sept.
Spring-grip dumb-bell. E. N. Keamy	15271	19 Aug.
Spring-grip dumb-bell, Converting an ordinary into. J. Payne	15639	14 Nov.
Spring-hook. W. Borlase and A. Taylor	14998	9 June.
Spring-hook. L. D. Robertson	15328	26 Aug.
Spring-hook, Buckle attachment to. A. Douglas	14454	21 Jan.