

ALPHABETICAL LIST OF INVENTIONS—*continued.*

Invention.	Name.	Application.		Gazette.	
		No.	Date.	No.	Date.
Smoke-consumer and fuel-economizer ..	C. J. Johnson and J. Carlaw ..	19573	6 June ..	57	15 June.*
Smoke-consumer and fuel-economizer ..	C. J. Johnson and J. Carlaw ..	19291	1 April ..	38	20 April.*
Smoke-preventer and fuel-economizer ..	E. Richardson ..	19570	7 June ..	57	15 June.*
Soil-pipe, Ventilating ..	T. C. Hement ..	19549	1 June ..	57	15 June.*
Sole. (See Boot-sole.)					
Sower and ridger ..	A. Storrie ..	19557	6 June ..	67	13 July.
Sower. (See Seed-sower.)					
Spanner ..	C. Duckett ..	19489	18 May ..	53	1 June.*
Spark-arrester ..	G. Grimmer ..	19307	5 April ..	42	4 May.*
Spark-arrester ..	J. Holden and E. S. Tiddeman ..	19464	15 May ..	57	15 June.
Spark-arrester ..	R. Tautau ..	19624	23 June ..	..	..
Speed-recorder ..	T. W. Mayson ..	19576	6 June ..	57	15 June.*
Spinning machine, Ring- ..	W. A. Stetson ..	19308	6 April ..	42	4 May.
Spouting-bracket ..	T. McNellis ..	19346	13 April ..	..	..
Spouting-bracket ..	R. W. Ashcroft ..	19347	14 April ..	57	15 June.
Spouting-bracket ..	G. H. Clapham and J. L. Barlow ..	19411	1 May ..	46	18 May.*
Spouting-bracket ..	T. Ballinger and W. Milligan ..	19525	29 May ..	67	13 July.
Spouting, O.G. ..	T. C. Hement ..	18528	1 Oct., 1904	38	20 April.
Sprayer ..	R. Millar ..	19361	15 April ..	61	29 June.
Spreader for chains ..	J. Pomeroy ..	19517	22 May ..	57	15 June.*
Spurs ..	W. H. Connelly ..	18385	31 Aug., 1904	61	29 June.
Spring-cart ..	W. S. Bagby ..	19313	7 April ..	42	4 May.*
Spurs, Securing rowels to ..	W. H. Connelly ..	18384	31 Aug., 1904	61	29 June.
Stacking-machine ..	G. Methven and W. S. Gardner ..	19442	6 May ..	..	..
Stair, Non-slip ..	R. Clark ..	19492	17 May ..	53	1 June.*
Stamp-affixing device ..	C. B. Smith ..	19439	4 May ..	46	18 May.*
Stamp-battery, Mortar for ..	W. A. Merralls ..	19421	4 May ..	53	1 June.*
Stamp. (See Postage-stamp.)					
Stand. (See Portable stand, Tripod stand.)					
Standard-jack ..	E. Hayes ..	19228	20 March ..	42	4 May.*
Standard. (See Fencing-standard, Iron standard.)					
Staple making and driving machine ..	United Shoe Machinery Company ..	19610	20 June ..	61	29 June.*
Starch manufacture ..	W. W. Shelmerdine ..	19597	15 June ..	61	29 June.*
Station-indicator ..	H. T. Smith and A. E. Brown ..	19430	3 May ..	46	18 May.*
Steam-boiler cleaning-solution ..	A. Cheers and A. H. Goodin ..	19524	29 May ..	61	29 June.
Steam-boiler, Hot-blast apparatus for ..	F. W. Payne and R. McLintock ..	19604	14 June ..	67	13 July.
Steam-boiler, Multi-tubular ..	J. F. Liebenritt ..	19569	7 June ..	..	..
Steamer and boiler ..	R. W. Fairbrother ..	19379	20 April ..	57	1 June.*
Stirrup-strap attachment ..	F. W. Barton, W. Morton, and J. Hercus ..	19458	9 May ..	61	29 June.
Stone. (See Artificial stone, Sharpening-stone.)					
Stop-cock ..	T. Ritchie ..	19693	28 June ..	..	..
Stopper. (See Bottle-stopper, Horse-stopper.)					
Stopper for submarine-mining purposes ..	F. H. Porter ..	19349	15 April ..	42	4 May.*
Strainer. (See Milk-strainer, Wire-strainer.)					
Strap-harness, Detaching tongue of buckle from ..	E. W. Thurgar ..	19657	28 June ..	67	13 July.*
Strap. (See Leg-strap, Pedal-strap, Stirrup-strap.)					
Strapping. (See Horse-cover strapping.)					
Stud for collar, shirt, and cuff ..	E. W. Thurgar ..	19658	28 June ..	67	13 July.*
Submarine-mining, Stopper for ..	F. H. Porter ..	19349	15 April ..	42	4 May.*
Sulphide ores, Production of zinc from ..	T. J. Heskett ..	19590	14 June ..	61	29 June.*
Sulphide ores, Production of zinc from ..	T. J. Heskett ..	19591	14 June ..	61	29 June.*
Sunken vessel, Raising ..	E. H. P. Mantou ..	19548	2 June ..	..	..
Sunken vessels, Raising ..	The Clyde Salvage Pearl-fishing and Diving Company, Limited ..	19270	30 March ..	38	20 April.*
Sun, Measuring altitude of ..	W. Chappell ..	19353	12 April ..	42	4 May.*
Support. (See Abdominal-support, Bicycle-support, Bust-support, Chair-support, Electric-light support, Foot-support, Instep-support, Lifting-jack support, Music-support.)					
Suspender. (See Curtain-suspender.)					
Swing ..	W. J. Robertson ..	19588	14 June ..	61	29 June.*
Syrup-gauge for bottling-machine ..	A. J. L. Eckersley ..	19494	18 May ..	61	29 June.
Table-golf ..	W. P. Porteous ..	19261	28 March ..	42	4 May.
Table. (See Binding-table, Concentrating-table.)					
Tank, Pipe for preventing dirty rain-water entering ..	C. Burridge ..	19406	28 April ..	46	18 May.*
Tap for tins, &c. ..	H. S. Clark ..	18874	16 Dec., 1904	61	29 June.
Tap for tins, &c. ..	H. S. Clark ..	19289	31 March ..	42	4 May.*
Tap, Frost-proof ..	D. M. Watson ..	19480	15 May ..	..	..
Taps or valves, Guides for ..	J. Anderson ..	19211	15 March ..	38	20 April.
Tape or chain measure ..	W. S. Trayes ..	19572	5 June ..	57	15 June.*
Teat-cup, Pneumatic ..	A. Gillies ..	19153	1 March ..	61	29 June.
Telegraph apparatus ..	H. C. Braun ..	18064	21 June, 1904	38	20 April.