

ALPHABETICAL LIST OF INVENTIONS—continued.

Invention.	Name.	Application.		Gazette.	
		No.	Date.	No.	Date.
Rug fastening, Horse and cattle ..	A. J. Fiske ..	17013	23 Sept.	81	15 Oct.*
Sack-mouth fastener ..	W. Beamish ..	16683	20 July	66	20 Aug.*
Saddle and collar for horse ..	J. Marshall ..	16725	31 July	66	20 Aug.*
Saddle, Riding- ..	A. Lappan ..	16866	27 Aug.	74	17 Sept.*
Saddle, Securing staple of riding- ..	F. Shrimpton ..	16934	9 Sept.	81	15 Oct.
Saddle-stirrup bar ..	R. H. Robson and J. Coogan ..	16768	7 Aug.	70	3 Sept.
Safe, Cold-storage ..	W. H. Edwards ..	16737	31 July	66	20 Aug.*
Salt, Producer for liquid ..	R. W. Curry ..	16991	17 Sept.	87	12 Nov.
Sash-cord fastening ..	J. Grove ..	16596	6 July	60	23 July.*
Sash-cord, Preventing, running back over pulley ..	C. E. Anscombe ..	16644	14 July	63	6 Aug.*
Sash-fastener ..	A. F. W. Lorie ..	16418	29 May	70	3 Sept.
Sash-fastener ..	H. A. Scott ..	16616	7 July	60	23 July.*
Sash, Hanging ..	W. Sloan, jun. ..	16623	8 July	63	6 Aug.*
Sash-regulator ..	F. L. Davis ..	16648	17 July	63	6 Aug.*
Sash. (See Window-sash.) ..					
Sashes, window, Locking, &c. ..	A. H. W. Wedler ..	16668	22 July	66	20 Aug.
Saucepan ..	J. D'Esmonde ..	16960	9 Sept.	78	1 Oct.*
Saving gold ..	J. W. McKirdy ..	16924	7 Sept.	74	17 Sept.*
Saws, circular, Holding-packing for ..	R. Wales ..	16654	15 July	63	6 Aug.*
Scarf-pin ..	M. J. C. Jonassen ..	16667	20 July	63	6 Aug.*
Scow and surf-boat ..	J. Shepherd ..	16732	28 July	66	20 Aug.*
Screen, Dredging- ..	P. W. Hambleton, D. Williams, and J. Duncan ..	16842	22 Aug.	74	17 Sept.*
Screening gravel, Machine for ..	H. Quertier ..	15586	31 Oct., 1902	66	20 Aug.
Screening gravel, Machine for ..	H. Quertier ..	16712	30 July	66	20 Aug.
Screw-cutting stock and dies ..	J. Vorbach ..	16783	12 Aug.	70	3 Sept.
Scutching machine, Flax- ..	A. E. Reeves ..	15710	29 Nov., 1902	74	17 Sept.
Sea and surf anchor ..	J. C. Voss ..	16762	5 Aug.	66	20 Aug.*
Sealing bottles, &c. ..	E. S. Baldwin and H. H. Rayward ..	16929	9 Sept.	78	1 Oct.
Sealing jars ..	W. Stevenson ..	16717	29 July		
Seal lock ..	J. Channon ..	16753	6 Aug.	60	3 Sept.
Seal lock ..	J. Channon ..	16948	10 Sept.	81	15 Oct.
Seat, Tramway ..	A. Ashcroft and S. Clark ..	16905	29 Aug.	74	17 Sept.*
Seat, Vibrator-preventer for ..	O. Stewart ..	17052	26 Sept.	84	29 Oct.
Seat, Water-closet ..	T. d'A. C. Maxted ..	16847	21 Aug.	74	17 Sept.
Secondary battery ..	W. Peto and J. W. T. Cadett ..	16703	29 Jan.†	66	20 Aug.
Seed, calculating quantity sown ..	F. Burn and W. S. Harkness ..	16827	20 Aug.	70	3 Sept.*
Seed-drill ..	R. B. Restell ..	16235	16 April	63	6 Aug.
Seed-sower ..	J. H. Millar ..	16938	10 Sept.	78	1 Oct.*
Seed-sower ..	W. B. Veirs ..	16626	13 July	63	6 Aug.*
Seed-sowing canister ..	E. Bowmar ..	15604	5 Nov., 1902	66	20 Aug.
Separation, Dry, of ores ..	T. A. Edison ..	16621	8 July	63	6 Aug.
Separation of metals ..	J. D. Wolf ..	17051	29 Sept.	84	29 Oct.
Separation of milk and cream..	H. Hunt, S. A. M. Rose, and J. G. Howard ..	16731	31 July	66	20 Aug.*
Separator, Electrical, for ironsand ..	R. Howland ..	16979	16 Sept.	78	1 Oct.*
Separator, Liquid- ..	A. Harvey ..	16739	31 July	70	3 Sept.
Separator, Liquid- ..	T. G. Rennerfelt ..	16804	12 Aug.	70	3 Sept.
Septic-tank siphon ..	A. J. Hunter ..	16926	4 Sept.	78	1 Oct.
Sewage, Treatment of ..	R. W. de Montalk ..	16894	27 Aug.	74	17 Sept.*
Sewage, Treating ..	J. P. Frengley ..	16831	21 Aug.	70	3 Sept.*
Sewing-machine ..	H. Manning ..	16747	5 Aug.	70	3 Sept.
Sewing-machine, Rotary take-up for ..	P. Diehl and M. Hemleb ..	16828	18 Aug.	74	17 Sept.
Shackle ..	W. Beamish ..	16863	21 Aug.	74	7 Sept.*
Shackle, Sling and ..	W. Beamish ..	16682	20 July	66	20 Aug.*
Sharpener, Rock-drill ..	A. Purser, F. W. Jenkins, C. R. McA. Millar ..	15852	9 Jan.	60	23 July.
Sharpener, Slate-pencil ..	D. McKenzie ..	16586	1 July	60	23 July.*
Shear-blades, Preventing, from crossing ..	J. Reid ..	15976	10 Feb.	70	3 Sept.
Shearing and punching machine ..	J. W. and S. Hardley ..	16775	11 Aug.	70	3 Sept.*
Shearing machine, Joint and casing for ..	Wolseley Sheep-shearing Company, Limited, and H. Austin ..	16909	4 Sept.	78	1 Oct.
Shearing machine, Metal- ..	R. Norrie ..	16904	3 Sept.	78	1 Oct.
Sheep-dipping platform ..	C. Johnston ..	16953	10 Sept.	78	1 Oct.*
Sheep-shears ..	R. D. Polson ..	16788	8 Aug.	70	3 Sept.*
Sheep-shears ..	H. Hartree ..	16054	4 March	60	23 July.*
Sheepskins, Removing wool from ..	C. C. Smith ..	16846	21 Aug.	70	3 Sept.*
Sheep, Travelling-race for ..	C. Rask and E. A. Cameron ..	16627	8 July	63	6 Aug.*
Sheet-metal cutter ..	W. Anderson ..	16962	9 Sept.	78	1 Oct.*
Ship-canal ..	F. Lambert ..	16578	3 July	66	20 Aug.*
Ship's hull, Stopping holes in ..	E. Smith ..	17010	18 Sept.	81	15 Oct.*
Shoe, Connecting, to cycle-treadle ..	S. McDonald and G. B. Lamborn ..	16660	18 July	63	6 Aug.*
Shot-making machinery ..	W. H. Pearson and W. Peters ..	16628	9 July	63	6 Aug.
Shot patterns, Recording ..	A. W. A. Barnard ..	16618	7 July	60	23 July.*
Sighting-bar for rifle ..	T. Carkeek ..	16766	7 Aug.	70	3 Sept.*
Signalling, Railway ..	G. Renner and W. H. Boyens ..	16612	10 July	60	23 July.*
Signal, Warning- ..	G. M. Scott ..	17005	17 Sept.	81	15 Oct.*
Silencer, Engine- ..	A. C. Baird ..	16875	25 Aug.	74	17 Sept.*
Silencer, Engine- ..	A. C. Baird ..	16716	29 July	66	20 Aug.*
Siphon ..	E. V. Sanderson and H. Mackay ..	16659	18 July	66	20 Aug.
Siphon and pump ..	J. W. Tong ..	16594	6 July	78	1 Oct.