

ALPHABETICAL LIST OF INVENTIONS—continued.

Invention.	Name.	Application.		Gazette.	
		No.	Date.	No.	Date.
Typewriter	G. W. Donning and H. T. Ambrose	16556	23 June ..	63	6 August.
Umbrella-tip retainer	J. Coventry	15989	14 Feb. ..	50	25 June.
Urinal, automatic flushing	J. L. Williams	16164	30 Dec., 1902	37	14 May.
Valve-gear for steam-engine	W. Mayne	16185	4 April ..	29	16 April.
Vehicle-brake	W. Murphy	16353	12 May ..	43	28 May.*
Vehicle-brake	W. E. Hughes	16536	24 June ..	60	23 July.
Vehicles, Drawbar for	G. S. Stevenson	16458	9 June ..	50	25 June.*
Vehicle draw-gear, Outrigger	R. D. Kelly	15254	15 Aug., 1902	37	14 May.
Vehicle wheel, Road-	J. Ainsworth	16241	15 April ..	37	14 May.
Vehicle, &c., wheel	D. Pope	16203	3 April ..	29	16 April.*
Vehicle-wheel lubricator	A. M. Legge	16248	16 April ..	33	30 April.*
Vehicle-wheel lock	A. Cooper	15232	7 Aug., 1902	43	28 May.
Vehicle-wheel lock	T. Firth	16450	8 June ..	60	23 July.
Vending machine. (See Newspaper-vending machine.)					
Venetian blinds, Operating	G. Stevenson	16190	4 April ..	29	16 April.*
Ventilation of sewer	R. R. Donaldson	16197	6 April ..	29	16 April.
Ventilator	S. H. Jacobson	16512	18 June ..	..	..
Ventilator, Double-current	H. I. M. Ross	16368	13 May ..	47	11 June.
Ventilator for window-sash	A. P. Masters	16441	6 June ..	47	11 June.*
Ventilator, Ship's	T. Q. East	16225	14 April ..	33	30 April.*
Ventilator, window-blind, and fire-screen..	E. Walker	16552	26 June ..	57	9 July.*
Vessel, Raising sunken	D. C. Groves and A. R. Stanton..	16096	16 March ..	37	14 May.
Vessels, Draw-off attachment for	L. E. and H. J. Saunders ..	16534	24 June ..	60	23 July.
Vulcanised outer cover for tires ..	G. T. Shilton and A. Schultze ..	16196	2 April ..	29	16 April.*
Wagon. (See Tip-wagon.)					
Walls, Covering of	J. B. Watt	16485	13 June ..	50	25 June.*
Washer	J. Orbell	16201	3 April ..	29	16 April.*
Wash-hand basin	F. W. Gordon	16293	27 April ..	37	14 May.
Washing and drying wool	H. Ashworth	16311	7 May ..	43	28 May.
Washing-copper	C. Slemitz	15064	30 June, 1902	29	16 April.
Washing crockery, Apparatus for	L. Davie	16423	1 June ..	50	25 June.*
Washing-machine	S. J. Osmond	16285	30 April ..	..	..
Watches, Luminous rim for	J. S. Gray	16383	22 May ..	47	11 June.*
Water-filter	J. T. N. Anderson	15756	11 Dec., 1902	43	28 May.
Water-gauge for steam-boilers..	R. P. Gibbons	16425	2 June ..	50	25 June.
Water-power, Driving dredge by	J. T. Johnson	15086	3 July, 1902	29	16 April.
Waterproof-hood	C. F. Giesen	16357	15 May ..	43	28 May.*
Waterproofing composition	J. Taylor	16280	25 April ..	37	14 May.*
Waterproofing composition	A. F. Roy	15263	15 Aug., 1902	43	28 May.
Water-purifier for tank	J. W. Mulhare	16471	4 June ..	50	25 June.*
Weighing and delivery machine	A. J. Park and H. M. Thorpe ..	16239	17 April ..	33	30 April.
Weighing and measuring milk	E. W. Lloyd	16346	14 May ..	43	28 May.*
Weighing and tallying carcasses	E. Moss	16250	17 April ..	33	30 April.*
Weighing-machine	J. F. Clarke	16463	10 June ..	57	9 July.
Wheelbarrow	J. T. Kibblewhite and R. W. Short	16391	27 May ..	47	11 June.*
Wheel, Boot-finishing	G. H. Catt	15350	4 Sept., 1902	43	28 May.
Wheel-lock and horse-stopper	T. Firth	16450	8 June ..	60	23 July.
Wheel lock, Bicycle-	L. S. H. Hutton	16251	18 April ..	37	14 May.*
Wheel lock, Vehicle-	A. Cooper	15232	7 Aug., 1902	43	28 May.
Wheel, Road-vehicle	J. Ainsworth	16241	15 April ..	37	14 May.
Wheel-scraper for agricultural implements	A. E. Watson	16527	19 June ..	60	23 July.
Wheel, Vehicle, &c.	D. Pope	16203	3 April ..	29	16 April.*
Windmill	W. Cousins	16267	24 April ..	33	30 April.*
Windmill-lubricator	J. O'Neil	16290	29 April ..	43	28 May.*
Windmill, motion-changing gear	J. Alston	16208	8 April ..	33	30 April.
Window	A. Peppler	16447	8 June ..	57	9 July.*
Window, Anti-rattling device for	W. G. Stevenson	16399	28 May ..	..	..
Window-blind, ventilator, and fire-screen	E. Walker	16552	26 June ..	57	9 July.*
Window-fastener	P. Gavin	16545	22 June ..	60	23 July.*
Window-lock	J. McKay	16322	6 May ..	37	14 May.*
Window-locks	C. N. Scurr	16215	7 April ..	33	30 April.*
Window safety-lock	M. R. Green	16301	6 May ..	37	14 May.*
Window-sash balancing	C. L. Stokes	16237	16 April ..	33	30 April.*
Window-sashes, Securing cards to	J. Armstrong	15449	26 Sept., 1902	57	9 July.
Window-sash fastener	W. T. Michelli	15010	17 June, 1902	37	14 May.
Window-sash hanger	W. J. Alexander	16067	9 March ..	37	14 May.
Window-sash lock	J. Hessey	16223	14 April ..	33	30 April.*
Window-sash retainer	S. Lintern	16255	22 April ..	33	30 April.*
Wire-clip	A. E. Jensen	16430	2 June ..	47	11 June.*
Wire coiler and uncoiler	A. A. McIlwraith	15065	27 June, 1902	47	11 June.
Wire-fastener	A. E. Jensen	16429	2 June ..	47	11 June.*
Wire-fencing standard and dropper	L. H. McHardy	16456	6 June ..	50	25 June.
Wire staple for bookbinding	E. M. McLauchlan	16171	2 April ..	29	16 April.*
Wire-strainer	R. F. Gorman	16282	30 April ..	37	14 May.
Wire-tightener	C. E. Hayward, jun..	15590	3 Nov., 1902	43	28 May.
Wire-twister, file, &c.	A. Gray	15267	15 Aug., 1902	43	28 May.
Wire twisting and straining	G. C. Clarke	16410	29 May ..	47	11 June.*
Wire-weaver machines, Coiler and spindle for	D. McKenzie	16454	4 June ..	50	25 June.*
Wooden-tramway traction.	W. L. Luxford	15056	30 June, 1902	29	16 April.
Wool, Pulling out strands of	F. Wilkinson	16257	22 April ..	33	30 April.*