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SUPPLEMENT
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INTERNATIONAL INVENTIONS EXHIBITION, LONDON, 1885.

JURY AWARDS.—(Issued subject to Revision.)

Division I.—INVENTIONS.

THE Awards in Division II, Music, will be published in October.

When more than one Award is made to the same Exhibitor, he will receive only one Medal of each kind.

D. *Diploma of Honour (awarded only to Government Departments and Public Institutions).*

G. *Gold Medal.* S. *Silver Medal.* B. *Bronze Medal.*

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
2543	A B C Fence Co. (U.S.A.) ...	Improved fencing, and machinery for making the same	S.
1739	Aaron and Sons	Umbrellas	B.
	Abazoff, G. (Russia)	Caucasian manufactures	S.
2551	Adams, R.	Double-action door springs	S.
289	Adams and Baker	Door springs	B.
415	Adamson, Daniel, and Co. ...	"Wheelock" automatic cut-off engine...	G.
325	Adie, Patrick	Cement testing machine	S.
2183	" "	Astronomical and surveying instruments	B.
1884	Admiralty, Lords Commissioners of	Excellence of the exhibit, and more especially the fish torpedo, invented by Whitehead, as now manufactured in the Royal Laboratory, Woolwich, to which department considerable credit is due for its present excellence	D.
1997	Aitchison, C.	Patent rag engine with conical roll ...	B.
1495	Albo-Carbon Light Co.	Albo-carbon light apparatus	B.
855	Allatt, Captain	Horse hobbling apparatus	S.
676	Allen, J. and F.	Registered buggy spring	B.
	Allen, W. H., and Co.	High-speed engine and dynamo ...	S.
	Alley and Maclellan	High-speed engine	S.
406	Allin, S. S.	Signal wire compensator	B.
2639	Almqvist, Fridolf (Sweden) ...	Governor and speed indicator	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
2521	American Watch Company (U.S.A.)	Improvements in the machinery and processes employed in the manufacture of watches	G.
1242	Anderson and Gallwey	Hydraulic riveting machinery	S.
394	Anderson, G., and Co.	Steam derrick crane	S.
429	Andrew, J. E. H., and Co. ...	Gas engines	S.
736	Andrews, E.	Automatic brake for perambulators ...	B.
	Andrews, J. D. F., and Co. ...	Electrical exhibit	B.
1308	Anglo-American Brush Electric Light Corporation Limited ...	Electric lighting apparatus	B.
2335	Anglo-American Clay Pigeon Co.	Clay pigeons and traps	B.
2732	Antoine Frères (France)	Improvements in keyless watches and general excellence of manufacture	G.
176	Aqueous Works and Diamond Rock Boring Co.	Improvements in rock-boring apparatus	G.
1103	Arnold, Alfred	Improvements in wire woven fabrics ...	S.
1284	Arnold, Samuel	Ingenious locking nut	S.
567	Arundel and Co.	Moscrop's continuous engine speed recorder	S.
547	Asbestos Co. Limited	Asbestos packing	S.
683	Ashburnham and Floyd	Patent cab	B.
328	Askham Bros. and Wilson ...	Tramway points and crossings	S.
146	,, ,,	Lucop's patent centrifugal pulveriser ...	B.
1464	Aspinall, Aspinall, and Co. ...	Water paints	S.
192	Asquith, Ornsby, and Nicholson ...	Apparatus for detaching coal	S.
671	Atkinson and Philipson	Stretcher couch combined with carriage; finish and excellence of workmanship in carriage building	S.
2751	Attout-Tailfer and J. Clayton ...	Photographic dry plates	B.
1221	Attwood, A., and Co.	Self-sustaining lifts and hoists	B.
	Austrian Manufactory of Arms (Austria-Hungary)	Complete exhibition of military rifles ...	G.
470	Automatic Boiler Feeder Co. Limited	Automatic boiler feeder	B.
2534	Automatic Weighing and Package Filling Co.	Automatic weighing and package filling machine	S.
4	Aveling and Porter	Road locomotive with spring wheels ...	G.
1281	Avery, W. and T....	Improvements in weighing apparatus ...	G.
352	Awsworth Iron Co.	Poyser's patent railway chair	B.
32	Aylesbury Dairy Co. Limited ...	"Nielsen and Petersen" Danish cream separator and Fjord's fittings as applied to the testing of milk samples	G.
1984	Ayling, J. J.	Examples of photo-mechanical printing	B.
2312	Bacon, G. W.	Improvements in new cheap atlases ...	B.
923	Baden-Powell, W....	Improvements in sails applied to boats, canoes, &c.	S.
1453	Badische Anilin and Soda Fabrik...	Improvements in the manufacture of colouring matters and intermediate products from coal tar	G.
1370	Bagot, A. C.	Improvements in mining signals ...	S.
208	Bailey, W. H., and Co.	Hydraulic hauling engine	S.
440	,, ,, ,, ...	Patent hot-air engine	B.
2133	Baker, Charles	Student's microscopic apparatus ...	B.
755	Baker, J. L., and Co.	Patent tyre heating oven, self-acting sinking platform and tank for tyring wheels	S.
	Balachine Brothers (Russia) ...	Stuffs for furniture	S.
34	Baldwin, S. J.	Bee-keeping appliances...	S.
330	Balfour and Co.	Improved jolly	S.
	Banine, Alexander (Russia) ...	Improvement in scissors	B.
268	Banister, F. D.	System of concrete construction ...	S.
640	,, ...	Safety lock for points and signals ...	S.
583	Bapty, F.	Fox's patent "Anticollide"	B.
9	Barford and Perkins	Corn-grinding mill and water-ballast rollers	S.
1246	Barker, John, and Sons Limited ...	Self-landing and self-delivering hoist, and safety doors for lifts	S.
1875	Barlow, Robert	Sewing machine needle...	S.
1166	Barlow, H. B., jun., and Co. ...	Expanding mandrils	S.
724	Barrett, H. J.	Colonial transport and military wagon	G

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
201	Barrow Rock Drill and Engineering Co.	Hosking's and Blackwell's patent rock drills	S.
928	Barrow Shipbuilding Co. Limited...	Group of models of ships	G.
566	Batchelor, H. and T. C.	Motion drawings of marine engines ...	S.
1172	Bateman, A. H.	Emery grinders, machine tools, and machinery	B.
587	Bates, Timothy, and Co.	Steam engine and appliances, and sounding instruments	B.
395	Batho, W. F.	Hydraulic dredger	G.
210D	„	Open-hearth steel-melting furnace ...	S.
2660	Baume, W. (France)	Rotary and chain pump...	B.
	Baume and Co. (Switzerland) ...	Excellence of manufacture of watches...	G.
1937	Baxter, Captain J. C., R.E. ...	Arrangements for cooking in the field...	B.
993	Baxter, S., and Co.	Improvement in capstans	S.
144	Baxter, W. H., and Co.	Stone crusher	S.
105	Beaumont, Jones, and Co. ...	Improvements in apparatus for sub-aqueous boring	S.
2126	Beck, R. and J.	Microscopic and other optical apparatus	G.
582	Beck and Co. Limited	Schonheyder's visible drop lubricators ...	S.
1194	„ „	Rollason's instantaneous hose coupling and pressure-blower or pump	S.
2037	Beeman and Roberts	Remington standard type writer ...	S.
2734	Beha, J. B., und Söhne (Germany)	Improvements in cuckoo clocks ...	B.
1061	Bell, John, and Co.	Treatment of asbestos	G.
1467	Bell Brothers Limited	Manufacture of soda by Schloesing's ammonia process	S.
2098	Bendon, George, and Co.	Improvements in keyless clocks ...	S.
134	Bennett, Thomas, and Son ...	Improvements in the process of gold beating	B.
2085	Benson, J. W.	Improvements in machine-made watches	G.
	Berger, Dr. Emil (Austria-Hungary)	Refraction ophthalmoscope	B.
1233	Bernays, Joseph	Direct-acting steam pump	S.
1320	Bernstein Electric Lamp Co. ...	Incandescent lamps	S.
139	Bertet and Sisteron	Improved crushing mill...	B.
210C	Bessemer, Sir H.	Bessemer iron and steel...	G.
60	Bethell, T. P.	Folding flower boxes	B.
1700	Betjemann, G., and Sons	Fancy goods	S.
452	Beynon and Cox	Patent gas engine	B.
1885	Bezer, Henry	Lock nuts	B.
195	Bickford, Smith, and Co.	Safety and instantaneous fuses... ...	G.
1612	Bindley and Briggs	Brewery machinery	B.
1092	Birch, R. G.	Compressed air brush and pigment distributor	S.
752	Bird, F., and Co.	Improved india-rubber tyres for invalids' chairs	S.
178	Birmingham Machinists' Co. ...	Detaching apparatus for pole pieces ...	B.
794	Birmingham Small Arms Co. ...	Safety bicycle	B.
611	Black, Hawthorn, and Co. ...	Tramway locomotive	S.
1901	Bland, Thomas, and Sons... ...	Harpoon, gun, and explosive bullet ...	B.
2642	Blay, E. (France)	Apparatus for supporting and heating dishes	B.
1467	Boake, A., and Co.	Manufacture of sulphurous acid and sulphites	S.
869	Body, William	Horse shoe pad	B.
209	Bohler Brothers and Co.	Styrian steel	S.
2522	Bolanachi's Chocolate Co. Limited	Improvements in manufacture of chocolate	B.
906	Born, Henry	Saddle bars	B.
2559	Bornstein, Henry, and Co. (U.S.A.)	Patent pin hooks	S.
1399	Botten, H.	Electrical exhibit	B.
	Bouroff, Victor (Russia)	Improved pipes	S.
761A	Boutcher and Co.	Universal spanners	B.
198	Bower, George	Process for rendering iron rustless ...	S.
1517	„ „	Regenerative gas burner	S.
1764	Bower, J. T.	Solid corner brick moulds and adjustable beds	S.
570	Bowling Iron Co. Limited ...	Expansion hoops for boiler flues ...	S.
1839	Boyd, Henry P.	Forged iron screws	B.
431	Braby, James	Light traction and stationary engine combined	B.
264	Braby, F., and Co.	Metal roofing	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1628	Bradbury and Co. Limited ...	Rotary shuttle sewing machine ...	G.
657	Bradley, William	Locks	S.
1398	Brailsford, T. R.	Tide gauge	S.
911A	Bray, G.	Combination water, dust, or slop van, and detaching pole head as used by fire-brigade	G.
2301	Brehmer, Augustus	Thread book-sewing machine	S.
536	Brierley, William	Dead-weight safety-valve	S.
606A	Brierley, W.	Signal wire compensator	B.
726	Briggs, T.	Patent adjustable cart and noiseless automatic brake	G.
220	Briggs and Co.	Soldering apparatus	B.
138	Brin Frères	Improvements in the production of oxygen and nitrogen gases	S.
1135	Brinjes and Goodwin	Pigment grinding machine	S.
720	Bristol Wagon Works Co. Limited	Margetsen and Hek's patent tip van ...	G.
1427	British Alizarine Company Limited	Improvements in the manufacture of alizarine, &c.	G.
	British Association Committee on Screw Gauges	Standard screw-gauges	D.
750	British Carriage Manufacturers, Institute of	Improvements in attempts to render parts of carriages interchangeable	D.
196	British and Foreign Safety Fuse Co.	Safety fuse	S.
446	British Gas Engine and Engineering Co. Limited	Gas engines	G.
2107	British Horological Institute ...	Collective exhibit showing progress in technical training and illustrating high-class manufactures	D.
596	British Mékarski Improved Air Engine Co. Limited	Compound air engines	G.
89	British Patent Glazing Co. ...	Improvements in drying glazing for conservatories	S.
1690	British Xylonite Co.	Xylonite and celluloid	S.
2523	Britton, Joseph W. (U.S.A.) ...	Straightening and levelling machine for plates	G.
2513	Broadbent and Son	Hydro-extractors	S.
1149	Broadbent, Robert, and Son ...	Stone-breakers	S.
1078	,, ,, ...	Warburton and Broadbent's patent conical drum winding machine, and a grip belt fastener	B.
672	Brockelbank, Henry	Model of improved hansom cab... ...	B.
669E	Brockelbank, T. Attwood	Automatic railway couplings	B.
	Brousnitzyn, A., and Sons (Russia)	Leather manufactures	S.
1467	Brooke, Simpson, and Spiller ...	Improvements in the manufacture of coal tar colours	G.
1084	Brookes, Samuel	Improvements in weavers' frames and reels	G.
1387	Brown, A. C.	Electrical exhibit	B.
1535	Brown and Green	New church stoves	B.
1519	Brown, B. and J., and Co. ...	Gas lamp lighter's torch	B.
1503	Browne and Co.	Mineral oil lamps	B.
850	Brownjohn, Madame	Ladies' trycicle dress	B.
216	Brownlee and Co.	Patent parquet work	B.
1127	Brunton and Trier	Stone working machines	G.
248	Bryceson, John	Continuous blast fog-horn	B.
156	Brymbo Steel Co.	Basic Siemens steel	S.
2187	Buchanan, J. Y.	Apparatus for investigating the compressibility of solids	B.
2664	Buckingham and Sons (Belgium)	Artistic furniture	S.
541	Buckley, W., and Co.	Metallic piston packing	B.
170	Buckton, J., and Co.	Testing machine with autographic indicator	G.
1134	Bumstead, F. D.	Paper bag making machine	B.
2376	Burgess, William	Humane traps, &c.	B.
1924	,, ,, ...	Hammerless gun	B.
1207	Burgess, W. J. and C. T. ...	Noria or water lift for animal power ...	B.
1119	,, ,, ...	Emery cotton gin	B.
1467	Burghardt, Dr. A. C.	Condenser for volatile liquids	B.
375	Burham Brick, Lime, and Cement Co. Limited	Automatic cement-testing machines ...	B.
2361	Burroughs and Watts	Improvements in billiard tables and accessories	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1567	Burrows, W. and J.	Wine bins	B.
1428	Burt, Boulton, and Haywood ...	Boulton's patent improvements in creosoting timber	G.
1909	Burton, Bethel	General excellence of exhibit and magazine arrangements	S.
1062	Butterworth and Dickinson ...	Dobby	B.
1870	Byrne, C. Pitt	Adjustment for looking glasses ...	B.
2270	Cadett, J.	Instantaneous shutters for photography	S.
1520	Caink, Thomas	Pressure-changing gas governor, &c. ...	B.
1314	Callender's Bitumen Telegraph and Waterproof Co. Limited	Cables	B.
1466	Calvert, F. C., and Co.	Carbolic acid and allied products ...	S.
2141	Cambridge Scientific Instrument Co.	Improvements in philosophical instruments	G.
2117	Camerer, Kuss, and Co.	Modifications in watchmen's and other clocks	B.
1706	Cameron, Amberg, and Co. ...	System of letter filing	S.
507 and 2131	Campbell, Sir A. C.	Improved goniostat, spectroscope, and speed indicator	G.
1763	Candy and Co. Limited	Enamelled iron	S.
2877	Cank, Thomas	Trap for catching animals alive ...	B.
	Cardew, Captain	Volt-meter	G.
2695	Carpenter, J.	Combined fast and slow combustion stove	B.
703	Carpenter, W.	Simple method of balancing dog carts ...	B.
155	Carr, C.	Crucible melting furnaces	B.
1558	Carter, J. Harrison	Roller milling machinery	G.
290	Carter, John	Sliding windows	B.
731	Carter, John	Invalid chair, and child's mattress ...	S.
1523	Carter and Lees	Gas governor for service pipes... ...	B.
1088	Caspard, Miss	Machine for utilization of waste material	B.
153	Cassel, H. R.	Method of extracting gold from refractory ores by electrolysis	B.
119	Casson, M.	Casson-Bicheroux direct-acting gas furnaces	G.
1462	Chadwick, Robert, and Son ...	Improvement in extracting colouring matters, &c., from dye-woods ...	B.
765	Challis and Co.	Bells for cycles	B.
896	Champion and Wilton	Improved ladies' and cavalry saddles ...	S.
1467	Chapman and Messel	Improvements in the manufacture of anhydrous sulphuric acid	S.
2532	Chasles, H. (France)	Ironing and mangling machines ...	B.
1232	Chatwood, S.	Hydraulic balance banker's lift ...	B.
1460	Chemical Papers Co. Limited ...	Antiseptic papers	B.
3680	Chevrel, G. (France)	Machine-made marqueterie	S.
	CHINA.		
	China, Government of	General exhibit	D. and G.
	Imperial Maritime Customs ...	General exhibit	G.
393	Chipperfield, R.	Good workmanship of engineering models	S.
1467	Christy, Thomas, and Co.... ...	Pharmaceutical preparations	B.
1817	Chubb and Sons' Lock and Safe Co. Limited	Locks and safes	G.
1488	Clapham Brothers	Collective exhibit of gas apparatus ...	S.
1804	Clark, William	Clippers	S.
561	" "	Improvements in boilers and flue tubes	B.
1165	Clark, T. A. W.	Wood planing machine...	B.
331	Clark and Standfield	Floating docks, hydraulic grid dock, and patent slip	G.
1231	Clark, Bunnett, and Co.	Safety apparatus for lifts	B
1584	Clarke, Mrs. C.	Tea and coffee urns	B.
	Clarke, Chapman, and Co. ...	Parson's steam turbine	S.
	Clebnikoff, J. P., Sons, and Co. (Russia)	Excellence of chased and enamelled gold and silver	G.
682	Clift and Son	Combination carriage	G.
1585	Clowes, E. A.	Folding furniture	B.
1275	Clowes, W. W.	Domestic fire escape	B.
416	Coalbrookdale Co. Limited ...	Parker and Weston's steam pump ...	S.
488	Cobbett, W. Wilson	Cotton machine belting	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
512	Cochran and Co.	Vertical steam-boilers	S.
1844	Cocking, John T.	Poroplastic	B.
2367	Codner, W. S.	Sockets and pegs for lawn-tennis and tent poles	B.
1931	Cogswell and Harrison	Rifles, revolvers, &c.	S.
2355	Cole, G. and C.	Improvements in mechanical toys ...	S.
1429	Coleman, J. J.	Machine for producing cold	S.
1243	Coles, H. J.	Single chain grab-dredger	S.
1235	Collingham, R. M.	Compressing machine for blue, black-lead, &c.	B.
2234	Collins, C. G.	Excellence in manufacture and useful photographic appliances	S.
2593	Columbia Type Writer Co. ...	Type writer	S.
2580A	Comfort Folding Bed Co. (U.S.A.)	Folding beds	B.
2228	Common, A. A.	Celestial photographs	G.
2693	Compagnie Française du Celluloide (France)	Celluloid and chromolithe	S.
77	Compressed Lime Cartridge Co. ...	Improved method of breaking down coal	S.
1445	Condy, H. B.	Manufacture of permanganates, hypo-sulphates, &c.	S.
1318	Consolidated Electric Light Co. ...	System of using secondary batteries ...	S.
1536	Constantine, T. J.	Improvements in close ranges and stoves	B.
2649	Conti, Alfred (Italy)	Ceramic art reproductions	S.
2006	Cooke, G. K., Manufacturing Company	Rubber stereotypes	B.
992	Copeland and Lacey	Patent blocks	B.
12	Corbett, T.	Folding harrows, single and double chamber cheese press, and "Eclipse" dressing machine	S.
4	Cordner, Allen, and Co. Limited ...	Water purifier	B.
1302	" " " ...	Electrical exhibit	B.
554	Cormack, Daniel Adair	Compound condensing steam engine ...	B.
2317	Cotgreaves, A.	Library indicator	B.
1841	Cousins, John Ward	Highly ingenious surgical inventions ...	G.
807	Coventry Machinist Co.	Cycles	G.
1494	Cowan, W. and B.	Collective exhibit of gas apparatus ...	S.
2360	Cox and Yeman	Improvements in billiard tables and accessories	S
1315	Coxeter and Nehmer	Electrical exhibit	B.
1301	Coxeter, T., and Son	Apparatus for administering nitrous oxide gas	B.
911	Craddock, George	Improved bit and hames	B.
1760	Cramp, J. P.	Drying kilns	B.
	Crampton, T. R.	Tunnelling machine	S.
151	Cranston, J. G.	Rock drills	B.
	Crausaz, Prof. T. (Switzerland) ...	Compensation balances	B.
1291	Crompton, R. E., and Co. ...	Improvement in electric lighting appliances	G.
1391	Crookes, William	Radiometers, &c.	G.
409	Crossley Brothers	Gas engines	G.
142	Crossley, C. W.	Air propeller	B.
2127	Crouch, Henry	Improvements in microscopic apparatus	S.
26	Crowley, J., and Co.	Chaff cutter and elevator	B.
1776	Crystaline Glass Co. Limited ...	Crystalised glass	B.
802	Crypto Cycle Co.	Crypto-dynamic gear	G.
954	Cunard Steamship Co. Limited ...	Transatlantic steamer "Etruria" ...	G.
2156	Cunnyngham, E. H.	Calculating machine	S.
899	Curtis, Dexter	Patent zinc collar pad for the prevention and cure of horses' sore necks	G.
	Cushing, Thomas	A new form of levelling instrument ...	B.
2308	Cuttell, F. G.	Apparatus for cutting sections of rocks	B.
1975	Daldy, F. R.	Smyth's book thread sewing machines...	B.
1345	Dale, H. and E. J.	Electrical exhibit	B.
2023	Dallas, D. C.	Examples of photo-mechanical printing	S.
1702	Dalton Time-Lock Syndicate Limited	Time lock	G.
1404	Danchell, F. H.	Electrical exhibit	B.
1064	Daughters, George	Double action hair carder	B.
	Davey, Paxman, and Co.	Engines and boilers	G.
2345	Davidson and Co.	Lawn-tennis poles	B.
1467	Davies, R. H.	Pharmaceutical and chemical preparations	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
662	Davis, Alfred	"Janney" coupler and buffer	S.
1467	Davis, G. E.	Manufacture of products from coal ...	B.
1729	Davis, Henry A.	Umbrellas	B.
2150	Davis, H. T.	Ticket checking apparatus	B.
901	Davis, A., and Co.	Saddlery and harness	B.
428	Davis and Co. Limited	Patent steam gearing gear	S.
69	Davis, J., and Co....	Dendrometer	B.
1125	Davis, John, and Son	Wood planing machines	S.
107	" "	Collection of mining appliances ...	B.
1394	Davis and Timmins Limited ...	Electrical exhibit	B.
	De Cauville	Portable railways	S.
1312	De Ferranti, S. Z....	Electric meter	S.
2196	De Grave, Short, and Co.... ...	Improvements in balances, &c.... ...	G.
2097	De Gruyter Clock Manufacturing Co.	Application of torsion to the measurement of time	S.
255	De Michele, V.	Cement-testing machine	B.
886	De Mouncie, Baron A. Thornton...	Improved bit	B.
448	Deakin, Parker, and Co.	Acme high-speed governor	S.
97	Deards, S.	Dry-glazed conservatory	B.
1522	Defries and Sons	Safety lamp for mineral oils	S.
2598	Delany Synchronous Multiplex Telegraph System	Multiplex telegraphy	S.
2166	Delepine, S.	Microtome	B.
2158	Dennison Manufacturing Co. (U.S.A.)	Application of machinery to stationers' specialities	S.
932A	Denny Brothers	Screw steamer "Arawa"	G.
1624	Dent, Allcroft, and Co.	Glove fasteners	S.
2088	Dent, E., and Co....	Improvements in turret clocks and chronometers	G.
2145	Denton, S. G.	Improvements in thermometers... ...	S.
1616	Derham Brothers	Champion lawn-tennis shoe	S.
1672	Dermatine Syndicate	Dermatine	B.
161	Dick, Alex.	Delta metal	S.
597	Dick, Kerr, and Co.	Portable railway	B.
1112	Dickinson, W., and Sons	General exhibit of textile machinery ...	B.
1934	Dickson, William	Improved circular arm rack, bracket and shelves, and collapsible letter-sorting table	B.
386	Dillon, J.	Patent hydrographic surveying and sounding apparatus	G.
368	Dixon, A. A.	Fish plate, injectors, and safety valves	B.
2164	Dixon, T.	Improvements in slide rules	S.
137	Docwra, Thomas, and Son ...	Patent diamond drill	S.
629 and 1836	Douglas, Charles D., and Co. ...	Springless automatic locks	S.
1766	Doulton and Co.	General exhibit of pottery, &c. ...	G.
1120	Dronsfield Brothers	General exhibit of textile machinery ...	S.
2146	Dudgeon, R. E.	Diving spectacles and pocket sphygmograph	B.
1126	Duffy, M. C., and Son	Wood block flooring	B.
432	Duncan Brothers	Improvements in marine engines ...	S.
1449	Duncan, J. and J. A. R., and B. E. R. Newlands	Alum process for removing potash from saccharine solutions, and improvements in the manufacture of sulphate of alumina	S.
	Dunlop, David J.	Combined steam and pneumatic governor for marine engines	G.
1565	Dunlop, Robert	Air-tight fountain or vat	B.
775	Dunn, Thomas	Ordnance odometer	B.
737	Dunnett, Robert	Folding perambulators and spinal carriages	S.
374	Dunscombe, C.	Lyver's patent tramways	B.
991	Dunston Engine Works Co. ...	Archer's patent self-holding hand-steering gear	S.
2001	Durable Printers' Roller Co. ...	Improvements in composition for printers' rollers	S.
430	Durham, Churchill, and Co. ...	Marine engine governors	S.
2718	Duvigneau, O., and Co. (Germany)	Majolica chimney mantels	S.
1906	E. C. Powder Co.	Improvements in the application of nitro-compounds to sporting purposes	S.
214	Eachus, G. E.	Ventilating manholes	B.

Catalogue. Number.	Name of Exhibitor.	Subject of Award.	Award.
1222	East Ferry Road Engineering Works Co. Limited	Duckham's hydrostatic suspended weighing machine	G
2588	Eastman Dry Plate and Film Co. (U.S.A.)	Apparatus for the production of negatives in the photographic camera from continuous rolls of paper	S.
254, 402 and 1244	Easton and Anderson	Apparatus for water supply and purification	G.
656	Eaton and Morris	Railway carriage window elevator ...	B.
	Ebner, J. (Austria-Hungary) ...	Parquet flooring...	S.
1296	Edison and Swan United Electric Light Co. Limited	Edison-Swan systems of electric lighting	G.
2170	Edmondson, Joseph	Improvements in calculating machines	S.
2161	Edwards, G.	Improvements in callipers	B.
2535A	Edwards, G. M.	Improvements in building construction	B.
1441	Eglington Chemical Co.	Production of chromates, "chromate" process of tanning	S.
1467	Eiloart, A.	Gas tap for chemical apparatus ...	B.
221	Electric Paint Remover Co. Limited	Paint remover	S.
1305	Electric Power Storage Co. ...	Improvements in secondary batteries ...	G.
667	Electric Signal Co. Limited ...	System of railway signalling	B.
	Electric Sun Lamp Co.	Electrical exhibit	S.
154	Electro-Amalgamator Co. Limited	Electro-amalgamator	B.
1902	Eley Brothers Limited	General excellence of manufacture of ammunition	G.
591	Ellington and Woodall	System for distributing hydraulic power in towns	G.
189	Elliott's Patent Mining Pick Co. Limited	Improvements in picks	B.
801	Ellis and Co.	"Facile" bicycle	S.
	Elwell and Parker...	Dynamo machine	S.
971	Emanuel, Henry	Improvements in the steering-gear of sailing boats	B.
2007	English and Foreign Electrotype Agency	Steuer's universal copier	B.
2111	English Watch Co. Limited ...	Application of machinery to watch-making	B.
1077	Etchells, John	Davenport and Crossley's cross border jacquard	B.
	Etzenberger, R.	Tea and coffee urns	B.
1182	Evans, J. H.	Ornamental turning lathes, counting apparatus, excellence and accuracy of workmanship and cheapness	G.
103	Evans, Evan	Safety lamp	S.
480	Ewing, James Alfred	Friction gear	B.
1751	Eyles, Mrs. J. F.	Ornaments of fish bones	B.
326	Faija, H.	Cement testing appliances	S.
2020	Fairholme and Co.	Cyclostyle or multiple writer	B.
410	Fairlie Engine and Rolling Stock Co.	Double bogie locomotive	S.
610	Falcon Engine and Car Co. ...	Tramway locomotive	G.
1395	Faraday and Son	Electrical fittings	S.
1068	Farmer, James, and Sons... ...	Machinery for treatment of town refuse	G.
1068	" " "	Improved creasing and measuring machine, and apparatus for bleaching, dyeing, &c.	S.
538	Faull, E. M. B.	Metallic packing	B.
1098	Fawcett, F. B.	Brussels carpets...	B.
1070	Fawcett, Henry	"Chlidema" carpets	S.
2028	Felt, W. O.	Day's shading medium for lithographic and similar processes	G.
1299	Fergusson, H. A.	Lalande-Spence battery...	S.
388	Fidler, T. C.	Designs of bridges	B.
1193	Fielding and Platt...	High-speed engine	G.
1193	" "	Hydraulic machines for riveting, forging, and flanging	G.
1192	Field, J. C. and J.	Improvements in the manufacture of candles, &c.	G.
2099	Firth, N. C.	Workmen's time-checking clock ...	S.
	Fisher and Mieg (Austria-Hungary)	Hard porcelain	B.
1712	Fitton, Edward B.	Ironing stove	B.
	Flavitsky, Ivan (Russia)	Hygrometer	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1534	Fletcher, Thomas	Gas fires and furnaces	G.
101	Fleuss Breathing Dress and Safety Lamp Co. Limited	Fleuss breathing apparatus	G.
860	Floyd, Captain	Patent horse shoes	B.
	Folkard, Charles W.	Air thermometer	S.
1828	Fontaine, A. C.	Frictionless castors	S.
2595	Force, W. A. (U.S.A.)	Dating stamps	B.
686	Forder, Alfred, and Co.	Improvements in opening doors of cabs	S.
693	Forder and Co.	Hansom cabs	G.
1569	Fordred, John	Malted food preparations, &c.	S.
1009	Forrestt and Son	Stern-wheel steamer	S.
164	Foster, J., and Sons	Percussive rock drills	S.
99	Foster and Pearson	Conservatory, frames, and plant houses	S.
19	Fowler, J., and Co.	Traction engines and an "undertype" compound engine	G.
234	Fox, Charles James	Sectional docks for inspecting portions of ships while afloat	S.
441	Fox, Samson	Corrugated furnace flues for steam boilers	G.
1524	Foxall, Llewellin, Jones, and Co.	Dry gas meters	S.
2277	Foxlee, E. W.	Examples of the continuating action of light in carbon printing, as discovered by Captain Abney	B.
2041	Fraser, Alexander	Type composing and distributing machines	S.
1581	Free, Robert	Improvements in malt kins, &c. ...	B.
1448	Freeman, J. B., and Co.	"Non-poisonous" white lead	B.
1496	Freeston, James, and George Kyle	Apparatus for extinguishing and re-lighting gas lamps	B.
341	Frere, N.	Pipe jointing	B.
2084	Frodsham and Co.	Improvements in non-magnetizable watch balances	S.
2132	Frost, Alfred J.	Transit instruments	B.
719	Fuller, S. and A.	Patent landau	B.
1980	Furnival and Co.	Gill's hot or cold rolling machine ...	G.
1717	Gainsford and Co.	Writing-table	B.
436	Galloway, W. and J., and Sons ...	Engines and boilers	G.
1467	Gamble, Jos., and Sons	Manufacture of chlorate of sodium, &c.	S.
1886	Gant, R. B.	Electrical exhibit	B.
	Gardner Gun Co.	Machine gun	G.
110	Garforth, W. E.	Fire damp detector and dial centre ...	B.
1510	Garratt and Fowler	Improvements in pipe unions	S.
18	Garrett, R., and Sons	Portable compound agricultural engine, and "Garrett-Ellis" beater	G.
1489	Gas Appliances Co. Limited ...	Apparatus for treating gas	B.
1467	Gaskell, Deacon, and Co.	Improvements in the manufacture of carbonate of soda, &c.	G.
1089	Gauntlett, C., and Co.	"Lightning" and "Excelsior" carding machines	S.
1689	Gaussen, D.	"V. W. H." corrugated vulcanized india-rubber for various purposes	S.
1260	Gaze, W. H.	Household fire escape	B.
1392	Gerard and Co. Limited	Lamps and dynamos	S.
1935	Gevelot and Co., and Gaupillat and Co.	Excellence of manufacture of ammunition	G.
338	Gibb, J., and Co.	Bauer's patent spanners, pipe vices, and tube expander	S.
156	Gilchrist, P. C.	Basic or Thomas-Gilchrist process for making steel	G.
1767	Gildea, James	Painting on clay	S.
2035	Gillott, Joseph, and Sons	Specimens exhibiting processes in the manufacture of steel pens	S.
1643	Giuliano, Carlo	Artistic merit in jewellery	G.
1772	Glenborg Union Fireclay Co. Limited	Continuous regenerative gas kiln ...	S.
1339	Globe Electrical and Engineering Co.	Electrical exhibit	B.
1215	Glossop and Stacey	Steam hammers	S.
167	Glover and Hobson	Macdermott's patent coal perforator ...	S.
1485 and 2182	Glover, George, and Co.	Collective exhibit of gas apparatus ...	G.

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1081	Glover, Walter, and Co.	James' patent doubling and laying machine, and rope making machine	G.
	Glover, W. T., and Co.	Cables	S.
728	Glover, W., and Son	Patent tipping van	S.
1265	Glydon, G.,...	Universal coupling	B.
2342	Goddard, Rev. T. W.	Self-adjusting lawn-tennis poles ...	B.
1981	Godfrey, Alfred	Improved platen printing machine ...	B.
858	Goldfrap, H.	Patent nose-bag...	S.
585	Goodfellow and Matthews ...	High-speed compound tandem engine ...	S.
	Goolden and Trotter	Electrical exhibit	B.
1370	Goulard and Gibbs	Successful working out of a system of distribution of electricity by induced currents	G.
	Goy and Blanc (Switzerland) ...	Improvements in chronographs... ...	S.
397	Grafton and Co.	Patent slewing gear for cranes... ...	S.
1973	Graphic, Proprietors of the ...	Improved printing machinery	G.
	Grassi, Carlo (Italy)	Vineyard apparatus	B.
523	Gray, J. W., and Son	Automatic furnace door	
1364	" "	Electrical exhibit	
	Green, T., and Sons	Tramway locomotive	S.
417	Greenwood and Batley	High speed horizontal engine	G.
1132	" "	Machines for working metals and cutting twist drills	G.
1987	" "	Continuous web platen printing press ...	S.
1611	Greig, J., and Co....	Tea machinery	B.
473A	Gresham and Craven	Self-acting and re-starting injectors and ejectors	S.
2753	Greve, Wilhelm (Germany) ...	Facsimile reproductions of artistic work	S.
1502	Grey, Samuel	Improved meter indexes	B.
1787	Griffin, T. Featherstone	Hermetically sealed vessels	B.
1443	Griffiths, Thomas	Substitute for white lead	B.
2350	Griffiths, Dr.	"Polemos," a new war game	B.
2086	Grimshaw and Baxter	Extensive improvements in watch and clock-making tools and materials	S.
2152	Groves, William	Construction of electrical and philosophical apparatus	S.
	Grünwaldt, Paul (Russia)... ...	Furs	G.
1311	Gülcher Electric Light and Power Company Limited	Electric lighting apparatus	S.
1859	Gurner, H. T.	Automatic door fastener	B.
1916A	Gye and Moncrieff	Rifles and other small arms	S.
866	H. P. Horse Nail Co. Limited ...	Horse shoe nails of Swedish iron ...	S.
1083	Hacking and Co.	Looms and folding, measuring, and winding machines	G.
	Hake, A., and Co....	Fossil meal	S.
2064	Hancock, C.	Examples of photo-mechanical printing	S.
1642	Hancock and Co.	General excellence of jewellery and precious stones	G.
568	Hancock Inspirator Company ...	Hancock inspirator	B.
148	Hall, C. E....	Exhibit of stone breakers, pulverisers, and coal-washing machines	S.
2592	Hall Type Writer Company (U.S.A.)	Type writer	S.
857	Hampson, James T., and Co. ...	Scott's patent safety stirrup	G.
1722	Hampton and Sons	Combined steps and easel	B.
482	Hanson, Scott, and Co.	Driving ropes	B.
1117	Harding, T. R., and Son	Weavers' combs, card pins, &c. ...	G.
2169	" "	Improvements in machine counters ...	S.
2542	Hardy Brothers (U.S.A.)	Winch fitting and joint fastener ...	B.
128	Hardy Patent Pick Co. Limited ...	Picks, hafts, and mining tools	S.
2249	Hare, George	Excellence in manufacture of photographic cameras	S.
1467	Hargreaves, James	Improvements in manufacture of sulphate of soda	G.
2140	Harling, W. H.	Improvements in mathematical instruments	B.
	Harper, —...	Patent electrical block system	S.
1153	Harpers Limited	Key seating machine	B.
2025	Harrild and Sons	Letterpress and lithographic printing machines	G.
2114	Harrington, J.	Application of metal tubes as sounding pieces in chiming clocks	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1625	Harris, H.	Leather sole and seam for tennis shoes	S.
1699	Harris, J. F. and G.	Mouldings and fancy wood decorations	S.
1541	Harrison, George King	Patent gas retorts in segments	B.
774	Harrison, J.	Cycle fittings	B.
1362	Harrison, Cox-Walker, and Co. ...	Electrical exhibit	S.
427	Harrison Patent Steering Engine Co. Limited	Patent steam-steering gear	S.
712	Harrison, R., and Son	Skeleton landau...	B.
2268	Hart, F. W.	Various photographic apparatus, ingenious and of good workmanship	S.
2136	Hartley, Professor W. N.... ...	Spectrograph and spectrometer, with photographs of the spectra of metals	S.
2163	Hartmann, —	Interest calculating machine	S.
2563	Hartmann and Braun (Germany)	Perspectograph and interest calculating machine	G.
734	Harvie, A.	Contracting perambulators	B.
2093	Haswell and Sons	Improvements in watch and clock materials and tools	S.
175	Hathorn and Co.	Eclipse rock drills	S.
421	„ „	Patent excelsior locomotive engine ...	B.
1195	Hathorn, Davey, and Co.	Domestic motor	G.
1195	„ „ „	Differential gear for pumping engines, and improvements in valves for water-pressure engines	G.
1812	Hawksley, Thomas	Instruments for assistance of the deaf ...	G.
403A	Hawthorn, R. and W.	Patent combined locomotive and crane	S.
723	Hayes and Son	Watling's patent tip van	S.
120	Head, Wrightson, and Co. ...	New form of centre crane for Bessemer steel plant	S.
1477	Hearson, Charles, and Co. ...	Air gas making apparatus	S.
1632	Heath, Henry	Hat-making, hats, &c.	G.
2165	Heath, W.	Slide rule for conversion of time ...	B.
281	Heath, Captain W. E.	Method of shoring up dangerous structures	S.
2190	Heath and Co.	Nautical instruments	B.
279	Heatley and Hutchins	Hoist and safety clutch	S.
603	Heberlein Self-Acting Railway Brake Co.	Automatic friction brake	G.
924A	Heck, A. J. A.	Stability balance	G.
1566	Hedicke, M., and Co.	Corn weighing balance and seed testing apparatus	S.
423	Heenan and Froude	"Tower" spherical engine	G.
1075	Helyear, Thomas	Spooler and winder for cotton or twine	B.
1682	Hembry and Co.	Wall coverings	B.
2229	Henderson, A. L.	Ceramic work	S.
1313	Henley's, W. T., Telegraph Works Co. Limited	Excellence of cables	G.
645	Henson and Co.	Apparatus for placing fog-signals on rail	S.
1773	Herman, W. D.	Utilisation of refuse materials of glass works	B.
1288	Heslop, M.	Adjustable and reversible eccentrics ...	B.
	Hick, Hargreaves, and Co. ...	"Corliss" engine	G.
835	Hickling and Co.	Cycles	B.
2160	Hicks, J. J.	Improvements in thermometers and other philosophical instruments	G.
725	Hill, Charles	Tip van	B.
46	Hill, E. J.	Patent method of raising and lowering carriage windows	G.
1015	Hill and Clark	Boat lowering gear	G.
	Hildebrand (Austria-Hungary) ...	Leather goods	B.
507 and 2131	Hilger, A.	Improvements in philosophical instruments	G.
806	Hillman, Herbert, and Cooper ...	Cycles	G.
458	Hindley, E. L.	Steam engines and boilers	S.
738	Hitching, T. H. Brooke	Baby carriages, disconnecting wheels and general good workmanship in carriages	G.
584	Hockey and Co.	Hockey's patent rotary engine	B.
443	Hodgkinson and Co. Limited ...	Mechanical stoker and fire-bars ...	B.
1079	Hodgson, George	Improvements in power looms	G.
156	Hoerde Bergswerks und -hütten Verein	Basic Bessemer steel	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1145	Holden and Brooke	Portable boiler drilling machine ...	S.
1145	„ „	Injectors...	B.
1929	Holland and Holland	Various novelties in details and general excellence of workmanship in fire-arms	G.
194	Holman Brothers	Cornish rock drill	S.
680	Holmes and Co.	Excellence of workmanship in carriages	B.
1375	Holmes, J. H., and Co.	Electrical exhibit	B.
1173	Holtzapffel and Co.	Excellence of exhibit, good workmanship and accuracy, as evidenced by work done in lathes, &c., for turning, carving, &c., in wood and ivory	G.
1592	Hone, —	Grain elevator and dredger	S.
2038	Hook, W. H.	Simplex envelope folding machine ...	B.
677	Hooper and Co.	Good workmanship, taste, and finish in carriages	G.
1467	Hopkin and Williams	Fine chemicals	S.
526	Hopkinson, J., and Co.	Copper cylinders, taps, and valves ...	B.
1220	Horn, T., and Sons	Four slide exhauster and pump ...	S.
1983	Horne, W. C.	Martini's patent duplex folding paper machine	S.
5	Hornsby, R., and Sons Limited ...	String-binding "Appleby" reaping machine, and a finishing threshing machine	G.
5	„ „ „	"Enclosed gear" grass mower	S.
420	„ „ „	"Undertype" compound steam-engine	S.
1733	Horsey's Patent Broom and Brush Manufacturing Co.	Improvements in brooms, &c.	S.
1887	Hotchkiss and Co.	Excellence in quick firing and revolving guns	G.
2157	How, J., and Co.	Petroleum-testing apparatus	B.
	Howard, J. and F.	Apparatus for trussing and binding straw as it issues from the threshing machine, and a string-binding "Appleby" reaping machine	G.
	Howard and Sons	Parqueterie	S.
1467	Howard and Sons	Pharmaceutical preparations	S.
1638	Howe Machine Co. Limited ...	Sewing machines	B.
	Hudswell, Clarke, and Co. ...	Driving pulleys	B.
1131	Hulse and Co.	Machines for working metals	G.
849	Humber and Co.	Cycles	G.
165	Humble, Stephen	King and Humble's safety detaching hook	S.
222	Humpherson, F.	Flushing cistern	B.
270	Hunter and English	Floating crane	G.
149	Husband, William	Oscillating cylinder stamper	S.
1199	Hydraulic Engineering Co. Limited	Hydraulic engine, hydraulic balance direct-acting lift, and water-saving arrangements applied to hydraulic machinery	G.
1335	Immisch, M.	Improvements in electric motors ...	S.
2178	„	Metallic thermometers for ordinary purposes	S.
403	Improved Wood Pavement Co. Limited	Street paving	S.
960	Indestructible Paint Co. Limited...	Browning's preservative solutions, and paints	S.
1681	India-rubber and Gutta Percha and Telegraph Works Co. Limited	India-rubber and gutta-percha	G.
1974	Ingram, W. J.	Exhibit of printing machinery	G.
2068	International Automatic Engraving Corporation, Committee of	General printing and engraving exhibit	D.
2665	Ipsens, Madame P. Enke (Denmark)	Terra cotta	B.
1359	Irish, W. E.	Electrical exhibit	B.
2590	Ives, F. E. (U.S.A.)	Improvements in the production of prepared paper and photo-typographical blocks	S.
1407	Jablochkoff and General Electricity Co. Limited	Jablochkoff system of electric lighting...	S.
1406	Jack, James H.	Electrical exhibit	B.
1746	Jackson, W.	Camp fittings and life-saving apparatus	S.
	Jadoffsky (Russia)	Cigarette machine	G.

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	JAPAN.		
	Japan, Government of	General exhibit	D. & G.
	Agricultural Department	General exhibit	D.
	Education Department, Tokio ...	Professor Ewing's seismometers and other scientific instruments	D.
	Government Arsenal	General excellence of exhibit	D.
	Government Printing Office ...	Specimens of papers, bindings, and embossed wall papers	D.
	Public Works Department ...	General exhibit	D.
	Telegraph Department	Excellent workmanship and design of electrical and telegraph instruments	D.
	Fugita Ichoro	Graphite crucibles	B.
	Hattori, Choshichi...	Artificial stone	B.
	Hirano Tomiji	Printing types and printing	B.
	Iwamoto Genzô	Carved bamboo	B.
	Kato Jukichi	Porcelain lamp stands	B.
	Kawamura Matasuké	Fine pottery	S.
	Kiritsu Kôshô Kwaisha	Bronze vase	G.
	Kuroda Chôrio	Copying, "tenguyo," and coloured papers	B.
	Matsumoto, Tshizayémon	Use of whale sinews for ligatures ...	B.
	Miura Momotarô	Tracing paper, "gampi" paper, letter and waste papers	B.
	Murata, Col.	Military rifle	S.
	Namikawa, Seiohi...	Cloisonné wares...	B.
	Nam-ikawa, Sôsuké	Ornaments	B.
	Obiyama Yohei	Fine pottery	S.
	Oki, Hidémasa	Lacquered copper wire, &c.	S.
	Saito, Masakichi	General exhibit	B.
	Satô Torakiyo	Specimens of wall papers, &c. ...	B.
	Shippô Manufacturing Co. ...	Shippo ornaments	B.
	Shômi, Eiyu	Bamboo flower vase	B.
	Tanzan-Seikai	Earthenware	B.
	Yamamoto, Yasuhei	Lacquer work	B.
2350	Jaques, J., and Son	Eclipse lawn tennis court marker and general improvements	B.
853	Jarvis, E. J.	Compound horse shoes	B.
24	Jeffery and Blackstone	Improved hay-making machine ...	S.
414	" " "	Portable vertical steam engine... ...	B.
1673	Jeffrey and Co.	Embossed leather and embossed leather paper	S.
2329	Jeffries and Co.	Improvements in cricket and lawn-tennis bats, &c.	B.
1720	Jeffries, A. and C.	Mouldings	B.
1808	Jelley, Son, and Jones	Sash fastenings and door handles ...	B.
1413	Jenkin, Professor Fleeming ...	Telpherage	G.
479	" " "	System of gearing	S.
2554A	Jerome Clock Co....	Novelties in clocks	B.
1008	Jessop, W., and Sons Limited ...	Crucible cast-steel stern frames, solid rudder, and cast-steel stern propeller brackets and blades	G.
1008	" " "	Hall and Verity's patent flexible crank shaft	S.
1328	Joel, Henry Francis	Electrical exhibit	B.
253	Johnson, W.	Economical brickmaking machine ...	B.
635	Johnson's Compensator Co. Limited	Liquid compensator for signal wires ...	S.
13	Johnstone Harvester Co.	String-binding "Appleby" reaping machine	S.
125	Jones, F., and Co.	Utilization of blast furnace slag ...	B.
1178	Jones, R. K.	Duplex ratchet brace and tube-plate cutter	S.
642	Jones, W. R. S.	Patent flexible buffer and screw coupling	B.
2235A	Jordan, J. B.	Sunshine recorder	S.
141	Jordan, Son, and Commans ...	Complete exhibit of mining machinery	G.
543	Joy, David	Valve gear	G.
1093	Judson and Sons	Glitterine painting on fabrics	B.
	Karol, F. (Austria-Hungary) ...	Improvements in cigarettes	B.
1822	Kaye, Joseph, and Sons	General exhibit of railway appliances ...	S.
2358	Keen, T. E.	Cork and wire models	B.
1334	Kendall, J. A.	Gas battery	S.

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261	Kent, G.	Water meter	S.
2526	Kent, G. B., and Sons	Automatic brush boring machine and brushes	S.
598	Kerr, Stuart, and Co.	Narrow-gauge rolling-stock	B.
2091 and 2180	Kew Committee of the Royal Society	System of testing watches; instrument testing apparatus, &c.	D.
534	Kirkaldy, John	Water distillers	S.
1473	Kirkham, Hersey, and Clark ...	Collective exhibit of gas apparatus ...	G.
434	Kirkstall Forge Co.	Shafting, couplings, and bearings ...	B.
1241	Kite, James, and Co.	Filter presses	G.
460	Kitson and Co.	Parson's high speed engine	G.
188	Kitto, Paul, and Nancarrow ...	Automatic discharging and righting skip	S.
	Klein and Sons, Switzerland ...	Wood carving	B.
1759	Knowles, Henry	Patent kiln	S.
453	Korting Brothers	Gas-engine	B.
1240	,, ,, ...	Aquapult	B.
1811	Krohne and Seseman	General excellence of exhibit of surgical apparatus	S.
2118	Kullberg, Victor	Improvements and general excellence in the manufacture of marine chronometers	G.
2118	,, ,, ...	Gas regulator for maintaining uniform temperature	S.
1923	Kynoch, G., and Co. Limited ...	General excellence of manufacture and cheapness of cartridges	S.
1493	,, ,, ,, ...	Mineral oil lamps	B.
1144	Ladd, J. H., and Co.	Wood screw making machinery ...	G.
1219	,, ,, ...	Boomer press and a continuous press for hay, straw, &c.	S.
2584	Ladd, W. H. (U.S.A.)	Furniture	B.
930	Laird Brothers	Mail steamer "Ireland"	G.
1926	Lancaster, Charles...	Excellence of workmanship and nicety of detail in guns and rifles	G.
1927	Lang, J., and Son...	General excellence of guns and rifles ...	G.
178	Latch, Arthur	Improvements in the construction of metal ropes	S.
2174	Latham, Baldwin	Tide gauge, &c....	S.
	Lawrence and Co. Limited ...	Improvements in refrigerators, &c. ...	S.
2517	Lawrence and Baxter (U.S.A.) ...	Paper-cutting machine and Royle's routing machine	S.
2039	Lawrence Brothers	Berlin and Jones's leader envelope machine	S.
1066	Lawson, Samuel, and Sons ...	Good's automatic spinner	S.
715	Lawton, J. A., and Co.	Patent cee spring double perch Victoria phaeton	G.
654	Laycock, William S.	Self-acting railway window blind apparatus	B.
1852	Leake, Barnett, and Co.	Door fasteners, &c.	B.
	Lechner, R. (Austria-Hungary) ...	Appliances for teaching modelling ...	B.
740	Lee, G. P....	Improved construction of cheap perambulator bodies of fluted steel	S.
1358	Lee, R. A.	Electrical exhibit	B.
1701	Lee, R. J.	Patent table chair	S.
487	Lee, James, and Sons	Leather belting	B.
2130	Légé, A., and Co....	Tide predicting machine, combined recording tide-gauge, anemometer, and barometer, &c.	G.
2130	,, ,, ...	Manufacture of clocks by machinery ...	S.
398	Legrand, A.	Portable mining and railway trucks ...	S.
910	Lennan and Son	Collection of inventions in harness and saddlery	S.
1269	Leonard and Smirke	Automatic fire extinguisher and alarm	S.
2060	Leonardt, D., and Co.	Semi-circular pointed pens	B.
1463	Levinstein, I., and Co.	Improvements in the manufacture of coal tar colours	G.
266	Lindsay, W. H., and Co.	Fireproof flooring with steel girders ...	S.
1236	Lines and Bridgman	Nailing machines for wood boxes ...	S.
2705A	List, Adolph (Germany)	Saccharine made from coal tar... ...	B.
1988	Litho Plate Co.	Patent litho plates	G.
123	Liveing, E. H. T....	Gas indicator	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
2558	Livermore, C. W. (U.S.A.) ...	Stylographic pens	S.
1076	Livesey, Henry, Limited	Loom	B.
	Lloyd, E.	Glass decoration	S.
716	Lloyd, Henry	Ingenuity of inventions in carriage building	B.
52	Lloyd, Lawrence, and Co. ...	Lawn mowing machine...	S.
556	Lockwood and Carlisle	Metallic piston packing...	B.
260	London Water Meter Supply Company	Rotary meters and "Daussin" domestic motor	S.
1401	Lorrain, J. G.	Electrical exhibit	B.
1874	Lowe, Joseph W.	Improved hollows and rounds in metal	S.
2192	Lowne, R. M.	Portable air meters, cycle log, and ships' log	S.
2691	Luckhardt and Alten (Germany) ...	Improvements in scientific instruments	G.
1346	Lundberg, André Peter	Electric lighting...	B.
1721	Lyle, James	Portable folding furniture	B.
2609	McAdams, John, and Sons (U.S.A.)	Marine brake	B.
1169	McColley, H.	Portable lock mortising machine ...	B.
14	McCormick Harvesting Machine Co.	String binding "Appleby" reaping machine	S.
1323	Macdonald, J. H. A.	Electrical exhibit	B.
202	MacGeorge, E. F....	Clinograph for mapping the deviation of bore holes	G.
2137	McHardy, Malcolm M.	Self-registering perimeter	B.
1187	Machell, H. E., and Co.	Stewart's rapid cupola	B.
1022	Mackenzie, H. S.	Bifurcated piston rod and cross head ...	B.
604	McKenzie and Holland	Railway signals, points, and crossings ...	G.
1446	Mackey, Mackey, and Co. ...	Preparation of salts of cerium for medicinal purposes	B.
1783	Mackie, W.	Glass blowing apparatus	S.
1347	,, ...	Electrical exhibit	B.
486	Mackie, J. and J., and Co. ...	Wrought iron spring pulley	B.
700	MacMullen, H., and Son	"Crescent" phaeton	B.
1085	McNary Machines Co. Limited ...	Circular machine for manufacture of textiles	S.
674	McNaught and Co.	General excellence in workmanship of carriages	G.
989	MacNicoll and Co. and Nicoll MacNicoll	Improvements in method of housing anchors	S.
2010	Macniven and Cameron	Collection of pens	B.
	Macpherson, Donald, and Co. ...	Quick-drying paints	B.
1467	Mactear, James	Improvements in alkali manufacture ...	S.
	Maddox, Dr.	Replacing collodion by gelatine in the emulsion process of photography	G.
1932	Maignen, P. A.	Successful application of rapid filtration to military filters	S.
1582	Malen and Déglise (France) ...	Apparatus for making tea and coffee, &c.	B.
1955	Malet, Lieutenant-Colonel Harold	Bale suspender	B.
163	Manganese Bronze Co.	Manganese bronze	S.
2087	Manufacturing Goldsmiths' and Silversmiths' Company	General exhibit of jewellery and plate...	G.
332	March, W., and Co.	Road sweeper and elevator	S.
1340	March, Octavius	Electrical exhibit	B.
1858	Mare, E. J. E., and James Dalgairns	Self-registering tap	B.
2270	Marion and Co.	Photographic apparatus	S.
788	Marriott and Cooper	Cycles	S.
1175	Marsden, Francis	Machinery for turning shafts, spindles, &c., &c.	B.
1129	Marsden, H. R.	Stone breakers	G.
2364	Marsden and Saffley	New material for bed of billiard tables	S.
1607	Marshall, A. B.	Improvements in freezing machines ...	B.
477	Marshall and Thunder	Metallic packing	B.
419	Marshall, J. T., and Co.	Compound semi-fixed engine and boiler	B.
	Marshall, Sons, and Co.	High-speed engine	S.
690	Marston, John, and Co.	Brougham hansom	S.
1022A	Martin, E....	Inextinguishable bow lamps	B.
1179	Martin, Robert	Improvements in drills, milling tools, rimers, &c., and excellence of work	S.
876	Martin, Albert, and Co.	Patent horse clipper	B.

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867	Martyn, Arthur	Method of fixing horse shoes without burning hoofs	S.
2184	Massey, J. Edward	Improvements in ships' logs	S.
1734	Masters, John	Improvements in brushes	S.
1071	Mather and Platt	Sampling, bleaching, and washing machine	G.
	" "	High-speed engine and dynamo ...	S.
1685	Maitland, G. R. and T. C. ...	Improved process of manufacturing dentures from vulcanite and celluloid	S.
1467	May and Baker	Pharmaceutical preparations	S.
519	Mayhew's Patent Boiler Feeder Co.	Automatic boiler feeders	S.
776	Maynard, Harris, and Co. ...	Devon tricycle with spring frame ...	S.
694	Maythorn, John	General improvements in carriages ...	B.
	Maxim-Weston Electric Light Co.	Electrical exhibit	S.
1888	Maxim Gun Co. Limited	Novelty and ingenuity of automatic firing arrangement	G.
2015	Meisenbach Co. Limited	Examples of photo-mechanical printing	S.
476	Melling, Thomas	Water motor	B.
2677	Menant, P. H. J. (France) ...	Metallic tiles	B.
1279	Merryweather and Sons	Steam fire-engines and appliances for use in extinguishing fires	G.
606	" "	Locomotive for street tramways ...	S.
544	Metallic Valve Co.	Metallic valve	S.
228	Middleton, W.	Slating iron roofs	B.
206	Midford Fuller's Earthworks Limited	Improvements in the preparation of Fuller's earth	B.
1736	Milbourne and Humphreys ...	Skips	B.
2032	Millard, William	Flexible composition stereotypes and machines for printing from them	S.
1330	Miller, Leslie B.	Electrical exhibit	S.
2309	Millis, C. F.	Application of the principles of descriptive geometry to the cutting of sheet metal	G.
112	Mills, J. and S.	Safety lamps	S.
1140	Mintons Limited	Casting process	S.
884	Mitton, Paul	Shears	S.
2004	Model Printing Press Co.... ...	Improved model printing press... ...	B.
1952	Mole, Robert, and Sons	Matchets, swords, &c.	G.
	Moncrieff, Colonel Alexander ...	Moncrieff travelling siege carriage (manufactured by Easton and Anderson), and system of hydro-pneumatic gun-carriages	G.
799	Moore, Thomas	Two-speed gear for tricycles	B.
2116	Moore, George	Clock with electric alarum attachment	B.
673	Morgan and Co.	Patents and improvements in carriages	B.
2227	Morgan and Kidd	Argentic gelatino-bromide process for photography	B.
118	Morgan's Lamp Patents, Proprietors of	Safety lamps	G.
504	Morley, Samuel	Patent water brush	B.
1868	Morley, William	Invention for preventing nuts from working loose	B.
1257	Morrell, J. C.	Fire escape	B.
634	Morris, H.	General railway exhibit	B.
145	Morris and Wood	Patent mill for grinding quartz... ...	B.
1834	Morton, Joseph	Table cutlery	S.
558	Morton and Thomson	Ejector condenser	G.
1683	Mosses and Mitchell	Vulcanized fibre...	B.
704	Mulliner, Francis	India rubber tyres for carriage wheels	S.
454	Mumford, A. G.	Donkey pumps	B.
467	Munden, William John	Gas-engines	B.
1366	Munro, John	Electrical exhibit	B.
200	Muntz's Metal Company	Sharpe's patent method of drawing copper tubes	S.
463	Murray, James	Metallic packing	B.
1467	Muspratt, James, and Sons ...	Improvements in the manufacture of choride of potassium	S.
2537	Myers, F.	Box nailing machine	B.
1943	Needham, J.	Ejector	S.
33	Neighbour, G., and Sons	Bee-keeping appliances...	S.

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1843	Newham, —	Improved apparatus for moving helpless patients	B.
1977	Newsum, Wood, and Dyson ...	Improvements in litho-printing machinery	S.
2134	Newton and Co.	Improvements in magic lanterns ...	S.
874	Newton, Wilson, and Co.	Patent horse groomer	B.
7	Nicholson, W. N., and Sons ...	Haymaking machines, horse rakes, bone mill, and improved "Fulton" grinding mill	S.
461	" " "	Steam engines	S.
	Nisson, W. (Russia)	Travelling trunks	B.
1899	Nobel's Explosives Co. Limited ...	Successful application, by Alfred Nobel, of nitro-glycerine to explosive purposes, as effected by detonation, and method of manufacture	G.
2640	Nordenfelt, T.	Method of casting wrought iron ...	G.
1885	" "	Excellence in machine and quick firing guns	G.
1439	" "	Method of extracting oils, albumen, glue, &c., from fish	S.
1669	Norris, S. E., and Co.	Leather manufactures	S.
156	North Eastern Steel Co.	Basic Bessemer steel	S.
1633	Northamptonshire and Leicestershire Boot and Shoe Machinery Co. Limited	Heel-making machine	S.
1840	Nunan, Edward	Hose coupling	B.
2197	Oertling, L.	Excellence in balances, &c.	G.
670	Offord and Son	Self-acting hood and india-rubber covered steps for carriages	B.
422	Ogden, Ralph	Manchester automatic expansive steam-engine	B.
	Oldfield and Walton	Link belting	B.
1164	Olrick, Lewis, and Co.	Root's rotary pump	B.
1556	" "	Improved malt-kiln	B.
1432	Orchard, John	Apparatus for compression and liquefaction of gases	S.
1777	Original Crystoleum Co.	Imitation of renaissance glass	B.
2363	Orme and Son	Improvements in billiard tables and accessories	B.
2052	Osborn and Shearman	Improvements in paper-hanging printing machines	S.
	Osmond, J....	"Ramrod" lawn-tennis pole with eccentric tightener	B.
809	Otto Co.	"Otto" bicycle	S.
889	Owen and Miller	Lady's safety stirrup	S.
115	Oxland, Robert	Improvements in calcining ores ...	B.
1454	Packard, Edward, and Co. ...	Improvements in the manufacture of phosphoric acid and super-phosphates, and of cane sugar	S.
2050	Paget, A., and Co.	Multiple writing apparatus	S.
2050	Paget Prize Plate Co.	Dry plates for photography	B.
1711	Paice, Alexander	Writing cabinet for yachts	B.
2648	Palmer, Frères (France)	Iron pottery	B.
2049	Paper Cutting and Reeling Co. ...	Colley's improvements in cutting and reeling paper	B.
2714	Parise, Achille (France)	Locks	G.
1357	Parkes, Alexander...	Insulating materials	S.
1521	Parkinson, W., and Co.	Collective exhibit of gas apparatus ...	S.
1827	Parry, John	Furniture and fittings	S.
376	Parry, William	Bricks for preventing penetration of water	B.
	Parsons, Hon. E.	Electric governor and dynamo	S.
313	Partridge, J.	Window-blind fittings	B.
	Pasteur, M.	Patent filter	B.
	Patek, Philippe, and Co. (Switzerland)	Excellence of manufacture of watches	G.
2552	Patent Automatic Sash Motor Co.	Spring catch	B.
364	Patent Cable Tramways Corporation	Cable tramways...	S.

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548	Patent Exhaust Steam Injector Co. Limited	Exhaust and restarting injectors ...	S.
1440	Patent Liquid Fire-proof Cyanite Paint Co.	Coloured cyanite	S.
271	Patent Mycenian Marble Co. ...	Mycenian marbles	B.
333	Patent Nut and Bolt Co. Limited	Bolts and nuts	S.
1459	Patent Porous Carbon Co. Limited	Carbon for deodorizing and decolouring	B.
301	Patent Self-Fastening Coal Plate Co.	Self-fastening coal plate	B.
1876	Patent Triangular Nail Co. Limited	Patent triangular nails	G.
312	Patent Window Fittings Co. ...	Window fittings without weights ...	S.
1292	Paterson and Cooper	Electrical exhibit	B.
1910	Patstone, John	Excellence of workmanship and cheapness of firearms	S.
653	Payton, Walter	Improvements in carriage door-locks ...	B.
	Pearce, L.	Fricton still	S.
1537	Pearson, R. H., and J.	Kitcheners and register grates	B.
2527	Pearson and Gill	Automatic brush boring machine ...	S.
907	Peat, Henry, and Co.	General exhibit of saddlery	S.
1866	Peirce, William Adams	Locks	B.
1782	Pellatt, Apsley, and Co.	General exhibit of glassware	S.
2540	Peltier, E., and Co. (France) ...	Machine for shelling peas	B.
1911	Perkes, Thomas	Mechanism of safety arrangement for sporting guns	B.
444	Perkins, A. M., and Sons... ...	High-pressure engine and boiler and evaporative surface condenser	B.
1373	Perry, A. H.	Electrical exhibit	B.
	Perry and Co.	Method of making stained glass windows	S.
1321	Phillips, F. C.	Electrical exhibit	B.
1239	Phœnix Metal Die and Engineering Company	Dies for hot forgings	S.
162	Phosphor Bronze Company ...	Phosphor bronze alloys	G.
2271	Photographic Artists' Stores ...	Dry plates for photography	B.
2259	Photographic Society of Great Britain	Historical exhibit of various processes and apparatus	B.
2204	Physical Society of London ...	Collective exhibit	D.
2129	Pickard and Curry	Ophthalmic appliances	B.
349	Pickering, J.	Epicycloidal pulley blocks and hoists ...	B.
1403	Pilsen-Joel and General Electric Light Co. Limited	Pilsen lamp	S.
563	Pinchbeck, J.	Rotary steam-engine	B.
2730	Planté, G. (France)	Secondary battery and scientific research	G.
	Platanoff (Russia)	Indestructible composition for dolls, &c.	B.
2261	Platinotype Company	Excellence of results in photographic printing produced by W. Willis' invention	G.
1641	Pocock, Bros.	Hygienic appliances and invalid beds ...	S.
	Poldireff (Russia)	Photography by artificial light... ...	B.
2030	Polychromatic Simultaneous Printing Company	Polychromatic printing...	B.
342	Ponton, Archibald Campbell ...	Artificial stone and concrete	B.
1280	Pooley, Henry, and Son	Platform weighing machines and self-indicating apparatus, polygraded steelyard, and automatic grain scale ...	G.
23	Porritt, J. W.	Sack hoist	B.
1267	Poupard, T. J.	Combined weighing machine, sack holder, and sack lifter	B.
1703	Pratt, C., and Sons	Furniture, and floor and wall coverings	B.
1191	Price's Patent Candle Company Limited	Improvements in the manufacture of candles, &c.	G.
54 and 863	Priest and Co.	Horse shoe pads and cutlery	S.
545	Proctor, James	Mechanical stoker and fire bars ...	B.
	Pulham, James, and Sons... ...	General exhibit of concrete, stoneware, &c.	S.
1201	Pulsometer Engineering Company Limited	Pulsometer steam pump, Deane pump, and "Thames" filter	G
108	Purdy, William	Safety lamp	S.
382	Putney, Alfred	Wood flooring	B.

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172	Pyrites Smelting Company Limited	Amalgamating apparatus for gold ...	B.
1623	Randall, H. E.	"Tenacious" lawn-tennis shoe... ...	B.
1124	Ransome, A., and Co.	Cask making machinery and tree felling machine	G.
324	Ransomes and Rapier	"Pendulum titan"	S.
17	Ransomes, Sims, and Jeffries Limited	Straw-burning engine, and straw-chopping, bruising, and softening apparatus as applied to the steam threshing machine	G.
17	" " " ...	Lifting apparatus adapted to double and multiple furrow ploughs, lawn mowing machine, and edge cutting machine	S.
2527	Raper, Pearson, and Gill	Automatic brush boring machine ...	S.
1750	Rees, W. A.	Cornice pole rings	B.
1930	Reilly, E. M., and Co.	Excellence and cheapness of manufacture of fire arms	S.
90	Rendle, W. E., and Co.	Improvements in dry glazing for conservatories	S.
245	Rennie, G. B.	Navigable self-propelling and careening floating dock	S.
1234	Reynolds, F. W., and Co.... ...	Cheap wood working machinery ...	S.
150	Rhodes, J., and Sons	Sheet metal working machinery ...	S.
2311	Rice, William	Improved apparatus for teaching elementary astronomy	S.
2199	Richardson, Dr. B. W.	Apparatus for extinction of life ...	B.
655	Richardson, John	Steam-engine indicator for taking continuous diagrams	B.
636	Richardson and Greenwood ...	Duplex safety drawbars	B.
1993	Richardson, Koolman, and Isger ...	Electro-plates and moulds	B.
10	Riches and Watts	"Turnover" horse rake	S.
2027	Richford, E. M.	Rubber stamps	B.
27	Richmond and Chandler	Chaff cutters	S.
1223	Richmond, J., and Co.	Telescopic hydraulic lift	B.
497	Richter Patent Economiser Manufacturing Co.	Improvements in vessels for holding liquids	B.
624	Ridsdale and Co.	Railway lamps	B.
1917	Rigby, John, and Co.	Improved safety bolt and excellence of workmanship in guns	G.
1614	Rigg, James	Floating elevator for loading grain ...	S.
2310	"	Models of machine construction ...	S.
1342	Riley, John	Electrical exhibit	B.
1467	Roberts, Dale, and Co.	Manufacture of aurine	S.
433	Robey and Co.	Improved Robey winding engine and horizontal fixed engine	S.
1012	Robinson, —	Boat-lowering gear	S.
652	Robinson, J. B.	Improved sliding stop-sash for railway carriages and broughams	B.
377	Robson, J.	Drip tiles	B.
528	Rocking Fire Bar Syndicate Limited	Diagonal rocking fire bar	B.
660	Roe, James Thorne	Roe railway coupling	B.
1378	Rogers, Francis M.	Electrical exhibit	B.
1067	Rolls, James, and Sons	Oilcloth and linoleum	B.
1775	Rose, J., and Co.	Ornamental china	S.
2700	Rosel, F., and A. Buidant (Belgium)	Furniture	B.
2176	Ross, Lieut.-Col. W. A.	Improvements in blow-pipe analysis ...	B.
2125	Ross and Co.	Progress and excellence of work in the manufacture of lenses since the early days of photography, also microscopic and other optical apparatus	G.
2242	Rouch, W. W., and Co.	Improved camera and dry plates ...	S.
2094	Rowley, A. and H.	Improvements in details of mnufacture of clocks and clock cases	S.
990	Royal Blind Asylum and School, Edinburgh	Improved bedding	B.
2208	Royal Meteorological Society ...	Meteorological apparatus	D.
937	Royal National Life Boat Institution	Improvements in life-boats	D.
557	Royle, John James	Appliances for steam engines	B.
1994	Rubber Stamp Company	Stereotyping in rubber by a dry process	B.
790	Rudge, D., and Co.	Cycles	S.

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2739	Rung, G. (Denmark)	Improvements in meteorological instruments	G.
2686	Ruscheneyh and Schmidt (Germany)	Expanding tables	B.
1781	Rust, J.	Vitreous mosaic...	S.
2643	Sackur, Dr. H. (Germany) ...	Polishing metal plates and excellence of work	S.
1467	Sadler and Co.	Improvements in the manufacture of nitro- and bi-nitro-benzol	S.
1128	Sagar and Co.	Wood working machines	S.
2103	Sage, F.	Workmen's time check	S.
1263	St. George-Cuff, Captain A. ...	Balconies with fire escape ladders ...	B.
815	St. George's Engineering Co. ...	Bicycles	G.
1491	Sale, F.	Mineral oil lamps.	B.
1139	Sales, Pollard, and Co.	Cigarette machinery	S.
1982	Salmon, James	Self-clamp guillotine cutting machine ...	S.
1637	Salmon and Co.	Heel making machines	S.
2151	Salomons, Sir David, Bart. ...	Electrical appliances and philosophical instruments	S.
840	Salsbury, J. E.	Cycle lamps	B.
2096	Samper, M., and Co.	Eight-day alarum	S.
940	Samuda Brothers	Paddle-wheel steamer "Mary Beatrice"	S.
2256	Samuels, T.	Apparatus to be fitted to the photographic camera for holding and exposing dry plates	B.
2248	Sands and Hunter...	Adaptation of various improvements to photographic apparatus	B.
1467	Sankey White Lead Co.	Improvements in the manufacture of white lead	
	Santner, Antonia (Austria-Hungary)	Method of preserving plants	B.
83	Sargent, George	Continuous wood and wire fencing ...	S.
2731	Sauze, E. (France)	Low-priced carriage clocks	B.
608	Saxby and Farmer	Railway signals and safety appliances...	G.
2254	Sayce, B. J.	Prominent share in the invention of the collodio-bromide process	G.
521	Schäffer and Budenburg	Appliances for steam engines	S.
	Schandor, L. (Russia)	Lamp for burning heavy mineral oils ...	B.
	Schrabetz, Emil (Austria-Hungary)	Anti-fluctuator for gas engines ...	S.
1900	Schultze Gunpowder Co. Limited	Successful application of a nitro compound to sporting purposes	S.
	Schumann, J. (Austria-Hungary)	Improvements in mechanical toys ...	B.
	Scott, Major L. K., R.E.	Telescopic sight for artillery purposes...	S.
478	Scott, Ernest	Ashton's positive actioned power meter and continuous indicator	G.
173	Scott, Ernest, and Co.	Machine for extracting iron from other substances by means of electro-magnetism	S.
466	Scott, Frank Walter	Air compressor	S.
553	Scott-Moncrieff, W. D.	Steam-engine governor...	B.
1744	Scott, W. G., and Sons	Luncheon cases	B.
852	Segger, Thomas	Hydropathic hood for horses.	B.
1216	Selig, Sonnenthal, and Co. ...	Turret head lathe	S.
1355	Sellars, J. C.	Electrical exhibit	B.
1310	Sennett, A. R., and Co.	Electrical exhibit	B.
1278	Shand, Mason, and Co.	Steam fire-engines and other appliances for use in extinguishing fires	G.
1143	Shanks, T., and Co.	Screwing, &c., machines	S.
2651	Shannon File and Co.	System of letter-filing	B.
1213	Sharp, Stewart, and Co.	Planing machine and general excellence of exhibit	G.
1082	Shaw, Professor W. S. Hele ...	Sphere and roller mechanism for transmission of power	G.
2168	" " " ...	Improved integrators	G.
81	Shea, C. E.	Garden frames with double-hinged lights	B.
1555	Shears, J., and Son	Centrifugal drying machine, &c. ...	B.
1304	Shepherd, C.	Improvements in electrical and sympathetic clocks	B.
1640	Shepherd, Rothwell, and Hough ...	Sewing and circular knitting machines	G.
174	Sheppard, Charles...	Coal-washing machinery	S.

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2250	Shew, J. F., and Co.	Various convenient contrivances in connection with photographic apparatus	B.
1353	Shippey Brothers	Electrical exhibit	B.
1579	Shuttleworth-Brown, D. H. ...	Apparatus for preparing infusions ...	B.
	SIAM, GOVERNMENT OF	General exhibit	D. & G.
	" "	Textile fabrics	S.
	" "	Gold, silver, and enamelled plate ...	S.
369	Sidgwick and Co.	Orderly bin	B.
2720	Siemens, F. (Germany)	Tempered glass	G.
	Siemens Brothers and Co.... ...	Excellence of electric lighting arrangements	G.
210	Simon, H. T.	Simon-Carvès coke ovens with continuous recuperation of heat and recovery of bye-products	G.
2685	Simon, H., and Co. (Germany) ...	Burglar-proof shutter	B.
243	Simons, W., and Co.	Screw hopper dredgers and elevating steamers	S.
962	Simpson and Denisons	Engines and machinery applied to the gear of small yachts	S.
663	Simpson, D. K.	Railway station indicator	B.
276	Simpson, W. B., and Sons ...	Decorated enamel iron and Anglo-Limoges enamels	G.
1268	Sinclair, J....	Chemical fire engines, hose-coupling, and automatic sprinklers	S.
1186	Slack's Emery Wheel and Machine Co. Limited	Emery machines for tool grinding ...	S.
379	Slate Débris Utilisation Co. ...	Manufacture of commercial products from slate débris	S.
2368	Slazenger and Sons	Improvements in lawn-tennis equipment	B.
2583	Smedes, Levi K. (U.S.A.) ...	Furniture	B.
2155	Smith, Rev. F. J.	Ergometer and integrating instruments	S.
599	Smith, M. Holroyd	Electric tramway	S.
1297	Smith, T. Taylor	Electrical exhibit	B.
218	Smith, Watson	Investigations relating to the Simon-Carvès process for recovering bye-products	S.
1245	Smith, A., and Stevens	Hydraulic balance and hydraulic balance lift	S.
1198	Smith, Hugh, and Co.	Hydraulic riveting machinery	S.
2095	Smith, J., and Sons	Electric time balls	S.
1571	Smith, Powers, and Co.	Rotary bottle-cleaning machine ...	B.
462	Smith, Sydney, and Sons	Steam whistles and appliances for steam engines	B.
136	Snelus, G. J.	Illustrations of improvements in the process of manufacture of steel, and in the apparatus used therein	S.
1160	Snowdon, John	Boring and screwing apparatus ...	B.
1476	Somerville, John	Gas-making apparatus and gas cooking stove	S.
871	South, W. A.	"Rational" horse shoe	S.
1151	Spencer, John, and Co.	Key seating machine	B.
2264	Spiller, A.	Gelatino-chloride of silver transparencies, developed with hydroxylamine	B.
2378	Spong and Co.	Oar or scull for rowing face to bow, with self-acting feathering	B.
	Spongio Lignine Company (Austria-Hungary).	"Spongio Lignine"	B.
1985	Sprague and Co.	Photo-mechanical printing	S.
2115	Squire, R.	Improvements in cheap watches ...	B.
1600	Squire, W. S.	Improvements in the manufacture of pressed yeast	B.
1856	Standard Manufacturing Co. ...	Locking and bolting apparatus ...	B.
2108	Standard Time and Telephone Co. Limited.	Method of synchronizing clocks ...	S.
1431	Stanford, E. C. C.	Improved method of obtaining products from seaweed	S.
472	Stanford, Walter H. C.	Patent friction clutch	S.
758	Stanley, F....	Combined carrying chair and stretcher	S.
2175	Stanley, W. F.	Improvements in philosophical instruments	G.
827	Starley and Sutton	Coventry chair	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
829	Stassen and Sons	Cycles	S.
337	Steel, W. H.	Elevators and dinner-lifts	B.
1542	Steel and Garland...	Wharncliffe ventilating grate	S.
1360	Stephen, J....	Synchronic call	S.
445	Sterne, L., and Co.	Gas engines	G.
1226	„ „	Emery machines for tool grinding ...	S.
1908 and 2135	Steward, James Henry	Optical apparatus	S.
1377	Stewart, Charles W.	Electrical exhibit	B.
2663	Stollwerck Brothers (Germany)	Improved chocolate manufacturing apparatus	B.
1583	Stopes, H., and Co.	Improvements in malt kilns	B.
1891	Storey, Albert H....	Army trenching tools	B.
1749	Storey Brothers and Co.	Washable wall covering	B.
1183	Story, J. H.	Jaw chuck for lathes	B.
399	Stothert and Pitt Limited... ...	Wild's patent single chain-dredger ...	G.
1503A	Stott, J., and Co.	Gas governor for service pipes... ...	B.
35	Stroud, R., and Co.	Improved milk cans	S.
231	Suffield and Brown	Freshwater distiller	S.
1479	Sugg, William, and Co. Limited ...	Collective exhibit of gas apparatus ...	G.
814	Surrey Machinist Co.	Cycles	G.
961	Suter, Hartman, and Co.	Rahtjen's composition	S.
1204	Swalwell and Moore	Self-sustaining pulley block with automatic break action	B.
1381	Swan, Alfred	Electric safety-lamp	S.
1326	Swan, J. W.	Incandescent lamps	G.
2263	„ „	Part taken by him in the invention of carbon printing	G.
637	Sykes, W. R.	Combined electric interlocking and blocking system for railways	G.
2633	Tachau, C.	Leather clothing	B.
946	Tagg, T. G., and Sons	Patent method of caulking seams ...	B.
845	Tandy, H.	Tricycle	B.
1202	Tangye Brothers	Special steam pump, automatic condenser, and hydraulic jacks	G.
1873	Tarling, C.	Folding steps	B.
2162	Tate, S.	Improvements in calculating machines...	B.
372	Tayler, R. W.	Automatic scavenger	S.
1161	Taylor, Charles	Parallel machine vice	S.
1287	Taylor, W. W.	Reversing apparatus for paper	B.
1069	Taylor and Sons	Improvements in looms	B.
826	Taylor, J. M. and G.	"Oarsman" tricycle	B.
217	Tebbutt, C. G.	Patent safety bricks	S.
1622	Tester, John, and Co.	Improvements in sewing machines ...	S.
933	Thames Iron Works and Shipbuilding Co. Limited	Iron-clad "King George"	S.
578	Thom, John	Patent slide-valve	S.
274	Thomas, T., and Sons	Self-sustaining lifts and hoists with automatic break	G.
1630	Thomas, W. F., and Co.	Sewing machine	S.
1171	Thompson, Charles	Apparatus to adapt a lathe to slotting, &c.	B.
2043	Thompson and Norris Manufacturing Co. Limited	Improvements in the manufacture of corrugated paper as a packing material	B.
1356	Thompson, Dowsing, and Rew ...	Electrical exhibit	B.
1551	Thompson, H., and Co.	Smoke preventing kitchener	B.
533	Thomson, Archibald	Coupling for broken shafts	G.
1327	Thomson and Houston	Systems of electric lighting. (Exhibited by Laing, Wharton, and Down.)	G.
943A	Thomson, J. and G.	Transatlantic steamer "America" ...	G.
...	Thonet Brothers (Austria-Hungary)	Bent wood furniture	S.
2167	Thornthwaite, Horne, and Wood...	Improved lime-light apparatus, and photographic apparatus	B.
1610	Thornwill and Warham	Brewery machinery	B.
1585	Thorpe, H....	Electrical exhibit	B.
1063	Thorpe, Thomas	Doubling and winding machines ...	S.
696	Thrupp and Maberley	Excellence of workmanship in carriage building	S.
2362	Thurston and Co.	Electric billiard marker and improvements in billiard tables	S.
160	Thwaite, C. N.	Model of the Rio Tinto Mines... ...	B.
1501	Tice, William	Gas governors for service pipes ...	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
227	Tighe, C.	Door handles	B.
259	Titus, J. T., and Hinksman, C. ...	Gas trap...	B.
669K	Timmis, I. Augustus	Railway signals and points	B.
310	Tobitt, T.	Window sashes	B.
711	Todd and Wright	Livingstone travelling car and improved patent dogcart	G.
1549	Tomkins, A. S.	Arrangements for cooking in the field...	S.
1570	Tomkins, Courage, and Cracknell	Improved malt kiln	B.
1784	Toughened Glass Co. Limited ...	Toughened glass	B.
1405	Traill, W. A.	Electric tramway	S.
1072	Treloar and Sons	"Coir" mats	S.
2624	Trevor, J. D.	Adjustable watch dial, showing two different times	B.
517	Trier Brothers	Engine counters...	S.
823	Trigwell, J. R.	Ball-bearing head for cycles	S.
1639	Trotman, H.	Permanent accordion pleating machine	B.
1380	Trott, H., and Fenton	Electrical exhibit	B.
1361	Trouvé, G....	Electrical appliances	S.
2553	Troy Laundry Machinery Co. Limited (U.S.A.)	Laundry machinery	G.
1861	Tucker and Reeves	Patent locks	B.
934	Turk, R. J.	Construction of boats	B.
537	Turnbull, Alexander, and Co. ...	Boiler fittings	B.
1914	Turner, Thomas	Featherweight gun and general excellence of exhibit	S.
1634	Turner, R., and Son	Wire-drawing apparatus	S.
129	Turnock, J. R.	Machine for pickling and swilling metal plates	B.
665	Turton, George	Coupling buffer	B.
1138	Tushaw, J., and Co.	Automatic punching machine	S.
532	Tyler, Hayward, and Co.... ...	Rider's patent caloric engine	S.
168	" " "	Universal steam pump	S.
1806	Tyson, John	Portable hand facing tool	S.
2022	Umpherson and Co. Limited ...	Patent rag engine for paper pulp ...	G.
1636	Unicum Patent Automatic Buttonhole Machine Co.	Automatic buttonhole cutting and sewing machine	S.
37 and 883	Unite, John	Tents, rick-covers, and Kennett's nose-bag	S.
841	Usher, Henry	Balance gear	B.
159	Uskside Engineering Co.	Underground self-contained hauling engine	B.
609	Vacuum Brake Co.	Vacuum automatic continuous brake, with universal coupling	G.
2266	Van der Weyde	Electric illumination of the sitter in photographic portraiture	B.
1613	Van Lookeren, Oyens, and Co. (Holland)	Appliances used in the manufacture of butterine	S.
1336	Varley, S. A.	Designing the first self-exciting dynamo-machine	G.
1293	Varley Electric Patents Proprietory	Application of flexible carbon	S.
1707	Vaughan, J. T.	Cask thrall and tilter	B.
438	Venetian Air Valve Furnace Bar Co.	Furnace fire-bars	B.
2699	Venice and Murano Glass and Mosaic Co. Limited	Enamel mosaics...	G.
1823	Verity Brothers	Builders' fittings	S.
1074	Vincent Auguste (France) ...	Finishing machine for textile fabrics ...	B.
727	Vincent, William	Tip cart...	S.
727	" "	Joint facing bricks	B.
28	Vipan and Headly	Milk cans and milk carts	S.
2652	Voss, Robert	Induction machine	S.
2585	Vuitton, Louis	Patent trunks	S.
1397	Vulcan Manufacturing Co. ...	Electrical exhibit	B.
	Wahliss, Ernst (Austria-Hungary)	Pottery	G.
2265	Walery, Count Ostrorog	Carbon and enamel photographs ...	B.
2092	Walker, John	General excellence in watches	S.
424	Walker Brothers	Air compressing machinery	B.
1948	Wallace, Major N. Willoughby ...	Entrenching spade and portable saw ...	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1475	Waller, George, and Co. Limited	Gas apparatus	S.
2538	Walley and Gare	Bootmaking and waterproofing... ...	S.
1725	Walsh and Brierley	Umbrellas	B.
	WAR DEPARTMENT.		
	Royal Gunpowder Factory ...	Abel's system of pulping and compressing gun-cotton	D.
	Royal Carriage Department ...	General excellence of exhibit	D.
	Royal Gun Factories	General excellence of exhibit of guns, and the high ingenuity displayed in their breech closing and sighting arrangements	D.
	Royal Laboratory	General excellence of manufacture ...	D.
	Royal Small Arms Factory ...	General excellence, especially in improvements connected with service rifles, particularly as regards the quick firer	D.
	Royal Engineers' Establishment, Chatham	1st. Employment of cheap mirrors for the electric light 2nd. Application of the vibrator 3rd. Cardew's voltmeter 4th. Toughness and lightness of the material employed for military baloons, and its capability of retaining hydrogen gas 5th. The use of tubes for the storage of hydrogen gas under high pressure, for balloon inflation	D.
2562	Ward, B. G. (U.S.A.)	Treadle for sewing machines	B.
2201	Ward, P.	Illuminating apparatus for surgical purposes	S.
773	Warman and Co.	Driving chains	B.
1688	Warne, W., and Co.	India rubber	G.
2560	Warner, Brothers (U.S.A.) ...	Coraline for corsets	S.
1197	Warner, J., and Sons	Chain pumps, bell buoys, and beacons	B.
2226	Warnerke, L.	Progress in connection with film negatives for photography	S.
1665	Warwick, Walter	Machine for glossing leather, &c. ...	B.
242	Waste Water Meter Co. Limited...	Differentiating waste water meter ...	S.
2026	Waterlow and Sons Limited ...	Printing processes and machinery ...	G.
1946	Watkin, Major H., R.A.	Ingenuity in devising and applying practically scientific and accurate instruments to various military purposes; and the electric light for powder factories	G.
929	Watkins and Co.	Steam yacht "Lily"	S.
1253	Watkinson R.	Instantaneous couplings and metal ferrules for hose pipes	B.
357	Watson, J.	Cement kiln	B.
1065	Watson, Laidlaw, and Co.... ...	Self-balancing centrifugal machine and hydro-extractor (Weston's patent); self-balancing electro-centrifugal machine and hydro-extractor (Watts' patent); also oil separator	G.
1146	Watts, J., and Co....	Band sawing machine	G.
1200	Waygood, R., and Co.	Hand lifts and continuous passenger and goods lifts	S.
1770	Webb, Edward	General exhibit of ornamental glass ...	B.
605	Webb, Francis William	Exhibit of railway plant	G.
1768	Webb, Thomas, and Sons... ...	General exhibit of glass, &c.	G.
286	Webb, W.	Automatic tidal weir	S.
2109	Webster, R. G.	Mode of showing 24-hour time and other improvements in time-keepers	S.
	Weidemann, C. L. (Switzerland) ...	High class watches	B.
	Weill and Harburg (Switzerland)	System of indicating the time in watches	B.
	Weinlaube, Administration of (Austria-Hungary)	Improved vineyard apparatus	S.
620	Welch, E. J. Cowling, and W. Parker Smith	Automatic brake	S.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
1019	Welch, William	Cement composition for metal plates and coating for the surface of iron and steel ships	S.
1949	Weldon, Lieutenant - Colonel Francis	Simple portable and sufficiently accurate range finder for general military purposes	S.
1497	Wenham Patent Gas Lamp Co. Limited	Regenerative gas burner	S.
1648	West, William	Improvements in bracelet fastenings ...	S.
1563	West, T., and Co....	Milling machinery and emery wheels ...	B.
760	Westaway, James	Guidance lamps and martinet reins ...	S.
2348	Western Mechanical Co.	Portable exercising machine	B.
607	Westinghouse Brake Co. Limited	Automatic air-brake and passenger communication for railway trains	G.
1238	" " "	Direct acting steam pumps for air or water	S.
824	Weston, David George	Central-action tricycle	B.
51, 1272 and 1879	Wethered, Lieutenant - Colonel E. R.	Window furniture, locks, and portable fire escape	S.
882	Wheeler, John	Improved side-saddle	S.
1855	White, William	Springless locks	B.
555	White, John, and Sons	Patent leather rope and machine belting	B.
932	White Star Line	Transatlantic steamer "Britannic" ...	G.
	Whitehead, —	Fish torpedo	G.
530	Whitley Partners	Patent spun liners for shafts, &c. ...	S.
1104	Whittall, M., and Co.	Fabrics embossed and in relief... ...	B.
	Wilde, Henry	Discovery of the indefinite increase of the magnetic and electric forces from quantities indefinitely small	G.
1854	Wilkinson, G. W....	Atmospheric gas soldering iron ...	B.
21	Wilkinson, W.	Turnip thinner disc	B.
459	Willans and Robinson	Willans' compound engine and electric governor	G.
296	Willett, Samuel	Safety sash fastener	B.
1141	Willett, T., and Co.	Pottery making machine	B.
1203	Williams, T. H.	Improvements in steam-moved valves ...	B.
1737	Williamson, W. B., and Sons ...	Improvements in trunks	S.
749	Williamson, W. E.	Apparatus for registering fares ...	G.
540	Wilson, Alexander, and Co. ...	Slide valve gear...	B.
229	Wilson, D.	Drying slurry	B.
1666	Wilson, Edward	Pinning or striking machine for leather	S.
1116	Wilson, Brothers	Wood bobbins, tubes, spools, &c. ...	S.
1538	Wilson Engineering Co. Limited...	Cooking and heating apparatus ...	B.
1433	Wilson, J. Veitch, and Co. ...	Improvements in the manufacture of lubricating oils	B.
2195	Wilson, W. J.	Harmonograph	S.
2205	Wimshurst, H. W.	Coin and disc counter	B.
2128	Wimshurst, James	Induction machine	S.
881	Winder, Richard	Spring saddle	B.
697	Windover, C. S.	Huntingdon cee spring buggy	B.
1620	Winter, S.	Shoes and boots for athletics	B.
249	Wiswall, F., and Collier, W. ...	Patent tilting weir	S.
1662	Woollams, William, and Co. ...	Embossed leather and torgorine ...	B.
1605	Wood, James P.	Furniture	B.
418	Wood, John, and Edward... ...	"Corliss" engine	S.
8	Wood, W. A.	String-binding "Wood-Holmes" reaping machine and a grass mowing machine	G.
2014	Wood, Miss	Geometrical ruler	B.
	Woodbury, W. B.	The part taken by him in inventions in connection with permanent photographic printing	G.
1294	Woodhouse and Rawson	Electrical exhibit	S.
1912	Woodwards, James, and Sons ...	Improvements in hammerless guns ...	B.
873	Wooldridge, Henry	Method of roughing	S.
698	Worger and Son	Inventions and neatness of workmanship in carriages	B.
1130	Worssam, S., and Co.	Wood working machinery	G.
1228	Worthington Pumping Engine Co.	Worthington steam pumps	G.
1478	Wright, Alexander, and Co. ...	Collective exhibit of gas apparatus ...	G.
2365	Wright, G., and Co.	Billiard and dining table	B.

Catalogue Number.	Name of Exhibitor.	Subject of Award.	Award.
2090	Wycherley, Hewitt, and Co. ...	Improved machinery for the manufacture of watch movements	G.
2580	Yale and Towne Manufacturing Co. (U.S.A.)	Locks	G.
2615	Yandell, Charles R., and Co. (U.S.A.)	Embossed leather for chairs, screens, &c.	G.
945	Yarrow and Co.	Stern-wheel Nile steamer "Lotus" ...	S.
2185	Yeates and Son	Standard pressure gauge, &c.	S.
465	Young, John	Speed indicator	S.
1992	Young, T. Graham	Chemical process in the preparation of wood pulp	B.
1426	Young's Paraffin Light and Mineral Oil Co. Limited	Improvements in the manufacture of products from shale, and in lamps for burning mineral oils	G.
1486	Young, William, and G. Beilby ...	Improvements in the distillation of shale and coal	G.
2061	Zuccato and Wolff...	Trypograph, or multiple writer... ...	S.

SOCIETY OF ARTS MEDALS.

The following Gold Medals have been awarded by the Society of Arts on the recommendation of the Juries:—

Group.	Name of Exhibitor.	Subject of Award.
2.	Sir Henry Bessemer, F.R.S.* ...	For the invention of Bessemer steel.
,,	Percy Gilchrist *	For the Thomas-Gilchrist basic process of steel making
4.	Hathorn, Davey, and Co.	For their domestic motor. (*Medal offered under the Howard Trust*)
,,	Samson Fox	For the invention of corrugated iron flues for steam boilers. (*Medal offered under the Howard Trust*)
,,	Crossley Brothers	For the "Otto" gas engine. (*Medal offered under the Howard Trust*)
11.	Ralph Tweddell	For his system of applying hydraulic power to the working of machine tools, and for the riveting and other machines which he has invented in connection with that system. (*Medal offered under the Howard Trust*)
14.	Badische Anilin und Soda Fabrik *...	For their improvements in the manufacture of colouring matters, and intermediate products from coal tar
28.	William Crookes, F.R.S.	For his improvements in apparatus for the production of high vacua, and for his invention of the Radiometer. (*Medal offered under the Fothergill Trust*)

* These medals were awarded by the Society of Arts in consequence of an application from the Jury Commission, who were anxious to carry into effect recommendations from the respective juries, urging the claims of the exhibitors to special recognition.

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