

4442. And to Alexander Browne, of the firm of Browne and Company, Patent Agents, of 5, Southampton-buildings, Holborn, in the county of Middlesex, for the invention of "improvements in motors applicable to the driving of sewing and other machines."—A communication to him from abroad by Messieurs Perrier and Bocard the younger, of Paris, France.

On their several petitions, recorded in the Office of the Commissioners on the 16th day of November, 1876.

4446. To Kennard Knott, of 4, South-street, Finsbury, in the county of Middlesex, Contractor, for the invention of "an improved method and apparatus for preserving animal and vegetable substances."

4448. To Thomas Coats, of Paisley, in the county of Renfrew, North Britain, Thread Manufacturer, for the invention of "improvements in automatic apparatus for extinguishing fires."—A communication to him from abroad by Hezekiah Conant, residing at Pawtucket, Rhode Island, in the United States of America.

4450. To John Neal Sedgley, of Leicester, in the county of Leicester, Cabinet Maker and Upholsterer, for the invention of "improvements in the construction of half tester bedsteads."

4452. To Alfred Todd, of Birmingham, in the county of Warwick, Mechanical Engineer, for the invention of "improvements in apparatus for raising and lowering heavy bodies."

4454. To John Sidney Crowley, of Manchester, in the county of Lancaster, Engineer, for the invention of "improvements in the construction of buckles and keepers, and in the mode of connecting them to leather straps and other articles, also in the construction of travellers' belts and in the mode of uniting the ends of leather and other straps."

4456. And to Alexander Anderson, Manager of the Singer Manufacturing Company's Works, Glasgow, North Britain, for the invention of "improvements in sewing machines, also in the mode of and in the means for winding spools and cops for the same and in cop cases."

On their several petitions, recorded in the Office of the Commissioners, on the 17th day of November, 1876.

4458. To Joshua Rundell and William Joshua Rundell, of the Imperial Iron, Copper, and Brass Works, Poplar, in the county of Middlesex, Manufacturers, for the invention of "improvements in water-gauges for steam-boilers."

4462. To John Foulds, trading under the name of Edward Le Mare, of Manchester, in the county of Lancaster, Mechanician, for the invention of "improvements in apparatus for preparing cues and cue-tips for connection."

4464. To Joseph Michell Paull, of Stonehouse, Plymouth, in the county of Devon, Gentleman, for the invention of "improvements in the construction of and method of actuating brakes for railway trains."

4466. To William Eli Sudlow, of Oldham, in the county of Lancaster, Engineer for the invention of "improvements in machinery or apparatus for steaming and setting textile fabrics."

4468. To Alfred Henry Allen, of Sheffield, in the county of York, Analytical Chemist, for the invention of "improvements in the treatment of ores containing nickel, and in obtaining nickel and secondary products therefrom."

4470. To Robert Pinkney, of Bread-street-hill, in the city of London, and Francis Davis Ward, of the firm of Marcus Ward and Company, of Belfast, in the county of Antrim, Ireland, and

of 67, Chandos-street, in the county of Middlesex, for the invention of "improvements in the preparation and use of an improved printing or surfacing ink."

4472. To John Barr, of Greenock, in the county of Renfrew, North Britain, for the invention of "a new or improved castor."—A communication to him from abroad by Lewis Peter Lawrence, of Port Morris, in the State of New Jersey, in the United States of America.

4474. To William Rutherford and Peter Mitchell, both of the town and county of Forfar, North Britain, for the invention of "new or improved automatic gripping tongs or 'reachers.'"

4478. And to James Starley, junior, and John Kemp Starley, both of Coventry, in the county of Warwick, for the invention of "improvements in velocipedes, a part of which improvements is applicable to other vehicles."

On their several petitions, recorded in the Office of the Commissioners on the 18th day of November, 1876.

4480. To Robert Andrew Gibbons, of Grove House, Northfleet, in the county of Kent, for the invention of "improvements in the manufacture of Portland cement."

4482. To Thomas Shaw and William Blackburn, both of Marsh, Huddersfield, in the county of York, for the invention of "a new or improved method of and apparatus for measuring and drawing off any given quantity of liquid from a vat, cask, or other vessel containing it in bulk."

4486. To William John Jewitt, of Blackburn, in the county of Lancaster, for the invention of "improvements in the construction of steam engines."

4488. To Richard Quick, of Wharton-street, in the county of Middlesex, Bath Manufacturer, for the invention of "improvements in the construction of baths to be heated by gas."

4490. To Henry Jennings, of the city of Coventry, Boot and Shoe Manufacturer, for the invention of "improvements in the manufacture of boots and shoes."

4492. To David Crombie, of No. 34, Coleman-street, in the city of London, Merchant, for the invention of "improvements in fire lighters."

4494. And to William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for the invention of "improvements whereby lace and bobbin net machines are adapted to the manufacture of fabrics heretofore only manufactured by hand or on ordinary weaving looms."—A communication to him from abroad by Léon Sival La Serve, of Lyons, France.

On their several petitions, recorded in the Office of the Commissioners on the 20th day of November, 1876.

4496. To James Smith, of the firm of Thomas Smith and Company, of Canal Potteries, Old Kent-road, in the county of Surrey, for the invention of "an improved method and apparatus for the manufacture of sanitary and other pottery ware pipes."

4498. To William John Kendall, of Heaton Norris, in the county of Lancaster, Engineer, and John Whiteley, of Rochdale, in the county of Lancaster, Gentleman, for the invention of "improvements in the construction of roller skates."

4500. To Alphonse Edouard Thomas, of Clabecq, in the Kingdom of Belgium, Mechanic, for the invention of "improvements in the construction and arrangement of the rolls of 'three high' rolling mills for rolling iron or steel or of other