

cation to him from abroad by George Beadle, of Syracuse, New York, United States of America, Gentleman.

4846. To Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "improvements in machines for punching, shearing, and stamping metals."—A communication to him from abroad by David Brickner, of the city, county, and State of New York, United States of America.

4848. To Harold Wilhelm Widmark, of 13, Tamworth-place, Redland-road, in the city of Bristol, for the invention of "improvements in steam engines and boilers applicable for road locomotives, steam tram cars, and other purposes."

4850. And to George Richardson, of Batley, in the county of York, Mechanical Engineer, for the invention of "improvements in looms for weaving."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of December, 1877.

4856. To Eugene Durand, of Paris, Boulevard de Strasbourg, 59, Manufacturer, for the invention of "an improved self-acting needle for knitting machines."

4858. To Archibald Brown, of the town and county of Lanark, North Britain, for the invention of "improvements in fancy wood work boxes and similar articles in the fancy box trade, which are also suitable for games of amusement."

4860. To Antoine Mathot, of Brussels, in the Kingdom of Belgium, Manufacturer, for the invention of "improvements applicable to the manufacture of hats, caps, bonnets, hat bodies, fancy bags, and baskets, and other articles which are usually made of straw."

4864. To John Neale, of 47, Lincoln's-inn-fields, in the county of Middlesex, for the invention of "improvements in moulding and compressing granular sugar, and in the machinery or apparatus employed therein."—A communication to him from abroad by August Friedrich Wilhelm Partz, of Philadelphia, Pennsylvania, United States of America.

4866. And to George Low, of Ipswich, in the county of Suffolk, for the invention of "improvements in cranes to be worked by hydraulic or other power."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of December, 1877.

4868. To John Ashworth, Felt Manufacturer, and Charles Payant, Engineer, both of Dukinfield, in the county of Chester, for the invention of "improvements in carding engines, used in the manufacture of felt."

4872. To Henry Leach Wilson and John Clegg, both of Atlas Works, Clayton-le-Moors, in the county of Lancaster, Washing and Wringing Machine Makers, for the invention of "improvements in washing and wringing machines."

4874. To Thomas Boyd, of Leeds, in the county of York, for the invention of "improvements in the means or apparatus employed for forming patterns or designs on woollen or other woven or felted fabrics."

4876. And to Howard Busby Fox, of Oxton, in the county of Chester, for the invention of "improvements in the method of and apparatus for preventing draughts in railway or other carriages, ships, cabins, or other moving struc-

tures, through windows or other apertures open for the admission of air."

On their several petitions, recorded in the Office of the Commissioners on the 22nd day of December, 1877.

4878. To William Phillips Thompson, of 6, Lord-street, Liverpool, in the county of Lancaster, British and International Patent Agent and Consulting Engineer, for the invention of "improvements in lenses for signal lights or lanterns on railways and elsewhere, more especially where light has to be projected to a great distance."—A communication to him from abroad by Charles Frederic Haughton, of Corning, in the county of Steuben, and State of New York.

4880. To Walter Weldon, of Rede Hall, Bur-stow, in the county of Surrey, for the invention of "an improvement in the manufacture of soda and potash by the Leblanc process."—A communication to him from abroad by Alfred Rangoon Pechiney, of Salindres, in the Republic of France.

4882. To Leonard Randal Davies, of 2, Tower Royal, Cannon-street, in the city of London, Iron Merchant, for the invention of "improvements in machinery for registering the speed, length, and time of stoppages of a railway train and other moving machinery."—A communication to him from abroad by Vincent Ferrero, Mechanician, of Florence, Italy.

4884. To William Agnew Pope, of Cannon-street, in the city of London, for the invention of "improvements in burners for lamps and heaters, and in wicks for the same."—A communication to him from abroad by Charles Frederick Albert Hinrichs, of Brooklyn, in the State of New York, United States of America.

4886. To Denham Whitehouse, of Wolverhampton, in the county of Stafford, Hardware Manufacturer, for the invention of "improvements in axle-pullies and frame-pullies for window sashes and other purposes."

4888. To Sydney Pitt, of Sutton, in the county of Surrey, for the invention of "improvements in the mode of agglomerating chemical substances."—A communication to him from abroad by Camille Desmazures, Chemist, residing at Paris, in the Republic of France.

4890. To James Barbour, of Belfast, in the county of Antrim, Ireland, for the invention of "improvements in machinery for preparing and spinning manilla and other fibres."

4892. To William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for the invention of "improvements in aëro-steam-generators."—A communication to him from abroad by Thomas Lloyd Jones, of Saint Louis, Missouri, United States of America, Mechanical Engineer.

4894. And to Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "an improved rotary pump, applicable also as a blower and motor."—A communication to him from abroad by Thomas Wilbraham, James Wilbraham, and John William Wilbraham, all of the city and county of Philadelphia, State of Pennsylvania, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 24th day of December, 1877.

PATENTS WHICH HAVE BECOME VOID:

A LIST of the Letters Patent for Inventions which have become void by reason of the non-payment of the additional Stamp Duty of