

3847. To Frederick Hawke, of 10, Saint John's Wood Park, in the county of Middlesex, Gentleman, for the invention of "improvements in obtaining press copies of manuscripts, and in the preparation of paper so as to render it capable of being employed therefor."

3848. To David Ballantyne, of Tweed Vale Mills, Walkerburn, near Innerleithen, in the county of Peebles, North Britain, Manufacturer, for the invention of "improvements in apparatus for the manufacture of spotted yarns or threads."

3849. To Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "an improved calendar."—A communication to him from abroad by Jean Marc Louis Parisod and Jean Eléonor Gustave Prochasson, both of Paris, France.

3850. To Samuel Ward, of Lower Elm-street, Sneinton, near Nottingham, for the invention of "improvements in machinery for seaming, turning off, and waling hosiery goods."

3851. And to Samuel Holker, of Lumb, near Bury, in the county of Lancaster, Paper Manufacturer, for the invention of "improvements applicable to the treatment of straw, esparto, wood, and similar substances used in the manufacture of paper."

On their several petitions recorded in the Office of the Commissioners on the 18th day of December, 1872.

3852. To Arthur Charles Henderson, of the firm of Henderson and Company, British and Foreign Patent Agents, of 31, Charing-cross, in the county of Middlesex, for the invention of "improvements in apparatus for filtering and defecating water by radiation, in the mode of cleansing the said apparatus, and in its several applications."—A communication to him from abroad by Gustave Demailly, Civil Engineer, of the city of Brussels, and Kingdom of Belgium.

3853. To Frederick Burnett Houghton, of No. 40, Borough-road, in the borough of Southwark, and county of Surrey, for the invention of "improved method of, or process for, treating spent hops for the manufacture of paper pulp."

3854. To Nathan Ager, of No. 28, Grosvenor-road, Pimlico, in the county of Middlesex, for the invention of "improvements in sashes and frames, and in apparatus for facilitating the cleaning, painting, and repairs of windows and sashes."

3855. To Edward Whitehall, of Thorneywood-lane, near Nottingham, in the county of Nottingham, Machinist, for the invention of "improvements in apparatus for uniting parts of looped fabrics."

3856. To Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "improved means of ventilating ships or vessels."—A communication to him from abroad by James Reilly, of the city, county, and State of New York, United States of America.

3857. To Robert Smyth, of Glasgow, in the county of Lanark, North Britain, Agent, for the invention of "improved feathering paddles for propelling ships or vessels."

3858. And to John Robinson, of Rochdale, in the county of Lancaster, Engineer, and John Smith, of the same place, Engineer, for the invention of "improvements in machinery for shaping staves for casks."

On their several petitions recorded in the Office

of the Commissioners on the 19th day of December, 1872.

3862. To Samuel Neville, of the Neville Glass Works, Gateshead, in the county of Durham, for the invention of "improvements in ornamenting pressed and blown glass and apparatus therefor."

3864. To John Borthwick, of Cheadle, in the county of Chester, for the invention of "improvements in the form and method of construction of worms employed in worm-gearing."

3866. To Thomas Kennelly, of Birmingham, in the county of Warwick, Gas Fitter, for the invention of "improvements in blow-pipes used in soldering and brazing metals, and for other purposes."

3868. To Robert Delanoy Cooke Shaw, of Swinhead, in the county of Lincoln, for the invention of "a new or improved machine or apparatus for loading or lifting, and in some cases for preparing to be loaded or lifted, yard or other manures and other materials, into or on carts or other receptacles or places."

3870. To Henry Kesterton, of Park-road, Moseley, near Birmingham, for the invention of "improvements in the construction of steam boilers."

3872. To Josiah Wade, of Halifax, in the county of York, Printing Machine Maker, for the invention of "improvements in machines for printing."

On their several petitions, recorded in the Office of the Commissioners on the 20th day of December, 1872.

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 £50, before the expiration of the third year from the date of such Patents, pursuant to the Act of the 16th Vic., c. 5, sec. 2, for the week ending the 21st day of December, 1872.

3618. William Collett Homersham, of 2, Willes-road, Kentish Town, in the county of Middlesex, Civil Engineer, for an invention of "improvements in pipes and conduits, and in the joints thereof."—Dated 15th December, 1869.

3619. Nicholas Proctor Burgh, of 78, Waterloc-road, in the parish of Lambeth, in the county of Surrey, Engineer, for an invention of "an improved double or single acting pump."—Dated 15th December, 1869.

3620. William Robert Lake, of the "International Patent Office," Southampton-buildings, London, Consulting Engineer, for an invention of "improvements in apparatus for making and breaking electro-magnetic circuits, chiefly designed for governing short or local circuits for operating signals on long telegraphic lines."—Communicated to him from abroad by Edward Seymour Hidden, of Millburn, New Jersey, United States of America, Manufacturer.—Dated 15th December, 1869.

3621. Edward Moss, of Winchester House, Old Broad-street, in the city of London, Gentleman, for an invention of "improvements in kilns or apparatus for the manufacture of malt."—Communicated to him from abroad by Charles Theodore Klemm, of Pfullingen, near Reutlingen, in the Kingdom of Würtemberg, Gentleman.—Dated 15th December, 1869.

3622. Edward Johnson, of Manchester, in the county of Lancaster, Contractor and Builder, for an invention of "improvements in the