

3993. To William Webster the younger, of Wyberton House, Lee, Kent, Gentleman, for the invention of "improvements in the application of endosmose action to apparatus for detecting the presence of hydrogenous gases in mines or elsewhere."

3997. To Ralph Chantry Pyrke, of Thornhill-road, Barnsbury Park, in the county of Middlesex, for the invention of "improvements in that class of urns known as tea and coffee urns."

3999. And to Charles Fox, of Old Change, in the city of London, Gentleman, for the invention of "an improved alloy to be used for various purposes in the arts in place of brass or other alloys of copper."—A communication to him from abroad by William A. Hopkins, of Paris, in the Republic of France.

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

4001. To James Ledger, Engineer and Patent Agent, of 61, Fleet-street, London, for the invention of "improvements in ship building for life saving purposes."—A communication to him from abroad by Felix Frédéric Lemoine, of Paris, in the French Republic.

4003. To Simon Danischewski, of Wilna, in the Empire of Russia, but temporarily of 37, Steward-street, in the county of Middlesex, Engineer, for the invention of "an improved machine for obtaining and applying motive power."

4005. To Julius Baur, of the city of Brooklyn, in the county of Kings and State of New York, in the United States of America, but at present of 23, Southampton-buildings, in the county of Middlesex, for the invention of "improvements in the manufacture of steel."

4009. To Thomas Smith, of the firm of Thomas Smith and Sons, of Saltley, near Birmingham, in the county of Warwick, Edge Tool Manufacturers and Stampers, for the invention of "improvements in the manufacture of the fingers of reaping and mowing machines and in dies or tools to be used in the said manufacture."

4011. And to Thomas Walter Harding, of the Tower Works, Globe-road, Leeds, in the county of York, Hackle, Gill, and Pin Manufacturer, for the invention of "improvements in machinery for the manufacture of circle combs, Gill combs, Gills, hackles, porcupines, and other similar articles, and of the steel pins used therein."

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

4013. To William Taylor, of Liverpool, in the county of Lancaster, for the invention of "improvements in modes of ventilating iron, steel, wood, composite, or other decked vessels or floating bodies, and in the construction thereof."

4015. To Edward Reynolds, of Mona House, Westbourne-road, Sheffield, in the county of York, for the invention of "improvements in centrifugal pumps and fans."

4017. To Alexander Turnbull, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "improvements in safety valves."

4019. To Ernest Archibald Berger, of Lincoln, in the county of Lincoln, Captain of H.M. Tenth Regiment of Foot, and Adjutant of the Royal North Lincoln Militia, for the invention of "improvements in cricket bats."

4021. To Thomas Barrow, of Rock Ferry, in the county of Chester, for the invention of "improvements in the method of and apparatus and

appliances for consuming smoke and condensing gases and noxious vapours, parts of which improvements relate to a construction of steam boiler to be used therewith or independently."

4023. To Henry Cherry, of Aston, near Birmingham, in the county of Warwick, Mechanical Engineer, for the invention of "improvements in machinery for the manufacture of welded iron and steel chain."

4029. To William Robert Lake, of the firm of Haseltine, Lake & Co., Patent Agents, Southampton-buildings, London, for the invention of "improvements in breech loading fire arms."—A communication to him from abroad by William Lewis Headley, of Brooklyn, New York, United States of America.

4031. And to William Birch, of Salford, in the county of Lancaster, Machine Maker, for the invention of "improvements in squeezing machines."

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

#### 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 Vict., c. 5, sec. 2, for the week ending the 21st day of October, 1876.

3329. Thomas Almond Metcalfe, of Falsgrave, near Scarborough, in the county of York, and William Massingham, of East Stockwith, near Gainsborough, in the county of Lincoln, for an invention of "improvements in the manufacture of manure."—Dated 15th October, 1873.

3331. John Towle, of the town and county of Oxford, one of Her Majesty's Justices of the Peace of the city of Oxford, for an invention of "improvements in the means employed for treating sewage."—Dated 15th October, 1873.

3333. Edward Bevan, of Birkenhead, in the county of Chester, Watch Manufacturer, for an invention of "improvements in obtaining filaments, fibres, and pulp from flax, hemp, jute, and manilla."—Dated 15th October, 1873.

3339. John Clayton Mewburn, of 169, Fleet-street, in the city of London, Patent Agent and Consulting Engineer, for an invention of "improvements in fire escapes."—Communicated to him from abroad by Louis Gilquin, and Henri Charles de Lacauve, both of Lille, France.—Dated 15th October, 1873.

3348. Jabez Woolley and Thomas Padgett, both of Hunslet, near Leeds, in the county of York, for an invention of "improvements in brick making machinery."—Dated 16th October, 1873.

3349. Henry Cooke, of Springwood House, Grimsthorpe, near Sheffield, in the county of York, Manufacturer, for an invention of "the better utilization of Bessemer steel rail ends, through their conversion into strips and hoops."—Dated 16th October, 1873.

3350. John Inray, of No. 20, Southampton-buildings, Chancery-lane, in the county of Middlesex, for an invention of "an improved apparatus for clearing steam pipes of air and water of condensation, and for regulating the temperature of liquids heated by steam."—Communicated to him from abroad by Alfred Peyer, of Guebwiller, Alsace, Engineer.—Dated 16th October, 1873.