

Patent Law Amendment Act, 1852.

Office of the Commissioners of Patents for Inventions.

351. **N**OTICE is hereby given, that the petition of George Haselkine, of the "International Patent Office," Southampton-buildings, London, praying for letters patent for the invention of "improvements in submarine torpedo launches, and in apparatus connected therewith,"—a communication to him from abroad by Henry Julius Smith, of Boston, Massachusetts, United States of America,—was deposited and recorded in the Office of the Commissioners on the 29th day of January, 1873, and a complete specification accompanying such petition was at the same time filed in the said office.

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355. **N**OTICE is hereby given, that the petition of Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, praying for letters patent for the invention of "improvements in sifting shovels,"—a communication to him from abroad by George Washington Dean, of the city, county, and State of New York, United States of America,—was deposited and recorded in the Office of the Commissioners on the 29th day of January, 1873, and a complete specification accompanying such petition was at the same time filed in the said office.

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356. **N**OTICE is hereby given, that the petition of John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, praying for letters patent for the invention of "improvements in lamps for burning heavy oils,"—a communication to him from abroad by Robert Hitchcock, John Morton Sigourney, and William Van Vranken Rosa, all of Watertown, county of Jefferson, State of New York, United States of America,—was deposited and recorded in the Office of the Commissioners on the 29th day of January, 1873, and a complete specification accompanying such petition was at the same time filed in the said office.

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NOTICE is hereby given, that provisional protection has been allowed—

3970. To John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, for the invention of "new or improved methods, processes, and apparatus, for depositing upon wrought iron, steel, and cast iron, layers of copper or alloys of copper."—A communication to him from abroad by Octave Gauduin, Chemist, Jean Baptiste Java Mignon, and Stanislas Henry Rouart, Builders, all of Paris, in the Republic of France.

On his petition, recorded in the Office of the Commissioners on the 31st day of December, 1872.

102. To John Kininmonth, of Kirkcaldy, in the county of Fife, North Britain, Baker, for the invention of "improvements in heating bakers' ovens, and in the apparatus employed therefor."

On his petition, recorded in the Office of the Commissioners on the 10th day of January, 1873.

114. To George Charlesworth, of Cross Pipes, Denby Dale, near Huddersfield, in the county of York, Power Loom Tuner, for the invention of "an improvement in power looms."

On his petition recorded in the Office of the Commissioners on the 11th day of January, 1873.

146. To Walter Pitcher, of 15, Park-street, Camden Town, in the parish of St. Pancras, in the county of Middlesex, Ornamental Hair Manufacturer, for the invention of "improvements in craping hair and other fibrous materials, and in the machinery employed therein."

150. To Robert Quintavalle, Shipbroker, and William Thomas Cassel Pratt, both of Newport, in the county of Monmouth, for the invention of "a new method of fixing a reserved rudder (in case of loss of the original one during a gale or from any other cause) with very little delay."

152. And to Harold Littledale Power, of No. 40, Albemarle-street, Piccadilly, in the county of Middlesex, for the invention of "improvements in umbrellas."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of January, 1873.

228. To Matthias Edward Bowra, of Upper Norwood, in the county of Surrey, and Thomas Wood, of Adelaide-road, in the county of Middlesex, for the invention of "improvements in the manufacture of elastic fabrics."

On their petition recorded in the Office of the Commissioners, on the 20th day of January, 1873.

250. To Benjamin Boothroyd, of Southport, in the county of Lancaster, Venetian Blind Manufacturer, for the invention of "improvements in the method of and apparatus for sizing and painting laths for venetian blinds and other articles with any kind of liquid colouring."

252. And to Benjamin Hardwick Foster, of Newcastle-on-Tyne, in the county of Northumberland, for the invention of "improvements in the construction of motive power engines driven by steam, compressed air, or other elastic fluid, or by water."

On both their petitions, recorded in the Office of the Commissioners on the 22nd day of January, 1873.

260. To Robert Fairburn, of Burley-in-Wharfedale, in the county of York, Machine Wool Combing Overlooker, for the invention of "improvements in machinery for washing or scouring wool or other fibres."

262. To George William Halfpenny, of No. 25, Lower Shadwell, in the county of Middlesex, Wholesale Butcher, for the invention of "improvements in the manufacture of incombustible paper, in ink for writing on the same, and in covers and envelopes for the said paper, or other paper when made into books or packages."

263. To William Ireland, of Macclesfield, in the county of Chester, for the invention of "improvements in the casting of steel ingots for wheel tyres."—A communication to him from abroad by Richard Pink, of Hoerde, Westphalia.

265. To Smith Feather, of Bradford, in the county of York, Weaving Overlooker, for the invention of "improvements in fire grates."

266. To Frederick Jacobsen, of Redfern House, in the county of Edinburgh, for the invention of "improvements in treating sewage for the purpose of making manure and purifying sewage."

267. To John Cumming, of Edinburgh, in the county of Mid Lothian, North Britain, Machinist, for the invention of "improvements in