

the Commissioners on the 11th day of August, 1877.

3075. To James Smith, of Sale, in the county of Chester, for the invention of "improvements in or applicable to machinery for cutting the ends of 'lapping boards,' and other analogous purposes, singly, or in combination with machinery for dowelling in the construction of packing-cases."

3077. To William Stead and James Conlong, both of Radcliffe Bridge, in the county of Lancaster, for the invention of "improvements in looms for weaving."

3081. To Henry Wilson Kelly, Mechanical Engineer, and John George McEntagart, Commission Agent, both of Dublin, in the county of Dublin, Ireland, for the invention of "improvements in apparatus for overcoming the back lash experienced in machines used for the purpose of drying, parts of which are also applicable to other machines where tubes are employed for the conduction of cold or heated air."

3083. To William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for the invention of "improvements in the manufacture of wire."—A communication to him from abroad by William Bansen, of Bodenbach on the Elbe, Austria, Manufacturer of Wire.

3085. And to Alexander David Robertson, of Montrose, North Britain, Mill Manager, for the invention of "improved apparatus to be employed in the heckling of flax and other fibrous substances."

On their several petitions, recorded in the Office of the Commissioners on the 13th day of August, 1877.

3086. To Ishmael William Lister, of Merefield-street, and Albert Edward Shepherd, of Mitchel-street, both of Rochdale, in the county of Lancaster, for the invention of "improvements in apparatus for tilting and emptying vessels containing liquids."

3087. To Campbell Morfit, of Baltimore, in the State of Maryland, in the United States of America, but at present of 23, Southampton-buildings, in the county of Middlesex, Consulting Chemist, for the invention of "improvements in the manufacture of vegetable and animal food preparations."

3088. To John Banks Taylor, of Prestonpans, in the county of Haddington, North Britain, for the invention of "an improved apparatus for collecting, lifting, conveying, elevating, and depositing hay and corn crops, straw, grass, and other analogous materials."

3090. To William Stanley Lewis, of Wolverhampton, in the county of Stafford, Bicycle Manufacturer, for the invention of "improvements in manumotive vehicles for running on common roads."

3091. To Luke Collier, of Rochdale, in the county of Lancaster, for the invention of "improvements in egg-wisks or beaters."

3093. To Theodor Bock, of Mincing-lane, in the city of London, Merchant, for the invention of "an improved method of hardening or toughening glass and apparatus therefor."—A communication to him from abroad by A. Neeser, Senior, of Augsburg, in the Kingdom of Bavaria.

3094. To Thomas Bradford Bates, of the firm of C. A. Coutts and Company, of Crown-court, Aldersgate-street, in the city of London, for the invention of "improvements in the means

employed for exhibiting pictures or other works of art in combination with boxes or cases, containing fancy articles or other merchandise.

3096. To George Fournier, of No. 42, Boulevard de Strasbourg, in the city of Paris, Chemist, for the invention of "improvements in the manufacture of agents for the purification of sewage and for other purposes."

3097. To Joseph Bottomley, of Buttershaw, near Bradford, in the county of York, Spinner and Manufacturer, for the invention of "improvements in spinning."

3098. To Joseph Lindley, of the city of Manchester, Manufacturer, for the invention of "improvements in embroidering machinery."

3099. To John Newton Sears, of Fenchurch-street, in the city of London, Merchant, for the invention of "an improved process or method of treating wood to preserve the same from decay."—A communication to him from abroad by Louis S. Robbins, of the city and State of New York, United States of America.

3100. And to James Edwin Phillips, of Grantham, in the county of Lincoln, for the invention of "improvements in reaping and mowing machines."

On their several petitions, recorded in the Office of the Commissioners on the 14th day of August, 1877.

3101. To William Cooke, of 43, Southampton-buildings, Holborn, in the county of Middlesex, Civil Engineer and Patent Agent, for the invention of "improvements in operating or working railway breaks."—A communication to him from abroad by Joseph Clark, of St. Petersburg, in the Empire of Russia.

3102. To James Moore, of Watford, in the county of Hertford, Gentleman, for the invention of "improvements in the construction of fire proof ceilings and floors."

3103. To Charles Henry Simmonds, of Sheffield, in the county of York, Concrete Builder, for the invention of "improvements in the appliances for building in concrete."

3104. To Thomas Arthur Seago and Frederick Charles Klosz, trading as Seago and Company, of Birmingham, in the county of Warwick, Cut Glass Manufacturers, for the invention of "new or improved machinery or apparatus to be used in cutting or ornamenting articles of glass."

3106. To William Jackson, of Gordon-street, Leith-walk, Edinburgh, for the invention of "improvements in knitting machinery."

3109. To Peter Jensen, of Chancery-lane, London, for the invention of "a new or improved polishing machine."—A communication to him from abroad by Doctor Emil Jacobsen, of Berlin, Germany.

3110. To Joseph Withey Light, of Winford, near Bristol, for the invention of "improvements in covers for ricks."

3111. To Maxime Lahanssois, of Paris, Boulevard de Strasbourg, 59, Gentleman, for the invention of "improvements in compressing and packing hay, wool, cotton, and other voluminous fibrous substances."

3112. To William Turnbull, of 7, Hobbury-street, Chelsea, Middlesex, Engineer, for the invention of "improvements in locomotives and other steam engines, surface condensers, and water tanks for condensing."

3113. To Claude William Fox, of Birkenhead, in the county of Chester, for the invention of "improvements in and applicable to umbrellas, parasols, and sunshades."