

of the Commissioners on the 13th day of August, 1878.

3223. To James Graddon, of 22, Castelnauvillas, Barnes, in the county of Surrey, Engineer, for the invention of "improvements in machinery for sucking, compressing, and discharging fluids for motive power, or other purposes."

On his petition, recorded in the Office of the Commissioners on the 15th day of August, 1878.

3256. To Raphael Hunter Brandon, of No. 1, Rue Laffitte, Paris, and No. 38, Southampton-buildings, London, Engineer and Patent Agent, for the invention of "improvements in machinery for manufacturing casks, barrels, and other similar articles."—A communication from Frederick Spaight Blount, a person resident at No. 1, Rue Laffitte, Paris.

On his petition, recorded in the Office of the Commissioners on the 17th day of August, 1878.

3259. To Samuel Gallie, of Birkenhead, in the county of Chester, Engineer, for the invention of "improvements in apparatus or appliances for forging or shaping bolts, nuts, rivets, and light work."

3263. To Emile Tétard, of Boulevard de Strasbourg, 23, at Paris, Gentleman, for the invention of "an improved shutter for milk-box."

3265. To Hugo Martiny, of the city of Adersbach, in Bohemia, Austria, for the invention of "an improvement on self-acting apparatus on flax-spinning machines for putting feeders out of gear, and for interrupting the feeding of threads in case of tearing."

3267. To Edward Thorneycroft, of Chesterton, in the county of Stafford, Brick and Tile Manufacturer, for the invention of "improvements in machinery for making bricks, tiles, and other articles."

3269. To George Pitt, of Sutton, in the county of Surrey, for the invention of "improvements in unhairing and tanning hides and skins."—A communication to him from abroad by Giovanni Canali, of San Giovanni Bianco, in the Province of Bergamo, Italy.

3271. To Friedrich Hermann Felix Engel, Civil Engineer and Patent Agent, in the city of Hamburg, Germany, for the invention of "improvements in stud fastening."—A communication to him from Otto Rafflenbeul and A. Kahl, both of Hamburg, in the German Empire.

3272. And to John Keats, of Wood Green, in the county of Middlesex, Engineer, for the invention of "improvements in sewing-machinery, and in cops to be used therewith."

On their several petitions, recorded in the Office of the Commissioners on the 19th day of August, 1878.

3275. To William Seddon Sutherland, of Birmingham, in the county of Warwick, Engineer, for the invention of "improvements in means and apparatus for moving and compressing gases and fluids."

3279. To Ancell Ball, of Spalding, in the county of Lincoln, Physician, for the invention of "improvements in apparatus for lighting and heating."

3281. To Herbert John Haddan, of the firm of Herbert and Company, Solicitors of Patents, of 67, Strand, in the city of Westminster, Civil Engineer, for the invention of "an improved chair and sofa combination."—A communication to him from abroad by Charles James Plint, of Montreal, in the Dominion of Canada.

3285. And to Astley Paston Price, of 47, Lincoln's-inn-fields, in the county of Middlesex, for the invention of "improvements in the production of substitutes for horn, jet, ivory, vulcanite, celluloid, and other like materials applicable to the manufacture of various useful and ornamental articles."—A communication to him from abroad by Carl Anton Wolff, of Munich, in the Empire of Germany.

On their several petitions, recorded in the Office of the Commissioners on the 20th day of August, 1878.

3289. To Francis William Webb, of Crewe, in the county of Chester, Mechanical Engineer, for the invention of "improvements in slide valves and valve ports or facings for steam and other motive engines."

3291. To Jacob Wechselmann, of Berlin, 7, Königgrätzerstrasse, German Empire, for the invention of "certain improvements in looms for manufacturing regularly knitted hosiery."

3295. To William Morgan-Brown, of the firm of Brandon and Morgan-Brown, Engineers and Patent Agents, of 38, Southampton-buildings, London, and 1, Rue Laffitte, Paris, for the invention of "improvements in boots and shoes."—A communication to him from abroad by Jesse Williams Hatch, of Rochester, Munroe County, New York, United States of America, and Albert Van Wagener, of Boston, Massachusetts, United States of America.

3297. To John Wilkes, of Birmingham, in the county of Warwick, Manufacturer, and Thomas Johnson, of Birmingham aforesaid, Copper Refiner, for the invention of "improvements in purifying or refining copper."

3299. To John Clayton Mewburn, of 169, Fleet-street, in the city of London, Patent Agent and Consulting Engineer, for the invention of "improvements in motive power engines."—A communication to him from abroad by Edouard de Morsier, of Bologna, Italy.

3301. And to William Francis Humphries, of Limerick, in the county of Limerick, Ireland, for the invention of "improvements in solar cameras."—A communication to him from abroad by James Thom, of Carrollton, Louisiana, in the United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 21st day of August, 1878.

3303. To William Bown, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "certain improvements in attachments and accessories for sewing-machines, parts of which are applicable for other useful purposes."

3305. To Henry Sims, of Wolverhampton, in the county of Stafford, Smelter and Refiner, for the invention of "improved mechanism for planishing and creasing metals applicable also to other purposes."

3307. To William Bull, of No. 4, Lancaster-place, Strand, in the county of Middlesex, Engineer, for the invention of "improvements in mechanical appliances and apparatus for charging or filling glass and other bottles with aerated or other liquids."

3309. To David Davidson, of Glasgow, in the county of Lanark, North Britain, Boiler Maker, for the invention of "improvements in and connected with furnace bars."

3311. To George Seagrave, of Dublin, Ireland, for the invention of "improvements in railway carriage and other lamps."