

notice in respect of the invention of "improvements in machinery for unwinding and cross cutting matches."—A communication to him from abroad by Ebenezer Benton Beecher, of Westville, Connecticut, United States of America.

As set forth in his petition, recorded in the said office on the 1st day of October, 1877.

3667. And James Dowling, of No. 24, Jewin-street, in the city of London, Machinist, and Charles Frederic Trelawny Young, of New Cross, in the county of Kent, Consulting Mechanical Engineer, have given the like notice in respect of the invention of "improvements in apparatus and arrangements for sewing those parts of woven and other materials and substances where button holes or other openings or openings over sewn at the edges are required and formed, or in which button holes or other openings or openings over sewn at the edges are used, applicable also for sewing, embroidering, or ornamenting, where a stitch of the kind is desired."

As set forth in their petition, recorded in the said office on the 2nd day of October, 1877.

3705. And Georges de Sainte Marie, of Paris, Boulevard de Strasbourg, No. 23, Manufacturer, has given the like notice in respect of the invention of "an improved apparatus for applying metallic capsules to bottles, flacons, and similar vessels."

As set forth in his petition, recorded in the said office on the 5th day of October, 1877.

3732. And Gathorne Kellett, Foreman Boiler Maker, Thomas Holdsworth, and John Levick, of the firm of Holdsworth & Sons, Croft-street Boiler Works, Bradford, in the county of York, have given the like notice in respect of the invention of "improvements in the means and apparatus for forming flanches on cylinders, tubes, or hollow cylindrical bodies."

As set forth in their petition, recorded in the said office on the 8th day of October, 1877.

3734. And John Robert Harper, of Clerkenwell, in the county of Middlesex, has given the like notice in respect of the invention of "improvements in evaporating apparatus."

As set forth in his petition, recorded in the said office on the 9th day of October, 1877.

3786. And Alfred Wood, of Folkestone, in the county of Kent, has given the like notice in respect of the invention of "improvements in the method of opening and closing carriage heads."

3789. And Thomas Sheehan, of Great Portland-street, and George Wells, of Westminster, both in the county of Middlesex, have given the like notice in respect of the invention of "improvements in the manufacture of steel."

As set forth in their respective petitions, both recorded in the said office on the 12th day of October, 1877.

3846. And Joseph Parkinson, of Chester-street, Bradford, in the county of York, Temple Manufacturer, has given the like notice in respect of the invention of "improvements in the method of and apparatus for applying self-acting temples to looms."

As set forth in his petition, recorded in the said office on the 17th day of October, 1877.

3916. And Thomas Wrigley, of Paterson, in the State of New Jersey, United States of America, has given the like notice in respect of the inven-

tion of "improvements in spindles for spinning machines, and in means for driving the same."

As set forth in his petition, recorded in the said office on the 23rd day of October, 1877.

3945. And Peter Denniston and John McMillan, both of Glasgow, in the county of Lanark, North Britain, have given the like notice in respect of the invention of "an improved anti-corrosive and antifouling composition."

As set forth in their petition, recorded in the said office on the 25th day of October, 1877.

3988. And Robert Scarlett Fraser, of 45, Portman-square, in the county of Middlesex, has given the like notice in respect of the invention of "improvements in and connected with rope or wire tramways or 'shoots.'"

As set forth in his petition, recorded in the said office on the 27th day of October, 1877.

3990. And George Frederick Lee Meakin, of No. 24, Saint Mary's-road, Peckham, in the county of Surrey, has given the like notice in respect of the invention of "improved frictionless-balanced supply valves."

As set forth in his petition, recorded in the said office on the 29th day of October, 1877.

4032. And John Hyde Pendleton, of Brooklyn, in the State of New York, United States of America, has given the like notice in respect of the invention of "improvements in machinery for hulling coffee, and for separating the hulls and refuse materials."

As set forth in his petition, recorded in the said office on the 30th day of October, 1877.

4056. And David Pitcairn Wright and William Randle, both of Birmingham, in the county of Warwick, have given the like notice in respect of the invention of "improvements in petroleum or hydro-carbon cooking and heating stoves and lanterns."

As set forth in their petition, recorded in the said office on the 1st day of November, 1877.

4089. And Richard Westwell, of Rawtenstall, in the county of Lancaster, Mechanic, Richard Law, of the same place, Loom Overlooker, and James Rothwell, of Newchurch, near Rawtenstall, Felt Manufacturer, have given the like notice in respect of the invention of "improvements in apparatus used in the manufacture of felt."

4094. And Max Neustadt, of the firm of M. Neustadt and Company, of Mincing-lane, in the city of London, Merchants, has given the like notice in respect of the invention of "improvements in the manufacture and production of salicylic acid, and in apparatus employed therein."—A communication to him from abroad by Emanuel Merck, of Darmstadt, in the Empire of Germany, Manufacturing Chemist.

As set forth in their respective petitions, both recorded in the said office on the 3rd day of November, 1877.

4114. And George Beck, of No. 37, Devonshire-street, Queen's-square, and Philip Syng Justice, of No. 27, Southampton-buildings, Chancery-lane, both in the county of Middlesex, have given the like notice in respect of the invention of "improvements in nozzles for the escape of steam or gases under pressure."

As set forth in their petition, recorded in the said office on the 5th day of November, 1877.

4132. And Leedham Binns, of Oakenshaw Low Moor, in the county of York, Manufacturer, has given the like notice in respect of the invention of "improvements in machinery or apparatus to be employed in the manufacture of fancy yarns."