

spect of the invention of "improvements in steam boilers with internal tubular fire-box." As set forth in his petition, recorded in the said office on the 24th day of December, 1875.

4510. And Henri Adrien Bonneville, of the British and Foreign Patent Offices, 18, Rue de la Chaussée d'Antin, Paris, France, and 6, Piccadilly, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "improvements in apparatus for warming railway carriages and others."—A communication from Pierre Grandjean, a person resident at La Chapelle, France, Machinist. As set forth in his petition, recorded in the said office on the 28th day of December, 1875.

4520. And James Cryer, of Dukinfield, in the county of Chester, Machine Maker, and Samuel Morris, of Mossley, in the county of York, Mill Manager, have given the like notice in respect of the invention of "certain improvements in self acting mules for spinning and doubling." As set forth in their petition, recorded in the said office on the 29th day of December, 1875.

1. And William Howard, of Camden Town, in the county of Middlesex, has given the like notice in respect of the invention of "improvements in ink erasers." As set forth in his petition, recorded in the said office on the 1st day of January, 1876.

38. And William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, has given the like notice in respect of the invention of "improvements in eye cups."—A communication to him from abroad by Philetus J. Stephens, of the city and State of New York, United States of America. As set forth in his petition, recorded in the said office on the 4th day of January, 1876.

54. And John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, has given the like notice in respect of the invention of "improvements in presses and in apparatus connected therewith."—A communication to him from abroad by Jean Baptiste Java Mignon and Stanislas Henri Rouart, of Paris, in the Republic of France, Engineers. As set forth in his petition, recorded in the said office on the 5th day of January, 1876.

237. And Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "improvements in mills for grinding grain."—A communication to him from abroad by Léopold Macqué, of Paris, France. As set forth in his petition, recorded in the said office on the 20th day of January, 1876.

330. And William Murdoch, Henry Horatio Ault, and William Knowles, all of the firm of Murdoch and Co., of 202, New Crane, Wapping, in the county of Middlesex, have given the like notice in respect of the invention of "a new or improved composition for preventing incrustation in steam boilers, pipes, tanks, and other hot water apparatus." As set forth in their petition, recorded in the said office on the 27th day of January, 1876.

352. And Alfred Vincent Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Mechanical Draughtsman, has given the like notice in respect of the invention

of "improvements in sewing needles."—A communication to him from abroad by Harry M. Jenkins, of the city and State of New York, United States of America.

As set forth in his petition, recorded in the said office on the 28th day of January, 1876.

536. And Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "improved treadle mechanism for operating sewing and other machines."—A communication to him from abroad by Carl Brandtner, of Reading, in the county of Berks, and State of Pennsylvania, United States of America.

As set forth in his petition, recorded in the said office on the 10th day of February, 1876.

563. And Gustav Magnus, of Berlin, Prussia, has given the like notice in respect of the invention of "a new or improved manufacture of billiard balls and similar objects." As set forth in his petition, recorded in the said office on the 11th day of February, 1876.

612. And William Haggett, of Watford, in the county of Herts, has given the like notice in respect of the invention of "improvements in the manufacture of artificial fuel, and in the treatment of the substances of which such fuel is composed, and in the methods of moulding the same into blocks, and of employing the latter for the purposes of combustion." As set forth in his petition, recorded in the said office on the 15th day of February, 1876.

650. And Charles Wright, of Gresham House, in the city of London, has given the like notice in respect of the invention of "an improved amalgamating and concentrating machine for the treatment of metallic ores and for similar purposes." As set forth in his petition, recorded in the said office on the 16th day of February, 1876.

767. And Thomas Crookes, of Sheffield, in the county of York, has given the like notice in respect of the invention of "improvements in sporting and other pocket knives." As set forth in his petition, recorded in the said office on the 24th day of February, 1876.

893. And William Morgan-Brown, of the firm of Brandon and Morgan-Brown, Engineers and Patent Agents, of 38, Southampton-buildings, London, and 13, Rue Gaillon, Paris, has given the like notice in respect of the invention of "improvements in lamp burners."—A communication to him from abroad by Henry Harrison Doty, of Washington, D.C. United States of America. As set forth in his petition, recorded in the said office on the 2nd day of March, 1876.

936. And James Sample, John Grantham, both of Blyth, and Matthew Waddle, of Newsham, near Blyth, in the county of Northumberland, have given the like notice in respect of the invention of "an improved wooden key for fastening rails in railway-chairs."

948. And George Beckett, of Wath on Dearne, near Rotherham, Yorkshire, Engineer, has given the like notice in respect of the invention of "improvements in the construction of wheels for railway engines and carriages." As set forth in their respective petitions, both recorded in the said office on the 4th day of March, 1876.