

3575. And Robert James Ransome, of Ipswich, in the county of Suffolk, James Deas, of Glasgow, in the county of Lanark, and Richard Christopher Rapier, of No. 5, Westminster-chambers, in the city of Westminster, have given the like notice in respect of the invention of "improvements in tramways."

As set forth in their petition, recorded in the said office on the 10th day of December, 1869.

3591. And William Williams, of No. 4, Mitford-street, Liverpool, in the county of Lancaster, has given the like notice in respect of the invention of "improvements in subaqueous and tunnel communications, such for instance as submarine and other railway tunnels, and in generating tidal and hydraulic pneumatic power to be used for such communications and otherwise."

As set forth in his petition, recorded in the said office on the 11th day of December, 1869.

3591. And James Turner and John Turner, of Rochdale, in the county of Lancaster, have given the like notice in respect of the invention of "improved lubricators for steam engines."

3607. And James Livesey, of 9, Victoria-chambers, Westminster, in the county of Middlesex, Engineer, has given the like notice in respect of the invention of "improvements in street tramways light permanent way, and temporary railroads."

As set forth in their respective petitions, both recorded in the said office on the 13th day of December, 1869.

3615. And William Edward Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Civil Engineer, has given the like notice in respect of the invention of "improvements in harness for looms."—A communication to him from abroad by Alfred Brayman Corey, of Providence, State of Rhode Island, United States of America.

As set forth in his petition, recorded in the said office on the 14th day of December, 1869.

3619. And Nicholas Procter Burgh, of 78, Waterloo-road, in the parish of Lambeth, in the county of Surrey, Engineer, has given the like notice in respect of the invention of "an improved double or single acting pump."

3622. And Edward Johnson, of Manchester, in the county of Lancaster, Contractor and Builder, has given the like notice in respect of the invention of "improvements in the arrangement and construction of granaries, and in machinery or apparatus for drying, renovating, elevating, and distributing grain."—A communication to him from abroad by George Hardesty Johnson, of Buffalo, in the State of New York, United States of America.

3624. And James Hamer, of White Horse-yard, 100, High Holborn, London, Engineer, has given the like notice in respect of the invention of "improvements in steam engines."

3628. And Edward Thomas Hughes, of the firm of Hughes and Son, Patent Agents, 123, Chancery-lane, London, has given the like notice in respect of the invention of "improvements in wood-moulding and panneling machines."—A communication to him from abroad by Alonzo Stockbridge Gear, of the city and county of New Haven, United States of America.

3633. 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 means or apparatus for reducing friction."—A com-

munication to him from abroad by Jean Baptiste Delaye, Armand Desiré, Etienne Paul Legrand, and Léon Pierson, all of Paris, in the Empire of France.

As set forth in their respective petitions, all recorded in the said office on the 15th day of December, 1869.

3664. And William Foulds, of Paisley, in the county of Renfrew, North Britain, has given the like notice in respect of the invention of "improvements in apparatus to promote circulation in steam boilers."—A communication to him from abroad by Robert Sinclair and William B. Mack, residing at Detroit, Michigan, United States.

3675. And George Tomlinson Bousfield, of Loughborough Park, Brixton, in the county of Surrey, has given the like notice in respect of the invention of "improvements in the treatment of aromatic secondary monamines for obtaining coloring matter."—A communication to him from abroad by Adam Charles Girard, Chemist, and Georges Ernest Camille de Laire, Chemist, two persons resident at Paris, in the Empire of France.

As set forth in their respective petitions, both recorded in the said office on the 18th day of December, 1869.

3678. And Godfrey Ermen and Godfrey Anthony Ermen, both of Manchester, in the county of Lancaster, Manufacturers, and William Foster, of Pendlebury, in the same county, Sizer, have given the like notice in respect of the invention of "improvements in the construction of brushes for polishing yarns or threads, and for other purposes."

3679. And Michael Henry, of Fleet-chambers, 68, Fleet-street, in the city of London, Patent Agent, has given the like notice in respect of the invention of "improvements in the mode of and apparatus for typographical composing and printing."—A communication to him from abroad by Louis Henri Fontaine, of 17, Boulevard St. Martin, Paris, France.

3687. And Charles Denton Abel, of No. 20, Southampton-buildings, Chancery-lane, in the county of Middlesex, Patent Agent, has given the like notice in respect of the invention of "improvements in ploughs and cultivators for tilling the soil."—A communication to him from abroad by Joseph Stephen Godfrey, of Leslie, county of Ingham, State of Michigan, United States of America.

3688. And Thomas Shakespear, of Birmingham, in the county of Warwick, Sewing Machine Manufacturer, and George Illston, of Birmingham aforesaid, Machinist, has given the like notice in respect of the invention of "improvements in sewing machines."

As set forth in their respective petitions, all recorded in the said office on the 20th day of December, 1869.

3692. And Henry Melton Marsden, Saw and Steel Manufacturer, Don Saw Works, Hill Foot, Sheffield, in the county of York, has given the like notice in respect of the invention of "improvements in the manufacture of sheep shears and other cutting tools, and in moulds in which the material is cast for the manufacture of the same."

3695. And Henry Green, of Preston, in the county of Lancaster, Engineer, has given the like notice in respect of the invention of "improvements in lubricators."

As set forth in their respective petitions, both recorded in the said office on the 21st day of December, 1869.