

attaching and detaching certain parts of the stocks of breech loading and other sporting guns."

954. To Robert Paterson, of Glasgow, in the county of Lanark, North Britain, Engineer, for the invention of "improvements in collapsable casks or vessels for containing fermentable or aerated beverages."
955. To John Thomas Wibberley, of Blackburn, in the county of Lancaster, Machinist, for the invention of "improvements in machinery or apparatus for winding cotton, silk, wool, or other threads on spools or reels."
956. To William Alexander Lytle, of the Grove, Hammersmith, in the county of Middlesex, Engineer, for the invention of "improvements in the permanent way of railways."
957. To James Robey, of the city of Manchester, in the county of Lancaster, Sugar Refiner, and George Frederick Chantrell, of Liverpool, in the same county, Sanitary Engineer, for the invention of "a new or improved filtering and deodorising medium."
959. To William Armand Gilbee, of the firm of L. de Fontainemoreau and Co., Patent Agents, 4, South-street, Finsbury, in the county of Middlesex, for the invention of "an improved stopper for bottles and other vessels."—A communication to him from abroad by Jean Léopold Mégret, of Bordeaux, in the Republic of France."
960. To Thomas Aldridge Weston, of Birmingham, in the county of Warwick, and of Ridgewood, New Jersey, in the United States of America, for the invention of "improvements in apparatus for transmitting, regulating, and arresting motion in machinery."
961. To William Ramsden and John Ramsden, both of Bradford, in the county of York, Spinners and Manufacturers for the invention of "improvements in machinery for twisting and doubling yarn or threads."
962. To John Dunn, junior, of Cockerton, in the county of Durham, Ironmonger, for the invention of "improved apparatus to be used in connection with stoves for the purpose of economising fuel."
963. To Henry Gardner, of 18, Clifton-road, Holloway, in the county of Middlesex, Civil Engineer, for the invention of "improvements in apparatus and means for utilizing spirituous substances and oils for the purposes of producing artificial light and heat."
964. To John Wright, of Leeds, in the county of York, for the invention of "improvements in the means or apparatus employed in the consumption of smoke and for economizing fuel."
968. To John Adams, of Powerscroft-road, Naval Engineer, and Benjamin Jenkins, of Glenarm-road, Gentleman, both in Lower Clapton, in the county of Middlesex, for the invention of "improvements in engines operated by heated air and steam combined."
969. To William Henry Shepherd, of Bradford, in the county of York, Spinner and Manufacturer, and James Scott, of Bradford aforesaid, Overlooker, for the invention of "improvements in machinery for combing wool and other fibres."
970. To Clement Robey, of Sunnybank, in the parish of Wolstanton, in the county of Stafford, General Agent, Edward Banks, and Thomas Forester, both of Hanley, in the parish of Stoke-upon-Trent, in the said county of Stafford, Potters, for the invention of "improvements in

the construction of kilns or ovens for firing bricks, earthenware, china, pottery, and such like substances."—The result partly of a communication from abroad made to them by De Bettignies Brothers, St. Amand, in the Republic of France, and partly of invention and discovery made by themselves.

971. And to Sydney Hall, of the Wear Fuel Company, South Docks, Sunderland, for the invention of "improvements in machinery for moulding and compressing blocks of fuel, peat, clay, and other like substances."

On both their petitions, recorded in the office of the Commissioners, on the 15th day of March, 1873.

972. To John Burton, of Conduit-street, in the city of Westminster, Pianoforte Tuner, for the invention of "an improvement in or connected with pianofortes."
973. To John Garrett Tongue, of the firm of Tongue and Birkbeck, Patent Agents and Engineers, of 34, Southampton-buildings, Chancery-lane, in the county of Middlesex, for the invention of "improvements in stopping motions or apparatus applicable to knitting and other machinery."—A communication to him from abroad by George Freeman Lufbery, Manager of the Langleé Works, near Montargis, Loiret, France.
974. To William Renny Watson (of the firm of Mirrlees, Tait, and Watson), of Glasgow, in the county of Lanark, North Britain, Engineer, and Robert Andrew Robertson, Manager to the said firm, for the invention of "improvements in filtering liquids, and in the machinery or apparatus employed therefor, being more especially adapted for filtering saccharine solutions."
975. To William Elliott Debenham, of Haverstock Hill, in the county of Middlesex, for the invention of "certain improvements in apparatus to be employed for raising or lowering submerged vessels or other bodies."
976. To John Barling, of Belle Grange on Windermere, in the county of Lancaster, for the invention of "improvements in fire grates and stoves."
977. To William Storey Croudace, of Dundee, in the county of Forfar, North Britain, for the invention of "improvements in dumb compasses and in apparatus connected therewith, such apparatus being applicable to other purposes."
978. To Sam Haley, of the firm of Thomas Haley and Company, of Bramley, near Leeds, in the county of York, for the invention of "improvements in the construction of stoves and fire grates for economizing fuel."
979. To Joseph Ruston, of the Sheaf Ironworks, in the city of Lincoln, for the invention of "improvements in steam boiler furnaces, mainly applicable for agricultural and portable engines."
981. To Gavin Rowe, of Glasgow, in the county of Lanark, North Britain, Manager to the Glasgow and Paisley Weaving Company, for the invention of "improvements in weaving ornamental fabrics."
982. To Robert Cooke Sayer, of Newport, in the county of Monmouthshire, for the invention of "improvements in apparatus for coupling and uncoupling railway trucks and carriages."
983. To Hugh Reginald Haweis, of 16, Welbeck-street, Cavendish-square, in the county of Middlesex, a Clerk in Holy Orders, for the invention of "improved ecclesiastical decorations for screens and other parts of cathedrals and churches, applicable also to public and private buildings."