

4001. To Thomas Goode Messenger, of Loughborough, in the county of Leicester, Civil Engineer, for the invention of "improvements in pipe joints, and in the couplings thereof."
4002. To William Southwood, of Penryn, in the county of Cornwall, Civil Engineer, and Frederick Charles Mathews, of Penzance, in the same county, Ship Builder, for the invention of "improvements in the mode of propelling ships."
4003. To Robert Heywood, of Manchester, in the county of Lancaster, Merchant, for the invention of "improvements in horse-collars."—A communication to him from abroad by John Heywood, of Michigan, in the United States of America.
4004. To Elliot Hinchliffe, Black Dog Mills, of Leeds, in the county of York, for the invention of "improvements in machinery for flocking woollen or other woven or felted fabrics."
4005. To William Bird Redish, of Liverpool, in the county of Lancaster, Timber Merchant, for the invention of "improvements in and connected with fire grates."
4006. To Isaac Careless, of Walsall, in the county of Stafford, Collar Maker, for the invention of "improvements in horse collars."
4007. To James Henry Staples Wildsmith, of Birmingham, in the county of Warwick, Manufacturing Chemist, for the invention of "improvements in the manufacture of artificial manure, and in utilizing residual products of the said manufacture, part of which improvements are also applicable to the manufacture of artificial bone."
4008. To Daniel McDowell, of the city of Waterford, Ireland, Engineer, for the invention of "an improved churn."
4010. To James Firth West, of Lynmouth Lodge, Reigate, Surrey, Hop Factor, for the invention of "improvements in trellis suitable for training vines or other trees of similar growth in vineries orchard houses, conservatories, and elsewhere."
4012. To Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "a new or improved material to be used as a substitute for window-glass."—A communication to him from abroad by Edmond Antoine Gaston d'Argy, of Paris, France.
4014. And to Maximilian Baerlein, of Manchester, in the county of Lancaster, Merchant, for the invention of "improvements in the process of sizing, stiffening, and otherwise preparing yarn for weaving, and in apparatus for dyeing, sizing, stiffening, and otherwise preparing yarn."
- On their several petitions, recorded in the Office of the Commissioners on the 5th day of December, 1873.
4016. To Thomas Read, of No. 167, Old-street, in the parish of Saint Luke's, in the city of London, Hot Water Engineer, for the invention of "improvements in boilers."
4017. To William Mather, of the city of Manchester, in the county of Lancaster, Pharmaceutical Chemist and Druggists' Sundriesman, for the invention of "improvements in apparatus used for the purpose of percolation or filtration of fluids or infusions, and the precipitation of bodies held in suspension in fluids."—A communication to him from abroad by Manuel Leopold Jonas Lavater, of Number 8, Cité Rougemont, in the city of Paris, in the Republic of France, Civil Engineer.
4018. To Julius Sheldon, of New York, at present residing at Edgley, near Stockport, in the county of Chester, for the invention of "improvements in the construction of machinery or apparatus for stretching the 'tips' of felt hats."
4019. To Edward Crozier Sibbald Moore, Lieut. Royal Engineers, of Portland, in the county of Dorset, England, for the invention of "an improved system of supplying fuel for combustion, the coal or other combustible material being supplied underneath the burning coal or other material whereby economy is effected in its combustion."
4020. To Francis Page, of Thurles, in the county of Tipperary, Ireland, for the invention of "improvements in apparatus to be employed in the moulding of artificial fuel when in a wet or pasty condition."
4021. To William Crees Taylor, of Liverpool, in the county of Lancaster, Engineer, for the invention of "improvements in safety valves."
4022. To George Hall, of Tranmere, in the county of Chester, Joiner, for the invention of "improvements in securing knobs to spindles in door furniture."
4023. To Daniel Jones, of Petistree, near Wickham Market, Suffolk, for the invention of "improvements in obtaining and applying motive power."
4024. To Thomas Lockwood, Power Loom Tuner, and Allen Chappell, Working Engineer, both of Linthwaite, in the county of York, for the invention of "improvements in looms for weaving."
4025. To Alfred Walker, of Accrington, in the county of Lancaster, Coach Builder, for the invention of "improvements in Hansom cabs."
4026. To Frank Wirth, of the firm of Wirth and Company, Patent Agency, at Frankfort on the Maine, Germany, for the invention of "certain improvements in ropes and carriages employed upon tramways, and in the apparatus connected therewith."—A communication from George Sigl, a person resident at Vienna, Austria.
4027. To John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, for the invention of "improvements in the treatment of wool, silk, and other animal textile materials, whether in a raw or manufactured state."—A communication to him from abroad by Jean Baptiste Frezon the elder, of Paris, in the Republic of France.
4028. To Alfred Welch, of Southall, in the county of Middlesex, for the invention of "improvements in apparatus for feeding and watering cattle during railway journeys."
4029. To Robert Okell, of Ardwick, in the city of Manchester, Saddler, for the invention of "certain improvements in harness for horses."
4030. And to Joseph Thomas Parlour, of Brooklyn, New York, United States of America, now of No. 8, Southampton-buildings, London, Shipwright, for the invention of "improved armour for ships' floating batteries, forts, and other structures."
- On their several petitions, recorded in the Office of the Commissioners on the 6th day of December, 1873.
4033. To Marcelin René Bouju, Merchant, of No. 82, Boulevard Sébastopol, Paris, France, for the invention of "improvements in the manufacture of oil, and in the apparatus connected therewith."