

facture and purification of gas, and in the apparatus employed therein and connected therewith."

3301. To Friedrich Hermann Wilke, of Chemnitz, in the Kingdom of Saxony, Manufacturer, for the invention of "improvements on power looms."
3302. To August Louis Kiesling, of 23, Fenchurch-street, in the city of London, for the invention of "improvements in apparatus for warming railway and other carriages, and in the manufacture of the fuel to be used therein."
3304. To Joseph Ruston, of the Sheaf Iron Works, in the city of Lincoln, for the invention of "improvements in portable and other steam engines."
3305. To George Leonard Turney, of Addlestreet, in the city of London, Manufacturer, for the invention of "improvements in boxes, and in machinery for manufacturing the same."
3307. To Joseph Edlyn Outridge, of Catford Bridge, in the county of Kent, Engineer, for the invention of "improvements in valves for steam and other engines."
3308. To Martin Rae, of Uphall, in the county of Linlithgow, North Britain, for the invention of "improvements in the production of artificial fuel, and in the machinery employed therein."
3309. And to Henry Deacon, of Widnes, in the county of Lancaster, Alkali Manufacturer, for the invention of "improvements in the manufacture of bleaching liquor."
- On their several petitions, recorded in the Office of the Commissioners on the 7th day of November, 1872.
3310. To James Stead Crosland, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "improvements in stationary and marine steam boilers or generators."
3311. To John Dunkin Lee, of Northwood-park, and John White, of Medina and Thetis Docks, West Cowes, both in the Isle of Wight, for the invention of "improvements in the construction of ships and vessels."
3314. To Henry Brooks, of No. 31, Cumberland-market, Regents Park, and No. 138, Hampstead-road, both in the county of Middlesex, for the invention of "an improvement in music stools or chairs, which improvement is also applicable to other seats and articles of furniture, the height of which is required to be variable."—A communication to him from abroad by Gustave Henry Ulmann, of Rue de la Cluche, Calais, in the Republic of France.
3315. To John Tebbutt, of Leicester, in the county of Leicester, Manufacturer, for the invention of "improvements in the manufacture of elastic fabric."
3316. To Andrew Ferrier Shanks, of Barrhead, in the county of Renfrew, North Britain, Plumber and Tinsmith, for the invention of "improvements in making cases or boxes of thin sheet metal, and in apparatus therefor."
3317. To 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, for the invention of "improvements in furnaces for burning lime, plaster, cements, ceramic productions, and for similar purposes."—A communication from Charles Avril, a person resident at Montchanin, France, Manufacturer.
3318. To Benjamin Joseph Barnard Mills, of the firm of Harris and Mills, of 35, Southampton-buildings, in the county of Middlesex, Patent Agent, for the invention of "an improved

process for cleansing cotton waste and fibrous substances saturated with oils and mixed with debris and other matters."—A communication to him from abroad by John Henry Post, of the city, county, and State of New York, in the United States of America.

3319. To Robert Smith, of Sheffield, in the county of York, for the invention of "improvements in steam generators."
3320. To James Allison, of Edinburgh, in the county of Mid Lothian, North Britain, Foreman Upholsterer, for the invention of "improvements in planing wood or other material, and in the machinery or apparatus employed therefor."
3321. To William Charles Stiff, of Birmingham, in the county of Warwick, Merchant and Manufacturer, for the invention of "improvements in the manufacture of metallic cop tubes or caps used in spinning."
3322. To William Marriott, of Huddersfield, in the county of York, Manufacturing Chemist, for the invention of "improvements in the manufacture of salts and oxides of lead, and in apparatus therefor."
3323. And to Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "improvements in the manufacture of stearic acid."—A communication to him from abroad by Edouard Deiss, of Marseilles, France.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of November, 1872.

3325. To Thomas Bowlas, of Reddish, in the county of Lancaster, Cotton-Spinner, for the invention of "improvements in the arrangements for damping in machinery employed in the spinning or doubling of cotton or other yarn."
3326. To Charles Duggin, of the city, county, and State of New York, in the United States of America, but at present of 35, Southampton-buildings, in the county of Middlesex, for the invention of "improvements in devices for fastening or securing window sashes."—A communication to him from abroad by James M. Crossman, of South Orange, in the State of New Jersey, and George Sam Rice, of Tarrytown, in the State of New York, both in the United States of America.
3327. To Alfred Harris, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "improvements in breech loading small arms."
3328. To Charles Lund, of Fleet-street, in the city of London, Manufacturer, for the invention of "an improved cutting instrument for opening metal boxes or cases."
3331. To Alexander Prince, of the Office for Patents, 4, Trafalgar-square, Charing-cross, in the county of Middlesex, for the invention of "improved apparatus for feeding steam boilers and raising water."—A communication to him from abroad by Frederic August Fischer, of Harzburg.
3332. To Alexander Prince, of the Office for Patents, No. 4, Trafalgar-square, Charing-cross, in the county of Middlesex, for the invention of "improvements in apparatus for raising water."—A communication to him from abroad by Monsieur Edouard Schlamp, resident at Nierstein, on the Rhine.
3333. To John Grautham, of King's Arms-yard, in the city of London, Civil Engineer, for the invention of "improvements in tramway carriages."