468. To James King, James Maxwell King, and Thomas Dundas Maxwell King, all of 5, Moscow-terrace, Victoria Park, in the county of Middlesex, for the invention of "an improved coupling for repairing propeller shafts at sea."

469. To George Frederick Parratt, of No. 19, Wilton-street, Grosvenor-place, in the county of Middlesex, for the invention of "improve-

ments in life rafts."

470. To John Wilson Hadwen, of Bradford, in the county of York, Yarn Merchant, and Arthur Randolph, of Bradford aforesaid, Yarn Merchant, for the invention of "improvements in or applicable to machinery or apparatus for spinning wool, cotton, silk, flax, or other fibrous substances.'

471. To Thomas Constantine Fawcett, of Leeds, in the county of York, Engineer and Machine Maker, for the invention of "improvements in

brick making machines."

472. To Henry Tasker, of the firm of Tasker and Sons, of Waterloo Iron Works, near Andover, in the county of Hants, for the invention of "improvements in machinery for elevating corn, hay, straw, and other agricultural produce.

473. And to William Robert Lake, of the firm of Haseltine, Lake, & Co., Patant Agents, Southampton-buildings, London, for the invention of "improvements in apparatus for producing an equal distribution of heat in the tubes of locomotive and other similar steam boilers."-A communication to him from abroad by Deborah Shedd, of the city and State of New York, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 8th day of February,

1873.

475. To Charles Henry Bayley, of Bolton, in the county of Lancaster, Cotton Spinner, and John Cheetham, of the same place, Manager, for the invention of "improvements in or applicable to machines for combing cotton and other fibrous substances."

479. To Casimir Sipriot, of Milan, in the Kingdom of Italy, Merchant, for the invention of "an improved apparatus for exhibiting placards, posting-bills, and other advertisements.

- 481. To John Pinker, of Liverpool, in the county of Lancaster, for the invention of "improvements in lowering and raising ships boats and in the apparatus employed therefor.
- 482. To John Henry Kenyon, of Blackburn, in the county of Lancaster, William Taylor, of Oldham, in the same county, and James Ken-yon, of Blackburn aforesaid, Cotton Spinners, for the invention of "improvements in apparatus for economising steam for drying yarns and
- 483. To Joseph Milburn, of Marlborough, in the county of Wilts, Ironmonger, for the invention of "improvements in chimney cowls."
- 484. To Vital Daelen, of the New Steel Works, Bochum, Province of Westphalia, Empire of Germany, for the invention of "improvements in the manufacture of wheel tyres and other similar hoops or rings."
- 485. To George Taylor Yull, of Neutra, Dominion of Hungary and Empire of Austria, also of 166, Fleet-street, in the city of London, Civil Engineer, for the invention of "improvements in apparatus or appliances for clearing and removing snow, slush, and other debris from tramway tracks and grooves and from roadways in general, also in appliances for facilitating the sanding of such tracks and roadways."

No. 23951.

488. To Walter Knaggs, of 5, Euston-grove. Euston-square, in the county of Middlesex, for the invention of "improvements in fire places."

489. To John Hammon Reynolds, Commercial Traveller, and John Reynolds, Surgeon, both of Somerleyton-road, Brixton, in the county of Surrey, for the invention of "improved guiding apparatus for keeping railway engines and car-

riages upon their rails."

490. And to Alexander Melville Clark, of 53, Chancery - lane, in the county of Middlesex, Patent Agent, for the invention of "improvements in railway signalling apparatus."—A communication to him from abroad by Paul Tesse, Henry Lartigue, and Pierre Désiré Prud'homme, all of Paris, France.

On their several petitions, recorded in the Office of the Commissioners on the 10th day of February,

1873.

492. To Hebert George Cardozo, of 2, Bathplace, Junction-road, Holloway, in the county of Middlesex, for the invention of "an improvement in the construction or manufacture of horses shoes to enable and ensure a horse's safe and quick travelling in either frosty or slippery weather."

494. To James Briggs, Cotton Manufacturer, and Robert Willan, and Doctor Lewis, Machinists, all of Blackburn, in the county of Lancaster, for the invention of "improvements in sizing or

dressing machines."

496. To James Stone, of Kirby-street, Hattongarden, in the county of Middlesex, for the invention of "improvements in the construction and arrangement of flues for furnaces."

498. To William Gascoyne, of Leamington, in the county of Warwick, Builder, for the invention of "improvements in the manufacture of D-traps for water closets and other like pur-

500. To John Cowen, of Dromore, Kenmare, in the county of Kerry, Ireland, for the invention of "improvements in apparatus for heating green-houses and horticultural and other buildings."

- 504. To John Norris, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "improvements in the manufacture and construction of mathematical drawing instruments."
- 506. To Samuel Bash, of Paisley, in the county of Renfrew, North Britain, for the invention of "improvements in bobbins."
- 508. And to William Turton Siddons, of Hill Top, West Bromwich, in the county of Stafford, Charcoal Manufacturer, for the invention of "an improved apparatus for preventing the overwinding of skips in the shafts of mines."
- On their several petitions, recorded in the Office of the Commissioners on the 11th day of February, 1873.
- 510. To Frederic Louis Lawrence, of Tavistocksquare, in the county of Middlesex, for the invention of "a new or improved apparatus to be used in boilers for washing or cleansing clothes, and similar purposes."-A communication to him from abroad by Charles Lawrence of New York, in the United States of America
- 14. To William Newell, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "improvements in ornamenting certain articles, or parts of articles, made of tin plate, and in apparatus to be used for that purpose."