

4476. To Henry Tudor Owens, of Birmingham, in the county of Warwick, Miners' Safety Lamp Manufacturer, for the invention of "a new or improved mode or manner of securely locking miners' safety lamps."
4478. And to John Garrett Tongue, of the firm of Tongue and Birbeck, Patent Agents and Engineers, of 34, Southampton-buildings, Chancery-lane, in the county of Middlesex, for the invention of "improvements in machinery for decorticating, separating, and obtaining fibrous materials from various plants and trees."—A communication to him from abroad by Felix Roland, of Paris, in the Republic of France.
- On their several petitions, recorded in the Office of the Commissioners on the 23rd day of December, 1875.
4480. To James Dunbar, of Brixton, in the county of Surrey, Engineer, and Joseph Ruston, of the town and county of Lincoln, Engineer, for the invention of "improvements in excavating machines."
4482. To Martin Benson, of No. 9, Southampton-buildings, London, for the invention of "improvements in telegraphic apparatus."—A communication to him from abroad by Joseph Olmsted, of the city and county of Providence, in the State of Rhode Island, United States of America.
4483. To William Morgan-Brown, of the firm of Brandon and Morgan-Brown, Engineers and Patent Agents, of 38, Southampton-buildings, London, and 13, Rue Gailon, Paris, for the invention of "improvements in gear tackle for lifting, lowering, or moving heavy weights."—A communication to him from abroad by George Stacy, Engineer, of Nanuet, New York, United States of America.
4486. To Seraphicus Francis Pichler, of Great Portland-street, in the county of Middlesex, and Edward Vincent Gardner, of Berner's College, Berners-street, in the said county, Professor of Chemistry, for the invention of "improvements in apparatus for raising and lowering weights."
4488. To Rufus Yates and George Brierley, both of Preston, in the county of Lancaster, for the invention of "improvements in looms for weaving."
4490. To Peter Jensen, of Chancery-lane, London, for the invention of "improvements in the construction of fluid meters."—A communication to him from abroad by Gustav Lang, of Stuttgart, in the kingdom of Würtemberg.
4492. To Joseph Bickerton, of Richmond Hill Iron Works, Oldham, in the county of Lancaster, and John Wormald, of Eton street, Regent's Park, in the county of Middlesex, Engineers, for the invention of "improved means and apparatus for dissolving snow in public thoroughfares and other places."
4496. To John Tough, of Sussex-place, 93, Leadenhall-street, in the city of London, Civil and Mechanical Engineer, for the invention of "improvements in the manufacture of wheels for railway and tramway rolling stock, and in apparatus for the purpose."
4498. To Juan Nepomuceno Adorno, of Harley-street, Cavendish-square, in the county of Middlesex, Gentleman, for the invention of "improvements in watches and clocks."
4500. To Arnold Souhéur, of Seraing, Belgium, Engineer, for the invention of "improvements in lamps."
4502. To John Wilson Croker Perrier, late of the Admiralty, but now of Hemmings-row, in the city of Westminster, Gentleman, for the invention of "improvements in the manufacture of

kelp, and in the apparatus employed therein."—A communication to him from abroad by Joseph Pellieux and Albert Mazè Launay, both of Kerhuon, Finistère, in the Republic of France.

4504. And to Edward Sumner Morris, of Penclawdd, in the county of Glamorgan, Tin-Plate Manufacturer, and Ebenezer Edgar Morgan, of Britonferry, in the said county, Gentleman, and David Richards, of Britonferry aforesaid, Rollerman, for the invention of "improvements in annealing or tempering sheet iron plates, and apparatus for that purpose; and for pickling the said plates."

On their several petitions, recorded in the Office of the Commissioners on the 24th day of December, 1875.

4506. To James Keith, of Arbroath, in the county of Forfar, North Briton, Gas and Water Engineer, for the invention of "a new or improved boiler and furnace combined for heating and circulating water or other liquids, raising steam, and for other similar purposes."

4508. And to Benjamin Ward Tucker, of 69, Claverton-street, Pimlico, in the county of Middlesex, for the invention of "improvements in form, shape, and construction of dredging buckets and links for working same."

On both their petitions, recorded in the Office of the Commissioners, on the 27th day of December, 1875.

4510. 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 apparatus for warming railway carriages and others."—A communication from Pierre Grandjean, a person resident at La Chapelle, France, Machinist.

4512. To John Cole and James Cole, of the firm of Cole, Marchent, & Co., Prospect Foundry, Bradford, in the county of York, Engineers, for the invention of "improvements in steam engines."

4514. To William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for the invention of "an improved press suitable for copying, and for other like purposes."—A communication to him from abroad by George Northwood Oakley, and Reuben Quarrill, both of Melbourne, Colony of Victoria, Journalists.

4515. To Henry Wilde, of Manchester, in the county of Lancaster, Engineer, for the invention of "improvements in the manufacture of metal rollers for printing calico and other textile fabrics, part of which is applicable to the refining of copper."

4516. And to George Roby, of Ince in Makerfield, in the county of Lancaster, Dealer in Safes, for the invention of "improvements in safes or vessels for containing gunpowder, and for preserving and cooling other substances."

On their several petitions, recorded in the Office of the Commissioners on the 28th day of December, 1875.

4518. To William Knell, of Park House, Farnborough, in the county of Hants, for the invention of "improvements in screw-drivers."

4520. To James Cryer, of Dukinfield, in the county of Chester, Machine Maker, and Samuel Morris, of Mossley, in the county of York, Mill Manager, for the invention of "certain improvements in self acting mules for spinning and doubling."