

more perfect combustion is attained," was deposited and recorded in the Office of the Commissioners on the 16th day of October, 1875, and a complete specification accompanying such petition was at the same time filed in the said office.

Patent Law Amendment Act, 1852.

Office of the Commissioners of Patents for
Inventions.

NOTICE is hereby given, that the petition of Alexander Melville Clark, of 53, Chancery-lane, in the county of Middlesex, Patent Agent, praying for letters patent for the invention of "improvements in water meters,"—a communication to him from abroad by De Witt Clinton Taylor and Robert Jackson Kimball, Bankers, both of the city of Brooklyn, in the county of Kings, and State of New York, United States of America,—was deposited and recorded in the Office of the Commissioners on the 19th day of October, 1875, and a complete specification accompanying such petition was at the same time filed in the said office.

Patent Law Amendment Act, 1852.

Office of the Commissioners of Patents for
Inventions.

NOTICE is hereby given, that provisional protection has been allowed—

3003. To Herbert Tatham, of the firm of Amos Tatham and Son, of Belper-street Works, Ilkeston, in the county of Derby, for the invention of "improvements in the manufacture of needles known as latch-needles."

On his petition, recorded in the Office of the Commissioners on the 26th day of August, 1875:

3141. To James Copley, of the town of Nottingham, Analytical Chemist, and William Jennings, of the same place, Lace Dresser, for the invention of "improvements in machinery to be used for dyeing, scouring, bleaching, and manufacturing animal and vegetable tissues and fibres, and for obtaining products from such tissues and fibres."

On their petition, recorded in the Office of the Commissioners on the 7th day of September, 1875.

3153. To Donald Dow and James Telfer, both of Glasgow, in the county of Lanark, North Britain, for the invention of "improvements in obtaining oxide of manganese from the chloride, which improvements are applicable for manufacturing nitrates of the alkalies, and for obtaining free chlorine from chlorides."

On their petition, recorded in the Office of the Commissioners on the 8th day of September, 1875.

3204. To James Cuthbert Scott, of Manchester, in the county of Lancaster, Engineer, for the invention of "improvements applicable to machines for moulding, cutting, and setting out toothed wheels."

On his petition, recorded in the Office of the Commissioners on the 13th day of September, 1875.

3263. To Louis Fremion and Alfred Lazon, Mechanics, both of 10, Cité Beauharnais, Paris, France, for the invention of "improvements in fire escapes applicable for other purposes."

3264. And to Andrew Nicol Porteous, Engineer, and George Cadell Bruce, Civil Engineer, both of Edinburgh, Scotland, for the invention of "improvements in the mode of propelling tramway cars and other vehicles."

On both their petitions, recorded in the Office

of the Commissioners on the 18th day of September, 1875.

3296. To John Gill, Henry Wainwright, and William Gill, all of Wakefield, in the county of York, Machine Makers, and Ironfounders, for the invention of "improvements in lubricating the spindles of machinery employed in spinning, twisting, slubbing, and roving wool, cotton, silk, flax, and other fibres."

3298. To William Clark, of Dunfermline, in the county of Fife, North Britain, Engineer, for the invention of "improvements in boilers for locomotive engines, and in similar tubular boilers."

3300. To Herbert Harpin, of Brockholes, near Huddersfield, in the county of York, for the invention of "improvements in bricks, and in the machinery or apparatus for making the same."

3302. To Thomas Temple, of the borough and county of Newcastle-upon-Tyne, Timber Merchant and Brick Manufacturer, for the invention of "a new or improved method of working railway safety appliances without the expenditure of time and labour in coupling or connecting the parts together from carriage to carriage, being self coupling and disconnecting."

3303. To Asahel Pilkington Bell, of Manchester, in the county of Lancaster, Architect, and Thomas Thorp, of Whitefield, near Manchester aforesaid, Architect, for the invention of "a new and improved apparatus for lighting gas automatically."

3304. To Henry Fisher, of the town and county of Newcastle-on-Tyne, Ironfounder, for the invention of "improvements in foundry drying stoves for drying moulds and other articles."

3306. To William Kempe, of Holbeck Mills, Leeds, in the county of York, for the invention of "improvements in raising the nap upon cloths and fabrics, and in apparatus employed therein."

3308. And to John Tench, of Brentford, in the county of Middlesex, for the invention of "an improved tuning-key for pianofortes and harps."

On their several petitions, recorded in the Office of the Commissioners on the 21st day of September, 1875.

3310. To John Woolcott, of Montacute, Ilminster, in the county of Somerset, for the invention of "improvements in apparatus for gathering apples and other fruit from the ground."

3312. To John Atkinson, of Shipley, in the county of York, Foreman Joiner, for the invention of "improvements in mortising by power."

3313. To John Sherwood Gaine, Francis Dixon, and William Rockliffe, all of Sunderland, in the county of Durham, and trading under the style or firm of the Isonandra Gutta Marine Cement Composition Company, for the invention of "a new or improved composition for coating the bottoms of ships, also applicable for coating structures of metal, stone, or wood, especially where it is desirable to protect such structures from the action of water, the ravages of worms, the growth of plants and mollusca."

3314. To James Burrows and Henry Flint, both of Wigan, in the county of Lancaster, Engineers, for the invention of "improvements in apparatus for tipping coal and other minerals."

3316. And to Walter Eccleston Bartrum, of Glen Mona, Streatham, in the county of Surrey, for the invention of "improvements in rotary engines, pumps, or meters."—The result partly of a communication made to him from abroad by Henry Coke Powell, residing at Limogne,