

1955. To Thomas Vicars the elder and Thomas Vicars the younger, both of Liverpool, in the county of Lancaster, Engineers, and James Smith, of the same place, Baker, for the invention of "improvements in self feeding smokeless furnaces."

1957. To Arthur Anthony Champion, of the firm of Charles Gärtner, Chronometer and Watch Manufacturer, of Clerkenwell, in the county of Middlesex, for the invention of "improvements in chronographs or apparatus combined with chronometers and other time keepers for measuring and indicating short intervals of time."

1958. To Henry Clarke, of 53, Chancery-lane, in the county of Middlesex, and of Grange-hill, Jamaica, Clerk, for the invention of "improvements in apparatus for propelling vessels."

1959. To Francis Brady, of 6, St. John's-terrace, Regent's-park, in the county of Middlesex; for the invention of "improvements in apparatus for working railway switches and signals."

1960. To John Bolton, Rector of Swyre, in the county of Dorset, for the invention of "improvements in stands or holders for croquet balls and implements."

1961. To William Day, of Westwood-park, Forest-hill, in the county of Surrey, Gentleman, for the invention of "improvements in the mode of applying metal sheathing to iron ships, caissons, and floating docks, and other iron constructions subject to corrosion."

1962. To William Edward Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Civil Engineer, for the invention of "improvements in breech-loading firearms."—A communication to him from abroad by Edwin Forbes Gunn, of Charleston, in the State of South Carolina, United States of America.

1963. To Alfred Vincent Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Mechanical Draughtsman, for the invention of "an improved combined ships' propeller and steerer."—A communication to him from abroad by Frank G. Fowler, of Springfield, State of Illinois, United States of America.

1964. To Ignac Pick, of Falcon-square, in the city of London, Manufacturer, for the invention of "improvements in scarfs and other like articles of wearing apparel."

1966. And to Hamilton Ruddick, of Chelsea, in the county of Suffolk, and State of Massachusetts, one of the United States of America, for the invention of "improvements in steam engines."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of July, 1867.

1968. To Edward Owen Greening and Joseph Aikinson, of the city of Manchester, Manufacturers, for the invention of "improvements applicable to washing, wringing, and mangling machines."

1970. To Charles Denton Abel, of No. 20, Southampton-buildings, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "an improved elastic strap for garments."—A communication to him from abroad by Phineas Taylor Barnum, of the city and State of New York, United States of America.

1971. To James MacNaughton, of the city and county of Edinburgh, North Britain, Gun Maker, for the invention of "improvements in breech loading fire arms, and in cartridges and

projectiles, a part of which improvements is also applicable for converting muzzle loading fire arms into breech loading fire arms."

1973. And to William Robert Lake, of the "International Patent Office," No. 8, Southampton-buildings, Chancery-lane, in the county of Middlesex, Consulting Engineer, for the invention of "improvements in machinery for manufacturing metal tubes."—A communication to him from abroad by Charles Granville Smith, of Chelsea, Massachusetts, United States of America.

On their several petitions, recorded in the Office of the Commissioners on the 5th day of July, 1867.

1974. To Walter Charles Church, of the city of Manchester, in the county of Lancaster, Engineer, for the invention of "improvements in or applicable to steam and other motive engines."

1975. To Frederick Andrew and Leonard Clarkson, of Harpurhey, near Manchester, in the county of Lancaster, for the invention of "improvements in machinery used for printing woven fabrics, warps, yarns, and paper."

1977. To Robert Tiernan, of Liverpool, in the county of Lancaster, for the invention of "an improved tobacco pipe."

1978. To Thomas Cales Thomas, of Banbury, in the county of Oxford, Cutler and Gas and Water Fitter, for the invention of "improvements in water closet fittings."

1979. To William Edward Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Civil Engineer, for the invention of "a novel system of constructing railways and working trains thereon, in order to enable trains to ascend inclines of steep gradient."—A communication to him from abroad by Albert Zélislas Lutowski, of Boulevard Beurmarchais, Paris, in the Empire of France.

1980. To Thomas Morgan, of Stockton-on-Tees, in the county of Durham, for the invention of "improvements in the construction of apparatus and furnaces for puddling iron."

1981. To Henry Brook Woodcock, of Low Moor, in the county of York, Forge Manager, for the invention of "an improvement in the manufacture of tyres for railway wheels."

1983. To William Harris, of the Clydach Iron Works, in the county of Brecon, Mining Engineer, for the invention of "a process of uniting or cementing and compressing sawdust, shavings, and other small particles of wood, for the purpose of converting the same into charcoal, and utilizing the naphtha, tar, and other residuary products of such conversion."

1984. To William Archer, of Birmingham, in the county of Warwick, Coach Builder, for the invention of "improvements in rotary engines and rotary pumps."

1985. To Charles Toft, of Handsworth, in the county of Stafford, Modeller, for the invention of "improvements in liquor frames and other frames for holding bottles and vessels."

1987. And to Nathan Thompson, of 15, Abbey-gardens, St. John's-wood, in the county of Middlesex, for the invention of "improvements in unions or apparatus for connecting together pipes or tubes, and for stopping the ends thereof."

On their several petitions, recorded in the Office of the Commissioners on the 6th day of July, 1867.

1989. To John Whitford, of Liverpool, in the county of Lancaster, Ice Merchant, for the invention of "an improved ice making apparatus."