

## Patent Law Amendment Act, 1852.

Office of the Commissioners of Patents for  
1838. Inventions.

**N**OTICE is hereby given, that the petition of William Phillips Thompson, of the British and Foreign Patent and Trade Mark Office, 6, Lord-street, Liverpool, in the county of Lancaster, Consulting Engineer, praying for letters patent for the invention of "improvements in gun and rifle cleaning tools, appliances, and compositions, and in cases for carrying the same,"—a communication to him from abroad by Bern Lum Budd, of the city, county, and State of New York,—was deposited and recorded in the Office of the Commissioners on the 11th day of May, 1877, 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  
1865. Inventions.

**N**OTICE is hereby given, that the petition of Edwin Gorham Angell, of Providence, Rhode Island, United States of America, now of 8, Southampton-buildings, London, praying for letters patent for the invention of "improvements in wood-screws and in the method of forming the threads on the same,"—a communication to him from abroad by Hayward A. Harvey, of Orange, New Jersey, United States of America,—was deposited and recorded in the Office of the Commissioners on the 12th day of May, 1877, 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  
1896. Inventions.

**N**OTICE is hereby given, that the petition of William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, praying for letters patent for the invention of "improvements in the manufacture of metallic cartridge-shells,"—a communication to him from abroad by James Herbert Bullard, of Springfield, Massachusetts, United States of America,—was deposited and recorded in the Office of the Commissioners on the 15th day of May, 1877, 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.

**N**OTICE is hereby given, that provisional protection has been allowed—

145. To William Hart and George Hart, of the city of Manchester, in the county of Lancaster, Brass Founders and Finishers, for the invention of "improved apparatus for injecting fluids into steam boilers, which improvements are also applicable for other purposes."

On their petition, recorded in the Office of the Commissioners on the 11th day of January, 1877.

953. To James Morris, of Liverpool, in the county of Lancaster, Printer, for the invention of "improvements in, and connected with, machines for finishing printed sheets of paper."

On his petition, recorded in the Office of the Commissioners on the 9th day of March, 1877.

982. To William Newzam Nicholson, of the Trent Iron Works, Newark, in the county of Nottingham, and James Kennan, of the city of

Dublin, both Agricultural Implement Manufacturers, for the invention of "improvements in horse gears or horse powers."

On their petition, recorded in the Office of the Commissioners on the 12th day of March, 1877.

1087. To William Abbott, of the firm of Anderson, Abbott, and Anderson, of Queen Victoria-street, in the city of London, for the invention of "improvements in the preparation of driving bands or belts, which improvements are also applicable to the preparation and treatment of fibres or textile materials, woven fabrics and cordage."

On his petition, recorded in the Office of the Commissioners on the 17th day of March, 1877.

1221. To Alfred Bult Verrier, Dentist, and Albert Edward Banister, Veterinary Surgeon, both of Bridport, in the county of Dorsetshire, for the invention of "improvements in ventilating, in heating and cooling air, and consuming smoke and gases, and in apparatus employed therein."

On their petition, recorded in the Office of the Commissioners on the 28th day of March, 1877.

1289. To Carl Pieper, of Dresden, Saxony, for the invention of "improvements in grain-polishing machinery."—A communication from Emil Menz, a person resident at Connewitz, Saxony.

On his petition, recorded in the Office of the Commissioners on the 3rd day of April, 1877.

1417. To Louis Stean, of East-road, Furrier and Glove Manufacturer, and George Slater, of City-road, Engineer and Machinist, both in the county of Middlesex, for the invention of "improvements in gloves, and in fasteners for gloves, belts, neck-ties, and other like articles."

1419. And to William James Ingram, of the Strand, in the city of Westminster, Gentleman, for the invention of "improvements applicable to machinery for letter-press printing."

On both their petitions, recorded in the Office of the Commissioners on the 11th day of April, 1877.

1437. To Andrew Taylor, of No. 39, Foster-lane, Cheapside, in the city of London, Gentleman, for the invention of "an improvement in neck ties."

On his petition, recorded in the Office of the Commissioners on the 12th day of April, 1877.

1470. To Charles Linford, of Abbey Iron Works, Leicester, in the county of Leicester, for the invention of "improvements connected with gas engines."

On his petition, recorded in the Office of the Commissioners on the 14th day of April, 1877.

1478. To Robert Hedley, of Wharf-road, Cubitt Town, Isle of Dogs, Poplar, Middlesex, Engineer, for the invention of "improvements in steam engines for tramway cars and similar vehicles."

1491. And to George Hicks Harris, of White Rock, Machinist, and William Rounswell, of Polmorla, Carpenter, both in the county of Cornwall, for the invention of "improvements in machinery or apparatus for crushing ores, and for other like purposes."

On their both petitions, recorded in the Office of the Commissioners on the 16th day of April, 1877.

1501. To George Anderson Vetch, of Edinburgh, in the county of Mid-Lothian, North Britain, for the invention of "an improved apparatus for determining distances."