

munication to him from abroad by Armand Sépulehre, of Paris, France.

On both their petitions, recorded in the Office of the Commissioners on the 17th day of May, 1877.

2828. To Matthew Henry Hale, of 105, Rue Royale, Sainte Marie, Brussels, Belgium, for the invention of "an improved sliding expander for dining tables and for other articles of household furniture, and also applicable for buildings and bridges."

On his petition, recorded in the Office of the Commissioners on the 25th day of July, 1877.

2974. To Thomas Gidlow, of Hollywood, Heaton, in the county of Lancaster, Iron Master, and James Abbott, of Ince, in the said county of Lancaster, Manager of Works, for the invention of "improvements in apparatus or appliances to be used in cutting and getting coal."

On their petition, recorded in the Office of the Commissioners on the 3rd day of August, 1877.

3152. To John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, for the invention of "improvements in breech-loading fire arms and ordnance."—A communication to him from abroad by Edwin A. Brydges, of Berlin, in the Empire of Germany.

On his petition, recorded in the Office of the Commissioners on the 18th day of August, 1877.

3218. To George Warsop, of 76, Royal-terrace, and Henry Walker Hill, of 51, Hampden-st., both of Nottingham, Engineers, for the invention of "improvements in drilling and other stands."

On their petition, recorded in the Office of the Commissioners on the 24th day of August, 1877.

3236. To Alfred Le Grand and Robert Sutcliff, both of 100, Bunhill-row, in the city of London, for the invention of "improvements in well sinking and appliances connected therewith, partly applicable for sinking tubes for other purposes."

On their petition, recorded in the Office of the Commissioners on the 25th day of August, 1877.

3268. To John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, for the invention of "improvements in machinery or apparatus for dressing millstones."—A communication to him from abroad by Charles Golay, of Paris, in the Republic of France, Engineer.

On his petition, recorded in the Office of the Commissioners on the 28th day of August, 1877.

3278. To James Cooper, of Huddersfield, in the county of York, Innkeeper, for the invention of "improvements in bottle stoppers, and in apparatus connected therewith."

On his petition, recorded in the Office of the Commissioners on the 29th day of August, 1877.

3316. To Frank Wirth, of the firm of Wirth and Company, Patent Solicitors at Frankfort on the Main, in the Empire of Germany, for the invention of "improvements in self-acting couplings for the driving wheels of mountain locomotives."—A communication from Richard Vogel, Engineer, a person resident at Ibbenbüren, in the Empire of Germany.

3320. And to Nathan Rheinberg, Merchant, of No. 13, Well-street, Falcon-square, London, E.C., for the invention of "improvement in elastic fabrics for boots and shoes, and also for garters, belts, and surgical appliances."

On both their petitions, recorded in the Office

of the Commissioners on the 31st day of August, 1877.

3361. To William Morgan-Brown, of the firm of Brandon and Morgan-Brown, Engineers and Patent Agents, of 38, Southampton-buildings, London, and of 1, Rue Laffitte, Paris, for the invention of "improvements in machines for driving tacks cut from a continuous wire, for the purpose of laying the soles of boots and shoes and for lasting the same."—A communication to him from abroad by Louis Goddu, of Winchester, Middlesex, Massachusetts, United States of America, Machinist.

3363. To Horace Palmer Colman and John Glendenning, both of Norwich, in the county of Norfolk, for the invention of "improvements in school-desks."

3365. And to Timotheus Ignatius Alberdingk, of Amsterdam, Holland, for the invention of "improvements in effecting the destruction of noxious vapours or gases, and in the apparatus or means employed therein."

On their several petitions, recorded in the Office of the Commissioners on the 4th day of September, 1877.

3367. To William Williams Box, of Crayford, in the county of Kent, for the invention of "improvements in castors."

3369. To Thomas Lewis and Joseph Hughes, both of Merthyr Tydvil, in the county of Glamorgan, for the invention of "improvements in stoppering bottles for containing aerated waters and other gaseous liquids."

3371. To Charles John Galloway, of Knott Mill Iron Works, Manchester, in the county of Lancaster, Engineer, for the invention of "improvements in boiler flues."

3373. To Edward Primerose Howard Vaughan, F.C.S., of 67, Chancery-lane, in the county of Middlesex, Patent Agent, for the invention of "improvements in the method of and in apparatus for preserving animal and vegetable substances."—A communication to him from abroad by John Hopkins, of St. John's, New Brunswick, in the Dominion of Canada.

3374. To Henry Bolleter, of Foley-street, in the county of Middlesex, for the invention of "improvements in the means and processes employed for treating and preserving animal substances for use as food."

3375. To Frank Wirth, of the firm of Wirth and Company, Patent Solicitors, at Frankfort on the Main, in the Empire of Germany, for the invention of "a revolver-purse."—A communication from Oscar Frankenau, a person resident at Nürnberg, in the Empire of Germany.

3376. To Frank Wirth, of the firm of Wirth and Company, Patent Solicitors, at Frankfort on the Main, in the Empire of Germany, for the invention of "improvements in air-guns."—A communication from Michael Weber, Manufacturer of Surgical Instruments, a person resident at Zurich (Switzerland).

3377. To Frank Wirth, of the firm of Wirth and Company, Patent Solicitors, at Frankfort on the Main, in the Empire of Germany, for the invention of "improvements in cards used in cotton-machinery."—A communication from Egidi Moog, Foreman Spinner, a person resident at Oggersheim, in the Empire of Germany.

3381. To Joseph Trickett, of Newark-upon-Trent, in the county of Nottingham, Cutler, for the invention of "a new machine or apparatus for sharpening horse clippers, applicable also to other similar purposes."

3382. To Moritz Wolfsky, of Water-lane, Black-