

improved method of, and apparatus for, adjusting ships compasses, correcting the same, and taking bearings by day or night."

On their petition, recorded in the Office of the Commissioners on the 2nd day of August, 1872.

2334. To James Ellison, of Bury, in the county of Lancaster, for the invention of "improvements in self-acting tilts for casks, barrels, or other receptacles."

2338. To Daniel Kinnear Clark, of No. 8, Buckingham-street, Adelphi, in the county of Middlesex, Civil Engineer, for the invention of "improvements in the lubricating arrangements of axle boxes for railway rolling stock."—A communication to him from abroad by James Sidebotham, of Cairo, Egypt.

2340. To Thomas Spittle, of the Cambrian Iron Foundry, Newport, in the county of Monmouth, Ironfounder, for the invention of "improvements in cask stands."

On their several petitions recorded in the Office of the Commissioners on the 6th day of August, 1872.

PATENTS WHICH HAVE BECOME VOID.

A LIST of the Letters Patent for Inventions which have become void by reason of the non-payment of the additional Stamp Duty of £50, before the expiration of the third year from the date of such Patents, pursuant to the Act of the 16th Vic., c. 5, sec. 2, for the week ending the 17th day of August, 1872.

2403. Christopher Crossley and Robert Whipp, both of Manchester, in the county of Lancaster, Drysalters, and Thomas Crossley, of Rochdale, in the same county, Manufacturing Chemist, for an invention of "improvements in the manufacture of size."—Dated 11th August, 1869.

2406. Frederick Hotham Needham, of Mortlake, in the county of Surrey, Naval Instructor, for an invention of "an improved apparatus to be applied to casks or other vessels containing liquid, to preserve the liquid while on draught."—Dated 11th August, 1869.

2409. John Henry Johnson, of 47, Lincoln's-inn-fields, in the county of Middlesex, Gentleman, for an invention of "improvements in the manufacture of iron and steel."—Communicated to him from abroad by James Jones Johnston, of the city and county of Allegheny and State of Pennsylvania, United States of America.—Dated 11th August, 1869.

2410. Jean Felix Ernest Martin, Gentleman, and Louis Gilbert Le Guay, Gentleman, both of Randan, in the Empire of France, for an invention of "an improved construction of submarine and other tunnels."—Dated 12th August, 1869.

2416. William Robert Lake, of the "International Patent Office, No. 8, Southampton-buildings, London, Consulting Engineer, for an invention of "improvements in machinery for charging gas retorts."—Communicated to him from abroad by N. O. J. Tisdale, of New Orleans, Louisiana, United States of America.—Dated 12th August, 1869.

2417. Heron Hudson, of Melton House, Oak's-crescent, Wolverhampton, in the county of Stafford, for an invention of "an improved apparatus for effecting communication between railway passengers, guards, and engine drivers."—Dated 13th August, 1869.

2418. David Aspland Gibbs, of 76, Milton-street, in the city of London, Soap Maker, for an invention of "improvements in compositions for

coating or covering the sides and bottoms of ships and vessels."—Dated 13th August, 1869.

2419. Edwin John Grabham, of Shepherdess-walk, in the county of Middlesex, Mechanical Engineer, for "an invention of "improvements in machinery or apparatus for plaiting or folding textile fabrics, paper, and other like materials."—Dated 13th August, 1869.

2421. Edward Jacob Hill, of Victoria Station, Pimlico, in the county of Middlesex, and Richard Davis, of 19, Craven-street, Strand, in the county of Middlesex, for an invention of "an improved signalling apparatus used in hand signal lamps."—Dated 13th August, 1869.

2424. John Cowan, of the firm of L. Cowan and Sons, of Hammersmith Bridge Works, Barnes, in the county of Surrey, Manufacturers, for an invention of "improvements in the manufacture of soap."—Dated 13th August, 1869.

2428. Thomas Sagar, of Burnley, in the county of Lancaster, Machine Maker, and Thomas Richmond, of the same place, Manufacturer, for an invention of "certain improvements in looms for weaving."—Dated 14th August, 1869.

2433. Theophilus Coad, of Truro, in the county of Cornwall, Mathematical Instrument Maker, for an invention of "improvements in the construction of sewing machines."—Dated 14th August, 1869.

2435. Edward Henry Cradock Monckton, of the Oriental Bank Corporation, Threadneedle-street, London, for an invention of "improvements in agricultural machinery, and in appliances for harvesting and preserving crops."—Dated 14th August, 1869.

2436. John Bryant Rushbrook, of Saint Andrew's-street North, Bury Saint Edmund's, in the county of Suffolk, for an invention of "an improved hurdle for folds for lambs and sheep."—Dated 18th August, 1869.

2439. Jonathan Mitchell, of Bradford, in the county of Yorkshire, Bricklayer, for an invention of "improvements in kilns for burning bricks, lime, and articles of earthenware."—Dated 16th August, 1869.

2441. James Blyde, of Sheffield, in the county of York, for an invention of "improvements in scissors or apparatus especially suitable for gathering flowers and fruit."—Dated 16th August, 1869.

2446. Henry Hudson Trenor, of the city of New York, in the State of New York, United States of America, Civil Engineer, for an invention of "an automatic passenger register or apparatus for recording the number of individuals entering any place or vehicle, or passing over such apparatus."—Dated 16th August, 1869.

2449. John Lawson, of Leeds, in the county of York, Engineer, and Edward Gerrard Fitton, of Leeds, aforesaid, Engineer, for an invention of "improvements in spinning flax, hemp, jute, and tow, and in machinery employed for these purposes."—Dated 16th August, 1869.

2451. Robert Harvey Charsley, of Beaconsfield, in the county of Buckingham, for an invention of "a new or improved carriage for locomotion by manual labour."—Dated 17th August, 1869.

2456. Maurice Hermann Jacobi, of St. Petersburg, in the Empire of Russia, and of 53, Chancery-lane, in the county of Middlesex, Doctor of Philosophy, for an invention of "an improved galvanoplastic process for depositing iron, applicable for the reproduction of engraved surfaces, stereotyping, and other useful and ornamental purposes."—Partly his own invention and partly communicated to him from