

the date of such Patents, pursuant to the Act of the 16th Vict., c. 5, sec. 2, for the week ending the 3rd day of August, 1878.

2664. William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for an invention of "improved tickets for railway, steamboat, and other like purposes."—From abroad by James H. Ross, of Buffalo, New York, United States of America.—Dated 28th July, 1875.

2669. Christian Heinzerling, of Glasgow, in the county of Lanark, North Britain, for an invention of "improvements in the manufacture of bichromate of potash and in the manufacture of iodine and bromine."—Dated 28th July, 1875.

2671. William Robert Lake, of the firm of Haseltine, Lake, & Co., Patent Agents, Southampton-buildings, London, for an invention of "improved tickets for railway, steamboat, and other like purposes, chiefly designed for long journeys over different railways, or partly by rail and partly by water."—From abroad by James H. Ross, of Buffalo, New York, United States of America.—Dated 28th July, 1875.

2678. Henry Rayner, of Chester, in the county of Chester, Gentleman, F.C.S., and William Crookes, of Mornington-road, Regent's Park, in the county of Middlesex, Gentleman, F.R.S., for an invention of "an improved process and apparatus for absorbing the acid vapours evolved in various chemical manufactures."—Dated 28th July, 1875.

2679. Henry Edward Newton, of the Office for Patents, 66, Chancery-lane, in the county of Middlesex, Civil Engineer, for an invention of "improvements in machinery for cutting and folding paper."—Communicated to him from abroad by Andrew Campbell, of Brooklyn, in the State of New York, United States of America.—Dated 28th July, 1875.

2683. William Charles Hughes, of 151, Hoxton-street, in the county of Middlesex, Optician, for an invention of "a new or improved lime-light gas apparatus for dissolving views."—Dated 29th July, 1875.

2684. John Imray, of No. 20, Southampton-buildings, Chancery-lane, in the county of Middlesex, for an invention of "improvements in rolling mills."—From abroad by Ignatius Hahn, of Pittsburgh, Pennsylvania, in the United States of America.—Dated 29th July, 1875.

2685. Thomas Boverton Redwood, of Fairlawn, North Finchley, in the county of Middlesex, for an invention of "improvements in the manufacture of gas."—Dated 29th July, 1875.

2690. John Henry Johnson, of 47, Lindoln's-inn-fields, in the county of Middlesex, Gentleman, for an invention of "improvements in the manufacture of sulphuric acid."—Communicated to him from abroad by C. L. Vogt, of Brackwede, in Westphalia, in the Empire of Germany.—Dated 29th July, 1875.

2692. William Bone, of Framlingham, in the county of Suffolk, Machinist, for an invention of "improvements in means or apparatus for cleaning seeds and such like substances."—Dated 29th July, 1875.

2693. James Frederick Lackersteen, of 16, Southampton-buildings, Holborn, in the county of Middlesex, Civil Engineer, for an invention of "a new or improved machine for making up sticks of fire wood into bundles."—Dated 30th July, 1875.

2694. George Yate Pitts, of Tranmere, in the county of Chester, Tanner, for an invention of "improvements in apparatus for rubbing, flesh-

ing, scudding, scouring, and striking skins, hides, and leather."—Dated 30th July, 1875.

2695. Richard Charles Stone, of 77, Cannon-street, in the city of London, Engineer, for an invention of "improvements in buffers for railway engines, carriages, trucks, and station buffers."—Dated 30th July, 1875.

2698. Robert Renshaw, of the city of Manchester, Engraver, for an invention of "certain improvements in steam generators."—From abroad by David Renshaw, of Cohasset, in the county of Norfolk, and State of Massachusetts, in the United States of America.—Dated 30th July, 1875.

2701. James Joseph Hicks, of Hatton-garden, in the county of Middlesex, for an invention of "improvements in instruments commonly called hydrometers for testing the specific gravity of liquids."—Dated 30th July, 1875.

2704. Ernst Engel, Merchant, of St. Petersburg, Russia, Prussian subject, for an invention of "improvements in breech-loading fire arms."—Dated 30th July, 1875.

2707. William Marston Warden, John Muirhead, and Josiah Latimer Clark, all of 29, Regent-street, Westminster, for an invention of "improvements in galvanic batteries."—Dated 30th July, 1875.

2711. William Haden, of Cliff Hill Quarries, Markfield, near Leicester, in the county of Leicester, Manager, for an invention of "improvements in stone breaking and crushing machines."—Dated 31st July, 1875.

2713. John Auchinvole, of Glasgow, in the county of Lanark, North Britain, Merchant, for an invention of "improvements in recovering surplus indigo from textile materials or fabrics."—Communicated to him from abroad by Camille Bouhon, residing at Ensival, in Belgium.—Dated 31st July, 1875.

2714. Henry Baxter and Luke Rushworth, both of Hollinwood, and Henry Clough, of Failsworth, all in the county of Lancaster, for an invention of "improvements in the construction of spinning mules and twiners for spinning and doubling cotton and other fibrous substances."—Dated 31st July, 1875.

2715. John Lanyon, of Belfast, in the county of Antrim, in Ireland, Civil Engineer and Architect, for an invention of "improvements in ventilation and in apparatus therefor."—Dated 31st July, 1875.

2716. Andrew Shearer and David Williamson, both of Garlieston, in the county of Wigton, North Britain, for an invention of "a new or improved machine for thinning out turnips and similar crops."—Dated 31st July, 1875.

2720. James Dodge, of the city of Manchester, Engineer, for an invention of "improvements in machinery for drilling and boring."—Dated 31st July, 1875.

2721. James Steel, of Glasgow, in the county of Lanark, North Britain, Engineer, for an invention of "improvements in compressed air brakes for railway trains, and in engines for compressing air for the same, which engines are also applicable for other purposes."—Dated 2nd August, 1875.

2723. William Henry Beck, of 139, Cannon-street, in the city of London, for an invention of "improvements in saddle girths for horses."—Communicated to him from abroad by Alois Steinbach & Co., of Vienna, in the Empire of Austria.—Dated 2nd August, 1875.

2730. Arthur Charles Henderson, of No. 6, Southampton-buildings, Holborn, in the county of Middlesex, Patent Agent, for an invention of