

the upper surface of the tube sheet, A, and the provision for allowing a current of water to pass through the ends of such extension, and descending through an inclined passage of tube, G, combined and arranged substantially as and for the purpose herein set forth.

82,240. SAW SHARPENING DEVICE.—A. M. Newman, Terre Haute, Ind. I claim, 1st, The adjustable standards, B, B, provided with heads, C, C, and washers, E, E, for the purpose of securing the files, and adapting the machine to different sized files, substantially as and for the purposes herein set forth.

82,241. FOUR-WHEEL PLOW.—Nelson B. Norton, Burlington, Wis. I claim, 1st, The arrangement of the lever, H, jaws, I, and metallic straps, K, with the plow beam, F, frame, C, post or standard, L, straps, M, and catch H, when constructed and used as and for the purposes set forth.

82,242. LIME KILN.—W. C. Pettijohn, St. Louis, Mo. I claim the arrangement of the kiln, A, having the chamber, A', grate, a, ash pit, B, side aperture, a', metallic dome, D, constructed in two parts, and having the smoke exit, d, all combined substantially as herein set forth.

82,243. MACHINE FOR FORMING BUTT-NUTS.—S. G. Fitts (assignor to himself and W. L. Palmer), Leominster, Mass. I claim the combination of, as well as the arrangement of, one or two sets of mandrels, A, B, the toothed rack or carrier, L, and its supporting rail, K, and the clamp, M, M, the whole being provided with mechanism for operating the rack, mandrels, and clamp, substantially as described.

82,244. APPARATUS FOR CARBURETING AIR.—J. T. Plass and H. H. Plass, New York City. We claim, 1st, The gate, E, in combination with the fluid trap, C, constructed as described, for regulating the supply of hydrocarbon to the vaporizing chamber, and returning the surplus to the reserve chamber, substantially as set forth.

82,245. BLIND HINGE.—R. B. Prindle Norwich, N. Y. I claim a self locking blind hinge, formed by combining the pin, G, with its conical base, and a corresponding seat in the disk, F, with the shoulder, H, engaging the seat, D, in the manner and for the purpose substantially as herein shown and described.

82,246. ANIMAL TRAP.—H. W. Prouty (assignor to himself and Howard Tilden), Boston, Mass. I claim the arrangement of the arms, D, D, spars, K, K, bait rod, L, and bait cup, C, in combination with the spring, F, and catch, G, the whole being constructed and arranged upon a block or frame, substantially as described and for the purpose set forth.

82,247. TABLE.—J. C. Putnam, Worcester, Mass. I claim, 1st, The construction of the top, B, the pieces, C, C, for supporting the top, in connection with the slide, R, substantially as set forth and described.

82,248. BRICK KILN.—S. D. Rader, Williamsport, Pa. I claim the arrangement of the kiln, and furnaces, C, and long side furnaces, B, composed of a series of small furnaces, C, and provided with draft holes, F, at the side and ends, all constructed substantially as and for the purposes herein set forth.

82,249. GAS BURNING FURNACE FOR STEAM GENERATORS.—John T. Rich, Philadelphia, Pa. Antedated July 8, 1868. I claim, 1st, So arranging a furnace that the coal shall be subjected to distillation before it enters the fire box, and at the same time so arranging the draft or blast that the gases thus evolved shall be thoroughly mixed with atmospheric air or air and steam within the furnace, but before entering the fire box, or combustion chamber to be consumed, substantially as described.

82,250. COMBINED CORN SHELLER AND APPLE GRINDER.—M. H. Ripley and William N. Temple, Minneapolis, Minn. We claim the combination of the berries and concave-toothed cylinder, B, guide, F, rollers, G, gears, D, E, and frame, A, with its spouts, I, J, when the several parts are constructed and arranged in the manner specified.

82,251. BIT STOCK.—J. Lewis B. Rose, Sunderland, Mass. I claim the handle, A, constructed of the two pieces applied to the stock, B, as described, and secured by the ferrules, C, all substantially as herein set forth.

82,252. MACHINE FOR THREADING BOLTS.—J. Schuessler and John Kennedy, La Fayette, Ind., assignors to John Schuessler. We claim, 1st, The arrangement herein described of the hollow slotted mandrel, B, the gear, C, and reciprocating head, E, and the cutters, C, 2d, The combination of the device set forth in the foregoing clause, with the lever, F, and graduated quadrant, M, substantially as set forth.

82,253. HARVESTER.—J. Thomson C. Sebring, Milford, Mich. I claim, 1st, The employment in grass and grain harvesters, of a round cast-iron main frame, F, constructed substantially in the manner and for the purposes herein shown and described.

82,254. COMPOSITION FOR STUFFING AND FILLING WOOD.—J. Cobsheller, Wilmington, D. C. I claim the combination of the within named ingredients, and mix'd in the several quantities and proportions, as herein described and for the purpose set forth.

82,255. FILTER.—Thomas Simmons, Brooklyn, N. Y. I claim, 1st, The case, A, provided with a movable head, and each of its heads being provided with the pieces, D, D, upon which screw threads are formed, so that the filter can be reversed and cleansed, substantially as set forth.

82,256. COMBINED CLOTHES-HORSE, ETC.—Henry L. Stillson, Plattsburg, N. Y. I claim, 1st, The four armed rollers, D, D, constructed as described, with a series of hies to rough one of the arms, and provided with ratchet wheels, E, and journals, H, H, which revolve between the side pieces, A, A, substantially as and for the purposes set forth.

82,257. SAWING MACHINE.—Hiram Thompson (assignor to R. Hall & Co.), Worcester, Mass. I claim, 1st, The combination and arrangement, with the saw-arbors, E, E, or other, and the stationary disks, K, K, of the movable disks, F, F, substantially as and for the purposes set forth.

82,258. REVOLVING FIRE-ARM.—F. Alexander Thuer, East Hartford, assignor to Colt's Fire-arms Manufacturing Company, Hartford, Conn. I claim, 1st, The laterally movable piece, G, containing the firing pin, I, in combination with the rotating chambered breech and the hammer of a revolver, substantially as described, and for a safety device.

82,259. CLOTHES WRINGER.—Josiah Webb, Spartansburg, Pa. I claim the arrangement of the rolls, B, B, of the wooden cylinder, D, the coating of pitch and said m, and the spirally wound coil of rubber, O, arranged in the manner and for the purposes specified.

82,260. MANUFACTURE OF ARTIFICIAL STONE.—Demetry Mundeley, Washington, D. C. I claim the herein described improvement in artificial stone.

82,261. CIDER MILL.—Charles Wilson, Clinton, Pa. Antedated September 4, 1868. I claim the combination and arrangement of the endless roller belt, C, supported, A, revolving bottom, D, and circular upright frame, G, when constructed, arranged, combined, and operated as herein described, and for the purposes set forth.

82,262. VAPOR BURNER.—Christoph Wintergerst, Mobile, Ala. I claim the arrangement of the reservoir, A, curved tube, B, burner, C, screws, G, pins, E, and plate, D, whereby a light is produced and so divided into a larger and brighter flame is formed, all as heretofore specified.

82,263. STILL FOR TURPENTINE.—J. E. Winants, Brooklyn, N. Y., and John F. Griffin, New York City. We claim, 1st, The process, substantially as described, of distilling the crude material and extracting the fumes at a low temperature, and carrying them off from the lower portion of the still, as and for the purposes set forth.

82,264. WATER ELEVATOR.—C. P. Woodruff, Newbern, Tenn. I claim, 1st, The cylinder, C, constructed with the central partition or wall, C', when employed in combination with the sliding shaft, F, and the tubular bearings, E, E, substantially as described.

82,265. SAWING MACHINE.—Oscar E. Moore, Corunna, Mich., assignor to the estate of Samuel Yaron, deceased. I claim the guides, B, affixed to or forming part of a wheel, R, or its equivalent, in combination with a saw shaft, P, operating substantially as described, for the purpose set forth.

82,266. CLOCK.—John B. Mayer, Niagara Falls, N. Y. I claim, 1st, The arrangement of the wheel, A, pinion, E, escapement wheel, D, with the hour, minute, and second hands upon axis of said escapement wheel, substantially as herein described.

82,267. STRIKING MECHANISM FOR CLOCKS.—John B. Mayer, Niagara Falls, assignor to himself and Tobias Wimer, Williamsville, N. Y. I claim, 1st, The spur wheel, D, in combination with the pins, V, V, an like pinion, F, the tumbler wheel, E, the spur wheel, F, the pinion and fly wheel, G, in combination with the hammer tails, W, W, in order to effect the striking of quarters and hours on separate bells, as set forth.

82,268. MANUFACTURING GLASSWARE WITH HANDLES.—Daedalus, June 30, 1868; reissue 3,116.—J. S. Atterbury and T. B. Atterbury, Pittsburgh, Pa. We claim, 1st, Producing handles for glass lamps and other glassware by casting them in molds ready to be attached to such articles, substantially as described.

82,269. BRECH-LOADER.—Dated January 9, 1866; reissue 3,117.—Berdan Fire-Arms Manufacturing Company, New York City, assignees of Hiram Berdan. We claim, 1st, The employment, in a breech-loading fire-arm, of a device, so applied and operated as to press back the cartridge against the face of the breech preparatory to firing, substantially as and for the purpose herein described.

82,270. PRESERVING MEATS, FRUIT, ETC.—Dated June 16, 1868; reissue 3,118.—Wm. Davis, Samuel H. Davis, and David W. Davis, Detroit, Mich., assignors of Wm. Davis. We claim, 1st, The construction of a car body, ship's hold, room box, or chest provided with compartments, A, B, C, ice receptacle, D, chimney, E, and hatch, S, when arranged and operated substantially as described for the purposes set forth.

82,271. PLANER CHECK.—Dated May 19, 1868; reissue 3,121.—Charles H. Rogers, Windsor Locks, Conn. I claim, 1st, In combination with the movable jaw, B, and slotted chuck bed, B', the eccentric shaft, D, with eye-bolts, E, E, and nuts, G, G, arranged toward the front of the jaw, the jaw being constructed with a back surface equally as high as the front, or surface next to the stock, substantially as herein shown, and for the purpose set forth.

82,272. ALARM LOCK.—Dated March 5, 1867; reissue 3,120.—James S. Porter and Russell Porter, Waterford, N. Y. We claim, 1st, The cam or stop, P, which, by being properly set, offers an obstruction to the turning of the key, substantially as described.

82,273. RAILWAY RAIL AND SPLICE.—Dated May 26, 1868; reissue 3,123.—Zalmon B. Wakeman, Rockford, Ill. I claim, 1st, The hollow shell rail, A, when the sides are curved in toward each other so as to receive and retain the block, B, as and for the purposes set forth.

82,274. APPARATUS FOR CARBURETING AIR OR GASES.—Dated March 14, 1865; reissue 3,124.—John A. Bassett, Salem, Mass. I claim, 1st, The general arrangement and construction of the apparatus consisting of the several parts shown and described.

2d, The carburization of air or gases by the use of perforated plates or cylinders, with the fibrous material partially immersed in the hydrocarbon liquid, substantially in the manner as set forth and shown.

3d, The automatic regulation of the air to be admitted to the holder and converter, by means of a valve connected with and operated by the holder, through the lever and core, or their equivalents, when used for this purpose, as shown and specified.

4th, A carburizing device placed in the gas-holder tank, in the manner substantially as described.

5th, A carburizing device for enriching air or gases with the vapor of a volatile hydrocarbon, placed in a gas-holder tank, having a seal for the holder independent of the level of the hydrocarbon liquid.

6th, The combination of a device for carburizing air or gases, using capillary materials, with the method of carburizing by forcing the air or gases through the hydrocarbon.

7th, The automatic reservoir for replenishing the hydrocarbon liquid in the carburizing chamber, in combination with a gasometer, substantially as shown and described.

8th, The use of a mercury valve for controlling the admission of air to the carburizing chamber, as set forth and shown.

9th, Forcing air or gas through hydrocarbon liquid, or through capillary materials charged with such liquid, within a gas holder, so as to carburet or enrich the same, substantially as described.

10th, The combination of a gas holder, a vessel to contain hydrocarbon liquid with a gas holder, and an air or gas forcing apparatus, substantially as described.

INVENTIONS PATENTED IN ENGLAND BY AMERICANS. (Compiled from the "Journal of the Commissioners of Patents.") PROVISIONAL PROTECTION FOR SIX MONTHS. 2,493.—MANUFACTURE AND FASTENING OF PAPER BAGS.—Joseph Rapson, New Bedford, Mass. Aug. 10, 1868.

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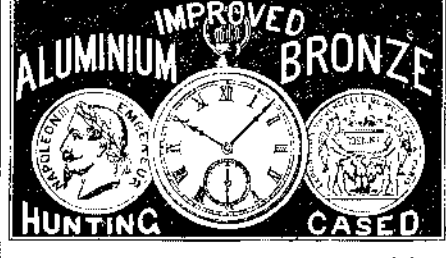
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U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 11, 1868. Jarvis Case, of Lafayette, Ind., having petitioned for an extension of the patent granted him on the 16th day of January, 1855, reissued on the 16th day of November, 1858, and again reissued on the 17th day of April, 1866, for an improvement in "Saw Planes," it is ordered that said petition be heard at this office on the 21st day of December next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 14 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 11, 1868. George W. Hubbard and William E. Conant, of New York City, having petitioned for an extension of the patent granted them on the 9th day of January, 1855, and reissued on the 18th day of September, 1866, for an improvement in "Operating Slide Valves in Direct Action Engines," it is ordered that said petition be heard at this office on the 21st day of December next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 14 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 7, 1868. R. F. Brown, of Dorchester, Mass., having petitioned for an extension of the patent granted him on the 12th day of December, 1854, for an improvement in "Hanging Carriage Bodies," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 13 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 9, 1868. Sylvanus Sawyer, of Fitchburg, Mass., having petitioned for an extension of the patent granted him on the 12th day of December, 1854, for an improvement in "Flatiron Machine," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed at this office twenty days before the day of hearing. 13 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. Washington, D. C., Sept. 9th, 1868. James E. Simpson, of Brooklyn, N. Y., having petitioned for an extension of a patent granted him on the 5th day of December, 1854, for an improvement in "Dry Docks," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 13 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 9, 1868. Charles D. North, of Paterson, N. J., having petitioned for the extension of a patent granted him on the 12th day of December, 1854, for an improvement in "Throater for Spinning Cotton," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 13 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 27, 1868. Emeline M. Woodruff, late Emeline M. Stedman, of Elizabeth, N. J., executrix of the estate of Geo. W. Stedman, deceased, having petitioned for an extension of the patent granted to said Geo. W. Stedman the 12th day of December, 1854, and reissued the 26th day of April, 1859, for an improvement in "Sewing Machines," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 2, 1868. Birrell Holly, of Lockport, N. Y., having petitioned for an extension of the patent granted to him on the 6th day of February, 1855, for an improvement in "Elliptical Rotary Pumps," it is ordered that said petition be heard at this office on the 11th day of January next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Aug. 28, 1868. Aaron H. Allen, of Boston, Mass., having petitioned for an extension of the patent granted to him on the 5th day of December, 1854, for an improvement in "Seats for Public Buildings," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., August 31, 1868. Jeremiah Stever, of Bristol, Conn., having petitioned for an extension of the patent granted to him on the 12th day of December, 1854, for an improvement in "Machines for Scraping Metals," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Aug. 28, 1868. John Pepper, of Gilford, N. H., having petitioned for an extension of the patent granted to him on the 5th day of December, 1854, and reissued on the 27th day of October, 1866, for an improvement in "Circular Knitting Machines," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. WASHINGTON, D. C., Sept. 1st, 1868. Samuel N. Miller, of Dedham, Mass., having petitioned for the extension of the patent granted him on the 29th day of June, 1852, for an improvement in "Combined Anchor," this application having been authorized by Act of Congress, approved July 20, 1868, it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. Washington, D. C., Sept. 1st, 1868. Cyrenus Wheeler, Jr., of Auburn, N. Y., having petitioned for the extension of a patent granted him on the 5th day of December, 1854, reissued Jan. 3, 1860, in seven divisions, numbered 875, 876, 877, 878, 879, 880, 881, and reissue number 876, reissued May 14, 1867, and numbered 2,610, for an improvement in "Grain and Grass Harvesters," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

U. S. PATENT OFFICE. Washington, D. C., Sept. 1st, 1868. Cyrenus Wheeler, Jr., of Auburn, N. Y., having petitioned for the extension of a patent granted him on the 6th day of Feb. 1855, reissued June 5, 1860, numbered 971, and again reissued May 28, 1867, and numbered 2,632, for an improvement in "Grain and Grass Harvesters," it is ordered that said petition be heard at this office on the 23d day of November next. Any person may oppose this extension. Objections, depositions, and other papers, should be filed in this office twenty days before the day of hearing. 12 3 ELISHA FOOTE, Commissioner of Patents.

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