

- 100,113.—STOP COCK.—Joseph Breeden, Birmingham, Eng. Patented in England, Feb. 23, 1869.
- 100,114.—CLOTHES DRYER.—Benoni S. Brown, Chicago, Ill.
- 100,115.—TUBE STOPPER.—Wm. Brown, Hoboken, N. J.
- 100,116.—SEAT FOR CARS, ETC.—James Casseday (assignor to himself and J. D. Holt), Philadelphia, Pa.
- 100,117.—PORTABLE FURNACE.—Thomas Chadwick (assignor for one half his right to F. W. Cozad), Newton, Iowa.
- 100,118.—BLIND SLAT.—M. W. Clark, Worcester, Mass., assignor to R. Ball & Co.
- 100,119.—ALTTITUDE INSTRUMENT.—Hall Colby, New York city, assignor to himself and G. G. Colby, Washington, D. C.
- 100,120.—FEATHER RENOVATOR.—Abel D. Cook and James Graves, New Madrid, Mo.
- 100,121.—CHILDREN'S CARRIAGE.—William E. Crandall, New York city.
- 100,122.—WAGON SPRING.—J. N. Crannell, Champaign, Ill. Antedated Feb. 11, 1870.
- 100,123.—BAG HOLDER.—Leonard Crofoot, Pavilion, N. Y.
- 100,124.—COMBINED MOWING MACHINE AND HAY TEDDER.—J. H. Dater, Eagle Mills, N. Y.
- 100,125.—MACHINE FOR ROLLING CAR-COUPLING PINS.—Wm. Davis and Joseph White, Cleveland, Ohio.
- 100,126.—FAUCET.—J. M. A. Dew, Chicago, Ill. Antedated Feb. 18, 1870.
- 100,127.—MODE FOR FORMING BLOWN GLASSWARE.—Hiram Dillaway, Sandwich, Mass.
- 100,128.—COMBINED COTTON CHOPPER AND CULTIVATOR.—John D. Dann, Griffin, Ga.
- 100,129.—GATE.—Charles H. Eggleston, Marshal, Mich.
- 100,130.—WATCH REGULATOR.—D. W. Eldredge, Boston, Mass.
- 100,131.—MANUFACTURE OF COPPER AND IN SEPARATING OTHER METALS THEREFROM.—J. B. Etkington, Birmingham, England. Patented in England, November 3, 1865.
- 100,132.—CONSTRUCTION OF CHAIRS.—H. H. Evarts, Chicago, Ill.
- 100,133.—BEDSTEAD.—H. H. Evarts, Chicago, Ill. Antedated February 14, 1870.
- 100,134.—STREET PAYMENT.—E. M. Fowler (assignor to H. G. McGonegal), New York city.
- 100,135.—MACHINE FOR CUTTING SOAP INTO SLABS.—Joseph Gallipo Cohoes, N. Y.
- 100,136.—BRICK MACHINE.—B. M. Gard, Urbana, Ohio, and E. R. Gard, Chicago, Ill.
- 100,137.—STRAINER FOR COFFEE POT.—C. L. Gilpatric, Hyde Park, Mass.
- 100,138.—BASE BURNING STOVE.—J. H. Goodfellow (assignor to himself and R. S. Goodfellow), Troy, N. Y.
- 100,139.—SEWING MACHINE.—Wm. O. Grover, Boston, Mass.
- 100,140.—GRIP PULLEY.—A. S. Hallidie, San Francisco, Cal.
- 100,141.—STEAM GENERATOR.—Joseph Harrison, Jr., Philadelphia, Pa.
- 100,142.—WINE PRESS.—C. F. Hartmann, Nazareth, Pa.
- 100,143.—SKYLIGHT.—George Hayes, New York city.
- 100,144.—FEED-WATER PURIFIER FOR STEAM GENERATORS.—H. K. Hazlett, St. Louis, Mo.
- 100,145.—HEDGE AND TREE TRIMMER.—C. E. Healy, New London, Ohio.
- 100,146.—RAILWAY CAR COUPLING.—T. R. Herd, Allegheny City, Pa.
- 100,147.—COUPLING CARR.—Thomas Hess, West Bonn, Pa.
- 100,148.—METALLIC ROOFING.—Thos. N. Hickey, Brooklyn, N. Y.
- 100,149.—ROTARY STEAM ENGINE.—J. W. Hill, Jefferson, and Thomas Roberts, Panama, Iowa.
- 100,150.—LOCK FOR WAGON SEAT.—Edgar Hitt, Poudreidge, N. Y.
- 100,151.—MASTS OF VESSELS.—Edgar E. Holley, New York city.
- 100,152.—QUADRANT AND SEXTANT.—Frederick Holzach, New Orleans, La.
- 100,153.—SIGNAL APPARATUS.—A. H. Huntington, Gelesburg, assignor to Wm. McKee, Newport, Ill.
- 100,154.—GRAIN CONVEYER.—Olof Johnson and C. O. Wall, Galva, Ill. Antedated February 16, 1870.
- 100,155.—EGG BEATER.—Frank Krandelt, San Francisco, Cal.
- 100,156.—STEAM CLOTHES WASHER.—M. T. Lamb, Davenport, Iowa.
- 100,157.—PITMAN CONNECTION.—S. T. Lamb, New Albany, Ind.
- 100,158.—PITMAN JOINT FOR HARVESTERS.—S. T. Lamb, New Albany, Ind.
- 100,159.—PITMAN JOINT FOR HARVESTERS.—S. T. Lamb, New Albany, Ind.
- 100,160.—SOLDERING MACHINE.—Jos. Le Comte, Brooklyn, N. Y.
- 100,161.—RUFFLING ATTACHMENT FOR SEWING MACHINE.—A. M. Leslie, Chicago, Ill., assignor to himself and Cornell, Ward, and Comings.
- 100,162.—PUMP.—G. W. Low, Ravenna, Ohio.
- 100,163.—MANUFACTURE OF FERTILIZERS FROM ANIMAL SUBSTANCES.—Orazio Lugo, Baltimore, Md.
- 100,164.—CLAMP FOR STAY-LOG.—J. N. Lyman, New York city.
- 100,165.—STONE AND STUMP EXTRACTOR.—J. B. Lyons, Milton, Conn.
- 100,166.—PUNCH AND PRESS.—W. Stinson Lord, Crawford, Miss.
- 100,167.—ROOFING AND FLOORING.—P. N. Mackay, Virginia City, Nevada.
- 100,168.—POTATO DIGGER.—O. E. Mallory (assignor for one half his right to S. B. Lusk), Batavia, N. Y.
- 100,169.—FENCE.—Harris H. Margeson, San Francisco, Cal.
- 100,170.—SWEEP SHEARING TABLE.—J. R. Marshall, Marion, Pa.
- 100,171.—EXTENSIBLE GAS TUBE FOR CHANDELIERS.—H. L. McAvoy (assignor to himself and Samuel Ault, Jr.), Baltimore, Md. Antedated February 10, 1870.
- 100,172.—IMPLEMENT FOR UNDER-CUTTING SAND CORES IN FLASKS.—Wm. L. McDowell, Philadelphia, Pa.
- 100,173.—CAR COUPLING.—E. T. McKeon, Hammondtown, N. J.
- 100,174.—SOLDERING FURNACE.—John McPherson, Baltimore, Md.

- 100,175.—GRINDER FOR RATTLES FOR CLEANING CASTINGS.—George Miller, Johnston, R. I.
- 100,176.—JACK FOR CARRIAGE SPRINGS.—R. R. Miller, Plantsville, Conn., assignor of half interest to J. B. Savage.
- 100,177.—FIFTH WHEEL HEAD FOR CARRIAGES.—R. R. Miller, Plantsville, Conn., assignor of half interest to J. B. Savage.
- 100,178.—DIE FOR FORMING HEADS OF KINE BOLTS.—F. B. Morse, Plantsville, Conn.
- 100,179.—DRIVE WELL TUBE.—J. M. Mott, Chicago, Ill.
- 100,180.—HORSESHOE.—A. L. Murphy, Philadelphia, Pa.
- 100,181.—HARVESTER DROPPER.—Ephraim Myers, Creagers-town, Md.
- 100,182.—WATER FILTER, LIQUOR COOLER, AND REFRIGERATOR.—W. F. Nichols, Philadelphia, Pa.
- 100,183.—CULTIVATOR.—A. B. C. Nusbaum, Sacramento, Cal.
- 100,184.—SAFE.—D. O. Paige, Detroit, Mich.
- 100,185.—BRIDGE.—C. H. Parker, Boston, Mass.
- 100,186.—CAP FOR METALLIC CANS.—G. H. Perkins, Brooklyn, N. Y.
- 100,187.—WAGON.—Eli Petteys, Chestertown, N. Y.
- 100,188.—SUBSOIL PLOW AND SCRAPER COMBINED.—J. Reynolds, Crystal Springs, Miss.
- 100,189.—ERASER ATTACHMENT FOR PENCILS, ETC.—Geo. H. Richards, New York city.
- 100,190.—WAGON SEAT.—D. H. Richardson, Henrietta, N. Y.
- 100,191.—LIFE RAFT.—John Rider, New York city.
- 100,192.—CAR COUPLING.—H. S. Root, Muncy, Pa.
- 100,193.—BOAT-DETACHING APPARATUS.—John Ross, San Francisco, Cal.
- 100,194.—WARDROBE HOOK.—J. B. Sargent, New Haven, Conn.
- 100,195.—LOCK.—Zebadiah Sargent, Rochester, N. H.
- 100,196.—SEPARATOR TO BE USED IN DISTILLING LIQUORS.—George W. Shaw, Buffalo, N. Y.
- 100,197.—APPARATUS FOR TOWING RAFTS, ETC.—E. O. Shephardson, St. Louis, Mo.
- 100,198.—PAPER-BOX MACHINE.—Daniel Simmons, Jun., New York city.
- 100,199.—DITCHER AND GRADER.—J. G. Sisson and Lark Deana, Arcola, Ill.
- 100,200.—HARVESTER RAKE.—E. W. Skinner, Madison, Wis.
- 100,201.—BRAKE AND RATCHET FOR ELEVATING AND LOWERING BUCKETS.—Isaac T. Smith, Richmond, Va.
- 100,202.—NEGATIVE PLATE FOR A "SMEE" BATTERY.—Luther L. Smith, Brooklyn, N. Y.
- 100,203.—STEAM ENGINE GOVERNOR.—William Smith, Philadelphia, Pa.
- 100,204.—RAILWAY CAR COUPLING.—Elias F. Sneider, West Penn, Pa. Antedated February 16, 1870.
- 100,205.—FURNACE.—Thomas Speakman, Camden, N. J.
- 100,206.—SHIFTING BAR FOR SLEIGHS.—A. J. Spencer, Middletown, Conn.
- 100,207.—FASTENING FOR OVERSHOES.—Helen Ekin Starrett, Lawrence, Kansas.
- 100,208.—MANUFACTURE OF GAS FROM PETROLEUM.—Levi Stevens, Washington city, D. C.
- 100,209.—FOLDING CHAIR.—Alexander W. Stewart, Glasgow, Scotland. Antedated August 22, 1869.
- 100,210.—MECHANICAL LEECH.—Frederick A. Stohmann, Brooklyn, N. Y., and Andrew H. Smith, New York city, assignors to Frederick A. Stohmann.
- 100,211.—HEATING AND VENTILATING APPARATUS.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,212.—GRAIN DRIER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,213.—PACKING FOR PISTON RODS.—Charles Thayer and David McPherson, Rome, N. Y.
- 100,214.—WASHER FOR SCREW BOLTS.—Nathan Thompson, Brooklyn, N. Y.
- 100,215.—CORN PLANTER.—E. A. Thrush, New Kingston, N. Y.
- 100,216.—SCREW PROPELLER.—Charles G. Toense, Jersey City, N. J.
- 100,217.—ESCAPEMENT FOR TIME PIECES.—Michael Tromly (assignor to himself and W. L. Hasbrouck), Cincinnati, Ohio.
- 100,218.—SHEATHS.—Friedrich Ulrich, Brooklyn, E. D., N. Y.
- 100,219.—FRUIT LADDER.—James H. Verity, Lansing, Mich.
- 100,220.—AUTOMATIC LATCHES.—Edward Voigt, Philadelphia, Pa.
- 100,221.—GEARING FOR HARVESTERS.—A. H. Wagner, Chicago, Ill.
- 100,222.—MACHINE FOR MAKING HORSESHOES.—James T. Walker, Albany, N. Y.
- 100,223.—SHINGLE MACHINE.—Gustavus Walton, Minneapolis, Minn.
- 100,224.—APPARATUS FOR PRODUCING BUTTER FROM CREAM.—Stanton D. Warner, and Owen W. Thomas, Richmond, Ill.
- 100,225.—CANCELLING STAMP.—Wm. A. Wheeler, New York city.
- 100,226.—HOOK FOR HARNESS.—Abner White, Macon, Ga.
- 100,227.—REVOLVER.—Rollin White, Lowell, Mass.
- 100,228.—BROOM BRACE.—Freeman O. Willey, Wilmette, Ill.
- 100,229.—SAND PAPER HOLDER FOR FINISHING THE SOLES OF BOOTS AND SHOES.—Herbert L. Willis, South Easton, Mass.
- 100,230.—MACHINE FOR MAKING NAILS AND SPIKES.—Thomas Wood, Matteawan, N. Y.
- 100,231.—DITCHER.—C. F. Woodruff, Newbern, Tenn.
- 100,232.—REVERSIBLE PERCOLATOR.—Samuel Woolston, Vincentown, N. J., and Wm. Corfield, Philadelphia, Pa.
- 100,233.—HOOK FOR HARNESS.—Gustav Bernd and Adolph Bernd, Macon, Ga.
- 100,234.—CAP FOR POWDER BOXES USED FOR DOMESTIC PURPOSES.—Henry A. Bartlett, Philadelphia, Pa.
- 100,235.—GRAIN DRYER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,236.—PRESSURE BLOWER WHEEL.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,237.—PRESSURE BLOWER WHEEL.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,238.—HOT-AIR BLOWER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,239.—PRESSURE BLOWER.—B. F. Sturtevant, Jamaica Plain, Mass.

- 100,240.—COMPOUND AIR-HEATER AND STEAM CONDENSER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,241.—COMPOUND AIR-HEATER AND STEAM CONDENSER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,242.—COMPOUND AIR-HEATER AND STEAM CONDENSER.—B. F. Sturtevant, Jamaica Plain, Mass.
- 100,243.—UNITING TUBES TO TUBE SHEETS.—B. F. Sturtevant, Jamaica Plain, Mass.

REISSUES.

- 3,847.—INSULATOR.—Louis A. Cauvet, New York city.—Patent No. 48,906, dated July 25, 1865.
- 3,848.—WEATHER STRIP.—F. C. Gridley, Hudson, Wis.—Patent No. 56,299, dated July 10, 1866.
- 3,849.—MACHINE FOR ENGRAVING CALICO PRINTER'S ROLLERS.—John Hope, Thomas Hope, and Heber Le Favour, Providence county, R. I., assignees, by mesne assignments, of John Hope and Thomas Hope.—Patent No. 13,463, dated August 21, 1855.
- 3,850.—MACHINE FOR BENDING WOOD.—Wm. P. Letchworth, Buffalo, N. Y.—Patent No. 81,095, dated August 18, 1863.
- 3,851.—TILE MACHINE.—F. M. Mattice, Detroit, Mich.—Patent No. 20,286, dated May 18, 1868.
- 3,852.—WRENCH.—The Collins Company, Collinsville, Conn., assignee of Lucius Jordan and Leander E. Smith.—Patent No. 50,364, dated October 10, 1865.

DESIGNS.

- 3,854.—ORNAMENTING GLASSWARE.—Thomas B. Atterbury, Pittsburgh, Pa., assignor to Wm. Doyle, Birmingham, Pa.
- 3,855.—ORNAMENTING GLASSWARE.—John Bryce, Pittsburgh, Pa.
- 3,856.—PIANO CASE.—George H. Davis, Boston, Mass.
- 3,857.—LAMP CHIMNEY.—Edward Foster, Boston, Mass.
- 3,858.—CASTER.—George B. Garrett, Philadelphia, Pa.
- 3,859 to 3,861.—STOVE PLATE.—Nicholas S. Vedder, Troy, N. Y. Three patents.
- 3,862 to 3,866.—STOVE PLATE.—Nicholas S. Vedder, Troy, N. Y., and Tobias S. Heister, Lansingburg, N. Y., assignors to Nicholas S. Vedder. Five patents.
- 3,867.—STOVE PLATE.—Nicholas S. Vedder and Francis Ritchie, Troy, N. Y., assignors to Nicholas S. Vedder.
- 3,868.—PRESSURE GAGE CASE.—Edwin A. Wood, Utica, N. Y.

Inventions Patented in England by Americans.

(Compiled from the "Journal of the Commissioners of Patents.")

PROVISIONAL PROTECTION FOR SIX MONTHS.

- 130.—WOODEN PAVEMENTS AND CUTTING THE BLOCKS THEREFOR.—W. W. Ballard, Elmira, N. Y. January 15, 1870.
- 143.—GAS BURNER.—Augustus Hubbell, Washington, D. C. January 18, 1870.
- 190.—JOURNAL BEARINGS, ETC.—Stuart Gwynn, New York city. January 21, 1870.
- 213.—MOWING AND REAPING MACHINE.—W. N. Yost, F. W. Andrews, L. Stewart, and H. A. Hutson, Pennsylvania, U. S. January 22, 1870.
- 220.—KNITTING MACHINE.—G. H. Harding, New York city, and P. Wright, Glasgow, Scotland. January 25, 1870.
- 221.—ANTI-FRICTION ROLLERS.—W. B. Scott, New York city. January 25, 1870.
- 225.—FURNACE GRATES AND WATER HEATERS.—C. E. Hutson, Commerce, Mo. January 26, 1870.
- 226.—PREPARING SURFACES FOR SKATING IN ALL SEASONS.—M. J. Bucac, New York city. January 26, 1870.
- 261.—MECHANISM FOR SPINNING WOOL.—D. Goff and D. L. Goff, Pawtucket, R. I. January 28, 1870.
- 273.—APPARATUS FOR PRODUCING ROTARY MOTION.—A. G. Waterhouse, San Francisco, Cal. January 31, 1870.
- 294.—SEWING MACHINE NEEDLES AND NEEDLE ARMS.—G. A. Lloyd, San Francisco, Cal. February 1, 1870.
- 297.—WRENCH.—A. G. Coes, Worcester, Mass. February 1, 1870.

APPLICATIONS FOR EXTENSION OF PATENTS.

- LOCK.—William Henry Akins, Ithaca, N. Y., has applied for an extension of the above patent. Day of hearing April 27, 1870.
- CONTINUOUS SHEET METAL LATHING SURFACE.—John B. Cornell, New York city, has petitioned for an extension of the above patent. Day of hearing April 27, 1870.
- VENTILATING DAMPER FOR STOVES.—John Magee, Chelsea, Mass., has petitioned for the extension of the above patent. Day of hearing May 4, 1870.
- GRINDING CIRCULAR SAWS.—William Clemens, Middletown, N. Y., has applied for an extension of the above patent. Day of hearing May 11, 1870.
- COUPLING FOR VEHICLES.—Harvey Miner and Henry M. Stevens, New York city, and Mary Saunders, Hastings, N. Y., executrix of William H. Saunders, deceased, have petitioned for an extension of the above patent. Day of hearing May 11, 1870.
- ELASTIC BOTTOMS FOR CHAIRS AND OTHER ARTICLES.—Lysander Spooner, Boston, Mass., has applied for an extension of the above patent. Day of hearing May 18, 1870.

NEW BOOKS AND PUBLICATIONS.

METAL TRADES' DIRECTORY. Symonds, Wentworth & Co., No. 19 Central street, Boston, Mass., will publish, early the ensuing spring, a directory of the iron, steel, and hardware and metal trades, and their collateral branches of business; it will embrace a complete list of the manufacturers, importers, wholesale and retail dealers, jobbers, commission merchants, and brokers of iron, steel, and hardware, and builder's hardware, tools, agricultural implements, machinery, stoves, castings, wire, tinman's supplies and tools, railway, steamboat, machine and carriage maker's supplies, saddlery, hardware, safes, locks, steam and gas fixtures, cabinetmaker's and undertaker's trimmings, firearms, cutlery, plumber's materials, and all goods manufactured in whole or in part from the baser metals. The publishers desire the address of the machinists, iron founders, and metal workers and dealers throughout the country.

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