

METHOD OF SECURING CUTTERS TO ROTARY DISKS.—Jonah Newton, of New York city, has applied for an extension of the above patent. Day of hearing May 31, 1869.

WATER METER.—Henry R. Worthington, of Greensburg, N. Y., has petitioned for an extension of the above patent. Day of hearing, June 28, 1869.

MACHINE FOR PUNCHING METAL.—George Fowler, of Seymour, Conn., has petitioned for the extension of the above patent. Day of hearing, June 7, 1869.

Business and Personal.

The Charge for Insertion under this head is One Dollar a Line. If the Notices exceed Four Lines, One Dollar and a Half per line will be charged.

India-rubber articles of every description for inventors and others, furnished by W. G. Vermilye, 6 Park Place, New York.

W. Knight, M.D., of Demerara, British Guiana, wants to purchase paper-pulp machinery of the most approved construction. Address as above.

"Broughton's" Lubricators are more economical of oil, and every way better than any others in the market. Address, for circulars, H. Moore, 41 Center st., New York, Manufacturer.

A Civil and Mechanical Engineer, having had 15 years experience, desires an engagement. Address Engineer, Crooks' Hotel, Chatham st., New York.

Manufacturers of stationary and portable engines please send circulars with lowest cash prices to S. Noys, Lock Box 18, New Orleans.

Wanted—A small second-hand iron planer, either hand or power. Address Melone & McCune, Mt. Gilead, Morrow county, Ohio.

The magnetic needle threader is sold by M. C. Munson, Washington, D. C., price 25 cents. It consists of a small horseshoe magnet, with grooves and perforations for the needle eye. An emery cushion and eyelet point also attached.

For sale—The best propelling wheel for canal boats or boats of shallow or swift waters. Address H. T. Fenton, Waterst., Cleveland, O.

200 bars 1-in. octagon tool steel, best quality, for sale.—The lot at 14 cents per lb. Sweet, Barnes & Co., Syracuse, N. Y.

Rare chance for agents. D. L. Smith, Waterbury, Conn.

The Tanite Emery Wheel.—For circulars of this superior wheel, address "Tanite Co.," Stroudsbury, Pa.

Money Plenty—To patent and introduce valuable inventions for an interest in them. National Patent Exchange, Buffalo, N. Y.

H. C. Sandusky & Co., General Agents for the sale of patents. Rights, territory, and patented articles sold on commission, 12 Mill st. opposite Postoffice, Lexington, Ky.

Peck's patent drop press. For circulars, address the sole manufacturers, Milo Peck & Co., New Haven, Ct.

Mill-stone dressing diamond machine, simple, effective, and durable. Also, Glazier's diamonds. See advertisement.

Keuffel & Esser's, 71 Nassau st., New York, the best place to get first-class drawing materials.

Agency Wanted—by a responsible party, who has good store room. Best reference. C. E. Roberts, 138 Lincoln st., Boston, Mass.

Saw Gummers, improved upsets, and other saw tools, manufactured by G. A. Prescott, Sandy Hill, N. Y. Send for a circular.

Mechanical Draftsman Wanted—A thoroughly competent man, on iron-bridge work. Bring specimens and testimonials. Salary \$3 to \$4 per day. J. H. Linville, 425 Walnut st., Philadelphia, Pa.

Gear-cutting Engine for sale. A new machine with large index table. Also, worm arrangement with full set change gear, accurately adjusted. Address Wm. M. Hawes & Co., Fall River, Mass.

One hundred horse power Corliss steam engine for sale in good order. Address W. B. Le Van, Machinist, 24th and Wood sts., Philadelphia.

Etching on saw blades—A cheap and rapid process wanted, to take the place of stamping name, etc. Must be small and neat throughout, and duplicate of each other. Woodrough & McParlin, Cincinnati, Ohio.

"Broughton's" Oilers are the best. Manufactory 41 Center st.

Inventors' and Manufacturers' Gazette—a journal of new inventions and manufactures. Profusely illustrated. March No. out. \$1 per year. Sample copies sent. Address Saltiel & Co., Postoffice box 448, or 37 Park Row, New York City.

The manufacture and introduction of sheet and cast metal small wares is made a specialty by J. H. White, Newark, N. J.

The Magic Comb will color gray hair a permanent black or brown. Sent by mail for \$1.25. Address Wm. Patton, Treasurer Magic Comb Co., Springfield, Mass.

For coppered iron castings address J. H. White, Newark, N. J.

W. J. T.—We think the patent asbestos roofing manufactured by H. W. Johns, of this city, is the best substitute for tin or slate. It is cheap and easily applied.

Tempered steel spiral springs. John Chatillon, 91 and 93 Cliff st., New York.

For solid wrought-iron beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.

Iron.—W. D. McGowan, iron broker, 73 Water st., Pittsburgh, Pa.

Machinists, boiler makers, tinnerns, and workers of sheet metals read advertisement of Parker Brothers' Power Presses.

Diamond-pointed or edged tools for mining, working stone, or other hard substances. See advertisement, page 207.

Winans' boiler powder, N. Y., removes and prevents incrustations without injury or foaming; 12 years in use. Beware of imitations.

The paper that meets the eye of all the leading manufacturers throughout the United States—The Boston Bulletin. \$4 a year.

Recent American and Foreign Patents.

Under this heading we shall publish weekly notes of some of the more prominent home and foreign patents.

STOVE.—John H. Roelker, Evansville, Ind.—The object of this invention is to improve the construction of cooking stoves in such a manner that when the "fire bottom" burns out and has to be thrown away, the whole of it need not be thus rendered useless, but the burnt portion can be removed and another piece, of similar construction, substituted in its place, while the hearth and other portions, not destroyed, remain undisturbed.

GIG SAW.—Isaiah B. Arthur, Sidonsburgh, Pa.—This invention has for its object a new and improved arrangement of the parts by which a gig saw is put in motion, whereby the machine is rendered easier of operation than heretofore.

DEVICE FOR CONVERTING ROTARY INTO RECIPROCATING RECTILINEAR MOTION.—Chas. F. Hadley, Chicopee, Mass.—The nature of this invention consists in the arrangement of means whereby a rotary may be converted into an even and continual reciprocating rectilinear motion, forming a substitute for the crank.

MOP HEAD.—John Fahrney, Boonsboro, Md.—The object of this invention is to provide for public use a neat, simple, and durable mop head, to which the mop can be instantaneously attached without the necessity of stooping or touching it with the hands, even though the mop, at the time, be lying on the floor or in the wash tub.

COMBINED WHIP SOCKET AND LINE HOLDER.—Joseph R. Finney, Youngstown, Ohio.—The object of this invention is to provide a neat, cheap, and convenient device which shall serve both as a whip holder and rein holder, being attached, for that purpose, to any convenient part of the carriage.

FLEXIBLE HARROW.—Charles Lane and Jesse M. Healy, Jamestown, N. Y.—This invention relates to a new harrow, which is composed of parallel bars, connected by means of jointed bolts so as to produce a flexible harrow which will adapt itself to uneven ground much better than a solid or stiff harrow, and which will be easier handled, and occupy less room, when packed away, than the ordinary harrows now in use.

TOILET MIRROR.—L. H. Rogers, Boston, Mass.—This invention relates to a new toilet mirror of that class, in which a portion can be swung out to reflect into the main mirror the reverse of the figure placed between the two, and the invention consists in a novel manner of connecting the main with the reflecting mirror, whereby the latter can be swung any desired distance from the main mirror, and turned in any desired direction, or placed above the main mirror, as may be required.

DOUBLE COOLER.—Judson Van Duzer, Otisville, N. Y.—This invention relates to a new cooler which can be used for two kinds of liquids at once, so that, for example, beer and water, or any other two kinds of liquor can, at the same time, be cooled therein. The invention consists in arranging around the main cylindrical ice and water receptacle, and within the outer shell, an annular vessel, which is to contain the second kind of liquid, so as to keep it cool and fresh.

POTATO MASHER.—William Zeiger, Elmore, Ohio.—This invention relates to a new device for mashing boiled potatoes, so that the same will be thoroughly and properly transformed into a pasty substance without any difficulty or inconvenience. The apparatus is a cylindrical shell, with a hopper-shaped upper end; a grinder is arranged within the cylinder, carrying cutters in the hopper, stationary cutters being arranged in the latter. As the cylinder is turned, the potatoes will be cut into small pieces in the upper, and ground or mashed in the lower part of the vessel, so as to be discharged through a proper spout in the desired state. The stationary cutters are made removable, so that the whole apparatus can be taken apart for cleaning purposes.

TEA-POT.—C. H. Reynolds and George Z. Clark, Croton Falls, N. Y.—The object of this invention is to provide means for removing the leaves of tea from the entrance to the spout of the teapot, and it consists in arranging a spring scraper in the inside of the pot.

LIFTING JACK.—James Dampman, Lebanon, Pa.—This invention has for its object to furnish a simple, convenient, and effective lifting jack, by means of which weights may be quickly and readily raised, and held till secured or made ready to be again lowered to their places.

TRACE CARRIER.—James H. Harris, Vermont, Ill.—This invention relates to an attachment to harnesses for holding and carrying the traces or tugs when the team is detached from the wagon or carriage, and consists in a ring, which, in connection with a plate and hooks, forms a portion of the harness fastening.

CHURN.—William M. Rumrill, Roanoke, Ind.—This invention has for its object to furnish an improved churn dasher, which shall be so constructed and arranged as to bring the butter quicker and in greater quantities than in ordinary churns, and at the same time gathering it as it is developed from the cream.

THILL SHIFTER.—S. Jennings, Patterson, N. Y.—This invention has for its object to furnish an improved means of connecting the thills to the sleigh, which shall be strong, durable, and simple in construction, and at the same time so constructed that the thills may be shifted from a side to a central draft, or the contrary, with one hand, while the horse is attached or even while he is in motion.

COTTON PRESS.—C. W. Miller, Monticello, Ark.—The object of this invention is to provide a simple, effective, and easily operated press for baling cotton and other analogous matter for which it may be found applicable.

FORMER FOR MAKING UPHOLSTERING CONE SPRINGS.—William A. Goodale, Colton, N. Y.—This invention has for its object to furnish an improved machine for forming or turning upholstery cone springs, which shall be simple in construction and effective in operation, forming the springs quickly and accurately.

BUNG CUTTER.—Benjamin and Frederick Geyler, Cincinnati, Ohio.—This invention relates to improvements in cutter heads, whereby they may be readily adjusted to cut them of any desired size, and the cutting tools may be fed up to the work with facility.

WELT KNIFE.—M. J. Ferren, Stoneham, Mass.—This invention relates to improvements in welt knives designed to provide an adjustable cutter which may be changed in its position, as may be required, and also be readily removed for sharpening or other purposes.

KNITTING MACHINE.—Wm. Franz and Wm. Pope, Christline, Ohio.—This invention relates to improvements in knitting machines, by which it is designed to provide a convenient and simple arrangement whereby a part of the needles of a rotary knitting machine may be thrown out of action to admit of narrowing and widening for forming the heels and toes of stockings, or for knitting other flat fabrics or fabrics in strips, also an improved method of forming the heels and toes of stockings.

FASTENING FOR OPEN HORSE COLLARS.—Mr. John A. Meyer, Dutch Creek, Washington Co., Iowa, has invented a simple device for strengthening, keeping in form and place, and fastening horse collars. It is a tempered steel spring encircling the collar, to be placed either inside the collar rim, or on the outside in the hames. The upper ends of the spring are formed into hooks for the reception of a strap or link when the collar is in use. The collar can thus be fastened or unfastened instantly, without the use of strap and buckle, and when the collar is removed the spring keeps it in shape, preventing the liability to break. It may be applied to collars now in use and can be made by any ordinary blacksmith. Its cost is slight, but its advantages great. Those interested may address the patentee as above.

EXTENSION TABLE.—Lambert Freeman, New York city.—This invention has for its object to furnish a simple and convenient extension table which shall be so constructed that it may be extended much or little, as may be desired, and which will be firmly supported however much it may be extended, and whether extended at one or both ends.

GATE.—E. J. Wolfgang and J. W. Kenrelgh, Salem, Ohio.—This invention has for its object to furnish a simple and convenient gate, which shall be so constructed and arranged that it may be easily and readily opened and closed by those passing through, without being necessary for them to get out of the carriage.

REELS FOR HARVESTERS.—J. R. Jones, Clarksville, Iowa.—This invention relates to improvements in reels for harvesters, and consists in an arrangement whereby the beaters may be readily changed from one position to another for acting on the grain to straighten it or incline it to the right direction, when it leans in any direction tending to make it cut disadvantageously.

FLOUR SIFTER.—James Coyle, Boston, Mass.—This invention relates to improvements in flour sifting apparatus, such as are used for sifting and pulverizing the flour previous to cooking.

PRINTERS' GALLEY.—Edwin Hutchins, Hartford, Conn.—This invention relates to improvements in printers' galleys, and consists in providing a rest for the same, whereby the bottom thereof will be presented to, and maintained in the same plane with the top of the table to receive the type.

GRAIN BINDING MACHINE.—G. B. Shafer, Delta, Ohio.—This invention relates to improvements in grain-binding attachments for reaping machines, whereby it is designed to provide an attachment, the moving parts of which may be operated from the driving gear of the reaper, to bind up the bundles of grain as they are delivered to it, and discharge them when so bound.

CORN PLANTER.—Daniel P. Leach, Franklin, Ind.—This invention has for its object to furnish a simple, cheap, effective, and accurate corn planter, which shall be so constructed and arranged that it may be easily adjusted to do its work, as the circumstances of the case may require.

NEW PUBLICATIONS.

PLANCHETTE; OR THE DESPAIR OF SCIENCE. Being a full Account of Modern Spiritualism, its Phenomena, and the various Theories regarding it. With a Survey of French Spiritualism. Boston: Roberts Brothers.

This, as its title tells, is a book devoted to the peculiar manifestations of present and past times, which have been called witchcraft, second sight, inspiration, possession, spirit manifestations, etc., etc. It contains an array of facts, the most inexplicable of any that have ever presented themselves to scientific investigation, with the opinions of various writers and thinkers upon the subject.

HOW TO READ CHARACTER. A new Illustrated Hand-Book of Phrenology and Physiognomy, for Students and Examiners, with a Descriptive Chart. New York: S. R. Wells, publisher, 389 Broadway.

TREATISE ON THE POWER OF WATER AS APPLIED TO DRIVE FLOUR MILLS, AND TO GIVE MOTION TO TURBINES AND OTHER HYDROSTATIC ENGINES. By Joseph Glynn, F.R.S., Member of the Institute of Civil Engineers of London. Third edition. Revised and Enlarged with numerous Illustrations. New York: D. Van Nostrand.

This is an eminently practical and useful little book to every one that needs any information upon the subject of which it treats.

HANS BREITMANN'S PARTY. With other Ballads. By Chas. G. Leland.

A volume of these rollicking and sprightly laughter-provoking poems has been issued on heavy tinted paper, by T. B. Peterson & Brothers, Philadelphia. Price, seventy-five cents.

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING MARCH 23, 1869.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES:
On each caveat.....\$10
On filing each application for a Patent (seventeen years).....\$15
On issuing each original Patent.....\$20
On appeal to Commissioner of Patents.....\$20
On application for Reissue.....\$20
On application for Extension of Patent.....\$20
On granting the Extension.....\$50
On filing a Disclaimer.....\$10
On an application for Design (three and a half years).....\$10
On an application for Design (seven years).....\$15
On an application for Design (fourteen years).....\$30
In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$50 on application.

For copy of Claim of any Patent issued within 30 years.....\$1
A sketch from the model or drawing, relating to such portion of a machine as the Claim covers, from.....\$1
upward, but usually at the price above named.

The full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them.....\$1-25
Official Copies of Drawings of any patent issued since 1836, we can supply at a reasonable cost, the price depending upon the amount of labor involved and the number of views.

Full information, as to price of drawings, in each case, may be had by addressing
MUNN & CO.,
Patent Solicitors, No. 37 Park Row, New York

88,002.—MANUFACTURE OF SHEET IRON.—George Atkins (assignor to George W. Westerman, Robert Fox, and Robert May), Sharon, Pa.
88,003.—MANUFACTURE OF BREECH-PLATES FOR GUNS.—Walter Baker, Hlon, N. Y.
88,004.—BREWING.—Edward Beanes, Cordwalles (near Maidenhead), Great Britain.
88,005.—AUTOMATIC BOILER FEEDER.—Julius Boden, Columbia, Pa.
88,006.—ELECTRO-HEATING APPARATUS.—W. Leigh Burton, Richmond, Va. Antedated March 12, 1868.
88,007.—FIFTH-WHEEL FOR VEHICLES.—E. G. Cameron, Tiffin, Ohio.
88,008.—VALVE FOR BOTTOMS OF VESSELS.—Luther S. Chase and Zebina H. Chase, New Bedford, Mass.; said L. S. Chase assigns his right to Z. H. Chase.
88,009.—HAY RAKER AND LOADER.—Robert Chestnut (assignor to himself and George Kelley), Richmond, Ind.
88,010.—TRIPPING MECHANICAL DETENTS.—Stephen Chester, New York city, and Charles T. Chester, Englewood, N. J. Antedated March 4, 1868.
88,011.—COOKING STOVE.—Orson E. Clark, Waterford, Mich.
88,012.—PROJECTILE.—Wm. A. Cobb, Orange, Mass.
88,013.—OAR.—Henry W. Connor, Troy, N. Y.
88,014.—FLOUR SIFTER.—James Coyle, Boston, Mass.
88,015.—LIFTING JACK.—James Dampman, Lebanon, Pa.
88,016.—APPARATUS FOR BUTTER MAKING.—Frederick P. Deuel, Tecumseh, Mich.
88,017.—WRENCH.—L. R. Dexter, Whitefield, N. H.
88,018.—ROAD SCRAPER.—E. L. Dorsey, Winslow, Ind.
88,019.—ROLLER FOR EXTRACTING COCKLE FROM WHEAT.—Wm. G. Douglas, Warrenton, Va.
88,020.—MOLD FOR CASTING PIPE.—Jacob Edson, Boston, Mass.
88,021.—BRIDLE BIT.—Alfred B. Ely, Newton, Mass.
88,022.—BOOK HOLDER.—Freeman Emmons, Danvers, Mass.
88,023.—STRAW CUTTER.—Samuel F. Estell, Richmond, Ind.
88,024.—WELT KNIFE.—Myron J. Ferren, Stoneham, Mass.
88,025.—CULTIVATOR PLOW.—Simeon B. Forbes, Steubenville, Ohio.
88,026.—MACKEREL LATCH.—Charles S. H. Foster, Deer Isle, Me.
88,027.—KNITTING MACHINE.—William Franz and William Pope, Crestline, Ohio.
88,028.—EXTENSION TABLE.—Lambert Freeman, New York city.
88,029.—LAST MACHINE.—Roscoe R. Frohock, Boston, Mass.
88,030.—BUNG CUTTER.—Benjamin Geyler and Frederick Geyler, Cincinnati, Ohio.
88,031.—MAKING CONE SPRINGS.—William H. Goodale, Colton, N. Y.
88,032.—FAUCET.—Daniel W. Green (assignor to William Brundage), Port Chester, N. Y.
88,033.—CIGAR AND CIGARETTE.—Thomas Griffin, Roxbury, Mass.
88,034.—CULTIVATOR.—Anthony Grohmann, South Saginaw, Mich.
88,035.—MACHINE FOR CONSTRUCTING VEGETABLE MEMBRANE.—Stuart Gwynn, New York city.

88,036.—VEGETABLE MEMBRANE, OR PARCHMENT.—Stuart Gwynn, New York city.
88,037.—SLATE-PUNCHING AND CUTTING MACHINE.—L. M. Ham, Boston, Mass.
88,038.—TRACE CARRIER.—J. H. Harris, Vermont, Ill.
88,039.—SEWING MACHINE.—M. C. Hawkins (assignor to himself and A. Z. Waters), Edinborough, Pa.
88,040.—MECHANICAL MOVEMENT.—Henry R. Huling (assignor to himself and John M. Marston), Boston, Mass. Antedated March 10, 1868.
88,041.—PRINTERS' GALLEY.—Edwin Hutchings, Hartford, Conn.
88,042.—THILL SHIFTER.—S. Jennings, Patterson, N. Y.
88,043.—HARVESTER REEL.—J. R. Jones, Clarksville, Iowa.
88,044.—FLY TRAP.—John H. Kiplinger and Joseph Kiplinger, North Manchester, Ind.
88,045.—CULTIVATOR.—Henry Landes, Bath, Pa.
88,046.—HARROW.—Charles Lane and Jesse M. Healy, Jamestown, N. Y.
88,047.—HYGIEOMETER.—Benjamin M. Lawrence, Galesburg, Ill.
88,048.—CORN PLANTER.—Daniel P. Leach, Franklin, Ind.
88,049.—SASH-FASTENING AND HOISTING DEVICE.—A. W. Livingstone, Bluffton, Ind.
88,050.—BOOT.—John H. Livingston, Providence, R. I.
88,051.—HOE.—James F. Lowe, Louisville, Ky.
88,052.—PADDLE WHEEL.—William R. Manley (assignor to himself and Wm. H. Webb), New York city.
88,053.—CHAMFERING MACHINE.—Benj. F. Mattox and Sidney Corson, West Ridge, Ill.
88,054.—PORTABLE BATH TUB.—Robert McCully, Philadelphia, Pa.
88,055.—RAILROAD CAR HEATER.—F. McManus, Ellenburg Center, N. Y.
88,056.—CHURN.—Charles Messenger, Cleveland, Ohio. Antedated March 9, 1868.
88,057.—COMBINED COAT HOOK AND LINE HOLDER.—Wm. A. Middleton, Harrisburg, Pa. Antedated March 12, 1868.
88,058.—BEE FEEDER.—Peter Miller, Jr., Fredonia, N. Y.
88,059.—COTTON PRESS.—C. W. Miller, Monticello, Ark.
88,060.—PENCIL HOLDER.—J. L. Moore, Bridgeport, Conn.
88,061.—APPARATUS FOR TRANSMITTING ROTARY MOTION.—Samuel Bodman Morgan, Philadelphia, Pa. Antedated March 18, 1868.
88,062.—AUTOMATIC FAN.—John Naugle, Mooresville, Ind.
88,063.—DEVICE FOR TURNING LOGS IN MILLS.—Isaac H. Newton, Grand Rapids, Mich. Antedated March 19, 1868.
88,064.—PROCESS OF PREPARING FISH FOR FOOD.—Joseph Nickerson, Boothbay, Me.
88,065.—HAND-SPINNING MACHINE.—Francis M. Nixon (assignor to himself, William Leet, William Dixon, and Jacob S. Best), Lena, Ill.
88,066.—GLASS FURNACE.—Samuel Oakman, Boston, Mass.
88,067.—HORSE HAY FORK.—Oscar Paddock, Watertown, N. Y.
88,068.—MONEY DRAWER.—Carlos L. Page, Cambridge, Mass.
88,069.—WATER ELEVATOR.—C. D. Palmiter (assignor to himself and Lavinia P. Webb), Oswego, N. Y.
88,070.—SPRING BED-BOTTOM.—Byron Partello, Detroit, Mich.
88,071.—FRUIT GATHERER.—Hiram Perry, Manlius, N. Y.
88,072.—CRUCIBLE FOR MELTING METALS.—Edw. R. Playle, Great Bend, Pa.
88,073.—CASE FOR MELODEONS, ETC.—Geo. Sanford Randall, Providence, R. I. Antedated Sept. 23, 1868.
88,074.—GRAPE TRELLIS.—Alvin Rathbun, Smith's Mills, N. Y.
88,075.—COMPOSITION FOR KINDLING FIRES.—Abraham Reed, Louisville, Ky.
88,076.—TEAPOT.—C. H. Reynolds and Geo. Z. Clark, Croton Falls, N. Y.
88,077.—TOILET MIRROR.—L. H. Rogers (assignor to himself and George A. Rogers), Boston, Mass.
88,078.—CHURN.—William M. Rumrill, Roanoke, Ind.
88,079.—APPARATUS FOR GENERATING GAS, AND HEATING DWELLINGS AND OTHER BUILDINGS.—S. C. Salisbury, New York city.
88,080.—FURNACE FOR UPRIGHT STEAM-GENERATORS.—Silas C. Salisbury, New York city.
88,081.—FURNACE FOR HORIZONTAL STEAM GENERATORS.—S. C. Salisbury, New York city.
88,082.—REVERBERATORY FURNACE.—S. C. Salisbury, New York city.
88,083.—BLAST, SMELTING, AND CUPOLA-FURNACES.—Silas C. Salisbury, New York city.
88,084.—FURNACE FOR HEATING AND ANNEALING STEEL INGOTS, ETC.—S. C. Salisbury, New York city.
88,085.—TELEGRAPH APPARATUS.—John E. Selden, Albany, N. Y.
88,086.—MODE OF POLISHING HARD RUBBER AND OTHER ARTICLES.—W. F. Semple and B. W. Stephens, Mount Vernon, Ohio.
88,087.—GRAIN BINDER.—G. B. Shater, Delta, Ohio.
88,088.—POTATO DIGGER.—Isaiah Shaw, Four Corners, Md.
88,089.—WASHING MACHINE.—John P. Simmons, Schoolcraft, Mich. Antedated March 18, 1868.
88,090.—SUSPENDED PORTABLE FENCE.—Alonzo Skinner, Warren, assignor to L. A. Skinner, West Novi, Mich.
88,091.—KNIFE HEAD FOR HARVESTERS.—H. A. Soliday, Doylesburg, Ohio.
88,092.—MACHINE FOR HACKLING CORN HUSKS.—George B. Stacy, Richmond, Va.
88,093.—APPARATUS FOR TURNING LOGS.—L. J. Stannard and M. L. Perry, Newark, N. Y.
88,094.—RULE CLAMP.—D. H. Stephens, Riverton, Conn.
88,095.—CHURN.—J. H. Stephens, Orange Court House, Va.
88,096.—MILK COOLER.—J. C. Thayer, Dunton, Ill.
88,097.—CLOTHES PIN.—Chas. N. Tyler, New York city.
88,098.—DOUBLE COOLER.—Judson Van Duzer, Otisville, N. Y.
88,099.—BUTTON.—W. W. Wade, Medford, Mass. Antedated March 8, 1868.
88,100.—MANUFACTURE OF CHAINS.—Wm. B. Wadsworth, Cleveland, Ohio. Antedated March 8, 1868.
88,101.—Cancelled.
88,102.—MANUFACTURE OF PAPER.—Z. C. Warren (assignor to H. C. Hulbert), Brooklyn, N. Y.
88,103.—STEAM TRAP.—Jos. E. Watts, Lawrence, Mass.
88,104.—CONDUIT FOR INVALID CHAIRS.—Geo. Wells, Bethel, Conn. Antedated March 11, 1869.
88,105.—SHOW BOTTLE.—Henry Whitney, East Cambridge, Mass.
88,106.—ALARM BELL.—Chas. Wiley, Hannibal Center, N. Y.
88,107.—HAT.—David Wilcox (assignor to himself, W. H. Slocum, and W. A. Brown), Boston, Mass.
88,108.—GATE.—E. J. Wolfgang and J. M. Kenreigh, Salem, Ohio.
88,109.—PLANE GUIDE.—John Woodville, Cincinnati, Ohio.
88,110.—CLOTHES WRINGER.—John Young, Amsterdam, N. Y.
88,111.—POTATO MASHER.—Wm. Zeiger, Elmore, Ohio.
88,112.—COOKING SPOVE.—J. J. Anderson, Rochester, Pa.
88,113.—DOOR KEY.—Wm. H. Andrews (assignor to Burton Mallory), New Haven, Conn.
88,114.—GIG SAW.—Isaiah B. Arthur, Sionsburg, Pa.
88,115.—MILKING STOOL.—Ira Barrows, Hermon, N. Y.
88,116.—HAT.—J. P. Beatty, Norwalk, Conn. Antedated Feb. 2, 1869.
88,117.—SPRING.—E. U. Benedict, Chicago, Ill.
88,118.—COOP FOR POULTRY.—S. S. Bent, Port Chester, N. Y. Antedated March 22, 1869.
88,119.—MACHINE FOR CLEANING STABLES.—D. S. Bigler, and Wm. N. McCracken, Monaghan township, Pa.
88,120.—VELOCIPEDE.—John B. Blair, Philadelphia, Pa.
88,121.—AUXILIARY TABLE.—Jas. Blake (assignor to Blake and Company), Scranton, Pa.
88,122.—BUT HINGE.—Etienne Boileau and Chas. Mesnier, St. Louis, Mo.
88,123.—CLOTHES DRYER.—R. H. Boughner, East Germantown, Ind.
88,124.—ELEVATING AND WEIGHING APPARATUS.—James H. Brookmire, St. Louis, Mo.
88,125.—BLACKSMITHS' SWAGE.—G. W. Brown (assignor to himself and A. T. Gifford), Providence, R. I.
88,126.—MEAT CHOPPER.—C. N. Brumm, Minersville, Pa.
88,127.—HAY RAKE.—R. I. Burbank, Boston, Mass.

88,128.—BLACKING BOX.—Richard Cadle, Shawneetown, Ill.
88,129.—SASH LOCK AND BOLT.—L. O. Cameron, Allegheny City, Pa.
88,130.—CAR COUPLING.—Richard Campion and J. W. Thomson, Jr., Camden, N. J.
88,131.—BOOT.—M. F. Chandler, Boston, Mass.
88,132.—EXTENSION TABLE.—Giacomo Chelini, Washington, D. C.
88,133.—KNOB LATCH.—A. B. Clemons, Ansonia, Conn.
88,134.—MEDICINE FOR CURE OF RING BONE, SPAVIN, ETC.—W. A. Cleveland, Waterville, N. Y.
88,135.—PLASTERING MACHINE.—J. L. Coburn, Mineral Point, Wis.
88,136.—CULTIVATOR.—Alex. Connolly, Milan, Ind.
88,137.—BOLT FEEDER.—Jacob Cornwell (assignor to himself, D. B. Merrill, and W. H. McCourtie), Kalamazoo, Mich.
88,138.—SCOOP.—Wm. Craine, South Brookfield, N. Y.
88,139.—COMPOSITION PAVEMENT.—J. P. Cranford, Brooklyn, N. Y.
88,140.—LAMP FOR DESTROYING INSECTS.—Geo. C. Cranston, South Bend, Ind.
88,141.—PILES.—S. B. Cushing, Providence, R. I.
88,142.—TEMPERING STEEL SPRINGS.—Joseph H. Deniger, Bridgeport, Conn.
88,143.—CUTTER FOR TONGUING AND GROOVING.—D. C. Devall, New York city, assignor to J. B. Schenck, Matteawan, N. Y.
88,144.—CLOVER HARVESTER.—Paul Dismukes, Gallatin, Tenn.
88,145.—BLIND WIRING MACHINE.—W. F. Dodge, Newark, N. J.
88,146.—SOFA BEDSTEAD.—Jacob Dourson, Columbus, Ohio.
88,147.—FLOOD FENCE.—Zachariah Dowden and C. T. Anderson, Clarksburg, Md.
88,148.—CHURN.—S. D. Edgar, Dayton, Ohio.
88,149.—ADJUSTABLE POLE ATTACHMENT FOR CARRIAGES.—H. F. Edwards (assignor to himself and E. I. Peabody), Worcester, Mass.
88,150.—MOP HEAD.—John Fahrney, Boonsborough, Md.
88,151.—VELOCIPEDE.—H. J. Ferguson, Whiting, N. J.
88,152.—SHUTTER FASTENING.—W. C. Fisher, Charlestown, Mass.
88,153.—SPRING BED BOTTOM.—Mark Flanigan, Detroit, Mich.
88,154.—RAILWAY CAR WHEEL.—A. C. Fletcher, New York city.
88,155.—CAR SPRING.—A. C. Fletcher, New York city.
88,156.—HARVESTER RAKE.—J. S. Fowler, Davenport, Iowa.
88,157.—BEEHIVE.—J. J. Frey and A. J. Frey, Hook's Point, Iowa.
88,158.—FOLDING BEDSTEAD.—M. B. Goodell, Worcester, Mass.
88,159.—HOLDBACK.—D. A. Gorham, Norway, Me.
88,160.—WATER RESERVOIR FOR COOKING STOVES.—C. O. Greene, Troy, N. Y.
88,161.—BRECH-LOADING FIREARM.—J. D. Greene, Cambridge, Mass.
88,162.—ROTATING OSCILLATING STEAM VALVE.—C. F. Hadley, Chicopee, Mass., assignor to Clifford Arrick, St. Clairsville, Ohio.
88,163.—DEVICE FOR CONVERTING ROTARY INTO RECIPROCATING RECTILINEAR MOTION.—C. F. Hadley, Chicopee, Mass., assignor to C. Arrick.
88,164.—SASH HOLDER.—J. W. Hansel, Peoria, Ill.
88,165.—PAPER BOX.—A. B. Hendryx, Ansonia, Conn.
88,166.—CLAY MOLDING MACHINE.—Robert Hill, St. Louis, Mo.
88,167.—KNIFE SCOURER AND SHARPENER.—Daniel Hodgkins, Newburyport, Mass.
88,168.—AUTOMATIC BOILER FEEDER.—John Holtz, Baltimore, Md.
88,169.—PAPER SIZING.—J. E. Hover, Philadelphia, Pa.
88,170.—STEERING APPARATUS.—P. H. Jackson, New York city.
88,171.—POWDER FOR BLASTING AND OTHER PURPOSES.—W. H. Jackson, Salem, Mass., assignor to G. B. Upton, D. D. Stackpole, and S. H. Gookin.
88,172.—SHEARS.—P. N. Jacobus, Flatbrookville, N. J.
88,173.—MANUFACTURE OF IRON AND STEEL.—Jacob Jameson, Philadelphia, Pa.
88,174.—TOY HOOP.—C. C. Johnson, Springfield, Vt.
88,175.—CLOTHES-LINE FASTENER.—Job Johnson, S. J. Smith, and Simon Ingersoll, Brooklyn, N. Y., assignors to Job Johnson and S. J. Smith.
88,176.—SAW GUMMER.—Nelson Johnson, Jasper, N. Y.
88,177.—SAW SWAGE.—Nelson Johnson, Jasper, N. Y.
88,178.—LOCOMOTIVE DRIVE WHEEL.—W. J. Johnson, New Orleans, La.
88,179.—CORD TIGHTENER FOR CURTAIN FIXTURES.—H. L. Judd, Brooklyn, N. Y.
88,180.—BLOCK FOR HOLDING STEREOTYPE PLATES.—A. N. Kellogg, Chicago, Ill.
88,181.—BRIDGE.—J. J. Kelly, Slippery Rock, Pa.
88,182.—PROCESS OF MANUFACTURING SHEET IRON.—T. K. Bolton, Cleveland, Ohio, executor of S. H. Kimball, deceased.
88,183.—RAILROAD CAR HEATER.—G. S. Koontz, Washington, D. C., and Edward Potts and McLeod D. Lewis, Baltimore, Md.
88,184.—CENTRIFUGAL DRAINING MACHINE.—H. W. Lafferty and Robert Lafferty, Gloucester City, N. J.
88,185.—CENTRIFUGAL SUGAR-DRAINING MACHINE.—H. W. Lafferty and Robert Lafferty, Gloucester City, N. J.
88,186.—DOOR BUTTON.—Thomas Lincoln and Geo. Hubbard, New Haven, Conn.
88,187.—TELLURIUM.—Marshall Long, New York city.
88,188.—CARPET-CLEANING MACHINE.—Theodor Luke, St. Louis, Mo.
88,189.—CAR COUPLING.—I. V. Lynn and W. J. Lynn (assignors to themselves, J. J. McCormick, and W. D. Baker), Pittsburgh, Pa.
88,190.—CONSTRUCTION OF REFRIGERATORS.—L. H. Mace and F. S. Gwyer, New York city.
88,191.—METALLIC CARTRIDGE.—Edwin Martin, Springfield, Mass., assignor to himself, S. W. Porter, and J. F. Cranston.
88,192.—BREAST STRAP SLIDE.—John H. Martin, Columbus, Ohio.
88,193.—WASH BOILER.—A. McDaniel, Dubuque, Iowa.
88,194.—STREET SWEEPER.—J. W. McDonald, Chicago, Ill.
88,195.—HARROW.—Samuel Mendenhall, Muncy Station, Pa.
88,196.—FIFTH WHEEL.—Wm. Munson, Abington, Pa.
88,197.—WALKING DOLL.—A. W. Nicholson, Brooklyn, N. Y.
88,198.—VELOCIPEDE.—W. L. Paine, Boston, Mass.
88,199.—POTATO DIGGER.—Chester Palmer, Willoughby, Ohio.
88,200.—ROLLER STOP FOR WINDOW SHADES.—I. E. Palmer, Hackensack, N. J.
88,201.—WASHING MACHINE.—F. D. Paradis, Chicago, Ill.
88,202.—CARTRIDGE.—W. F. Parker, Meriden, Conn.
88,203.—SELF-REGISTERING LUMBER MEASURE.—D. E. Pease and George Richards, Richland Center, Wis.
88,204.—OPERATING VALVES OF STEAM ENGINES.—Hart F. Pease, Brooklyn, N. Y. Antedated March 15, 1869.
88,205.—VELOCIPEDE.—R. H. Plass, New York city.
88,206.—LAMP-SHADE HOLDER.—J. T. Pope, New York city.
88,207.—CONSTRUCTION OF RAILWAY WHEELS.—James Rae, London, England, and George Miller, Glasgow, Scotland.
88,208.—MANUFACTURE OF IRON AND STEEL.—John Ralston, A. L. Thomas, and Wm. Parkinson, Tapaugua, Pa.
88,209.—HARVESTER.—Amos Rank, Salem, Ohio.
88,210.—NERVING BRIDLE.—J. V. Reardon, Elkton, Md. Antedated March 11, 1869.
88,211.—SHEEP RACK.—Shelby Reed, Scottsville, N. Y.
88,212.—CHALK LINE SPOOL.—J. E. Richardson, Lowell, Mich. Antedated March 18, 1869.
88,213.—GRATE FOR COOKING STOVE.—J. H. Roelker, Evansville, Ind.
88,214.—BOLT-HEADING MACHINE.—John Root (assignor to himself and McLagon and Stevens), New Haven, Conn.
88,215.—METER.—S. P. Ruggles, Boston, assignor to J. H. Sheel, Waltham, Mass.
88,216.—CRUSHING AND GRINDING MACHINE.—J. W. Rutter, St. Louis, Mo.
88,217.—CLUTCH FOR SLAUGHTERING PURPOSES.—Richard Savage, Chicago, Ill.

88,218.—APPARATUS FOR EVAPORATING MEDICINES IN TREATING DISEASES.—E. O. Scharnt, Philadelphia, Pa.
88,219.—SINK.—Wm. Seaman and G. A. Banta, New York city, assignors to Wm. Seaman.
88,220.—WATER CLOSET.—J. H. Seymour, Hagerstown, Md.
88,221.—WATER METER.—Gerard Sickels, Boston, Mass.
88,222.—APPARATUS AND PROCESS FOR EXTRACTING OIL FROM VEGETABLE AND OTHER MATTER.—Thomas Sim and E. S. Hutchinson, Baltimore, Md.
88,223.—FERTILIZER.—Amor Smith, Baltimore, Md.
88,224.—COMPOUND FOR COLORING THE HAIR.—Gibson Smith, Croton Junction, Mass.
88,225.—HARROW.—James Snowdon, Westford, and John Kent, Beaver Dam, Wis.
88,226.—CHURN DASHER.—Orville Sperry and J. W. Hopson, Hartfield, N. Y.
88,227.—LAST HOLDER FOR THE MANUFACTURE OF BOOTS AND SHOES.—M. J. Stein, New York city.
88,228.—METHOD OF VENEERING ARTICLES WITH PYROXYLE.—Leander R. Streeter, Chelsea, assignor to himself and A. B. Ely (trustees), Newton, Mass.
88,229.—DENTISTS' FLASK.—L. R. Streeter, Chelsea, assignor to himself and A. B. Ely (trustees), Newton, Mass.
88,230.—WRENCH.—G. C. Taft (assignor to Loring Coes), Worcester, Mass.
88,231.—WIRE FOR SHOE PEGS.—Elmer Townsend, Boston, Mass.
88,232.—WIRE FOR SHOE PEGS.—Elmer Townsend, Boston, Mass.
88,233.—PLOW.—A. J. Traver, Lisburn, Pa.
88,234.—CORN MARKER.—G. W. Tucker, Eugene, Ill.
88,235.—BEEHIVE.—G. W. Umbaugh, Lima, Ohio.
88,236.—MITER BOX.—C. H. Underwood, Dorchester, assignor to J. A. Dupee, Boston, Mass. Antedated March 18, 1869.
88,237.—CIGAR DRYER.—Oliver Vallandigham, St. Louis, Mo.
88,238.—VELOCIPEDE.—William Van Anden, Poughkeepsie, N. Y.
88,239.—NECK-TIE RETAINER.—Jas. Varley, Hudson City, N. J. Antedated March 15, 1869.
88,240.—CARRIAGE AXLE.—Frederick Volkmann and Augustus Miller, Philadelphia, Pa.
88,241.—FANNING MILL.—W. W. Wait, Richmond, Ind.
88,242.—AXLE BOX.—Lewis Wakefield, Minneapolis, Minn.
88,243.—WASH BOILER.—Samuel J. Wallace, Keokuk, Iowa.
88,244.—CORN PLANTER.—J. P. Ware, Montgomery City, Mo.
88,245.—EXPANDING CHUCK.—Wm. Webb, Watery, Conn.
88,246.—AUTOMATIC BOILER FEEDER.—T. B. Webster, Sekaukus, N. J.
88,247.—ROLLER CLEANER IN SPINNING MACHINES.—Horace Wells, Hopkinton, R. I.
88,248.—AUTOMATIC TRANSMITTING TELEGRAPH APPARATUS.—C. Westbrook, Harrisburg, Pa.
88,249.—GATE.—S. P. Williams, Sheridan, N. Y.
88,250.—MACHINE FOR SPLITTING WOOD.—Wm. L. Williams, New York city. Antedated March 18, 1869.
88,251.—DISH AND CLOTHES WASHER.—G. W. Williamson, Gouldsborough, Pa.
88,252.—FENCE.—J. Q. A. Yonkey and F. M. Rawson, Frankfort, Ind.
88,253.—COMBINED SOWER AND CULTIVATOR.—Martin Woodard, Des Moines, Iowa.
88,254.—HARVESTER.—Geo. W. N. Yost, Corry, Pa.
88,255.—TABLE ATTACHMENT FOR CHAIRS.—Wm. Zimmerman, Bloomington, Ill.
88,256.—ARTISTS' EASEL.—F. W. Bacon, New York city.
88,257.—MACHINE FOR WINDING CLOTH.—G. F. Hargis, Decatur, Ill.
88,258.—PROCESS OF DERIVING USEFUL PRODUCTS FROM GARBAJE, ETC.—W. E. Johnson, Chicago, Ill.
88,259.—LIQUID METER.—J. H. Shedd, Waltham, Mass.
88,260.—COMPOSITION FOR DENTAL PLATES.—L. R. Streeter, Chelsea, Mass., assignor to himself and A. B. Ely, trustees.

REISSUES.

23,826.—Dated May 3, 1859; reissue 3,333.—SKATE FASTENING.—E. H. Barney and John Berry, Springfield, Mass., assignees by mesne assignments, of John Coe, administrator of the estate of John H. Coe, deceased, and W. B. Smith.
78,699.—Dated June 9, 1868; reissue 3,334.—NAIL EXTRACTOR.—J. V. Bogert, New York city, and J. F. Lowell, Boston, Mass., assignees by mesne assignments, of James Tyzick.
42,842.—Dated May 24, 1864; reissue 3,335.—ELECTRO-MAGNETIC TELEGRAPH.—S. F. Day, Ballston Spa, N. Y.
81,799.—Dated Sept. 1, 1868; reissue 3,336.—SULKY PLOW.—J. B. Lewis and J. E. Ullal, Concord, Ill.
75,319.—Dated March 10, 1868; reissue 3,337.—COTTON-BALE TIP.—D. C. Lowber, New York city, and G. L. Laughland, New Orleans, La., assignees by mesne assignments, of Wm. Trowbridge.
87,123.—Dated Feb. 23, 1869; reissue 3,338.—MANUFACTURE OF ILLUMINATING GAS.—Levi Stevens, Washington, D. C.
35,960.—Dated July 22, 1862; reissue 3,339.—SEEDING MACHINE.—G. W. Van Brunt, D. C. Van Brunt, and Hiram Barber, Horicon, Wis., assignees of G. W. Van Brunt.
55,564.—Dated June 12, 1866; reissue 3,340.—HOT-AIR FURNACE.—Allen & Willard, Hartford, Conn., assignees of Edward Webster.
23,721.—Dated April 19, 1859; reissue 368, dated Dec. 20, 1859; reissue 3,341.—STOP COCK.—Erastus Stebbins, Chicopee, Mass.

DESIGNS.

3,404 to 3,407.—STOCKING FABRIC.—Conyers Button, Philadelphia, Pa. Four Patents.
3,408.—STOVE.—J. V. B. Carter, Albany, N. Y.
3,409.—STOVE.—Calvin Fulton, Rochester, N. Y.
3,410.—LABEL.—G. F. Gantz, New York city, assignor to G. F. Gantz & Co.
3,411.—LOCKET.—George Hartje and Lucien S. Jacquin, New York city.
3,412.—BARN-DOOR HANGER.—J. L. Haven, Cincinnati, Ohio.
3,413.—CHAMBER PAIL.—J. S. Jennings, Brooklyn, E. D., N. Y.
3,414.—FLOOR OILCLOTH PATTERN.—C. T. Myer, Bergen, N. J., assignor to E. C. Sampson, New York city.
3,415.—FLOOR OILCLOTH.—C. T. Myer, Bergen, N. J., assignor to E. C. Sampson, New York city.
3,416.—CARPET PATTERN.—V. E. Meyer, Harrison, N. J., assignor to A. Folsom & Sons, Boston, Mass.
3,417 to 3,420.—CARPET PATTERN.—E. J. Ney (assignor to Lowell Manufacturing Co.), Lowell, Mass. Four Patents.
3,421 and 3,422.—BOTTLE STAND OR CASTER.—Wm. Parkin (assignor to Reed & Barton), Taunton, Mass. Two Patents.
3,423.—TOMATO.—W. H. Reed, New York city.
3,424.—TRADE MARK.—R. H. Rice, Newport, R. I.
3,425.—SPOON OR FORK HANDLE.—Geo. Sharp, Philadelphia, Pa.
3,426.—PLATES OF A COOK'S STOVE.—Garrettson Smith and Henry Brown (assignors to W. L. McDowell), Philadelphia, Pa.
3,427.—STOVE.—Isaac Snider, Jas. Woodruff, and J. M. Woodruff, Salem, Ohio.
3,428.—BODY OF A PICKLE JAR.—S. A. Whitney, Glasborough, N. J.
3,429.—FORK OR SPOON HANDLE.—H. C. Wilcox (assignor to Meriden Britannia Co.), Meriden, Conn.
3,430.—TRADE MARK.—Edward Wilhelm (assignor to A. W. Fox & Co.), Buffalo, N. Y.

Inventions Patented in England by Americans.
(Compiled from the "Journal of the Commissioners of Patents.")
PROVISIONAL PROTECTION FOR SIX MONTHS.
504.—MACHINE FOR MAKING SEWING NEEDLES.—Francis W. Mallett, New Haven, Conn. Feb. 15, 1869.
534.—BUT-HINGE.—James Bidwell, San Francisco, Cal. Feb. 20, 1869.
538.—FLOATING VELOCIPEDE.—J. G. Holbrooke, New York city. Feb. 20, 1869.
546.—MANUFACTURE OF IRON AND STEEL.—T. S. Blair, Pittsburgh, Pa. Feb. 22, 1869.
543.—ARTIFICIAL STONE.—Wm. Munroe, Boston, Mass. Feb. 22, 1869.
550.—VELOCIPEDE.—L. B. Flanders, Philadelphia, Pa. Feb. 22, 1869.
551.—SCREW WRENCH.—C. L. Perkins, New York city. Feb. 22, 1869.
564.—FIRE BOXES AND ASHPANS OF LOCOMOTIVE ENGINES.—H. L. Lansin and G. H. Chase, Buffalo, N. Y. Feb. 23, 1869.