

Recent American and Foreign Patents.

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

CORN PLOW.—John A. Walter and Eli Bushman, White House, Pa.—The object of this invention is to improve the construction of corn plows so that they can be more conveniently be adjusted for the different operations required of them.

FAUCET.—Abel Putnam, Jr., Saratoga Springs, N. Y.—This invention relates to that class of faucets used in connection with vessels containing beer, soda water, and other liquids, and compressed air, carbonic acid gas, or other expansive gas, and it particularly relates to the class of such faucets in which a plug containing a passage for the fluid, a valve to close it, and an air vent, is inserted into the barrel or vessel, and is operated in connection with a detachable spigot.

SMOKE STACK.—Engene Fontaine, Fort Wayne, Ind.—This invention consists in securing a cylinder with or without an outside flange to the pipe within the head of the stack, and arranging it in combination with an inverted flange cone, in such a manner that the sparks from the fire-box are carried up through the said cylinder by the steam from the exhaust pipes of the engine and striking the cone are thrown down the outside of the cylinder upon the converging bottom of the head of the smoke stack so as to come beneath an opening between the cylinder and the inside pipe, where it is again carried up through the cylinder until it strikes the cone, and is thrown down in the same manner, this operation being repeated until the sparks are extinguished by the steam, and beaten to dust, after which the portion not consumed is finally ejected through the bonnet.

SHELVING FOR STORES.—Richard Murdoch, Baltimore, Md.—This invention has for its object to enable salesmen to lay hold of the goods placed in the higher shelves of stores out of easy reach, without climbing to the same, in order that the surfaces of the walls may be utilized for shelving clear to the ceilings.

CARRIAGE-TOP FIXTURES.—Nathan B. Richardson, Somerville, N. J.—This invention has for its object to improve the construction of carriage tops so as to make them more convenient in use and manufacture, and at the same time, more durable and less liable to injure the cover at the top.

WAGON BRAKES.—Daniel J. Russell, South Westerlo, N. Y.—This invention has for its object to furnish an improved brake, which shall be simple in construction and effective in operation, being so constructed as to apply the brake shoes to both the front and rear sides of the wheels at the same time and by the same operation.

LAND MARKER.—Arthur C. Smith, Joyner's Depot, N. C.—This invention has for its object to furnish an improved marker for attachment to plows to mark the land for the next row so that the rows may be at an equal distance apart throughout their whole length.

SELF-ACTING SIGNALING APPARATUS.—John Garner Johnson, Coombe Fields, England.—This invention relates to improvements in signaling apparatus for railways, tramways, etc., and consists in improved self-acting apparatus, wherein the signal is thrown up to indicate the passage of a train by a weight let fall by the action of the wheels of the train on a lever and tripping catch when passing the signal, and the said signal is reset by a clock mechanism.

BRIDLE BIT.—F. B. Kalkbrenner, Clinton, Mo.—This invention relates to improvements in bridle bits, and consists in making the part which goes through the mouth in two parts, and joining each part with a pair of lines or check pieces, to one of which it is connected at each end, the said pieces of lines being jointed together, and one pair for the check rein being so arranged that when the said check reins are pulled the device bit will be separated in such a way as to force the animal's mouth open and prevent him from seizing the bit between the teeth.

GATES.—William C. Hooker, Abington, Ill.—This invention relates to improvements in gate-operating devices such as are intended for opening and closing the gates without dismounting from the horse or carriage, and is similar in some respects to the gate operating apparatus patented, June 2, 1868, No. 78,452.

WATER METER.—G. B. Massey, New York city.—The object of this invention is to provide efficient means for measuring water so that the quantity discharged from a service or other pipe may be accurately ascertained and registered, and it consists in operating in a cylindrical chamber, by the pressure of the water, a radial arm or wing, and in opening and closing induction and discharge valve ports, by means of a falling weight, which is raised by the arm or wing, and also in the mode of actuating the register.

GLOVES.—Wm. S. Tooker, Kingsboro', N. Y.—This invention relates to improvements in gloves, and it consists in making the back part for the hand, and wrist and arm of a gauntlet, in one piece of peculiar form, the front of the arm piece, part of the wrist, and the back of the thumb in another piece, and in the manner of combining them with the palm piece for the hand, and the piece for the inner side of the thumb.

GLOVES.—Wm. S. Tooker, Kingsboro' N. Y.—This invention relates to improvements in the manufacture of gloves, such as are made of buckskins, or similar skins, or partly of the same and cloth, and it consists in the form and manner of combining the several parts for economizing the material and labor, and producing neatly fitting gloves.

COMBINED COLLAR AND CUFF BOX.—Jacob C. Bauer, New York city.—This invention has for its object to furnish an improved paper box, designed more especially for containing paper collars and cuffs, but equally applicable for containing collars and cuffs made of other materials, and which shall be so constructed as to contain the collars and cuffs in such a way that they may be conveniently removed when required for use.

HOT-AIR FURNACE.—William James and William James, Jr., Montreal, Canada.—This invention has for its object to improve the construction of hot-air furnaces, so as to obtain a greater amount of heat from the same amount of fuel than is possible with furnaces constructed in the ordinary manner.

PRINTERS' CHASE.—Thomas A. Clements, Little Rock, Ark.—This invention has for its object to so improve printers' chases that the same can be fully adjusted to the types, with the use of the regular square metal furniture, without the use of beveled furniture, quoins, shooting-sticks, or mallets, thereby saving time and labor.

VISE.—R. S. Hildreth, South Adams, Mass.—The object of this invention is to produce a powerful vise of simple construction, which can be used for securely holding articles of suitable shape in any desired position.

LOOM.—Joseph F. Randall, Warren, Ohio.—This invention relates to a new and useful improvement in looms for weaving textile fabrics, but more especially designed for looms used in weaving bagging or baling cotton, and for similar purposes, and it consists in a cylinder for increasing the tension of the threads, as the latter is drawn into the loom, and for affording a continuous motion to the loom, in the process of weaving.

CARRIAGE WHEEL.—Thomas M. Jones and Charles W. Fillmore, Chicago, Ill.—This invention relates to a new and useful improvement in wheels for carriages and wagons, and all wheeled vehicles, whereby the wheels are made stronger and more durable than wheels of ordinary construction.

BLEACHING TOBACCO.—Hugh Mearns, South Fork, Ky.—This invention relates to a new and improved process for the treatment of tobacco, for bleaching it, and consists in, first, sprinkling the tobacco until moist; second, hanging it up in a tight room, and, third, subjecting it immediately while damp to the action of sulphurous acid gas generated in any approved way and admitted to the said room.

OIL CAKE ENVELOPES OR HAIRS.—Cyrus Eskrett and Henry Searle, Kingston-upon-Hull, England.—The inventors construct the envelopes or hairs by fitting together strips or pieces of wood so as to form a corrugated plate or board of a form similar to the face of the hair now in general use for seed crushing and oil-cake making purposes. Each corrugation should be made out of a separate piece of wood placed transversely, and as many such pieces should be put together as may be required to make up the proper length for the size of cake required to be produced by the use of the hairs.

PRINTER'S CHASE.—T. A. Clements, Little Rock, Ark.—This invention consists in constructing the chases in sections, which are connected to each other by means of right and left screws, so that by turning said screws the size of the chases can be adjusted at will.

LEATHER SCOURING MACHINE.—H. C. Havemeyer and D. P. Burdon, New York city.—This invention relates to a new manner of arranging a self-adjusting bed or table under the rotary scouring cylinder of a leather-dressing apparatus, and to a novel method of securing the scouring stones and brushes in alternate rows to the said cylinder.

BARK MILL.—Charles Korn, Wurtsboro, N. Y.—This invention relates to certain additions to the ordinary bark mills now in use, whereby the grinding of the bark to the requisite degree of fineness is facilitated.

WATER WHEEL.—W. V. Martin, Waverly, Ohio.—This invention relates to improvements in water wheels, and consists in an improved arrangement, with the buckets, of the wheel and the bottom of the scroll case, of a vertical ringer band and a horizontal flange for maintaining a tight joint and the case, and confining the water upon the buckets.

APPARATUS FOR DRYING AND PRESSING LARD SCRAPS.—A. K. Howe, New York city.—This invention relates to a new machine for treating the scraps of lard, with a view of extracting from the same all the oily or fatty substances which they may yet contain.

HOE SCRAPER.—R. R. Specken and H. T. Specken, Astoria, Oregon.—This invention relates to a new and useful improvement in a scraper for hoes and other such implements or tools, whereby the blades of such implements (more especially the hoe) may be kept clean and in proper condition for use.

SEWING MACHINE TABLE.—E. L. Morgan, Riversville, West Va.—This invention has for its object to provide an attachment to sewing machine tables whereby the same may be properly steadied on uneven floors to prevent the rattle of machinery, the consequent inconvenience of operation, and wearing loose of parts.

LEATHER SCOURING MACHINE.—H. C. Havemeyer and D. C. Burdon, New York city.—This invention relates to a new machine for dressing and scouring leather, and consists in the employment of a hinged scouring bed held by means of uprights against the rotating scouring tool, which is hung in a fixed frame.

FIRE-ARMS.—Peter Schuler, Morris, Ind.—This invention relates to certain new improvements in breech-loading fire-arms and cartridge shells, and has for its object to simplify the construction of the breech-ends of barrels, and economize cartridge shells.

UMBRELLA.—Hugh Keenan, Worcester, Mass.—This invention has for its object to provide a drop-catch on umbrellas, so that the same, when wet, may be taken into church, theater, hall, or parlor, without danger of wetting the floors or carpets.

MACHINE FOR GRINDING SAW BLADES.—Charles J. Gardner, Philadelphia, Pa.—This invention relates to a new machine for grinding the blades of hand or circular saws, of all kinds and sizes, and for grinding the handsaws thin on the back to give them the requisite degree of elasticity.

TYPE SETTING AND DISTRIBUTING MACHINE.—Wm. T. Morgans, Youngsville, N. Y.—The object of this invention is to construct a machine by means of which types or dies for printing can be set up in rows in the requisite succession, by means of pivoted keys, and on which provision is made for instantly and simultaneously redistributing all the characters to their proper places.

NEW MODE OF SHIPPING AND UNSHIPPING SCREW PROPELLERS.—Geo. Leach, Leeds, England.—The object of this invention is to facilitate the shipping and unshipping of the auxiliary screw propellers used with sailing ships for the purpose of assisting them in calms, and on other occasions when their sailing gear is either useless or insufficient.

GATE.—John S. Covell, Salt River, Mich.—This invention has for its object to furnish an improved gate, which shall be so constructed that it may be conveniently raised without unlatching it, to allow it to swing over snow or other obstructions, or to allow small stock to pass beneath it, while preventing the passage of larger animals.

SEWING-MACHINE ATTACHMENT.—W. A. Rayer and W. S. Lincoln, Boston Mass.—This invention has for its object to provide a machine on which goods can be sewed together in a continuous operation, as required in cotton mills, hosiery, and bag manufactories, printing mills, etc. The invention consists chiefly in providing a circular or annular, and therefore endless rotating guide for and support of the fabric to be sewed. The pieces can be placed against each other on the said endless guide, without interrupting the sewing.

COMPOUND FOR TREATING WOOL.—H. H. Capamagian, Pittsburgh, Pa.—The object of this invention is to provide a simple, cheap, and efficient substitute for the oil now used for preparing wool for picking, carding, spinning, and the other operations to which it is subjected in working into cloth, the oil being objectionable, on account of the difficulty of expelling it from the yarn previous to coloring, or, in case the color is applied to the wool previous to carding and spinning, the liability of removing or damaging the color in expelling the oil.

RECLINING CHAIR.—Emil Bartels, New York city.—This invention relates to improvements in reclining chairs, and consists in a combination with the back, which is hinged to the back part of the seat, and strong posts rising from the front of the seat, of extension arms, pivoted to the posts and the back, and made in two parts, one of which is a notched bar, sliding in and out of the other part, which is provided with a spring catch to engage the notched bar and hold it in the required position, and, in combination with the above, springs are employed to raise the back or throw it forward.

STORE SHELVING.—Robert Pool, New Providence, Tenn.—This invention relates to improvements in shelving for stores, and the like, and consists in an arrangement of the same above the drawers and counters commonly employed at the lower part, so that the upper part of the shelves, above the counter may fold down against the lower part thereof, and be locked or otherwise fastened, to inclose the goods completely, those in the upper part being prevented from falling out by wire cloth, buttons or otherwise fastened in front, or straps of any kind may be used, and the back part of the shelves being cased up.

Inventions Patented in England by Americans.

[Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

- 2,491.—ELECTRO-PLATING THE INTERIOR OF LEAD AND OTHER METAL PIPES.—H. E. Towle, New York city. September 15, 1870.
2,521.—VAPOR OR GAS BURNERS.—J. C. Love, Philadelphia, Pa. Sept. 19, 1870.
2,533.—MACHINE FOR SKIVING AND CUTTING LEATHER.—C. Brown and W. Childs, Montreal, Canada. September 21, 1870.
2,535.—MACHINE FOR HEELING BOOTS AND SHOES.—H. H. Bigelow, Worcester, Mass. September 21, 1870.
2,537.—ROLLING MILLS.—D. I. Jones, Newburg, Ohio. September 21, 1870.
2,537.—STEAM BOILER AND OTHER FURNACES AND STOVES.—J. T. Rich, Philadelphia, Pa. September 23, 1870.
2,571.—WATER GAGES FOR STEAM BOILERS.—L. L. Lee, Milwaukee, Wis. September 26, 1870.
2,590.—REFINING CRUDE CAST IRON FOR FOUNDRY AND OTHER PURPOSES.—James Henderson, New York city. September 29, 1870.
2,602.—SIGNALS AND SIGNALING.—James Gordon, San Francisco, Cal. September 30, 1870.
2,633.—COMBINED LIFTING AND FORCE PUMPS.—I. H. Guston, Middle-town, Ind. October 4, 1870.

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING Nov. 1, 1870.

Reported Officially for the Scientific American.

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- 108,749.—FRICTION PULLEY.—Edwin F. Allen (assignor to himself, Charles Campbell, and Elmer A. Beaman), Providence, R. I.
108,750.—RECLINING CHAIR.—Emil Bartels, New York city.
108,751.—COMBINED HYDRANT AND FIRE PLUG.—Frederick Bauschliker, Washington, D. C., assignor to himself and F. Gentner, Philadelphia, Pa.
108,752.—CURTAIN FIXTURE.—Richard Beal, Commerce, Mich.
108,753.—CHEESE PRESS.—G. B. Boomer, T. G. Morse, and Rufus E. Boschert, Phoenix, N. Y.
108,754.—HOT AIR FURNACE.—Royal F. Brown, Chicago, New York city.
108,755.—MUFF, COLLAR, AND CUFF BOX.—John C. Budd, New York city.
108,756.—COMPOUND FOR TREATING WOOL.—Hagop H. Capamagian, Pittsburgh, Pa.
108,757.—WATER WHEEL.—Joel T. Case, New Hartford, Conn.
108,758.—THREAD-WINDING MACHINE.—Dwight M. Church, Holyoke, Mass.
108,759.—PRINTERS' CHASE.—T. A. Clements, Little Rock, Arkansas.
108,760.—PRINTERS' CHASE.—T. A. Clements, Little Rock, Arkansas.
108,761.—CURTAIN FIXTURE.—Wm. C. Clover (assignor to Henry E. Clover), Brooklyn, N. Y.
108,762.—TINSMITHS' FURNACE.—Michael Conner, Plymouth, Mich.
108,763.—SLIDING DOOR.—L. A. Cook, Concord, Mich.
108,764.—GATE.—John S. Covell, Salt River, Mich.
108,765.—SOAP DISH AND BRUSH RACK.—Archibald Crawford, Albany, N. Y.
108,766.—LINE AND WIRE TIGHTENER.—Theophilus Crosby, Manchester, Iowa.
108,767.—LOCK FOR SLIDING DOOR.—John Davidson, Albany, N. Y.
108,768.—BROILER.—Alexander Dick, Buffalo, N. Y.
108,769.—MACHINE FOR BREAKING STONE.—Andrew Dietz, New York city.
108,770.—LOCK.—C. D. Dickerman, Boston, Mass. Antedated Oct. 28, 1870.
108,771.—PLOW JOINTER.—Daniel Dillenback, Galesburg, Mich.
108,772.—BALING PRESS.—George Duncan, San Francisco, Cal., assignor to himself and William Blackmore.
108,773.—FERMENTING ALCOHOLIC LIQUORS FROM GRAIN.—Joshua Ellingwood, Owensboro, Ky.
108,774.—OIL-CAKE ENVELOPE.—Cyrus Eskrett and Henry Searle, Hull, England.
108,775.—MACHINE FOR GRINDING SAW BLADES.—Charles J. Gardner, Philadelphia, Pa.
108,776.—CLOTHES-LINE HOOK.—James Garvey and Matthew H. Kimball, San Francisco, Cal.
108,777.—SPRING SEAT FOR RAILWAY CARS.—T. J. Gifford, Salem, Mass.
108,778.—SAFETY FASTENER.—William Gorman, New Britain, Conn., assignor to Russell and Erwin Manufacturing Co.
108,779.—MACHINE FOR MOLDING EARTHENWARE.—Thomas G. Green, Church Gresley Pottery, England.
108,780.—MILK WAGON.—Benjamin B. Gudge, Chicago, Ill.
108,781.—TESSELATED FLOOR.—Lavinus B. Hamilton, Boston, Mass.
108,782.—LEATHER-SCOURING MACHINE.—H. C. Havemeyer and D. P. Burdon, New York city.
108,783.—LEATHER-SCOURING MACHINE.—H. C. Havemeyer and D. P. Burdon, New York city.
108,784.—VISE.—R. S. Hildreth, South Adams, Mass.
108,785.—PRINTING PRESS.—R. M. Hoe and S. D. Tucker, New York city.
108,786.—GATE.—W. C. Hooker, Abington, Ill.
108,787.—RUFFLER FOR SEWING MACHINE.—C. W. Howard, Philadelphia, Pa.
108,788.—APPARATUS FOR DRYING AND PRESSING LARD SCRAPS.—A. K. Howe (assignor to himself, H. E. Donor, and E. Purdy), New York city.
108,789.—RAILWAY CAR AXLE LUBRICATOR.—Charles Hyatt (assignor to two thirds of his right to J. N. Milehan and E. Schlenker), Buffalo, N. Y.
108,790.—HOT AIR FURNACE.—William James and William James, Jr., Montreal, Canada.
108,791.—STREET AND STATION INDICATOR.—Geo. A. Jenks and John T. Fawcett (assignors to themselves and Joseph Hampson), Chicago, Ill.
108,792.—TIME SIGNALING APPARATUS FOR RAILROAD.—J. G. Johnson, Coombe Fields, England.
108,793.—APPARATUS FOR EVAPORATING AND CONCENTRATING BARK EXTRACTS, ETC.—T. W. Johnson, Jr., and A. W. Goodell, New York city.
108,794.—CARRIAGE WHEEL.—T. M. Jones and C. W. Fillmore, Chicago, Ill.
108,795.—BRIDLE BIT.—Frederick B. Kalkbrenner, Clinton, Mo.
108,796.—GRATE BAR AND BEARER.—William Kearney, Belleville, assignor to himself and A. D. Graham, Newark, N. Y.
108,797.—SAWING MACHINE.—George W. Kearns, Lilleyville, Pa.
108,798.—DRIP CATCH FOR UMBRELLA.—Hugh Keenan, Worcester, Mass.
108,799.—DIVIDER AND CALIPERS.—G. W. Lane (assignor to E. R. Newell), Plantsville, Conn.
108,800.—SHIPPING AND UNSHIPPING SCREW PROPELLER.—George Leach, Leeds, England.
108,801.—PLANING MACHINE.—Thomas Llewellyn, London, England.
108,802.—FIX FOR PUDDLING FURNACE.—Charles S. Lynch, Boston, Mass.
108,803.—MACHINE FOR JOINTING STAIR RAILS.—John B. Margeson, Lynn, Mass. Antedated Oct. 29, 1870.
108,804.—LIQUID METER.—Gideon B. Massey, New York city.
108,805.—APPARATUS FOR GIVING FORM TO WOOD.—G. R. Mather, Wellingborough, England.
108,806.—MANUFACTURE OF GOLD FOIL FOR DENTAL PURPOSES.—Urial K. Mayo, Boston, Mass.
108,807.—WEIGHING SCALE.—Wm. H. McCormick (assignor to himself and John T. Williams), Muncie, Ind.
108,808.—BLEACHING TOBACCO.—Hugh Mearns, North Fork, Ky.
108,809.—MEAT CHOPPER.—G. H. Mellen, New York city.
108,810.—DUMPING CAR.—William Merrington and Nathan Kirkwood, McKeesport, Pa.
108,811.—MEDICINE OR PAIN REMEDY.—J. J. Mills and William Perry, Frederick's Hall, Va.

108,812.—SEWING MACHINE TABLE.—E. L. Morgan, Riversville, West Va.
108,813.—MACHINE FOR PREPARING STEREOTYPE MATRICES.—W. T. Morgans, Youngsville, assignor to himself and Isaac Anderson, Jeffersonville, N. Y.
108,814.—PILE FOR ENGINEERING PURPOSES.—T. W. H. Moseley, Boston, Mass.
108,815.—SCREW-CUTTING DIE.—Nels Nelson, Galesburg, Ill.
108,816.—MANUFACTURE OF ICE.—S. J. Newsham, Mont Clair, and W. H. Haines, and W. S. Henson, Newark, N. J.
108,817.—CLUTCH GEARING.—Ezra Nicholson, Cleveland, Ohio. Antedated October 26, 1870.
108,818.—CLOTHES DRYER.—Abiel O'Dell, Napanee, Canada.
108,819.—FOLDING WINDOW BLIND.—F. R. Osgood, Grand Rapids, Mich.
108,820.—MACHINE FOR DRESSING HOOPS.—Joseph Penney, Rochester, N. Y.
108,821.—PREPARING COTTON WASTE FOR CLEANING MACHINERY.—Anthony Peple, Billerica, Mass.
108,822.—MACHINE FOR GRINDING AND POLISHING METAL.—J. H. Pitkin and J. S. Lane, Akron, Ohio.
108,823.—STORE SHELVING.—Robert Poole, New Providence, Tenn.
108,824.—FAUCET.—Abel Putnam, Jr., Saratoga Springs, N. Y.
108,825.—CAR WHEEL.—John Raddin, Lynn, Mass. Antedated October 19, 1870.
108,826.—WARP-TENSION MECHANISM FOR LOOMS.—J. F. Randall, Warren, Ohio.
108,827.—SEWING MACHINE.—W. A. Rayer and W. S. Lincoln (assignors to themselves and A. B. Lincoln), Boston, Mass.
108,828.—LOW-WATER INDICATOR.—Frederick Raynsford (assignor to himself and C. L. Bouchard), Grand Rapids, Mich.
108,829.—TRANSPARENT VARNISH.—John Restle, Boston, Mass.
108,830.—RAILWAY CAR BRAKE.—I. L. G. Rice, Cambridge, Mass.
108,831.—CARRIAGE-TOP FIXTURE.—N. B. Richardson, Somerville, N. J.
108,832.—TENT AND UMBRELLA.—John Ritchie and George Ritchie, London, England.
108,833.—COMBINED CULTIVATOR AND SEEDER.—R. I. Roberson and William Nash, Oskaloosa, Iowa.
108,834.—SHOVEL PLOW AND CULTIVATOR.—E. G. Rowell, A. D. Rowell, J. R. Rice, and S. M. Sealey, Hartford, Wis.
108,835.—WAGON BRAKE.—D. J. Rundell, South Westerly, N. Y.
108,836.—BREECH-LOADING FIRE-ARM.—Peter Schuler, Morris, Ind.
108,837.—COUNTERSINK.—W. B. Shedd, East Boston, Mass.
108,838.—TABLE CASTER.—Daniel Sherwood (assignor to himself, E. P. Woods, and C. H. Latham), Lowell, Mass.
108,839.—HARVESTER RAKE.—D. B. Shirk, Brunneville, Pa.
108,840.—VISE.—J. E. Sinclair, Worcester, Mass.
108,841.—SUSPENSOR.—J. W. Smith, Boston, Mass.
108,842.—LIQUID METER.—W. E. Snediker, New York city. Antedated October 29, 1870.
108,843.—CLEANSING ATTACHMENT FOR HOES.—R. R. Spedden and H. T. Spedden, Astoria, Oregon.
108,844.—CARBURETING ATTACHMENT FOR GAS-BURNERS.—J. H. Steiner, Reading, assignor to himself and Christian Sharps, Philadelphia, Pa.
108,845.—COMPOUND FOR CLEANING AND PRESERVING THE TEETH AND GUMS.—W. M. Taney, Carrollton, Ky.
108,846.—FINISHING AND BLEACHING HANDLES, ETC.—D. H. Taylor, Westfield, N. Y.
108,847.—WATCH CASE.—C. L. Thery, Boston, Mass.
108,848.—GOVERNOR.—J. L. Todd, Newburg, N. Y.
108,849.—GLOVE.—W. S. Tooker (assignor to himself and Elliot Thomas), Kingsborough, N. Y.
108,850.—GLOVE.—W. S. Tooker (assignor to himself and Elliot Thomas), Kingsborough, N. Y.
108,851.—MANUFACTURE OF ICE.—P. H. Vander Weyde, New York city.
108,852.—COOKING STOVE.—G. W. Walker, Malden, Mass.
108,853.—EXPPELLING VOLATILE MATTERS FROM PEAT.—T. G. Walker, New York city.
108,854.—PLATING DEVICE.—William Walker, Brooklyn, N. Y., assignor to G. H. Wooster, New York city.
108,855.—PLATING DEVICE.—William Walker, Brooklyn, N. Y., assignor to G. H. Wooster, New York city.
108,856.—WARPING MACHINE.—James Walmsley and Thomas Walmsley, Blackburn, Great Britain.
108,857.—CORN PLOW.—J. A. Walter and Eli Bushman, White House, Pa.
108,858.—OILET BOX.—S. W. H. Ward, New York city.
108,859.—MACHINE FOR MAKING WOODEN PINS.—R. H. Watson, Lapeer, Mich.
108,860.—PLOW.—J. W. Webb, Cotton Valley, Ala.
108,861.—MANUFACTURE OF SUGAR.—Arnold Weichert, New York city.
108,862.—METALLURGIC AND OTHER FURNACES.—Theodor Weiss, Dresden, Saxony.
108,863.—HEATING APPARATUS FOR LAMPS.—W. N. White, Winchendon, Mass.
108,864.—BRICK MACHINE.—M. D. Williams, Dakota, Iowa.
108,865.—CORN PLANTER.—Charles Wisdom, Flat Rock, Mich.
108,866.—APPARATUS FOR MAKING CHEESE.—E. L. Yancy, Batavia, and C. E. Dorman, Pembroke, N. Y. Antedated October 29, 1870.
108,867.—PRINTING TELEGRAPH.—G. L. Anders, Boston, assignor to himself and E. B. Welch, Cambridge, Mass.
108,868.—APPARATUS FOR THE MANUFACTURE OF ICE.—Silvester Bennett, Jefferson Parish, La., assignor to M. J. Bujac, New York city.
108,869.—BREECH-LOADING FIRE-ARMS.—Hiram Berdan (assignor to the Berdan Fire-Arms Manufacturing Company), New York city.
108,870.—HEEL FOR BOOTS AND SHOES.—H. H. Bigelow, Worcester, Mass.
108,871.—MEASURING APPARATUS FOR LOOMS, ETC.—John A. Bradshaw and S. L. Crockett, Lowell, Mass., assignor to S. L. Crockett. Antedated October 21, 1870.
108,872.—BUSTLE.—John Broughton, Brooklyn, N. Y.
108,873.—BUSTLE.—John Broughton, Brooklyn, N. Y.
108,874.—AUTOMATIC FURNITURE LOCK.—J. T. Brown and Isaac Hurd, Cincinnati, Ohio.
108,875.—TRY-SQUARE AND LEVEL.—Henry L. Buckwalter, Limerick township, Pa.
108,876.—MOUSE TRAP.—John N. Bunnell, Unionville, Conn.
108,877.—WATCHMAKERS' VISE.—Arthur W. Bush, St. Cloud, Minn.
108,878.—DINING TABLE.—Russel C. Case, Guilderland, N. Y.
108,879.—STEREOTYPING.—Alonzo Chace (assignor of one half his right to Ezra Cornell), Ithaca, N. Y.
108,880.—BRICK MACHINE.—Cyrus Chambers, Jr., Philadelphia, Pa.
108,881.—COW-MILKER.—Leighton O. Colvin, Humphreyville, Pa.
108,882.—BREAST PUMP.—Leighton O. Colvin, Newark, N. J.
108,883.—WOOD-SPLITTING MACHINE.—Edward Coogan, Washington, assignor to himself and Joseph L. Simons, Georgetown, D. C.
108,884.—BRIM OF SOFT HAT.—James W. Corey, Newark, N. J.
108,885.—EARTH CLOSET.—Rensselaer A. Cowell, Cleveland, Ohio.
108,886.—SEWING MACHINE.—J. H. Curell (assignor to himself and J. E. Morrisey), St. Louis, Mo.
108,887.—CARD RACK.—John F. Curtis, Chicago, Ill.
108,888.—GAS HEATER.—S. G. Dare, New York city.
108,889.—HAY PRESS.—J. Ham. Davison and T. J. Sasher, Mount Station, Ill.
108,890.—BORING MACHINE.—W. H. Deatrick, Heidlersburg, Pa.
108,891.—PAPER-CUTTING MACHINE.—St. Clair Denny, Pitts-burgh, Pa., and Israel L. G. Rice, Cambridge, Mass.
108,892.—PLOW.—Edward Dietsch (assignor to himself and J. C. Powell), Findlay, Ohio.
108,893.—BEE HIVE.—E. J. Donavan (assignor to herself and W. T. Gibson), Indianapolis, Ind.

108,894.—RAILWAY SNOW SHOVEL.—J. W. Elliot, Toronto, Canada.
108,895.—MACHINE FOR CUTTING NAILS.—David J. Farmer, Wheeling, West Va.
108,896.—COTTON-SEED HULLER.—Wm. R. Fee, Cincinnati, Ohio.
108,897.—BUNG LOCK.—Hermann Fischer, Lanesville, Ind.
108,898.—BOTTLE FAUCET.—Hermann Fischer, Lanesville, Ind.
108,899.—LOCOMOTIVE SMOKE STACK.—Eugene Fontaine (assignor to himself and W. A. Roberts), Fort Wayne, Ind.
108,900.—PLATE FOR HARNESS-SADDLE.—James H. Garrett, Mount Pleasant, Iowa. Antedated October 22, 1870.
108,901.—STUMP EXTRACTOR.—L. B. Gibson, South Addison, N. Y.
108,902.—APPARATUS FOR OPERATING SEWING MACHINE.—Victor Girouard (assignor to John M. Dow), New York city.
108,903.—WAGON AXLE.—G. H. Glad and John C. Becker, Boston, Mass.
108,904.—PRESSURE-REGULATOR FOR WATER AND STEAM APPARATUS.—John C. Hagan, Nashville, Tenn.
108,905.—STEAM AND WATER SUPPLY AND PESSURE-REGULATOR.—J. C. Hagan, Nashville, Tenn.
108,906.—EAVES-TROUGH FASTENER.—Michael Henney and W. B. Rager, North Manchester, Ind. Antedated October 22, 1870.
108,907.—REVERSIBLE PLOW.—Ephraim C. Hodge, Oneonta, N. Y.
108,908.—DRESS SHIELD.—B. M. Hotchkiss (assignor to the Goodyear India-rubber Glove Manufacturing Company), Naugatuck, Conn.
108,909.—MANUFACTURE OF FERTILIZER.—C. P. Houghton, Georgetown, D. C.
108,910.—HARROW.—John Jacobson, Austin, Minn.
108,911.—SULKY.—Jesse Jenkins, Sligo, Md.
108,912.—HARVESTER REEL.—J. H. Keller, Boalsburg, Pa.
108,913.—MANUFACTURE OF PAPER.—John S. Kenyon and Lewis Fox, Baldwinville, N. Y.
108,914.—MINERAL PAINT.—John S. Kenyon and Lewis Fox, Baldwinville, N. Y.
108,915.—MOTIVE-POWER APPARATUS.—L. W. Lathrop, Poughkeepsie, N. Y.
108,916.—PEN HOLDER.—R. B. Lawrence, Wheeling, West Va.
108,917.—SLEIGH RUNNER.—John Logan, Waterloo, Iowa.
108,918.—COTTON CHOPPER.—J. A. Lutz, Waynesborough, Va.
108,919.—SWIVEL PLOW.—E. G. Matthews (assignor to F. F. Holbrook, Oakham, Mass.
108,920.—DOOR BOLT.—Duncan McArthur (assignor to Sargent & Co.), New Haven, Conn.
108,921.—SCROLL SAW.—Reuben McChesney, Birmingham, Conn., assignor to himself, T. L. Cornell, and Sidney Cornell.
108,922.—HARVESTER.—L. J. McCormick and Wm. R. Baker (assignors to C. H. McCormick & Brother), Chicago, Ill.
108,923.—PAINT BRUSH.—Alvin McDonald (assignor of one half his right to J. H. White), Washington, Ill.
108,924.—ROOFING BRACKET.—L. W. Merriam, Fitchburg, Mass.
108,925.—FENCE.—Wm. A. Middleton, Harrisburg, Pa.
108,926.—MACHINE FOR SEPARATING MIDDINGS.—Wm. R. Middleton, Cleveland, Ohio.
108,927.—LOCK NUT.—John Miller, Jr., Marshalltown, Iowa.
108,928.—SHAFT IRON FOR CARRIAGES.—F. B. Morse (assignor to H. D. Smith & Co.), Plantsville, Conn.
108,929.—CARRIAGE, SPRING.—F. B. Morse (assignor to H. D. Smith & Co.), Plantsville, Conn.
108,930.—SHELVING FOR STORES.—Richard Murdoch, Baltimore, Md.
108,931.—COMPOSITION FOR BEARINGS.—Eliza D. Murfey, New York city.
108,932.—PNEUMATIC CAR BRAKE.—David Myers and A. B. Fullman, Chicago, Ill.
108,933.—DEVICE FOR CUTTING SCREW THREADS.—Z. S. Ogden, Glee's Falls, N. Y.
108,934.—WASHING MACHINE.—Arthur M. Paulin, Atlanta, Ill.
108,935.—STEAM GENERATOR.—John T. Rich, Philadelphia, Pa.
108,936.—STEAM GENERATOR.—John T. Rich, Philadelphia, Pa.
108,937.—GAS APPARATUS.—J. E. Richard (assignor to himself and E. C. Plumer), Columbia, S. C.
108,938.—CARPET STRETCHER.—A. S. Richards, Montgomery county, Md.
108,939.—SUBSOIL ATTACHMENT FOR PLOW.—A. F. Roberts, Lexington, Ky.
108,940.—FINISHING THE SURFACE OF PLATED GOODS.—John Rogers, Newark, N. J., assignor to Lippiatt Silver Plate and Engraving Co., New York city.
108,941.—PORTABLE FORGE.—P. H. Roots and F. M. Roots, Connersville, Ind.
108,942.—BREECH-LOADING FIRE-ARM.—W. M. Scott, Birmingham, England.
108,943.—GROOVING MACHINE.—Jared W. Smith, Hartford, Conn.
108,944.—WASH BOILER.—Oscar F. Stedman, Westfield, N. Y.
108,945.—CULTIVATOR.—D. C. Stover, Lanark, Ill.
108,946.—CAP FOR PLANE IRON.—Charles N. Tuttle, Auburn, N. Y.
108,947.—COTTON AND CORN PLANTER.—Elijah Wagner, Westminster, Md. Antedated Oct. 12, 1870.
108,948.—BOOT.—J. H. Walker, Worcester, Mass.
108,949.—FAN BLOWER.—L. D. Wheeler (assignor of one third his right to H. H. Beigham), Fitchburg, Mass.
108,950.—EARTH COMMODE.—Enos Woodruff, Elizabeth, N. J.
REISSUES.
4,170.—HASP FOR TRUNK LOCK.—Samuel Croft and John C. Schuellermann, Philadelphia, Pa., executors of Conrad Liebrich, deceased.—Patent No. 10,862, dated May 2, 1834; extended seven years.
4,171.—MACHINE FOR ROLLING CORNICES.—Asa Johnson, Carro, N. Y., for himself and W. H. Johnson, assignee of Asa Johnson.—Patent No. 18,906, dated December 22, 1857.
4,172.—CORRUGATED IRON BRIDGE.—Richard Montgomery, New York city.—Patent No. 25,210, dated Aug. 23, 1859.
4,173.—FABRIC FOR THE MANUFACTURE OF SHOES, ETC.—E. Waite, Franklin, Mass., assignor of one half-interest to S. M. Weld.—Patent No. 107,642, dated Sept. 20, 1870.
DESIGNS.
4,446.—COLLAR BOX.—Albert Aronson, New York city.
4,447.—UMBRELLA STAND.—Christopher Blake, Boston, Mass.
4,448.—CARPET PATTERN.—Jonathan Crabtree, Philadelphia, Pa.
4,449.—FLOWER POT.—Jas. Leak, Geddes, N. Y., assignor to himself, T. E. White, and Wm. Holmes.
4,450.—CLOCK FRONT.—Nicholas Muller, New York city.
4,451.—COAL HOD.—Joseph Pitts and Jas. K. Pitts, McLean, Ill.
4,452.—CYLINDER AND FRAME OF STEAM ENGINE.—Gelston Sanford, Bergen, N. J.
4,453.—FRAME.—B. A. Ward, Lynn, Mass.
4,454.—BRACKET.—B. A. Ward, Lynn, Mass.
4,455.—BRACKET.—B. A. Ward, Lynn, Mass.
4,456.—CLOCK FRONT.—B. A. Ward, Lynn, Mass.
TRADE-MARKS.
17.—SEAMLESS METAL TUBE.—American Tube Works, Boston, Mass.
18.—STOVE BLACKING.—Henry A. Bartlett & Co., Philadelphia, Pa.
19.—LEAD PENCIL.—Eberhard Faber, New York city.
20.—MANUFACTURED TOBACCO.—Arthur W. Foote, Brooklyn, N. Y.
21.—PREPARATION FOR THE HAIR.—Richard Green, Manchester, N. H.
22 to 35.—CIGAR.—David Hirsch & Co., New York city. 14 Patents.
36.—WATCH.—Henry Hirsh and Seligman Oppenheimer, New York city.
37.—COTTON SEED.—H. J. Holmes, Atlanta, Ga.
38.—CORN PLANTER.—D. W. Hughes, Palmyra, Mo.

39.—STOMACH BITTERS.—J. A. Jackson & Co., St. Louis, Md.
40.—SCHOOL CHART.—Frank G. Johnson, New York city.
41.—SILVER AND PLATED WARE.—Lippiatt Silver Plate and Engraving Co., New York city.
42.—MEDICAL COMPOUND.—John A. McKinnon, Selma, Ala.
43.—AX.—J. W. Meyer, St. Louis, Mo.
44.—PRIZE CANDY.—Elkanah Myers & Co., Cincinnati, Ohio.
45.—SOLUBLE SEA-ISLAND GUANO.—R. W. L. Rasin, Baltimore, Md.
46.—BASE BALL.—Peck & Snyder, New York city.
47.—ALL-HEALING LINIMENT AND MORNING-STAR LAMP OIL.—Teter & Hite, Moffett's Creek, Va.
48.—LUBRICATING OIL.—The West Virginia Oil and Oil-land Co., Petroleum, W. Va.
49.—SCALE.—Victor Scale Co., Dixon, Ill.
50.—SUSPENSOR AND ELASTIC WEBBING.—J. W. Wattles, Canton, Mass.
51.—SEWING MACHINE.—Weed Sewing Machine Company, Hartford, Conn.
52.—MEDICINE.—J. H. Zeilin & Co., Macon, Ga.

New Patent Law of 1870.

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