

CORN PLANTER.—Fielding W. Poe, Jr., Vanalaha, Ill.—This invention relates to certain improvements in corn planters, which appertain especially to the means whereby the seed-tubes are raised and lowered; and to the means whereby the seed-tubes are made to follow the inequalities of the ground; and to the means for insuring the "second drop."

SPARK ARRESTER.—Charles Pierpont, Durand, Wis.—This invention has for its object to furnish a simple and effective spark arrester for attachment to engine smoke-stacks.

FETTER OR CLOG FOR FOWLS.—Sanford J. Baker, Madison Center, Me.—This invention has for its object to furnish an improved fetter or clog for hens, turkeys, and other fowls, to prevent them from scratching in gardens, yards, fields, etc., which shall be simple in construction and effective in operation.

CORN PLANTER.—Joseph M. Whitmore and John N. Arvin, Valparaiso, Ind.—This invention has for its object to furnish an improved corn planter, which shall be simple in construction, easily operated, and effective in operation, and, at the same time, so constructed as not to be liable to get out of order.

SCREW-CUTTING DIES.—W. F. Cole, New York city.—This invention relates to improvements in screw-cutting dies with movable cutters, and has for its object to provide an arrangement, whereby the blocks may have the requisite strength and capacity, especially in the part for supporting the cutting ends of the cutters, with less metal used than heretofore.

RAILROAD CAR SPRING.—Albert Potts, Philadelphia, Pa.—This invention relates to a new manner of arranging, holding, and compressing the spiral springs for railroad cars, so that the same will be prevented from bulging out or bending when contracted, and increase in power of resistance with the weight.

FRAME FOR WHEELBARROW.—B. W. Tuthill, Oregon City, Oregon.—This invention relates to a new construction of metallic frames for wheelbarrows, and consists in making the two side bars or pieces of the frame together with the handles, all of one continuous piece of tubing. Great strength and simplicity of construction are thus obtained.

NAIL HEAD.—Thomas C. Richards, New York city.—This invention relates to a new arrangement of ornamental picture nail heads, with the object of facilitating the attachment of the same to the nails.

SEEDING MACHINE.—Jackson Cozad, Corydon, Iowa.—This invention relates to a new machine for scattering seed broadcast, and consists in the application and arrangement of a rotary basin, which serves by centrifugal force to throw the seed in all directions. The apparatus is applicable to all wheeled vehicles, and readily detachable when not required for use.

CAR-WHEEL MOLDS.—Wm. E. Worth, San Francisco, Cal.—This invention relates to improvements in rotary molds or flasks for utilizing the effect of centrifugal force to dispose the metal in casting car wheels. It consists in making the mold of a perforated disk of metal, and a ring fitted to it on which the chilling rests, and the cope of a top plate and ring, all fitted together and to a disk on the top of a rotary shaft, for clamping together and to the disk, and the top and bottom plates are provided with ventilators.

CLOTHES PIN.—Geo. A. Harris, Buchanan, Mich.—This invention relates to improvements in clothes pins, and it consists in two pieces of wood or other substance, pivoted together at or near the center, and provided with an india-rubber spring between the pivot and one end, having a hole through it in the lengthwise direction of the said pieces, which are grooved, and the point is so formed that the clothes line may be passed through in the said direction, and the pieces will be clamped upon it at one end by the spring.

CLOTHES FRAME.—Henry M. Stevenson, South Peacham, Vt.—This invention relates to improvements in clothes-drying frames, and it consists in a frame composed of two side panels and two top panels, the side panels being oiled and braced, and connected to each other by jointed cross bars, the top panels being pivoted to the side panels at the top, one to each, and provided with pivoted braces for holding them in the oblique positions corresponding to the rafters of a house; all so arranged that the said dryer may be adjusted to one shape to stand in one position alone, or in other positions for leaning against a support, and may be folded together for stowing away.

REVERSIBLE PLOW.—G. W. Thompson, Ripley, Ohio.—This invention relates to improvements in reversible plows, and consists in making the double mold board of sheet metal in two parts, joined transversely at the center between the points where they are riveted to the oscillating brace connecting them with the plow beam. It also consists in an arrangement of the said brace calculated to prevent clogging.

SHOT CASE AND DISTRIBUTOR.—Sinclair Booton, Seguin, Texas.—This invention was fully illustrated and described in the last issue of the SCIENTIFIC AMERICAN.

DOUBLE HINGE.—John S. Jenness, Bangor, Me.—This invention relates to a new and useful improvement in hinges for hanging doors, more especially designed for trap doors, by means of which the door when open is made to rest flat upon the floor.

CLOTHES LINE HOLDER.—Ezra W. Talbot, Napoleon, Ohio.—This invention relates to a new and useful improvement in mode of raising, stretching, and holding clothes lines.

DROP-HAMMER LIFTER.—Francis M. Hodge, Shelburne Falls, Mass.—This invention relates to improvements in drop-hammer lifting apparatus, and consists in the application to the shaft of a drum, which lifts the hammer by winding up a belt attached to it, of an oscillating steam piston within a fixed case, and a tapped disk with lappets for shifting a steam valve for admitting the steam to the piston, and exhausting it; the object being to apply the steam directly to the shaft of the drum, so as to dispense with intermediate apparatus.

CALIPERS.—William P. Hopkins, Lawrence, Mass.—This invention relates to improvement in calipers, and in the adjusting nuts therefor, and consists in arranging the adjusting nut and screw (or screw only, when used without a nut) for spreading the legs apart, and to serve as a stop when they are forced together, and in arranging the spring to force the legs together, the object being to provide calipers which may be used for taking the gage of plates, disks, and the like, which are thicker at the rims than inside the same, by opening the legs to pass over the thick place, and adjusting the nut or screw to the right point, then opening the calipers to disengage them from the plate, after which the spring will close them down to the nut again, in the same position as before.

PAINT BRUSH.—William B. Burnett, New York city.—This invention relates to improvements in the construction of paint brushes, and it consists in improvements in the construction of the conical plug by which the bristles are wedged into the ferrule, and the handle is secured in the ferrule, to facilitate the application of the plug and the tightening of the bristles. It also consists in the arrangement of the handle and the plug relatively thereto to facilitate tightening up the bristles in case they become loose by the age of the plug.

COMBINED GUIDE FOR SEWING MACHINES.—William H. White, Baltimore, Md.—The object of this invention is to combine in one simple, practicable instrument, devices which will fold, hem, and bind in many different ways, each of which has heretofore required a different guide, and to adapt such instrument at the same time to the manufacture of French folds, in two, three, or more parts.

SAW SET.—H. A. Harris, Center, Texas.—This invention has for its object to furnish an improved saw set for setting the teeth of circular and other saws, which shall be simple in construction, convenient in use, and effective in operation, enabling the teeth to be all set at the same pitch, and at any desired pitch.

SAWING MACHINE.—W. A. Allen, Baltimore, Md.—This invention relates to improvements in machines for splitting kindling wood, and it consists in a combination with a fixed feeding spout, of a pair of reciprocating splitting blades and a holding and discharging plate, in a manner to split the block into slabs, and the slabs into small pieces, and discharge the same after being split, in a simple and efficient manner. It also consists in an arrangement with the hopper of a gate for preventing the discharge of the wood in case the feeding is stopped while the machine continues to run.

ADJUSTABLE COFFEE AND TEAPOT STRAINER.—G. A. Barron, Pembroke, Maine.—This invention relates to a new and useful improvement in strainers for coffee and teapots, and consists in a cylinder, open at each end, composed in whole or in part of perforated metal or wire gauze, and constructed so as to be varied in diameter to fit tea and coffee pots of different sizes.

CHURN DASHER.—Robert Brown, Columbus, Miss.—This invention relates to improvements in churn dashers, and consists in a wide ring of metal with two sets of oblique bars traversing the space within the ring in a way to be very efficient in agitating the cream.

MANUFACTURE OF PILLS.—Pierre Cauhaepe, New York city.—This invention relates to improvements in the manufacture of pills, and it consists in the employment, either in combination with a molding device for shaping the pills or other holder for them, of a comb bar with pins or needles adapted for inserting a pin in each mold cavity for taking the pills and slipping them in the coating solution, and a clamp and stripper for taking them from the needles and respitting them for filling and covering the cavities formed by the pins.

BASIN COCK.—C. A. Newton, Providence, R. I.—This invention relates to improvements in wash-basin cocks, designed for drawing hot or cold water from one cock, and consists in a combination with a vertical tube having two independent passages and adapted for attachment to the table in which the basin is placed, and a nozzle fitted to it to cut off one passage, while allowing the water to discharge from the other, of a branch attachment and packing therefor of peculiar construction for the attachment of the hot and cold water pipes.

MOTIVE POWER.—C. A. Mills, Bridgeport, Conn.—This invention relates to improvements in motive power, and it consists in a combination with a wheel having buckets, and mounted to work in a vertical plane, of a couple of chambers for holding and delivering sand, shot, or other like matters to be used to apply the power by flowing upon the wheel, said chambers being supported on opposite sides of the wheel by a case disclosing the wheel and serving to conduct the flowing matter from the wheel into the chambers, which case may be turned by hand or other means to shift the loaded chamber from below to the top, and the empty one from top to bottom, when the flowing matter has run through.

Inventions Patented in England by Americans. [Compiled from the Commissioners of Patents' Journal.]

PROVISIONAL PROTECTION FOR SIX MONTHS. SEWING MACHINE.—David Whittemore, Boston, Mass. December 3, 1870. AXLES AND AXLE-BOXES FOR WHEELED VEHICLES.—Ernest Von Jeinsen and James Monroe McDonald, San Francisco, Cal. December 2, 1870. SPRINGS CHIEFLY DESIGNED FOR RAILWAY AND OTHER CARRIAGES.—P. Sarsfield Devlan, Jersey City, N. J., and Isaac Pennington Wenzell and S. P. M. Tasker, Philadelphia, Pa. December 15, 1870. LIFE-PRESERVING CLOTHING.—Clark Spencer Merriman, Valesca, Iowa. December 8, 1870. MACHINERY FOR CUTTING LOAF SUGAR.—George Henry Moller, New York city. December 1, 1870. WIRE BANDS FOR FASTENING BALES.—Edwin Sewall Lenox, New York city. December 13, 1870. ELECTRIC BRAKE FOR RAILWAYS.—Joseph Olmstead, Chicago, Ill. December 13, 1870. PROCESS OF ELIMINATING THE COLORING MATTER OF GARANICINE AND OTHER PRODUCTS OF MADDER.—Spencer Borsten, Fall River, Mass. December 15, 1870.

Official List of Patents.

ISSUED BY THE U. S. PATENT OFFICE.

FOR THE WEEK ENDING JAN. 3, 1871.

Reported Officially for the Scientific American.

Table with 2 columns: Description of patent fee and amount. Includes 'On each caveat', 'On each Trade-Mark', 'On filing each application for a Patent', etc.

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110,617.—FLIER FOR SPINNING MACHINE.—T. T. Abbott and John A. V. Smith, Manchester, N. H. 110,618.—MOLE TRAP.—John Adams, Greencastle, Ind. 110,619.—STONE DRAG.—Elijah C. Allen, Deerfield, Mass. Antedated Dec. 21, 1870. 110,620.—SEEDING MACHINE.—Asher S. Babbit (assignor to Babbit, Hinkley & Co.), Keesville, N. Y. Antedated December 29, 1870. 110,621.—FETTER OR CLOG FOR FOWLS.—Sanford J. Baker, Madison Center, Me. 110,622.—PUMP.—Joel R. Bassett, Cincinnati, Ohio. 110,623.—MACHINE FOR MARKING SQUARES.—Charles S. Bennett, Southington, assignor to Hart Manufacturing Co., Kensington, Conn. 110,624.—CUTTER FOR NAIL-CUTTING MACHINES.—Eleazar Bless, Indianapolis, Ind. 110,625.—SHOT-CASE AND DISTRIBUTOR.—Sinclair Booton, Seguin, Texas. 110,626.—COMPOUND FOR CULINARY USE.—Henry W. Bradley, Binghamton, N. Y. 110,627.—RENDERING AND TREATING OFFAL AND OTHER ANIMAL SUBSTANCES.—Duncan Bruce (assignor to Emma Bruce), Brooklyn, N. Y. 110,628.—PAINT BRUSH.—William B. Burnett, New York city. 110,629.—HOG SNOTTER.—John C. Campbell and Warren S. Bruce, Good Hope, Ill. Antedated December 30, 1870. 110,630.—PILL MACHINE.—Pierre Cauhaepe, New York city. 110,631.—PAPER-CUTTING MACHINE.—John E. Coffin (assignor to F. W. Bailey and James Noyes), Portland, Me. 110,632.—BEDSTEAD FASTENING.—Charles S. Comins, Lowell, Mass. 110,633.—FASTENING FOR EAVES TROUGHS.—Leonard Cook, Shreveport, La. 110,634.—SEEDING MACHINE.—Jackson Cozad, Corydon, Iowa. 110,635.—FLOUR BOLT.—Robert W. Cunningham, Chesterville, Ohio. 110,636.—COTTON PLANTER AND MANURE DISTRIBUTOR.—N. Donaldson, Line Creek, S. C. 110,637.—REVERSIBLE LATCH.—Heinrich Dotzenroth, Pittsburgh, Pa. 110,638.—REFINING PETROLEUM.—Richard Eaton, Montreal, Canada. 110,639.—PROTECTING THE HEARTHS OF FURNACES.—H. W. Ellicott, Baltimore, Md. 110,640.—LOOM.—Robert Elliott, Chester, Pa. 110,641.—VENTILATOR.—William Ennis, Philadelphia, Pa. 110,642.—DOVETAILING MACHINE.—Harry E. Everts, Chicago, Ill. 110,643.—ALARM FOR LOCOMOTIVE ENGINES.—R. A. Filkins, North Adams, Mass.

110,644.—COMBINED COTTON-SEED PLANTER AND GUANO DISTRIBUTOR.—Lafayette Gantt, Camilla, Ga. 110,645.—GLASS TELEGRAPH INSULATOR.—John Garity, East Birmingham, Pa. 110,646.—GATE.—Robert Gidley, Lagrangeville, N. Y. 110,647.—HAND-ROLE CAP FOR STEAM BOILERS.—Wm. W. Graham, Boston, Mass., assignor to himself and J. S. Parsons, Winham Conn. 110,648.—LAMP.—Franklin T. Grimes, Liberty, Mo. 110,649.—CLOTHES PIN.—George Alfred Harris, Buchanan, Mich. 110,650.—SAW SET.—Henry A. Harris, Center, Texas. Antedated December 23, 1870. 110,651.—FOLDING LAMP SHADES.—Henry M. Hartshorn, Malden, Mass. Antedated December 30, 1870. 110,652.—COMPOSITION FOR PRESERVING WOOD.—William Hayman (assignor to himself and William R. Black), Taunton, Mass. 110,653.—RECLINING AND ROCKING CHAIR.—Samuel Hayward, Boston, assignor to himself and Luther E. Kimball, Cambridgeport, Mass. 110,654.—BASE-BURNING FIRE-PLACE HEATER.—E. S. Heath, Baltimore, Md. 110,655.—DROP-HAMMER LIFTER.—Francis M. Hodge, Shelburne Falls, Mass. Antedated December 24, 1870. 110,656.—KNITTING MACHINE.—Wm. H. Hollen, Fostoria, Pa. 110,657.—CALIPER.—William P. Hopkins, Lawrence, Mass. 110,658.—THRASHING MACHINE.—Hiram E. Hurlburt, Hammondsport, N. Y. Antedated December 20, 1870. 110,659.—DOUBLE HINGE.—John S. Jenness, Bangor, Me. 110,660.—SUBSOIL PLOW.—Marquis R. Jones, Walworth, Wis. Antedated December 31, 1870. 110,661.—MILKING STOOL.—Richard W. Jones and John B. Baker, Syracuse, N. Y. 110,662.—APPARATUS FOR THE MANUFACTURE OF BROMINE.—John J. Juhler, Natrona, Pa. 110,663.—RUT LEVELER.—Calvin Marshall, North Easton, Mass. 110,664.—HOT-AIR FURNACE.—Peter Martin, Cincinnati, Ohio. 110,665.—COMPOSITION FOR ROOFING.—J. B. Melvin, Lowell, Mass. 110,666.—PURIFICATION OF CAST IRON.—J. W. Middleton, Philadelphia, Pa. Antedated December 22, 1870. 110,667.—MOTIVE-POWER APPARATUS.—C. A. Mills, Bridgeport, Conn. 110,668.—HOT-WATER FEEDER FOR STEAM BOILERS.—J. H. Mills, Boston, and John Howarth, Salem, Mass. 110,669.—SEWING MACHINE FOR WORKING BUTTON HOLES.—Eugene Moreau, San Francisco, Cal., assignor to himself, J. W. Haggerty, and Samuel Hill. 110,670.—TUCKING DEVICE FOR SEWING MACHINES.—Aaron Morehouse, Hartford, Conn. 110,671.—SAW TABLE.—Peter Neeb, Buffalo, N. Y., assignor, by mesne-assignment, to Margaret Neeb. 110,672.—FLOUR SIFTER.—Lucy Sawyer, Templeton, Mass. Antedated December 17, 1870. 110,673.—WAGON BRAKE.—Andrew Van Der Hyden Oliver, Bethlehem, N. Y. 110,674.—BELT SHIPPER.—J. L. Otis, Leeds, Mass. 110,675.—PRINTING TELEGRAPH.—G. M. Phelps, Brooklyn, N. Y., assignor to the Western Union Telegraph Company, New York city. 110,676.—SPARK ARRESTER.—C. L. Pierpont, Durand, Wis. 110,677.—LUBRICATOR.—William Pratt, Providence, R. I. and N. B. Williams, New York city, assignors to A. A. Williams, Brooklyn, N. Y. 110,678.—CHURN.—J. H. Reed, La Fayette, Ind. 110,679.—CORN PLANTER.—John Reichelderfer, Cridersville, Ohio, administrator of Philip Kuntz, deceased. 110,680.—MANUFACTURE OF ACID PHOSPHATES FOR USE IN BAKING POWDERS, ETC.—N. B. Rice, East Saginaw, Mich. 110,681.—STEAM ENGINE.—Thomas Ross, Rutland, Vt. 110,682.—CULTIVATOR.—Jacob Sattison, Ripley Township, Ohio. 110,683.—WINDMILL.—Edvard Savoral, New York city. Antedated December 31, 1870. 110,684.—CASTING BAR SOLDER.—Abraham Schoenberg, New York city. 110,685.—DIES FOR FORMING HORSE-COLLAR SHELLS.—J. W. Schwaner, Egg Harbor City, N. J. 110,686.—SHUTTER FASTENING.—P. T. Share, Baltimore, Md. 110,687.—GATE.—G. A. Slater, Benton Harbor, Mich. Antedated December 30, 1870. 110,688.—SEED DROPPER.—H. M. Smith, Richmond, Va. 110,689.—PATTERN FOR MOLDING STOVE LIDS.—Samuel Smith (assignor to himself and Charles Noble & Co.), Philadelphia, Pa. 110,690.—LUBRICATING COMPOUND.—J. H. Smyser, Pittsburgh, Pa. 110,691.—CLOTHES DRYER.—H. M. Stevenson, South Peacham, Vt. 110,692.—REVERSIBLE PLOWS.—G. W. Thompson, Ripley, Ohio. 110,693.—EXTENSION PLOWSHARE.—G. W. Thorp, Columbus, Kansas. 110,694.—SEED PLANTER AND GUANO DISTRIBUTOR.—H. L. Tillery, Halifax, N. C. 110,695.—PRINTERS' FURNITURE.—R. B. Topham, D. C. 110,696.—PLATFORM SCALE.—J. H. Truex, Rochester, N. Y. 110,697.—FOLDING BEDSTEAD.—Joshua Turner (assignor to B. A. Pettingill and I. S. Pear), Cambridgeport, Mass. 110,698.—WHEELBARROW FRAME.—B. W. Tuthill, Oregon City, Oregon. 110,699.—PLATING DEVICE FOR SEWING MACHINES.—William Walker, Brooklyn, N. Y., assignor to G. H. Wooster, New York city. 110,700.—ALARM ATTACHMENT FOR MACHINES FOR FORMING HAT BODIES.—W. C. Waring, Yonkers, N. Y. 110,701.—HEEL-TAP FOR BOOTS AND SHOES.—Alexander Warner, Brooklyn, E. D. N. Y. 110,702.—DRYING OIL-CLOTHS AND SIMILAR FABRICS.—O. C. Washburn (assignor to Thomas Potter), Philadelphia, Pa. 110,703.—GOVERNOR FOR STEAM ENGINES.—Charles Waters, Boston, Mass. 110,704.—CONSTRUCTING MOLDINGS OF PAPER.—W. W. Webster, Chelsea, Mass. 110,705.—SAW.—Thomas Welham, Philadelphia, Pa. Antedated December 17, 1870. 110,706.—SEED PLANTER.—W. F. West, Haverstraw, N. Y. 110,707.—BAG-FILLING AND WEIGHING MACHINE.—C. A. Whelan and C. T. Wakeley, Madison, Wis. 110,708.—SAD-IRON HEATER.—Lewis Wilkinson, New York city. 110,709.—CHILDREN'S HOBBY-HORSE.—Wm. A. Williams, New York city. 110,710.—APPARATUS FOR MAKING EXTRACTS FOR TANNING.—Riley P. Wilson, New York city. 110,711.—COVER AND TABLE FOR SEWING MACHINES.—F. R. Wolfinger, Chicago, Ill. 110,712.—GUIDING WHEEL FOR HARVESTERS.—Walter A. Wood and William Anson Wood, Hoosick Falls, N. Y. 110,713.—HARVESTER.—Walter A. Wood, Wm. A. Wood, and John M. Rosebrooks, Hoosick Falls, N. Y. 110,714.—HARVESTER.—Walter A. Wood, Wm. A. Wood, and John M. Rosebrooks, Hoosick Falls, N. Y. 110,715.—HARVESTER.—Walter A. Wood, Wm. A. Wood, and John M. Rosebrooks, Hoosick Falls, N. Y. 110,716.—HARVESTER-RAKE.—William Anson Wood, Hoosick Falls, N. Y. 110,717.—CAR-WHEEL MOLD.—Wm. E. Worth, San Francisco, Cal. 110,718.—HARVESTER.—Charles M. Young, Meadville, Pa. 110,719.—MUSICAL NOTATION FOR ACCORDEONS.—Carl F. Zimmermann, Philadelphia, Pa. 110,720.—SEEDING MACHINE.—D. S. Alvord, Austinburg, and Charles D. Hollis, Ashtabula, Ohio. 110,721.—MEAT CUTTER.—Jeremiah S. Artley, Danville, Pa. 110,722.—IRON PLOW BEAM.—Albert Ball, Canton, Ohio. Antedated December 29, 1870. 110,723.—CAR REPLACER.—David H. Ball and John Brooks, Sinnamahoning, Pa. 110,724.—GRAIN DUMPING CAR.—Leonard Bammerlin, Massillon, Ohio. 110,725.—REIN HOLDER.—Wm. Barstow, San Francisco, Cal. Antedated December 30, 1870.

110,726.—CURTAIN BRAKE.—T. S. Bailie and G. H. Maurer, Washington, D. C.
110,727.—COATING AND DECORATING PAPER, CLOTH, AND OTHER MATERIALS.—Frederick Beck, New York city.
110,728.—SASH HOLDER.—John H. Bloodgood, Bridgeport, Conn.
110,729.—GAS APPARATUS.—Abraham L. Bogart, New York city.
110,730.—SHUTTLE FOR SEWING MACHINES.—F. W. Boland, New York city.
110,731.—HOT-AIR FURNACE.—Lansing Bonnell, Milwaukee, Wis.
110,732.—CIGAR MOLD.—Nicholas H. Borgfeldt, New York city.
110,733.—FASTENER FOR MEETING-RAILS OF SASHES.—Elias K. Breckenridge, West Meriden, Conn.
110,734.—MANURE FORK.—A. S. Brinser and Henry Bricker, Falmouth, Pa.
110,735.—SEWING MACHINE.—William H. Buker, Johnstown, N. Y.
110,736.—COMBINED CULTIVATOR AND FLANTER.—Peter Barriss, Braintree, Ill.
110,737.—HEMMEK FOR SEWING MACHINES.—Cyrus Carleton, Brooklyn, N. Y., assignor to Wilcox & Gibbs Sewing Machine Company, New York city.
110,738.—PRESERVING WOOD.—Thomas W. Chandler (assignor to himself and Nicholas De Peyster), New York city.
110,739.—SEWING MACHINE FOR WORKING BUTTON-HOLES.—Sherman Cleminshaw, Troy, N. Y.
110,740.—BINDER FOR SEWING MACHINES.—Jacob L. Coles, Newark, N. J.
110,741.—AUTOMATIC CAR COUPLING.—David Pitkin Cory (assignor to himself and Josiah Crane, Jr.), Cranford, N. J.
110,742.—HARVESTER.—William Robert Cory, Springfield, Ill.
110,743.—BOOT JACK.—John Crabtree, Cincinnati, Ohio.
110,744.—CHILDREN'S CARRIAGE.—John C. Crandall, New York city.
110,745.—CHILDREN'S CARRIAGE.—William E. Crandall, New York city.
110,746.—RAILWAY-CAR SEAT.—William Crandell, Westfield, N. Y.
110,747.—DOOR FOR RANGES.—Royal E. Deane and Thomas Shedd, New York city.
110,748.—MACHINE FOR BENDING METAL STIRRUPS.—John H. De Vallin, Baltimore, Md.
110,749.—WASHING MACHINE.—Samuel De Vesu, Syracuse, N. Y.
110,750.—GATE.—Albert Jason Dimick, Berlinville, Ohio.
110,751.—HANDLE FOR CROSS-CUT SAW.—Thomas S. Disston (assignor to himself and Henry Disston & Son), Philadelphia, Pa.
110,752.—QUADRAT.—William Donald, Erie, Pa.
110,753.—FEED-WATER PIPE.—John Doyle, Baltimore, Md.
110,754.—TUG FOR TOWING BOATS.—Walter Everson, New York city.
110,755.—SPIKE MACHINE.—David Eynon, Richmond, Va.
110,756.—SPIKE MACHINE.—David Eynon (assignor to Tredegar Company), Richmond, Va.
110,757.—FRUIT CAN.—Reuben G. Farnham (assignor of one half his right to Russell B. Wheeler), Elbridge, N. Y.
110,758.—LAW.—Nelson Faught, Pittsborough, Ind.
110,759.—EXCAVATOR.—David Gilmore and William W. Forrest (assignors to George Lalow), Peotone, Ill.
110,760.—PRECAUTIONARY ATTACHMENT FOR BOTTLES CONTAINING POISON.—Joseph Harrison, Philadelphia, Pa.
110,761.—DEVICE FOR NICKING SCREW CAPS.—William Hillhouse and George W. Briggs (assignors to "The Griley Company"), New Haven, Conn.
110,762.—DEVICE FOR CULTING SOLES FOR BOOTS AND SHOES.—Archelaus M. Howe, Worcester, Mass.
110,763.—BR OILER.—Michael T. Hynes, Boston, Mass.
110,764.—HOLLOW BRICK.—Geo. H. Johnson, New York city.

110,765.—CARPENTERS' SHOOTING BOARD.—Joseph Jones, Newark, N. J.
110,766.—CARRIAGE AXLE.—Henry Killam, New Haven, Conn.
110,767.—EYELETING MACHINE.—Albert Komp, New York city.
110,768.—METALLIC HEEL.—Austin S. Mann, St. Louis, Mo.
110,769.—IRONING TABLE.—Daniel W. Marshall, Pawtucket, R. I.
110,770.—FARE RECORDER FOR CARS, ETC.—George R. Metten, Cleveland, and Oscar S. Pease, Xenia, Ohio; said Metten assignor to said Pease.
110,771.—HORSE HAY RAKE.—Charles Rollin Merriam, Middlebury, Vt., assignor to himself and W. H. Merriam, Stratford, N. H.
110,772.—CORN HUSKER.—Abel Merwin, St. Joseph, Mich.
110,773.—METHOD OF FORMING BODY LOOPS FOR CARRIAGES.—Robert R. Miller, Plantsville, Conn.
110,774.—COMPOUND FOR DESTROYING WORMS IN THE COTTON PLANT.—Thomas W. Mitchell (assignor to himself and Robert P. Briscoe), Richmond, Texas.
110,775.—STREET SPRINKLER.—William C. Moores (assignor of two thirds of his right to Gilbert Patten), Washington, D. C.
110,776.—CAR COUPLING.—Joseph Mount, Monroe Township, N. J.
110,777.—MACHINE FOR CUTTING THE ENDS OF WOODEN PENCILS.—Teile H. Muller (assignor to Joseph Reckendorfer), New York city.
110,778.—LIGHTNING ROD.—David Munson, Indianapolis, Ind.
110,779.—CASTING CAR WHEELS.—Chandler Needham, Worcester, Mass.
110,780.—CAR STARTER.—William Harrison Newton, Newport, R. I.
110,781.—HEATING STOVE AND DRUM.—William H. Nobles (assignor to himself and C. D. Williams), St. Paul, Minn.
110,782.—HAIR PUFF OR ROLL.—Joseph D. Oppenheimer, Philadelphia, Pa.
110,783.—FASTENING FOR BRACES, ETC.—Edward Lawley Parker, Birmingham, England.
110,784.—MILK HOUSE.—Henry Peregoy, Mount Carmel, Md.
110,785.—STEP LADDER.—William G. Philips, Newport, Del.
110,786.—CORN PLANTER.—Fielding W. Poe, Jr., Vandalia, Ill.
110,787.—WINDOW SHADE.—Ansel W. Porter, Union City, Ind.
110,788.—CORN PLANTER.—Jacob R. Randall, Camargo, Ill.
110,789.—WRENCH.—John F. Robertson (assignor of two thirds his right to James H. Holly and John G. Knapp), Warwick, N. Y.
110,790.—MACHINE FOR SEWING OR WORKING BUTTON HOLES.—Charles E. Robinson, Boston, Mass.
110,791.—FRAME FOR TRAVELING BAGS, ETC.—William Roemer Newark, N. J.
110,792.—TARGET GAME.—John C. Schooley, New York city.
110,793.—STEERING APPARATUS.—John C. Schrader and Carl L. Mathieson, New York city.
110,794.—STREET PAVEMENT.—William E. Shaw, Portland, Me.
110,795.—WARPING MACHINE.—Thomas Singleton, Over Darwen, England.
110,796.—HYDRAULIC ENGINE.—William Snyder, Bullskin Township, Pa.
110,797.—RAILWAY RAIL CHAIR.—William H. Staats, Crescent, assignor of one half his right to Rufus Lape and Charles A. McLeod, Troy, N. Y.
110,798.—ENVELOPE.—Robert Sherwood Stubbs, Lisbon, N. H.
110,799.—MOWING MACHINE.—Zuriel Swope, Lancaster, Pa.
110,800.—APPARATUS AND PROCESS OF CLEANING COTTON WASTE, ETC.—George W. Sylvester, Belleville, N. J.
110,801.—MEAT CHOPPER AND VEGETABLE SLICER.—James M. Taft, Arcadia, Wis.
110,802.—CLOTHES LINE HOLDER.—Ezra W. Talbot (assignor to himself and James W. Miller), Napoleon, Ohio.
110,803.—RAILROAD CAR VENTILATOR.—Clark P. Tillinghast, Providence, R. I.

110,804.—SODA WATER FOUNTAIN.—Antony Tumber, New York city.
110,805.—SCHOOL DESK AND CHAIR.—Alexander Sidney Vaughan, Elkton, Md.
110,806.—APPARATUS AND PROCESS FOR DISTILLING OIL.—William G. Warren, Philadelphia, Pa.
110,807.—COTTON PLANTER.—Dwight F. Welsh, Nevada, Ohio.
110,808.—RAILWAY SWITCH.—William Wharton, Jr., Philadelphia, Pa.
110,809.—BEE HIVE.—John Wheeldon, Greensburg, Ind.
110,810.—ATTACHMENT FOR SEWING MACHINE.—William H. White (assignor of one half his right to I. Wellington Hoyer), Baltimore, Md.
110,811.—CORN PLANTER.—Joseph M. Whitmore and John N. Arvin, Valparaiso, Ind.
110,812.—MACHINE FOR WRAPPING "KISSES," ETC.—Charles C. Wilson, Baltimore, Md.
110,813.—CUT-OFF VALVE FOR STEAM ENGINES.—George S. Young (assignor to himself and Al Fitch Boynton), Clearfield, Pa.
110,814.—MILL-SPINDLE STEP.—George S. Young (assignor to himself and Al Fitch Boynton), Clearfield, Pa.

REISSUES.

4,223.—CHILDREN'S CARRIAGE.—William E. Crandall, New York city. Patent No. 100,121, dated Feb. 22, 1870; reissue No. 3,972, dated May 17, 1870.
4,224.—SECURING RAILWAY-RAILJOINT.—Lyman Fay, Worcester, Mass., assignor to Joseph M. Rice, same place, and Daniel R. Pratt, New York. Patent No. 35,307, dated June 17, 1862.
4,225.—DIVISION A.—INSTRUMENT FOR DRAFTING GARMENTS.—Ursula Louise Leete, New Haven, Conn. Patent No. 107,068, dated Sept. 6, 1870.
4,226.—DIVISION B.—INSTRUMENT FOR DRAFTING GARMENTS.—Ursula Louise Leete, New Haven, Conn. Patent No. 107,068, dated Sept. 6, 1870.
4,227.—CLOTHES WASHER.—Ariadna B. Mercier, Providence, R. I. Patent No. 56,773, dated July 31, 1870.
4,228.—PUNCH.—Isaac P. Richards, Whitinsville, Mass. Patent No. 104,769, dated June 28, 1870.
4,229.—BLANK FOR AND DIE FOR MAKING MOLD BOARDS FOR PLOW.—William Mead Watson, Tonica, Ill. Patent No. 109,825, dated March 15, 1870.

DESIGNS.

4,547 to 4,550.—CARPET PATTERN.—Robert R. Campbell (assignor to Lowell Manufacturing Company), Lowell, Mass. Four Patents.
4,551.—HAIR PIN.—William F. Fluhrer, New York city.
4,552 and 4,553.—TYPE.—Julius Herriet (assignor to David Wolf Bruce), New York city. Two Patents.
4,554.—EGG STEAMER.—William Kirkham, Springfield, Mass.
4,555.—SHAWL.—Charles H. Landenberger, Philadelphia, Pa.
4,556.—RAILING FOR CEMETERY LOTS.—Albert Laurence Murphy, Philadelphia, Pa.
4,557.—LAND MARK.—John H. Parrish, Greensborough, Ala.
4,558.—COLLAR-BOX COVER.—Pulaski B. Pickens, New York city.
4,559 to 4,561.—TYPE.—Richard Smith (assignor to MacKellar, Smiths & Jordan), Philadelphia, Pa. Three Patents.
4,562.—CHAIN HOOK.—George D. Stevens, New York city.

TRADE MARKS.

122.—DURHAM TOBACCO.—W. T. Blackwell, Durham, N. C.
123.—AGRICULTURAL IMPLEMENT.—Hall & Speer, Pittsburgh, Pa.
124.—HAY ELEVATOR AND OTHER AGRICULTURAL IMPLEMENTS.—Aaron J. Nellis, Pittsburgh, Pa.
125.—SEA MOSS COUGH CANDY, TROCHES, AND SIRUP.—William J. Rans, Jr., Brooklyn, N. Y.
126.—CIGAR.—Straiton, Schmitt & Storm, New York city.
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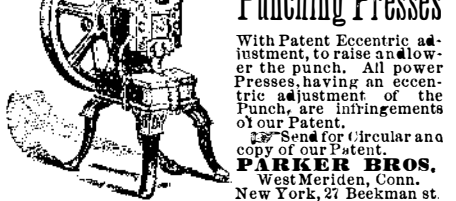
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