

CLOTHES PIN.—K. H. Goss, Cedar Springs, Mich.—This invention relates to improvements in clothes pins, and it consists in a piece of wire having one or more coils at the center, and a sharp bend in each part below the coils at the termination of which the two parts cross, and beyond these bends the said two parts are bent backward beyond the coils, to form levers for opening the pin, and terminate in finger pieces suited to grasp between the thumb and finger for opening the bent parts below the coil for attaching to the clothes line.

AWNING FRAME FOR ANIMALS.—Simon Moffitt, Minneapolis, Minn.—This invention relates to an awning to be attached to the pole of a two-horse wagon, for the purpose of protecting the animals, when harnessed to the wagon, from the action of sun and rain.

CEILING FOR STAGES.—J. W. Dunne, New York city.—This invention relates to an improvement in ceilings which are to be used on the stages of theatres, opera houses, etc., to complete and perfect the display of scenery.

MATCH SAFE.—William Stine, Elmore, Ohio.—This invention relates to a new match safe, which is so constructed that the matches can be successively and singly be removed from the same without requiring the opening of the main lid or cover.

WATER AND WIND WHEEL.—Andrew Folsom, Eastport, Me.—This invention relates to a new water or wind wheel, which is so constructed that it will serve to revolve its shaft whenever it is exposed to a current of liquid or air, whatever the direction from which the same may come.

WIND MILL.—Peter Bailey, Smyrna, Iowa.—This invention relates to a wind-mill constructed with a double wind wheel, the two parts of which are mounted, side by side, on the same shaft, and revolve in opposite directions. The apparatus is supplied with rudders, that have adjustable wings, by regulating which the wind wheels may be kept face to the wind, or inclined to the wind, or side to the wind, at pleasure, the wheels, when in this last mentioned position, being stopped.

WINDOW-SILL AND FIRE-ESCAPE.—George Laynor and Harry Helmling, Baltimore, Md.—This invention consists in arranging in a window-sill, made as a box, and having a cover that turns back, and a side or sides that turn down, a fire escape ladder, so constructed that it may be folded compactly within the sill, and there stored till wanted for use, when the sill may be opened, and the ladder unfolded and let down the side of the building. The invention also consists in so constructing the ladder that the several sections thereof fold one within another, so as to occupy a minimum of space.

ILLUMINATING APPARATUS.—F. H. Lutkewitte, St. Louis, Mo.—This invention consists of a series of small hydrogen chambers, filled with absorbent, and arranged in a series of sections, which may be shut off from one another, to graduate the amount of oil through which the air passes, and its time of contact therewith, according to the temperature and season of the year.

CIDER OR WINE MILL.—W. B. Farrar, Greensboro, N. C.—This invention relates to a cider or wine mill, in which the unbroken fruit is first placed in a press-box, wherein, by the moving of the platen, it is fed up to the revolving grinding cylinder, and thereby reduced to pomace; and in which the pomace is then replaced in the same box, and, by the operation of the platen, forced again against the grinding cylinder, which now stands still, whereby the juice is expressed from the pomace, the same box thus serving to hold the fruit to both while grinding and pressing.

COTTON PRESS.—C. C. Conner, D. D., Ripley, Tenn.—This invention relates to an improvement in presses, in which the platen is raised and lowered by the action of two complementary sets of cables or ropes operated by one and the same set of vertical shafts, one set of ropes being unwound from the shaft as the other is wound upon them, and vice versa.

HAY LOADER.—L. D. Taylor, Granville Center, Pa.—This invention relates to a new hay-loader, which is to follow a wagon for the purpose of transferring the hay to the same. The invention consists in a new arrangement of inclined rake-heads, which receive their motion from two crank shafts, so that they will serve to elevate the hay gradually to the top of the wagon; also in the combination of the same with a fixed inclined platform having detaining teeth.

ROTARY STEAM ENGINE.—T. S. La France, Elmira, N. Y.—This invention relates to a new rotary engine, of the class composed of two toothed drums or wheels within a fixed case, the drums being revolved by the pressure of steam against their teeth.

LOOM.—W. R. Gifford, W. R. Gifford, Jr., and J. A. Gifford, Piscataqua Co., Me.—This invention relates to improvements in hand looms, and consists in certain novel arrangements of apparatus for setting the spring for acting the picket staves by the action of the lathe, the same being accomplished during the backward movement, so that on the forward movement, the whole power may be applied to the reed in beating up. The invention also comprises improvements in the arrangement of the driving shaft and the apparatus for operating the lathe by which the treddles and the yarn beam are operated, and it also comprises improvements in the part of the frame which supports the cam shaft and the yarn beam, calculated to facilitate packing for shipment.

FEEDER FOR NAIL MACHINES.—H. B. Landers, Williamsburgh, N. Y.—The object of this invention is to provide a mechanism whereby plate iron can be fed to the cutting apparatus of a nail machine at such regular intervals that the blanks can be cut therefrom with the desired velocity.

ASH SIFTER.—G. W. Rogers, New York city.—This invention relates to a new ash sifter, in which an oscillating sieve is employed, the same being supported on an U-shaped rock shaft, from which it can be readily detached. A very convenient and reliable ash sifter is thereby produced.

EEL TRAP FOR WATER PIPES.—J. J. Dutcher, New Haven, Conn.—The object of this invention is to provide an eel trap at the extreme end of the water pipe, let into a main or reservoir, so that the eels cannot enter a portion of the pipe.

BOLT.—William C. Coles, Williamsburgh, N. Y.—This invention has for its object to furnish a neat, simple, and convenient bolt for window sashes, doors, etc.

PLATFORM SPRING COUPLING.—Benjamin T. Parsels and John L. Hedges, Hanover, N. J.—This invention has for its object to furnish an improved coupling for platform springs, which shall be simple in construction, strong and durable, and which will allow the springs to lengthen under pressure, without twisting or straining them.

CHURN DASHER.—Stephen Stout, Tremont, Ill.—This invention has for its object to furnish an improved churn dasher, simple in construction and effective in operation, bringing the butter in a very short time, and gathering it, when brought, quickly into a mass.

FOUNTAIN PAINT BRUSH.—Daniel J. Kellogg, Toledo, Ohio.—This invention has for its object to improve the construction of the improved fountain paint brush, patented, by the same inventor, January 17, 1871, and numbered 110,978, so as to make it more convenient in use, and more effective in operation.

COVERING FOR MELTING POTS.—Albert C. Lewis, New York city.—This invention has for its object to furnish an improved covering for melting pots, to protect them from being injured by the intense heat, and by the adhesion of the coals.

ANIMAL TRAP.—C. R. Veronee, Athens, Ga.—This invention relates to a new and useful improvement in traps for catching rats and other animals.

SPINDLE BEARING.—Charles Wilson, Brooklyn, N. Y.—This invention relates to a new and useful improvement in bearings or boxes for upright spindles, in spinning frames in cotton or woolen manufactories, and for other upright journals.

TUBULAR STEAM BOILER.—James Howard and Edward Tenney Bousfield, Bedford, England.—This improved boiler is constructed of sections or a group of tubes, so arranged that the main connecting tube of each section will be in or approach a vertical position, with smaller tubes projecting from one side of it, say at right angles thereto, and secured to it by any approved method. The tubes which stand out at right angles to the main tube, we prefer to connect by water and steam warp with each other at both ends.

WAREHOUSE TRUCKS.—John S. Cochran, New York city.—This invention relates to a new and useful improvement in trucks for warehouses, stores, etc.

MILLSTONE BALANCE.—J. A. Aithouse, New Harmony, Ind.—This invention relates to a new and useful device for balancing millstones, and consists in a weight or weights, made adjustable on the side or sides of the stone, by means of slotted bars and plates.

WAGON BRAKE.—Abraham Quinn, Brooklyn, N. Y.—This invention relates to improvements in brakes for wagons, and it consists in a shoe, suspended by bars from the axle eccentrically to the axles, so that when let fall under the wheel it will bind firmly against the rim, which said shoe is held out of action by a chain and hand lever, arranged for readily letting it fall in case the horses attempt to run, and the said shoe is connected by a drag chain to the check rein in such a way that when it falls down under the wheel to its working position, it will check up the horse.

ROTARY STEAM ENGINE.—William Barry, Carthage, N. Y.—This invention relates to improvements in rotary steam engines, and consists in a rotary hub or wheel, with a conical face, in which is a groove or channel for the steam, with taper sides, in which groove fills a tapered stop, for separating the live steam from the exhaust, projecting through a case, having an inner face corresponding to and fitting around the hub, in which are two pistons, on which the steam acts, fitted in grooves traversing the steam groove, and arranged for sliding out to pass the stop and in again by the action of a cam groove or a cam and a spring.

SAWING MACHINE.—Wm. W. Waterbury and Jno. M. Waterbury, New Canaan, Conn.—This invention relates to improvements in foot power circular sawing machines, and it consists in the application to a bench having the saw mounted in the usual way, and multiplying gear for increasing the motion, of a tread wheel on the main driving shaft, for applying the power by treading thereon.

EXTENSION LADDERS.—R. F. Delmont, Flemington, Pa.—This invention relates to improvements in extension ladders, and consists in jointing the sections together by means of trunnions on the one section, arranged in angle plates attached to the other sections, having right-angled slots, and arranged so that one part of the slot is parallel with the bars of the section to which the said plates are attached, and the other parts are perpendicular thereto; and to the rods connecting the bars, so that one section may swing on the other, and slide up and down on it.

MIXED FELTED GOODS.—Theo. Demuth, Danbury, Conn.—The nature of this invention consists in the preparation of woolen or cotton yarn, of different colors, to be applied to the wool in process of manufacture, for imparting the mixed character by a solution of gum shellac, or other suitable resinous or glutinous substance, for the purpose of keeping the same intact and distinct, and preventing the assimilation and entanglement of its fibers with those of the wool with which it is mixed, in the process of carding and fulling, thereby producing a new and distinct mixed felted fabric, which cannot be obtained with the same materials without such preparation of the yarn.

Official List of Patents.

ISSUED BY THE U. S. PATENT OFFICE.

FOR THE WEEK ENDING APRIL 4, 1871.

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Table with 2 columns: Description of patent fees and their corresponding amounts in dollars and cents.

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Full information, as to price of drawings, in each case, may be had by addressing

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- 113,238.—MACHINE FOR MAKING BOXES.—E. G. Alden, Cambridge, Mass.
113,239.—MANNER OF PACKING AND CONVEYING ICE CREAMS, WATER ICES, ETC.—Ignazio Allegretti, Philadelphia, Pa.
113,240.—MAGNETIC-ELECTRO DIAL TELEGRAPH.—George L. Anders, Boston, Mass.
113,241.—STEAM COOKING RANGE.—John Ashcroft (assignor to Sarah Jane Ashcroft), Brooklyn, N. Y.
113,242.—FLUTING MACHINE.—S. William Babbitt, West Meriden, Conn.
113,243.—WINDMILL.—Peter Bailey, Smyrna, Iowa.
113,244.—BRUSH, BROOM, AND MOP HOLDER.—Charles L. W. Baker (assignor to C. L. W. Baker & Co.), Hartford, Conn.
113,245.—DAMPER FOR CHIMNEYS.—Peter Baker, Oakland, Md.
113,246.—POWER PRESS.—C. J. Beasley (assignor to Tappey, Lunsden & Co.), Petersburg, Va.
113,247.—VALVE FOR STEAM PUMPS.—John V. V. Booraem, Jersey City, N. J.
113,248.—VALVE FOR STEAM PUMPS.—John V. V. Booraem, Jersey City, N. J.
113,249.—APPARATUS FOR CASTING.—John P. Broadmeadow, Bridgeport, Conn.
113,250.—MANUFACTURE OF SALT.—J. R. Buchanan, Louisville, Ky.
113,251.—CHURN.—W. E. Budd, Chatham, N. J.
113,252.—STEAM AND HYDRAULIC PACKING.—W. M. Canfield, Philadelphia, Pa.
113,253.—HORSE COLLAR AND HAME.—Otho Cann, Coldwater, Mich.
113,254.—WASHING MACHINE.—C. E. Carter, Martinsville, Ohio.
113,255.—ROLL FOR ROLLING HORSESHOE BARS.—Ebenezer Cate, East Woburn, Mass.
113,256.—PAPER-CUTTING AND FOLDING MACHINE.—Cyrus Chambers, Jr., Philadelphia, Pa.
113,257.—PAPER-CUTTING AND FOLDING MACHINE.—Cyrus Chambers, Jr. (assignor to Edward Chambers and Cyrus Chambers, Jr.), Philadelphia, Pa.
113,258.—RUBBER AND BRUSH.—Augustus Charles, Pittsburgh, Pa.
113,259.—GAITER.—Peter E. Clark, Hartford, Conn.
113,260.—DEVICE FOR PREPARING BEEFSTEAK FOR BROILING.—W. A. Clark, Woodbridge, Conn.
113,261.—SHOEMAKERS' PINNERS.—Alfred Clarke, Philadelphia, Pa.
113,262.—CUTTER HEAD FOR PLANING MACHINES.—Henry Climer and C. E. McBeth, Hamilton, Ohio.
113,263.—WAREHOUSE TRUCK.—John S. Cochran, New York city.
113,264.—BOLT.—W. C. Coles, Williamsburgh, N. Y.
113,265.—COTTON PRESS.—C. C. Conner, Ripley, Tenn.
113,266.—STOOL OR TABLE.—Albert O. Crane, Boston, Mass.
113,267.—CAMERA STAND.—Aylett R. Crihfield, Lincoln, Ill.
113,268.—STAVE JOINTER.—Harry A. Crossley, Cleveland, Ohio.
113,269.—CHEMICALLY-PREPARED LAMPWICK.—Aaron M. Daniels, Hartford, Conn.

- 113,270.—SPRING FOR VEHICLES.—J. N. Decker (assignor to himself and Thomas J. Smith), Covington, Ky.
113,271.—FLUTING MACHINE.—E. M. Deey, New York city.
113,272.—MANUFACTURE OF BILLIARD BALLS AND OTHER COMPOSITION ARTICLES.—Lewis Deitz, B. P. Wayne, and Albert Stone Albany, N. Y.
113,273.—EXTENSION LADDER.—R. F. Delmont, Flemington Pa.
113,274.—FELTED FABRIC.—Theodore Demuth, Danbury Conn.
113,275.—SASH HOLDER.—John F. Dingee, Bedford Station N. Y.
113,276.—LITHOGRAPHIC PRINTING.—Otto Dubois, Fall River Mass.
113,277.—CEILING FOR STAGES.—John W. Dunne, New York city.
113,278.—EEL TRAP FOR WATER PIPES.—J. J. Dutcher (assignor to G. W. Dutcher), New Haven, Conn.
113,279.—PURIFYING ANIMAL CHARCOAL.—Hermann Eissfeldt, Sollingen, Duchy of Brunswick, and Camillo Thumb, Magdeburg Prussia.
113,280.—BOLT HEADING DIE.—Philip Eley, New York city, assignor, by mesne assignments, to Charles Wallich, George Hancock, and Alexander Young.
113,281.—WATCH REGULATOR.—Julius Elson, Boston, Mass.
113,282.—GATE.—J. B. Erwin, Pittsburgh, Pa.
113,283.—CIDER AND WINE MILL.—W. B. Farrar, Greensborough, N. C.
113,284.—WATER AND WIND WHEEL.—Andrew Folsom Eastport, Me.
113,285.—WAGON JACK.—George Benedict Fowler, Brooklyn, N. Y.
113,286.—HARROW.—William Fox, Beaver Dam, Wis.
113,287.—CHAIR.—George Gardner, Glen Gardner, N. J.
113,288.—LOOM.—W. R. Giffard, W. R. Giffard, Jr., and J. A. Giffard, Me.
113,289.—CLOTHES PIN.—Keyes J. Goss, Cedar Springs, Mich.
113,290.—RAILROAD CAR BRAKE.—John C. Gove, Cleveland, Ohio.
113,291.—PAPER FEEDER.—John A. Graves, Washington, D. C.
113,292.—FISH TRAP.—Job E. Hammond, New Bedford, Mass.
113,293.—DUMPING CART.—William Hand, Plainfield, N. J.
113,294.—GATE.—U. W. Hardy, Abingdon, Ill.
113,295.—PIN LOCK.—August Hermann and W. H. Taylor (assignors to the Yale Lock Manufacturing Co.), Stamford, Conn.
113,296.—GRAIN SCOURER AND SEPARATOR.—S. H. Hinsdell, H. W. Drake, and C. B. Way, Camillus, N. Y.
113,297.—WOOD PULP MACHINE.—W. M. Howland, Topsham, Me.
113,298.—TUBULAR STEAM BOILER.—James Howard and E. T. Bousfield, Bedford, England.
113,299.—AUTOMATIC APPARATUS FOR OPERATING THE VALVE OF THE EXHAUST PIPE OF LOCOMOTIVES.—Ralph C. Huse, Jr. Georgetown, Mass.
113,300.—BRICK AND TILE MACHINE.—William Hutchinson Salford, Great Britain.
113,301.—WINDOW BLIND OPERATOR.—George Jennisen and M. F. Otis, Westborough, Mass.
113,302.—MILK COOLER.—Nelson Johnson and R. E. Johnson, Jasper, N. Y.
113,303.—SASH HOLDER.—Wm. G. Jones and S. M. Rankin, Long Green, Md.
113,304.—COMBINED CHAIR AND STEP LADDER.—Ib Jørgensen and Rasmus Olson, Racine, Wis.
113,305.—FOUNTAIN PAINT BRUSH.—D. J. Kellogg, Toledo Ohio.
113,306.—CULTIVATOR.—A. H. Kennedy, Oberlin, Ohio.
113,307.—ROLLING BED.—Julius Krich and Charles Thoen, New York city.
113,308.—POTATO DIGGER.—J. P. Lafreta, Shrewsbury, N. J.
113,309.—ROTARY STEAM ENGINE.—J. S. La France, Elmira N. Y.
113,310.—FEEDER FOR NAIL MACHINE.—H. B. Landers, Williamsburgh, N. Y.
113,311.—FIRE ESCAPE.—George Laynor and Harry Helmling, Baltimore, Md.
113,312.—COVERING FOR MELTING POTS.—A. C. Lewis (assignor to himself, H. A. Richardson, and N. A. Boynton), New York city.
113,313.—CLOTHES PIN.—A. B. Lipsey, West Hoboken, N. J.
113,314.—MACHINE FOR TAPPING GAS AND WATER FITTINGS.—C. B. Long, Worcester, Mass.
113,315.—COVER AND DESK FOR SEWING MACHINES.—B. T. Loomis and J. A. Carey, New York city.
113,316.—COMBINATION LOCK.—Samuel Loyd, New York city.
113,317.—APPARATUS FOR CARBURETING AIR AND GAS.—F. H. Lutkewitte, St. Louis, Mo.
113,318.—SWIVEL PIN FOR TETHERING ANIMALS.—William Lyon, Camp Halleck, Nevada.
113,319.—PAPER BOX.—B. J. Magee and J. F. Wall, Water-town, Mass.
113,320.—COTTON SCRAPER, HILLER AND CULTIVATOR.—Cyrus Marsh, 2d, Natchez, Miss.
113,321.—HARVESTER RAKE.—Alexander McArthur, Booneville, Mo.
113,322.—PADLOCK.—George Merkel and C. H. Meyer, New York city.
113,323.—AWNING FOR ANIMALS.—Simon Moffitt, Minneapolis, Minn.
113,324.—FURNACE GRATE.—G. R. Moore, Philadelphia, Pa.
113,325.—MACHINE FOR WINDING BOBBINS.—F. H. Morrill, Philadelphia, Pa.
113,326.—MACHINE FOR CORKING BOTTLES.—David Mueller (assignor to himself and Franz Wagner), New York city.
113,327.—MODE OF PREPARING PAPER FOR PHOTOGRAPHIC PURPOSES.—P. H. Murray, Portsmouth, Ohio.
113,328.—WATER-PROOF CELLAR.—Tobias New, Brooklyn, N. Y.
113,329.—FIRE ESCAPE.—G. H. Nichols, Richmond, Va.
113,330.—COMB.—C. H. Noyes, Brooklyn, N. Y.
113,331.—ORNAMENTING THE SURFACE OF METAL BY ELECTRO-DEPOSITION FROM SOLUTIONS.—Richard O'Neil, New York city.
113,332.—MACHINE FOR ROLLING HOLLOW BARS FOR NUTS.—Jonathan Ostrander, Manchester, Va.
113,333.—EXTENSION LOUNGE.—J. S. Paine, Cambridge, Mass.
113,334.—GATE.—B. F. Palmer, Baraboo, Wis.
113,335.—PLATFORM SPRING COUPLING.—B. T. Parsels and J. L. Hedges, Hanover, N. J.
113,336.—LAWN MOWER.—E. G. Passmore, Philadelphia, Pa.
113,337.—STOP VALVE.—J. L. Peake, New York city.
113,338.—PORTABLE APPARATUS FOR PRESERVING WOOD.—W. T. Felton, New York city.
113,339.—APPARATUS FOR STRIPPING THE TOP FLATS OF CARDBOARD MACHINES.—E. C. Pfaff, Chemnitz, Saxony, assignor to Dobson & Barlow.
113,340.—COMB.—Leonce Picot, Hudson City, N. J.
113,341.—SHOVEL PLOW.—S. W. Pope, Louisville, Ky.
113,342.—ADJUSTABLE SEAT.—Louis Postawka, East Cambridge, Mass.
113,343.—PRINTING SILKS AND OTHER TEXTILE FABRICS.—Louis Prang, Boston, Mass.
113,344.—DRILL STOCK.—W. H. Rand, Brooklyn, N. Y.
113,345.—FIELD THRASHING MACHINE.—George Rieke, Kairo Township, Minn.
113,346.—PRINTING PRESS.—J. T. Robertson, New York city.
113,347.—CLOTHES-WRINGING PRESS.—Charles Robinson Boston, Mass.
113,348.—RAILROAD CAR HEATER.—A. M. Rodgers, Brooklyn, N. Y.
113,349.—ASH SIFTER.—G. W. Rogers, New York city.
113,350.—MACHINE FOR CHANNELING AND BEVELING SOLES FOR BOOTS AND SHOES.—J. G. Ross, Philadelphia, Pa.
113,351.—FOOT SCRAPER.—August Sahlstrom, Chicago, Ill.
113,352.—WASHING AND WRINGING MACHINE.—J. S. Sandt St. Joseph, Mo.
113,353.—COAL-DELIVERING SACK.—W. S. Shackleton, Cleveland, Ohio.

113,354.—HOLD-BACK FOR VEHICLES.—N. W. Simons, Williamsfield, Ohio.
113,355.—FEED WATER HEATER.—T. D. Simpson, Mount Vernon, Ohio.
113,356.—CRACKER MACHINE.—G. R. Skillman (assignor to himself and James Beatty), Baltimore, Md.
113,357.—FIRE ESCAPE.—G. C. Smith and F. M. Burrows, Baltimore, Md.
113,358.—WHISK BROOM.—Greenleaf Stackpole, Elizabeth, N. J.
113,359.—MAIL-BAG FASTENER.—H. M. Stephenson and J. B. Tyler, Wabash, Ind.
113,360.—MATCH SAFE.—William Stine, Elmore, Ohio, assignor to himself and H. R. Lyle, Piatka, Fla.
113,361.—CHURN DASHER.—Stephen Stout, Tremont, Ill.
113,362.—HOISTING APPARATUS.—L. W. Stuart, Narrowsburg, N. Y. Antedated March 23, 1871.
113,363.—HAY LOADER.—L. D. Taylor, Granville Center, Pa.
113,364.—WINDOW-SHADE FIXTURE.—Nathan Thompson, Brooklyn, N. Y.
113,365.—COATING LAMPS.—G. W. Thomson, Buffalo, N. Y.
113,366.—WATER METER.—I. P. Tice, New York city.
113,367.—COTTON SCRAPER.—T. H. Trantham, De Soto county, Miss. Antedated March 23, 1871.
113,368.—RUBBER PAINT.—Samuel Truscott, Cleveland, Ohio.
113,369.—PORTABLE DUMPING HOD FOR EARTH CLOSETS.—E. W. C. Vanderveer, Elizabeth, N. J.
113,370.—ELECTRIC GAS LIGHTING AND EXTINGUISHING APPARATUS.—John Vansant, San Francisco, Cal.
113,371.—ANIMAL TRAP.—C. B. Veronee, Athens, Ga.
113,372.—BED LOUNGE.—Valentine von Dissen, New York city.
113,373.—POTATO DIGGER.—J. A. Wadhams, Blue Island, Ill.
113,374.—COFFER DAM.—J. E. Walsh, New York city.
113,375.—SAWING MACHINE.—W. W. Waterbury, and J. M. Waterbury, New Canaan, Conn.
113,376.—VOTE-RECORDING MACHINE.—Adan Weston, Keeseville, N. Y.
113,377.—COMBINED LOCK AND LATCH.—S. H. Wheeler, Dowagiac, Mich.
113,378.—HINGE.—Shepherd H. Wheeler (assignor to himself, Enos L. Chappell, and Guy E. Chappell), Dowagiac, Mich.
113,379.—FOOT LIFTER FOR BLACKSMITHS.—T. C. Williams, Warrentown, Mo.
113,380.—SPINDLE BEARING.—Charles F. Wilson, Brooklyn, N. Y.
113,381.—LIFTING JACK.—Hiram J. Wilson, Mason, Mich.
113,382.—CRIB ATTACHMENT FOR BEDSTEADS.—J. H. L. Wilson, Auburn, Kansas.
113,383.—COMBINED COTTON SEED PLANTER AND CULTIVATOR.—James A. Wright, Marietta, Ga.
113,384.—CHEST EXPANDER.—Samuel L. Barnett, New York city.
113,385.—SPRING BED BOTTOM.—L. M. Bates, Cleveland, Ohio. Antedated March 27, 1871.
113,386.—CHEEK PIECE FOR SHIPS' MASTS.—Joseph Baymore, Philadelphia, Pa.
113,387.—ADJUSTABLE CARRIAGE SEAT.—Sylvester W. Beach, Ypsilanti, Mich.
113,388.—ATTACHING MARBLE TOPS AND BACKS OF WASHSTANDS.—Wm. J. Bender, Cincinnati, Ohio.
113,389.—DOOR MAT.—Norborne Berkeley, Aldie, Va.
113,390.—GANG AND SUBSOIL PLOW.—Joel L. Bond, Marshalltown, Iowa.
113,391.—SEWING MACHINE.—Thomas W. Bracher, New York city.
113,392.—CORSET.—Morris P. Bray, Birmingham, Conn.
113,393.—MODE OF MAKING TELEGRAPH INSULATORS.—Wm. Brookfield, New York city.
113,394.—PACKAGE FOR HYDROCARBON AND OTHER LIQUIDS.—Morgan W. Brown, New York city.
113,395.—PACKAGE FOR OYSTERS, CLAMS, ETC.—Morgan W. Brown, New York city.
113,396.—COVERING FOR SAUSAGES AND OTHER MEATS.—Morgan W. Brown, New York city.
113,397.—PUMP VALVE.—Adam S. Cameron, New York city.
113,398.—TOWEL BRACKET AND SPONGE HOLDER.—J. F. Chandler, Boston, Mass.
113,399.—ELECTRIC BATTERY FOR TELEGRAPHING AND OTHER PURPOSES.—Daniel M. Cook, Mansfield, Ohio.
113,400.—WATER WHEEL.—Gardner Cox, Pierpont, N. Y.
113,401.—SMELTING IRON AND OTHER ORES.—R. D. Cox and W. F. Cox, Philadelphia, Pa.
113,402.—CHILD'S CARRIAGE OR PERAMBULATOR.—Benj. P. Crandall, Jr., Williamsburgh, N. Y.
113,403.—SUSPENDING SIGN, ETC.—John H. Crane and Chas. W. Crane, Boston, Mass.
113,404.—STREET-SPRINKLING MACHINE.—S. E. Cursons, Buffalo, N. Y.
113,405.—SEDIMENT COLLECTOR FOR STEAM BOILERS.—C. W. Deane, Philadelphia, Pa.
113,406.—TRACE BUCKLE.—Myron H. Dinsmore (assignor to himself, Milton J. Snyder, and Aaron Briggs), Shickshinny, Pa.
113,407.—SEWING MACHINE.—Alfred S. Dinsmore, Boston, Mass.
113,408.—BREECH-LOADING FIREARM.—William C. Dodge, Washington, D. C.
113,409.—ADVERTISING DEVICE.—James F. Emery, Albany, assignor to himself and James E. Thomson, Buffalo, N. Y.
113,410.—HORSE POWER.—Thomas Addis Emmet Evans, Albany, Ga.
113,411.—EARTH CLOSET.—Benjamin Ferris, Wilmington, Del.
113,412.—SAW MILL.—George Finnegan, Dublin, Ireland.
113,413.—STOVE DRUM.—Charles Fisher (assignor to himself and Henry N. Wilcox), Niles, Mich.
113,414.—TUMBLER FOR PERMUTATION LOCKS.—Charles Fleisch, Rochester, N. Y.
113,415.—LET-OFF MECHANISM FOR LOOMS.—William T. Flinn (assignor to himself and Jacob Steinmetz Thorn), Philadelphia, Pa.
113,416.—TREATMENT OF SEWAGE AND THE MANUFACTURE OF FERTILIZERS.—David Forbes, York Place, Portman Square, and A. F. Price, Lincoln's Inn-Fields, England.
113,417.—MOTIVE-POWER APPARATUS.—J. T. Gilbert, Asbury, Ill.
113,418.—SKELETON CORSET.—T. S. Gilbert, Birmingham, Conn.
113,419.—CORSET.—Thomas S. Gilbert, Birmingham, Conn.
113,420.—BOOT AND SHOE SOLES.—Charles Goodyear, Jr., New Rochelle, and Joze De Silva, Williamsburgh, N. Y., assignors to Charles Goodyear, Jr.
113,421.—PLOW COLTER.—Charles M. Gordon, La Porte, Ind.
113,422.—CORN PLANTER.—Lewis Graham, Plymouth, Ill.
113,423.—MANUFACTURE OF PEAT FUEL.—R. A. Griffin, Montreal, Canada.
113,424.—FURNACE FOR STEAM BOILERS.—John C. Gripp, Pittsburgh, Pa.
113,425.—RAILWAY-BRIDGE SIGNAL APPARATUS.—T. S. Hall, New Haven, Conn.
113,426.—COMPOSITION FOR COATING PHOTOGRAPH PICTURES.—Happel, New York city.
113,427.—ROLLED METALLIC STRIPS FOR WASHERS.—T. C. Hargrave, Boston, Mass.
113,428.—VALVE AND VALVE GEAR.—William Z. Hatcher (assignor to himself and William L. Lance), Plymouth, Pa.
113,429.—COAL SCUTTLE.—G. H. Hazelton and D. W. Hazelton, Philadelphia, Pa.
113,430.—BOOT CRIMPER.—Henry Henley, Shoals, Ind.
113,431.—BULLET PATCH.—Alfred C. Hobbs, Bridgeport, Conn.
113,432.—MACHINE FOR FORMING HEEL RANDES.—Sumner Holmes, North Brookfield, and Joseph F. Sargent, Melrose, Mass.
113,433.—GRINDING PLATE.—Edmund S. Howland, Batavia, Ill.
113,434.—STEAM TRAP.—J. J. Jordan (assignor to himself and G. T. Carter), Philadelphia, Pa.
113,435.—APPARATUS FOR OPERATING CHURNS.—Preston L. Jordan, Lexington, Miss.
113,436.—PLOW.—John Lane, Jr., Chicago, Ill.
113,437.—COOKING STOVE.—E. C. Little, and D. H. Nation, St. Louis, Mo.

113,438.—APPARATUS FOR COOLING MILK.—John R. McKay, Rockton, Ill.
113,439.—MANUFACTURE OF EMERY WHEELS AND ARTIFICIAL STONE.—Edgar C. Merrill, Charleston, Vt.
113,440.—APPARATUS FOR DRAWING WATER FROM WELLS.—Merrick A. Mihills, Lodi, Ohio.
113,441.—WHEEL FOR VEHICLES.—J. R. Mills, Macon City, Mo.
113,442.—CULINARY VESSEL.—William H. Murch, Portland, Me.
113,443.—FLOUR SIFTER.—Oliver D. Myers, Doylestown, Pa.
113,444.—WASHING MACHINE.—John Osmun and John Curl, Rockport, N. J.
113,445.—SELF-ACTING MULE FOR SPINNING.—C. B. Parkinson, Aaron Metcalf, John Metcalf, and Wm. H. Heald, Preston, Great Britain.
113,446.—MACHINE FOR POUNCING HATS.—Augustus Pelisse and George W. Stoute, Newark, N. J.
113,447.—HOT AIR REGISTER.—Hugh M. Phinney, Boston, Mass.
113,448.—SAD IRON.—Mary Florence Potts, Ottumwa, Iowa.
113,449.—POTATO DIGGER.—John P. Radley, Albany, N. Y.
113,450.—ICE CREAM FREEZER.—John Franklin Rote, Reading, Pa.
113,451.—SPRING FOR WHEELED VEHICLES.—Cyrus W. Saladee, St. Catharines, Canada.
113,452.—TABLE-LEAF SUPPORT.—Daniel Saylor and Lauritz Anderson, Chicago, Ill.
113,453.—APPARATUS FOR SPREADING MEDICAL PLASTERS.—Adolph J. Schafhirt, Washington, D. C.
113,454.—TREATING PAPER AND VEGETABLE FIBROUS SUBSTANCES.—Augustus T. Schmidt, Pittsburgh, Pa.
113,455.—SAFETY VALVE.—Matthew Scranage and Edward Scranage, Jr. (assignors to Scranage, Bate & Co.), Boston, Mass.
113,456.—CORN SALVE.—Anthony Seabold, Florence, Ohio.
113,457.—MOP HEAD.—Samuel Selden and Matthew Griswold, Jr., Erie, Pa.
113,458.—WAGON BOLSTER STAKE.—Lewis Washington Shaeffer, Elizabethtown, Ky.
113,459.—COMPOUND FOR CURE OF FOOT ROT IN SHEEP.—William T. Sherman, Marengo, Ohio.
113,460.—FIRE ALARM.—Horatio N. Shultz, Mechanicstown, Md.
113,461.—BIRD CAGE MAT.—Isaac A. Singer, New York city.
113,462.—CAR COUPLING.—George C. Spangler (assignor to himself and Simpson H. Daft), Allegheny City, Pa.
113,463.—FRICTION CONDENSER FOR ILLUMINATING GAS.—William H. St. John, Brooklyn, N. Y., and Samuel O. Rockwell, Jersey City, N. J.
113,464.—CUTTER HEAD.—Alonzo Louis Sweet, Norwich, Conn.
113,465.—PERMUTATION LOCK.—William Terwilliger, New York city, assignor to himself and Frederick H. North, New Britain, Conn.
113,466.—TUBULAR STEAM BOILER.—Charles A. Thompson, Flushing, N. Y.
113,467.—FASTENING FOR MEETING RAILS OF SASHES.—Nathan Thompson, Brooklyn, N. Y.
113,468.—HALTER.—James Thornton (assignor to himself and E. G. Latta), Wellsville, N. Y.
113,469.—ATTACHMENT TO HAMES.—James Thornton and Emmet G. Latta, Wellsville, N. Y.
113,470.—BREECH-LOADING FIREARMS.—Frank Tiesing and Charles Gerner (assignors to Eli Whitney), New Haven, Conn.
113,471.—SHIP'S TRESTLE TREE.—Henry Townsend, Philadelphia, Pa. Antedated March 22, 1871.
113,472.—LAMP BURNER.—Joseph Trent, Millerton, N. Y.
113,473.—BASE BURNING STOVE.—Jaspar Van Wormer (assignor to himself and Michael McGarvey), Albany, N. Y.
113,474.—HARVESTER RAKE.—Cyrenus Wheeler, Jr., Auburn, N. Y.
113,475.—HARVESTER.—Cyrenus Wheeler, Jr., and Calvin Young, Auburn, N. Y.
113,476.—MOVABLE PARTITION.—Douglas Joseph Williams, Birmingham, England.
113,477.—BLOCK FOR TOP-PROP JOINTS FOR CARRIAGES.—John J. Wilson, New York city.

REISSUES.

4317.—SLIDE FOR EXTENSION TABLE.—Merrill E. Carter, Syracuse, and Elisha Metz, Rochester, N. Y.; Elisha Metz assignor, by mesne assignments, to Hayden & Hahn.—Patent No. 44,973, dated Sept. 6, 1864.
4318.—WATER PITCHER AND OTHER VESSELS.—Kingston Goddard, Richmond, N. Y., assignor to himself and John P. Adams.—Patent No. 97,390, dated November 30, 1869.
4319.—PISTON STEAM VALVE.—Robert C. Gray and William B. Brittingham, LaFayette, Ind., assignors to themselves and John Fordyce.—Patent No. 86,067, dated January 19, 1869.
4320.—DIVISION A.—MANUFACTURE OF ALIZARINE.—Charles Graebe, Frankfurt-on-the-Main, and Charles Liebermann, Berlin, Prussia.—Patent No. 95,465, dated October 5, 1869.
4321.—DIVISION B.—DYES OR COLORING MATTER FROM ANTHRACINE.—Charles Graebe, Frankfurt-on-the-Main, and Charles Liebermann, Berlin, Prussia.—Patent No. 95,466, dated October 5, 1869.
4322.—CARRIAGE WHEEL.—Robert W. McClelland, Springfield, Ill.—Patent No. 99,691, dated February 8, 1870.
4323.—MANUFACTURE OF GERMAN HAND CHEESE.—Francis C. Mende and Theodore F. Mende, Philadelphia, Pa.—Patent No. 95,500, dated October 5, 1869.
4324.—MACHINE FOR TIGHTENING ROPES, ETC.—Arthur P. Getz, Loughborough, England.—Patent No. 105,240, dated July 12, 1870; antedated April 21, 1868.
4325.—HARNESS FOR HORSES.—John Rouse, Palmyra, N. Y.—Patent No. 25,587, dated September 27, 1859.
4326.—ELECTRO-MAGNETIC REGULATOR FOR TEMPERATURE IN ROOMS, ETC.—George Miller Sternberg, New York city.—Dated No. 100,462, dated March 1, 1870.
4327.—COTTON PRESS.—Paul Williams, Winona, Miss., assignor to Robert A. Williams and James L. Williams.—Patent No. 73,683, dated January 21, 1868.

DESIGNS.

4746.—HITCHING POST CAP.—Roger S. Austin, Wallingford, Conn.
4747.—GANG PRESS.—Wellington Denison (assignor to himself and Joseph H. Knight), Rome, N. Y.
4748.—TELEGRAPHER'S BADGE PIN.—Orrin C. Dow and Alfred C. Harvey, St. Johnsbury, Vt.
4749.—CHAIN LINK.—Virgil Draper (assignor to Oscar M. Draper), Attleborough, Mass.
4750.—STATUE.—Angelo Fusary, New York city.
4751.—ORNAMENT FOR THE BACKS OF LOUNGES.—George Hartzell (assignor to John P. Reifsnieder), Philadelphia, Pa.
4752.—CASTER BOTTLE.—John Hoare, New York city.
4753.—ORNAMENTATION OF GLASS WARE.—William C. King (assignor to King, Son & Co.), Pittsburgh, Pa.
4754.—JELLY GLASS.—William M. Kirchner, Pittsburgh, Pa. Six patents.
4760 to 4767.—CARPET PATTERN.—Levi G. Malkin, New York city, assignor to Hartford Carpet Company, Hartford, Conn. Eight patents.
4768.—SODA FOUNTAIN.—George F. Meacham, Newton, assignor to James W. Tufts, Medford, Mass.
4769.—ORNAMENTATION OF RUBBER SHOES.—Christopher Meyer, New York city.
4770.—LAMP BRACKET.—Frederick R. Seidesticker (assignor to Bradley & Hubbard), West Meriden, Conn.
4771 to 4772.—CARPET PATTERN.—John H. Smith, Enfield, assignor to Hartford Carpet Company, Hartford, Conn.

TRADE-MARKS.

215.—WHISKY.—Mills, Johnson & Co., Cincinnati, Ohio.

EXTENSIONS.

MACHINE FOR CUTTING AND BENDING SHEET METAL.—Elliot Savage, West Meriden, Conn.—Letters Patent No. 16,853, dated March 17, 1857.
MACHINERY FOR CLEARING AND SEPARATING COTTON, WOOL, FUR, AND OTHER FIBROUS MATERIAL.—Isaac Hayden, Lawrence, Mass.—Letters Patent No. 16,833, dated March 17, 1857.
HARVESTING MACHINE.—George Esterly, Whitewater, Wis.—Letters Patent No. 16,873, dated March 24, 1857.
FLUID METER.—James Cochrane, New York city.—Letters Patent No. 16,945, dated March 31, 1857.

APPLICATIONS FOR EXTENSION OF PATENTS.

PLOW.—Blewford Bethel, Gerard, Ill., has petitioned for an extension of the above patent. Day of hearing, June 14, 1871.
IRON TRUSS FRAMES FOR BRIDGES.—Francis C. Lowthorp, Trenton, N. J., has petitioned for an extension of the above patent. Day of hearing, June 14, 1871.
FACTITIOUS IVORY.—William M. Welling, New York city, has petitioned for an extension of the above patent. Day of hearing, July 19, 1871.

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LOCOMOTIVE ENGINEERING, AND THE MECHANISM OF RAILWAYS: A Treatise on the Principles and Construction of the Locomotive Engine and Railway Plant. With Examples Selected from the International Exhibition of 1862. Illustrated with sixty large engravings and numerous wood cuts. By Zerah Colburn, Esq., Civil Engineer. Part XVII. New York: John Wiley & Son, 15 Astor Place.

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