

BOILING SICCATIVE OIL.—James B. Pollock, Port Richmond, N. Y.—This invention consists in an improved and economical arrangement of apparatus for making siccative oils or varnishes, in a safe and cheap manner and short time, as compared with the usual mode of boiling or making a siccative oil or varnish from linseed oil.

MITER BOX.—Justin Devoe, Meadville, Pa.—This invention relates to improvements in miter boxes, and consists in a combination with a box for holding the stuff of a saw clamp or guide, arranged for holding the saw above the article to be sawed near the end, and adjustable either to a vertical plane, or to any oblique plane across the box, also adjustable to a perpendicular or any other angle with the box. The said box having a vertically adjustable bottom and a secondary bottom made in two parts, which may be adjusted to suit the requirements of strips or pieces which have oblique sides, the said two parts being on opposite sides of a dividing wall.

OPERATING WINDOW CURTAINS.—John Stephens, Fairview, Ohio.—The object of this invention is to provide suitable and efficient means for lowering and raising the upper ends of window curtains, without reference to or disturbing the lower end, and it consists in an upper roller, to which the curtain is attached, which is operated on vertical cords, and held in position by a weighted tassel and band or cord.

CULTIVATOR.—Isaac Low, East Fairfield, Ohio.—This invention has for its object to furnish an improved cultivator, simple in construction and effective in operation, and conveniently operated.

COMBINATION MATCH PLANE.—Lewis Bundy, Mooers Forks, N. Y.—This invention relates to a new and useful improvement in a combined match plane and plow for working in wood, whereby tongues and grooves of variable depth and of variable width of margin may be cut.

PISTON PACKING.—Wm. Ord, Brooklyn, Ohio.—This invention relates to new improvements in the construction of the rings for pistons in steam engines, pumps, etc., and has for its object to provide a convenient packing for the split parts of the same, and, also, to regulate the elasticity of the rings, making the same equal throughout.

WAGON BOLSTERS.—J. W. Pearman and J. F. C. Lutz, Holden Mo.—This invention relates to improvements in bolsters for wagons, and consists in ironing the ends with cast metal attachments, each with two leaves or plates one for the top and the other for the bottom of the bolster, the ends of which are fitted between these leaves and bolted to them, and the standards are cast with the solid part at the ends.

COTTON-SEED PLANTER.—John C. King, Spring Place, Ga.—This invention relates to a new and useful improvement in a machine for planting cotton seed, and all other seed for which it is adapted, and also for distributing guano and other fertilizers, and the invention consists in the manner of delivering and regulating the quantity of seed, and in the manner of covering the same.

PROCESS OF DECOLORIZING ANILIC AND PHENIC COLORS ON FABRICS.—Jean Lambert, Jr., New York city.—The object of this invention is to produce white designs or ornaments on fabrics that have been steeped in or dyed by anilic or phenic coloring matter, by bleaching certain portions of such coloring matter on or in the fabric. The invention consists in the application of powdered metals or soluble cyanides to the said fabrics, for the purpose of producing the stated local bleaching or decoloration.

STRAW CUTTER.—G. S. Garth, Mill Hall, Pa.—This invention relates to improvements in cutting machines for cutting hay, straw, and other long feed, and consists in improvements in the construction and arrangement of the same, calculated to facilitate the feeding and cutting, and to produce a durable and simple machine that will be more efficient than any now in use.

OIL-CAKE PACKING.—Washington Hawes, Port Richmond, N. Y.—This invention relates to improvements in apparatus for forcing one or more of the last cakes into the sacks previously filled, or nearly filled, by hand, to pack the said sacks as much as possible, and it consists in a vertically working follower, actuated by a winding drum and cord, for forcing it down, which drum is connected with a driving shaft, for working it, by a friction clutch, having a foot-lever attachment for varying the friction and the power on the follower, while in action, so that the same may be regulated according to the capacity of the oil cake, whereby the great losses by breaking the cakes in the common hand process of packing may be avoided.

GRINDING MILLS.—J. M. Westmoreland, Danville, Texas.—This invention relates to improvements in grinding mills, and consists in a novel and simple mode of obtaining the motive power for working the grinding stones, or other devices, by arranging them on spindles placed radially in a frame supported on a center pivot, around which it is capable of revolving, and at the outer end on wheels upon the spindles of the grinding stones, resting on a circular track, so as to be set in motion by the friction thereon, or it may be by cog teeth, gearing with teeth on the said wheels, when the frame is drawn around the central pivot by horses or other animals.

DITCHING MACHINE.—J. W. Roberts, Hartford City, Ind.—This invention has for its object to furnish an improved machine for opening ditches which shall be so constructed as to open the ditch, raise the dirt, and deposit it at the sides of the ditch.

MATCH-BOX.—John Monaghan, Tuckahoe, N. Y.—This invention has for its object to furnish an improved match-box which shall be so constructed as to hold the matches securely, without having a cover, and keep them dry, while leaving their ends exposed, enabling them to be conveniently removed as may be required.

FAUCET.—C. A. Douglas, Franklin, N. Y.—This invention has for its object to furnish an improved faucet for drawing off liquids from vats or other vessels placed one within the other, and which shall be so constructed that the liquid may be drawn from either vessel as may be desired.

BOTTLE STOPPER.—W. L. Hoefler, Jeffersonville, N. Y.—This invention has for its object to furnish a simple, convenient, inexpensive, and effective stopper for bottles containing soda water or other liquid exerting an outward pressure, and which shall be so constructed that after being once applied to the bottle it can neither be pushed fully in nor drawn fully out of the bottle, but may be readily pushed far enough inward to allow the liquid to flow out freely.

FAMILY FRUIT DRYER.—J. P. Miller, Somerville, N. J.—This invention has for its object to furnish a simple, cheap, and convenient fruit dryer or kiln which shall be so constructed and arranged as to enable the heat in the stove, when the cooking is finished, and which has hitherto been wasted, to be utilized in drying the fruit for the family or for market, so that each one may furnish himself with or prepare for market a supply of clean and wholesome perfectly dried fruit at scarcely any expense.

DOOR STOP.—L. C. Wemple, Rockford, Ill.—This invention has for its object to furnish an improved device for stopping a door, when it is swung open, before it may strike the wall, and which will hold the door open, and thus prevent it from slamming and swinging shut accidentally.

APPARATUS FOR CUTTING OR GIVING FORM TO WOOD.—G. R. Mather, Wellingborough, England.—This invention relates to the use of stone, artificial stone, or other gritty composition adapted to cut into wood and give form thereto. For this purpose the natural or artificial stone or composition is fitted to a spindle, which is caused to revolve, and the form desired to be given to the wood is produced as a counterpart on the edge or other surface of the stone or composition. The wood to be cut is of continuous length, as in the case of moldings, is conducted by guides to the surface of the revolving stone or composition. If the articles in wood to be cut are circular they are supported on spindles or centers, carried by levers or other arms or guides in series and by bands, or otherwise caused to revolve, and they are replaced in succession as the forms desired are obtained.

ROACH AND BUG TRAP.—Thomas Williams, Tompkinsville, N. Y.—This invention relates to a new device for catching Croton bugs, cockroaches, and other creeping insects, and consists in the arrangement of a smooth entrance, which is so placed that the animals cannot crawl out through the same.

WASHING MACHINE.—Horace Warner, Ridgway, Pa.—This invention relates to a new and useful improvement in machines for washing clothes, having especial reference to a washing machine for which letters patent were granted the inventor, dated November 19, 1867. The present invention consists in the mode of raising the vertical shaft and cones from the tub, and in the mode of fastening them down and keeping them in place when in the tub.

WASHING MACHINE.—H. E. Smith and G. F. Spear, New York city.—This invention relates to a new power washing machine of that class in which a rotary cylinder is arranged within a cylindrical case.

ELEVATOR.—G. C. Timpe, New Orleans, La.—This invention comprises an improved arrangement of differential gears and shifting devices therefor for varying the connection according to the weight of the load.

ROTARY STEAM ENGINE.—James Constantine, Mansfield, La.—This invention relates to improvements in rotary steam engines, and consists in a novel arrangement with a piston, through which the steam is admitted from a hollow shaft constantly open to the live steam, of two cut-offs working through the periphery of the cylinder at opposite points, and an exhaust through a hollow boss on the shaft.

MACHINE FOR SHAVING SHINGLES, ETC.—Charles Shelmidine, Summit, N. Y.—The object of this invention is to construct a machine by means of which shingles can be shaved and edged, and other articles, such as barrel staves, etc., finished and planed. The machine is intended to operate in one continuous process, and to be fully adjustable to all shapes and sizes of articles to be finished.

FREE CYLINDER FOR ROSSING MACHINE.—Charles Gilpin, Cumberland, Md.—This invention relates to a cylinder intended for tanners' use in connection with a knife, in taking off the epidermis or "ross" from bark previous to grinding the same. The invention consists of a cylinder divided into a number of lengths, all forming parts of the same piece however, and all having different diameters, the length at one end having the greatest diameter the next length less, the third less, and so on in a regularly decreasing series to the opposite end, and least length which is of the least diameter, the object of this construction being to adapt the cylinder to pieces of bark of different thickness, so that the proper quantity of ross in each case may be taken off without changing the position of the knife.

DEVICE FOR DELIVERING MAIL BAGS TO RAILROAD CARS.—James B. McLain, Newark, Ohio.—The object of this invention is an improved device for saving the necessity for stopping mail trains in order to take on board the mails at the way stations. The apparatus, designed to stand by the side of the track, has a pivoted arm upon which the mail bag is hung in such a position that a suitable device on the car can grasp the bag as the car passes by, and take it on board; in doing this the support is knocked from under the arm and the latter falls out of the way of the other cars.

FLOW.—L. W. Richardson, Roscoe, Ill.—The object of this invention is an improvement in the construction of mold boards, and consists in forming them double—that is, of an iron and steel plate, the latter being made in sections, which are bolted to the former. This construction allows the exterior plate to be hardened to any required degree so that it may be highly polished, or to be conveniently repaired when broken, or otherwise injured, in any part.

SWITCH LOCK.—Alonzo W. Cram, St. Louis, Mo.—This invention consists of an apparatus attached to a switch lever, and provided with a bolt which when thrust into one of the holes in the switch frame, holds the lever fast, and may be locked so as to prevent the moving of the lever, and may also be unlocked and withdrawn from the hole in the switch frame, in order to the changing of the lever.

FLOOD GATE OR FENCE.—S. Rowland and T. C. Tipton, Williamsport, Ohio.—This invention has for its object to furnish an improved flood gate or fence to be used in streams or in low lands subject to being overflowed, and which shall be simple in construction, and effective in operation, yielding to allow drift wood and other floating substances to pass freely, and again rising into a vertical position.

CARRIAGE.—Charles N. Dennett, Amesbury, Mass.—This invention has for its object to furnish an improved turn-out seat and extension front for light carriages, which are desired to be used sometimes with one and sometimes with two seats, which may be applied to open buggies, covered on top buggies, and four-post carriages with equal facility, and which shall be simple in construction and easily operated.

APPARATUS FOR MOVING HAY, ETC.—John H. Violett, Goshen, Ind.—This invention has for its object to furnish an improved apparatus for carrying the hay fork in moving hay from one part of a barn or other building to another, especially in unloading hay, and which shall be simple in construction and effective in operation.

SEWING MACHINE TABLE.—E. L. Morgan, Rivesville, W. Va.—In the Official List of Patents and in a notice of Mr. Morgan's invention, which appeared in our issue of November 19, Rivesville in the address should have been Rivesville.

Official List of Patents.

Issued by the United States Patent Office

FOR THE WEEK ENDING Nov. 15, 1870.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES. On each caveat, \$10. On each Trade-Mark, \$25. On filing each application for a Patent (seventeen years), \$15. On issuing each original Patent, \$20. On appeal to Examiners-in-Chief, \$10. On appeal to Commissioner of Patents, \$20. On application for Release, \$30. On application for Extension of Patent, \$50. On granting the Extension, \$50. On filing a Disclaimer, \$10. On an application for Design (three and a half years), \$10. On an application for Design (seven years), \$15. On an application for Design (fourteen years), \$30.

For copy of Claim of any Patent issued within 30 years, \$1. A sketch from the model or drawing, relating to such portion of a machine as the Claim covers, from upwards, but usually at the price above named. The full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them, \$1.25. Official Copies of any patent issued since 1839, at the same price at a reasonable cost, the price depending upon the amount of labor involved and the number of views. Full information, as to prices of drawings, in each case, may be had by addressing MUNN & CO., Patent Solicitors, No. 37 Park Row, New York.

- 109,166.—CHICKEN-COOP.—J. R. Achenbach, Saddle River, assignor to himself, Thomas Terhune, and P. O. Terhune, Hoboken, N. J.
109,167.—STEAM ENGINE.—Heriman F. Ambos, Columbus, Ohio.
109,168.—TESTING INSTRUMENT FOR BREWERS AND DISTILLERS.—Moritz Angenstein, Brooklyn, N. Y.
109,169.—ELEVATOR.—C. W. Baldwin, Boston, Mass.
109,170.—WATER WHEEL.—William Blake (assignor to himself and C. H. Parkton), Buchanan, Mich.
109,171.—MACHINE FOR MAKING SCREWS AND SCREW NAILS.—Reinhold Boeken, Brooklyn, N. Y., assignor of one half his right to Henry Torstrik, New York city.
109,172.—PIANO.—Ole Bull, New York city.
109,173.—FURNACE FOR DEOXIDIZING IRON ORE.—A. H. Brainerd, Rome, N. Y.
109,174.—PLANE.—Lewis Bundy, Mooers Forks, N. Y.
109,175.—FRUIT CRATE.—George Clapp, Geneva, N. Y.
109,176.—HAY BENDER.—Augustus R. Clark, Onondaga, N. Y.
109,177.—APPARATUS FOR BLEACHING THREADS, YARNS, ETC.—J. E. Clarnor, Fayetteville, assignor of one half his right to B. F. Green and Horace Daniels, Southfield, R. I.
109,178.—SEWING MACHINE.—J. C. Clime, Philadelphia, Pa. Antedated November 11, 1870.

- 109,179.—ROTARY ENGINE.—James Constantine, Mansfield, La.
109,180.—ROCKING CHAIR AND STEP LADDER.—William H. Cook, Bergen, N. J. Antedated November 5, 1870.
109,181.—GUN CARRIAGE.—Thomas Coughlan, Newton, Mass.
109,182.—LOCK FOR RAILROAD SWITCHES.—A. W. Cram, St. Louis, Mo.
109,183.—STEAM TILLER.—Robert Creuzbaur, Williamsburgh, N. Y.
109,184.—SHE VE.—Alvin Matthew Cushing, Lynn, Mass.
109,185.—MACHINE FOR SPINNING AND DOUBLING SILK, ETC.—T. N. Dale, Jr., and George Kraink, Paterson, N. J.
109,186.—MACHINE FOR SQUEEZING PUDDLERS' BALLS.—Samuel Danks (assignor to himself, Joseph C. Butler, and Lewis Worthington), Cincinnati, Ohio.
109,187.—OVEN PLATE FOR COOKING STOVES.—W. C. Davis, Cincinnati, Ohio.
109,188.—DUMPING CAR.—Peter K. Dederick, Albany, N. Y.
109,189.—CARRIAGE.—C. N. Dennett, Amesbury, Mass.
109,190.—MITER-BOX.—Justin Devoe, Meadville, Pa.
109,191.—FAUCET.—C. A. Douglas, Franklin, N. Y.
109,192.—DEVICE FOR CUTTING AND SHEARING METALS.—Isaac Dubois, Boonesborough, Iowa.
109,193.—ELECTRO-MAGNETIC APPARATUS FOR PROTECTING SAWS.—William Duncan and C. C. Rowell, Lebanon, N. H.
109,194.—DOVETAILING MACHINE.—J. P. Flanders, Vergennes, Vt.
109,195.—STEAM BOILER.—Daniel Flynn, Fall River, Mass.
109,196.—MILL FOR POWDERING ROOTS, ETC.—H. D. Garrison (assignor to Garrison & Murray), Chicago, Ill.
109,197.—STRAW CUTTER.—George Sutton Garth, Mill Hall, Pa.
109,198.—GATE.—Wm. Gause, Indianapolis, and J. C. Curryer, Thornstown, Ind.
109,199.—FEED-ROLL FOR ROSSING MACHINES.—Charles Gilpin, Cumberland, Md.
109,200.—CLOTHES DRYER.—Joseph Gnau and Wm. Gnau, Louisville, Ky.
109,201.—BEE HIVE.—L. L. Goodwin, Toronto, Ind.
109,202.—CHAIR AND LOUNGE.—Edward Hagan, New York city.
109,203.—HORSE AND CATTLE LINIMENT.—H. H. Hanmer, Nashville, Tenn.
109,204.—TOY BALL.—George Hartz, New York city. Antedated November 3, 1870.
109,205.—ATTACHING DICING-STONES TO WHEELS FOR POLISHING LEATHER.—Heator C. Havemeyer and David P. Burdon, New York city.
109,206.—OIL-CAKE PACKING APPARATUS.—Washington Hawes, Port Richmond, N. Y.
109,207.—GRAPE TRELLIS.—William M. Heath, Wataga, Ill.
109,208.—ADVERTISING APPARATUS.—William Heddon, New York city.
109,209.—SPOOL STAND.—Edwin C. Heywood, Worcester, Mass.
109,210.—RAILWAY RAIL-JOINT.—Noah Hill, Leavenworth City, Kansas.
109,211.—POTATO DIGGER.—George M. Hoag, Muscatine, Iowa.
109,212.—BOTTLE STOPPER.—Wm. L. Hoefler, Jeffersonville, N. Y.
109,213.—PORTABLE BOOK CLAMP.—C. W. Holbrook and E. F. Butler, Windsor Locks, Conn.
109,214.—WELL AUGER.—James Ingels and T. J. Ingels, Atchinson, Kansas.
109,215.—ADJUSTABLE DRAFT DEVICE FOR PLOWS.—C. L. Jackson, Millersburg, Ill.
109,216.—MEDICAL COMPOUND FOR CURE OF RHEUMATISM.—A. J. Jenkins, Virginia City, Nevada.
109,217.—POTATO DIGGER.—William Joseph, Quincy, Mich. Antedated November 5, 1870.
109,218.—BREECH-LOADING FIRE-ARM.—B. F. Joslyn, New York city.
109,219.—CLOTHES DRYER.—John Kaspar, Pomeroy, Ohio.
109,220.—COMBINED LOCK AND LATCH FOR SLIDING DOORS.—Edward J. Kehoe (assignor to W. A. Hopkins and F. Z. Dickinson), New York city.
109,221.—SCAFFOLD BRACKET FOR ROOFING.—J. R. Kennett, Goddes, N. Y.
109,222.—COTTON-SEED PLANTER.—John C. King, Spring Place, Ga.
109,223.—(Suspended.)
109,224.—PAPER-FEEDING MACHINE.—Margaret E. Knight, Boston, Mass.
109,225.—CORN PLANTER.—Hermann Koeller, Camp Point, Ill.
109,226.—COMBINED AGRICULTURAL IMPLEMENT.—Leopold Lehmann, Monaca, Ill.
109,227.—MACHINE FOR ATTACHING STUDS OR TUBULAR SHANKED BUTTONS TO FABRICS.—J. H. Lewis, Providence, R. I., assignor to A. R. Field, Greenfield, Mass. Antedated Nov. 5, 1870.
109,228.—COFFEE ROASTER.—Nicholas Linden, Chicago, Ill.
109,229.—CULTIVATOR.—Isaac Low, East Fairfield, Ohio, assignor to himself and Ephraim Phillips, Cross Cut, Pa.
109,230.—DRY GAS METER.—Geo. Lowen and S. H. Goldthorp, Pittsburgh, Pa.
109,231.—ARTIFICIAL FUEL.—P. Miott McGill, Washington, D. C.
109,232.—ELEVATOR.—George McKenzie, Zanesville, Ohio.
109,233.—DEVICE FOR DELIVERING MAIL BAGS TO CARS.—J. B. McLain (assignor to R. M. Wyeth), Newark, Ohio.
109,234.—DRYER.—John P. Miller, Somerville, N. J.
109,235.—MATCH BOX.—John Monaghan, Tuckahoe, N. Y.
109,236.—WATER ELEVATOR.—A. A. Moulton, Providence, R. I.
109,237.—MODE OF PREVENTING THE HEATING OF AXLES OR JOURNALS.—E. D. Murley, New York city.
109,238.—SPINDLE STEP.—E. D. Murley (assignor to "The Manhattan Packing Manufacturing Co.," New York city.
109,239.—MATERIALS FOR BEARINGS AND JOURNALS.—Elizabeth D. Murley (assignor to "The Manhattan Packing Manufacturing Co.," New York city.
109,240.—CLOTHES POUNDER.—James W. Norton, Pioneer, Pa.
109,241.—CURTAIN FIXTURE.—James Lloyd Oliver, Boston, Mass.
109,242.—PISTON PACKING.—William Ord, Brooklyn, Ohio.
109,243.—BOLSTER FOR WAGONS.—J. W. Pearman and J. F. C. Lutz, Holden, Mo.
109,244.—CUTTER HEAD.—Daniel W. Perry, Wilkesbarre, Pa.
109,245.—MANUFACTURE OF VARNISH.—J. B. Pollock, Port Richmond, N. Y.
109,246.—ROOFING CEMENT.—Oliver Porter, Waterford, Me.
109,247.—CULTIVATOR.—John Rebman, Binkley's Bridge, Pa.
109,248.—PROPELLING CANAL BOATS.—James Reid, Catskill, N. Y. Antedated Nov. 3, 1870.
109,249.—PAPER-CUTTING MACHINE.—I. L. G. Rice, Cambridge, Mass.
109,250.—PLOW.—L. W. Richardson, Roscoe, Ill.
109,251.—DITCHING MACHINE.—J. W. Roberts, Hartford City, Ind.
109,252.—FLOOD GATE.—Samuel Rowland and Thomas C. Tipton (assignors to themselves and G. W. Wiggins), Williamsport, Ohio.
109,253.—PAPER FILE.—William W. Russell, Malden, Mass.
109,254.—ROOFING COMPOSITION.—Albert Ruttkay, New York city.
109,255.—BREECH-LOADING FIRE-ARMS.—E. L. Sargent, Watertown, N. Y.
109,256.—EXTENSION PLATFORM STEP LADDER.—George A. Schachtel, Newark, N. J., assignor to himself and R. B. Sanderson.
109,257.—FOUNTAIN PEN.—Fridolin Schifferle, St. Louis, Mo.
109,258.—SHINGLE MACHINE.—Charles Shelmidine, Summit, N. Y.
109,259.—WASHING MACHINE.—H. E. Smith and G. F. Spear (assignors to M. J. Smith), New York city.
109,260.—TACKLE BLOCK.—R. J. Smith, North Haven, Me. Antedated Nov. 5, 1870.
109,261.—HAY-RACK FOR WAGON.—S. J. Smith, Farmington, N. Y. Antedated Oct. 29, 1870.

109,262.—WASHING MACHINE.—Thomas Snow, Social Circle, Ga.
109,263.—TAG.—T. J. Southworth, Rochester, and W. H. Lawton, Elmira, N. Y. Antedated Nov. 3, 1870.
109,264.—FEEDING HYDROCARBON LIQUIDS TO A HOT GAS HEATER.—Theodore G. Springer, St. Louis, Mo. Antedated November 3, 1870.
109,265.—MOSAIC FLOOR.—Joseph Stegmüller (assignor to himself and L. H. Rueckenbag), New York city.
109,266.—CURTAIN FIXTURE.—John Stephens (assignor to himself and Jairus Collins), Fairview, Ohio.
109,267.—RULING MACHINE.—James Stewart, Washington, D. C.
109,268.—PURIFYING ILLUMINATING GASES.—W. H. St. John, and Peter Cartwright, New York city.
109,269.—COMBINED HARROW AND SEEDER.—Ezra Stouer, Greencastle, Pa.
109,270.—STREAM ENGINE.—Charles Strong and A. W. Stickney, Lebanon, N. H.
109,271.—WINDOW SHADE.—William Strunk, Nettle Lake, Ohio.
109,272.—MOLDED CARRIAGE TOP.—G. L. Swett and J. P. Lockey, Leominster, Mass.
109,273.—ROTARY PULVERIZER.—John Thompson, Louisville, Ky.
109,274.—HOOK FOR DUMPING TUB.—J. R. Thorn, Waldoborough, Me.
109,275.—ELEVATOR.—Gustavus C. Timpe, New Orleans, La.
109,276.—EARTH CLOSET.—Elias W. C. Vanderveer, Linden, N. J.
109,277.—BREECH-LOADING FIRE-ARMS.—Frederick Vetterlin, Neuhausen, Switzerland. Antedated Nov. 11, 1870.
109,278.—HOISTING APPARATUS.—John H. Violett, Goshen, Ind.
109,279.—WASHING MACHINE.—Horace Warner, Ridgway, Pa.
109,280.—MACHINE FOR MAKING CIGAR BUNCHES.—Wendelin Weis, St. Paul, Minn.
109,281.—DOOR STOP.—L. C. Wemple, Rockford, Ill.
109,282.—ROACH AND BUG TRAP.—Thomas Williams, Tompkinsville, N. Y.
109,283.—MEASURING CAN.—A. G. Wilson, Chicago, Ill. Antedated Nov. 5, 1870.
109,284.—ROTARY PUDDLING FURNACE.—Enoch Wood (assignor to himself, Edward Perry, Richard Perry, William McPherson, and Edward Williams), Pittsburgh, Pa.
109,285.—GRATE BAR.—James Yocom, Jr., Philadelphia, Pa.
109,286.—PADDLE WHEEL.—Samuel Bateman, Asniere, near Paris, France.
109,287.—WASHING MACHINE.—Wm. B. H. Beach, Naples, N. Y.
109,288.—FILTER.—John Bean, Hudson, Mich.
109,289.—COMBINED THRASHING MACHINE AND CORN SHELLER.—John Bowman, Princeville, Ill.
109,290.—PLOW.—J. E. C. Brinley, Louisville, Ky.
109,291.—PLOW.—T. E. C. Brinley, Louisville, Ky.
109,292.—CONNECTING FIRE DETECTOR WITH THE ALARM.—H. L. Brower (assignor to C. D. Fredericks), New York city.
109,293.—MACHINE FOR CUTTING LOAF SUGAR.—Adolphus Brown and Felix Brown, New York city.
109,294.—HAND-DRAW RAKE.—Edward Brown, Kennebunk, Me.
109,295.—MACHINE FOR CUTTING LOAF SUGAR.—Felix Brown, New York city.
109,296.—MACHINE FOR CUTTING LOAF SUGAR.—F. Brown, New York city.
109,297.—COMBINED CANE AND WHIP.—C. L. Bushnell, Cherry Valley, Ohio. Antedated Nov. 5, 1870.
109,298.—COMBINED LATCH AND LOCK FOR SLIDING DOORS.—Jacob Capron, New York city.
109,299.—FRICTION CLUTCH.—Thomas Coldwell, Newburgh, N. Y.
109,300.—APPARATUS FOR TRIMMING HEELS OF BOOTS AND SHOES.—Louis Cote, St. Hyacinth, Canada.
109,301.—HARVESTER RAKE.—A. G. Crane and W. T. Johnston, Ottumwa, Iowa.
109,302.—CANCELING STAMP.—C. E. Donnellan, Indianapolis, Ind.
109,303.—APPARATUS FOR BURNING PARAFFINE AND OTHER HYDROCARBON OILS.—H. H. Doty, London, Eng.
109,304.—SCHOOL DESK.—W. E. Doyle, Eaton, Ohio.

109,305.—HORSE HAY FORK.—Alvin T. Dunbar and James H. Fellows (assignors to A. T. Dunbar and George H. Dewey), Alba, Pa.
109,306.—SAD IRON.—T. G. Eiswald, Providence, R. I.
109,307.—MOP WRINGER.—Homer L. Ennes, Birmingham, Ohio.
109,308.—STONE TRUCK.—Washington Evans, Ontario, Ohio.
109,309.—SKIRT-SUPPORTING HOOK FOR CORSETS.—David H. Fanning, Worcester, Mass.
109,310.—RAILWAY CAR WHEELS.—J. N. Farrar, Pepperell, Mass.
109,311.—WATER ENGINE.—Russel Francis, Woodstock, Vt.
109,312.—RAILWAY CAR SPRING.—Heman Gardiner, New York city. Antedated Nov. 12, 1870.
109,313.—BRICK MOLD.—Gottlieb Graessle, Hamilton, Ohio, assignor to himself and L. E. White.
109,314.—APPARATUS FOR THE MANUFACTURE OF SUGAR.—J. W. Hahn, San Francisco, Cal.
109,315.—CORN SHELLER.—Jonathan R. Hamilton, Kingston, Minn.
109,316.—STUMP EXTRACTOR.—Samuel Harman, La Porte, Ind.
109,317.—APPARATUS FOR TRANSPORTING LOADS ON WIRE ROPE.—Charles Hodgson, Richmond, England.
109,318.—CLOTHES-LINE REEL.—George Holman, Waterville, N. Y.
109,319.—JOURNAL BEARING.—D. A. Hopkins, Jersey City, N. J.
109,320.—RAILWAY CAR WHEEL.—Lewis B. Hunt, New York city.
109,321.—BUCKLE.—J. C. Hyde (assignor to the West Haven Buckle Co.), West Haven, Conn.
109,322.—MOWING MACHINE.—Benjamin Illingworth, Le Roy, Minn.
109,323.—MUFF AND COLLAR BOX.—G. L. Jaeger, New York city.
109,324.—FIRE KINDLER.—Jeremiah Kenney, Sr., Baltimore, Md.
109,325.—MACHINE FOR GRINDING AND POLISHING LENSES, ETC.—H. D. Knight, Elgin, Ill.
109,326.—OPENING AND SHUTTING DEVICE FOR RAILROAD-CAR WINDOW.—J. F. Lash, Toronto, Canada.
109,327.—INK FOR WRITING.—R. G. Loftus, Chelsea, assignor to himself and O. W. Farrar, Boston, Mass.
109,328.—DETACHING HOOK.—J. A. Lord, Jr., Middletown, Conn.
109,329.—SHUTTER FASTENER.—Ira O. Luey, Bernardston, Mass.
109,330.—VESSELS' HATCH.—J. P. Maddox, Belfast, Me.
109,331.—ELEVATOR.—W. K. Marvin, New York city.
109,332.—PIPE COUPLING.—J. H. McGowan, Cincinnati, Ohio.
109,333.—CONCRETE PAVEMENT.—A. B. McKeon, Rutherford Park, N. J. Antedated November 5, 1870.
109,334.—CORN AND COTTON SCRAPER.—George Milliron (assignor to himself and P. T. Rafford), Pyhalla, Miss.
109,335.—WATER WHEEL.—J. A. Morgan, Navasink, N. J.
109,336.—DIE FOR FORGING CARRIAGE CLIPS.—F. B. Morse (assignor to himself and H. D. Smith & Co.), Plantville, Conn.
109,337.—SCREW PILE.—F. W. H. Moseley, Boston, assignor to R. F. Moseley, S. R. Moseley, and A. M. L. Moseley, Hyde Park, Mass.
109,338.—AIR ENGINE.—David Myers, Chicago, Ill.
109,339.—OFF-BEARING TRUCK FOR BRICK MACHINES.—Walker Olds, Albany, N. Y. Antedated November 5, 1870.
109,340.—PLOW.—Ornan Osborn, Erie, Pa.
109,341.—MANUFACTURE AND APPLICATION OF COLORS FOR PRINTING AND DYING.—Alfred Paraf (assignor to E. S. Renwick), New York city.
109,342.—DOOR CATCH.—R. V. Phillips, Council Bluffs, Iowa.
109,343.—SAWING MACHINE.—R. J. Poston, Mainville, Ohio.
109,344.—SHAFT COUPLING.—W. M. Pratt, Chicago, Ill.
109,345.—TAKE-UP DETAINING PAWL.—George Richardson, Lowell, Mass.
109,346.—WOOD AND COAL DUMPER FOR RAILWAYS.—R. B. Robbins, Adrian, Mich.
109,347.—RAILWAY-CAR BUMPER AND DRAW-HEAD.—Alexander Ross and John Arthur, Freeport, Ill.
109,348.—TAKE-UP NUT.—Thomas Ross and W. W. Graham, Rutland, Vt.

109,349.—PUMP.—Alonzo Sherman and J. W. Sheaffer, Sterling, Ill.
109,350.—APPLE PARER, CORER, AND SLICER.—James Shobe, Upper Principio, Md.
109,351.—SAWING MACHINE.—F. D. Smith, Chicago, Ill.
109,352.—PLOW.—Hugh Smith, Moline, Ill.
109,353.—DRAFT DEVICE FOR HARVESTER.—J. M. Smith, Jerseyville, Ill.
109,354.—MACHINE FOR SEPARATING MAGNETIC IRON ORES FROM OTHER SUBSTANCES.—J. Y. Smith, Pittsburgh, Pa.
109,355.—FURNACE AND PROCESS FOR TREATING IRON AND OTHER ORES.—J. Y. Smith, Pittsburgh, Pa.
109,356.—BLAST APPARATUS FOR FURNACE.—R. A. Smith, Newburyport, Mass.
109,357.—WINDOW FASTENING.—Hiram St. John, Wilton, Conn.
109,358.—SPRING FOR RAILWAY-CAR TRUCK.—W. M. Taylor, Newburgh, Ohio.
109,359.—FLUID METER.—Francis Wagner, New York city.
109,360.—FUNNEL.—Albin Warth, Stapleton, N. Y.
109,361.—GRINDING MILL.—J. M. Westmoreland, Danville, Texas.
109,362.—SASH HOLDER.—E. H. Wheeler, Scranton, Pa. Antedated November 5, 1870.
109,363.—CULTIVATOR.—B. F. Young, Toulon, Ill.
109,364.—FLAVORING COMPOUND.—William Zeigler and J. H. Seal, New York city.
109,365.—CARTRIDGE BOX.—J. R. King (assignor to W. M. Tleston), Washington, D. C.
109,366.—BINDING ATTACHMENT FOR SEWING MACHINE.—W. N. Martin, Boston, Mass.

REISSUES.

4,177.—ICE-CREAM FREEZER.—B. G. Martin, Williamsburgh, N. Y.—Patent No. 100,305, dated March 1, 1870; antedated February 14, 1870.
4,178.—Division A.—BRICK MACHINE.—James Sangster, Buffalo, N. Y.—Patent No. 59,080, dated October 23, 1868.
4,179.—Division B.—BRICK MACHINE.—James Sangster, Buffalo, N. Y.—Patent No. 59,080, dated October 23, 1868.
4,180.—BED BOTTOM.—Edward Yeoman, Waukegan, Ill.—Patent No. 67,698, dated August 13, 1867.

DESIGNS.

4,465, 4,466.—BRACKET.—J. H. Bellamy, Charlestown, Mass., assignor to S. D. Niles and B. A. Ward. Two Patents.
4,467.—LOCK FRONT.—F. W. Brocksieper (assignor to Sargent & Co.), New Haven, Conn.
4,468.—PIANO.—Ole Bull, New York city.
4,469.—STOVE SHELF.—W. C. Davis, Cincinnati, Ohio.
4,470.—FACE PLATE OF A SASH LOCK.—C. H. Eccleston, Oxford, N. Y.
4,471.—BOX FOR PUTTING UP PAPER CUFFS.—George Faul, Boston, Mass., assignor to S. F. Hilton, Providence, R. I.
4,472.—DOOR BOLT.—Ferdinand Fogelstrand (assignor to Sargent & Co.), New Haven, Conn.
4,473.—THUMB LATCH.—Ferdinand Fogelstrand (assignor to Sargent & Co.), New Haven, Conn.
4,474.—CAR LOCK.—William Gorman (assignor to Russell & Erwin Manufacturing Company), New Britain, Conn.
4,475.—SAD IRON.—W. M. Griscom (assignor to Harbster Brothers & Co.), Reading, Pa.
4,476.—SPOON AND FORK HANDLE.—E. C. Moore, Yonkers, N. Y., assignor to Tiffany & Co., New York city.
4,477.—SHOW CASE.—W. H. Grove, Philadelphia, Pa.
4,478 and 4,479.—CENTER PIECE.—Samuel Kellett, San Francisco, Cal. Two patents.

TRADE-MARKS.

61.—SNUFF.—Appleby & Helme, New York city.
62.—COUGH BALSAM.—William Maddox, Ripley, Ohio.
63.—WHISKY.—C. P. Moorman, Louisville, Ky.
64.—WHISKY.—C. P. Moorman, Louisville, Ky., and M. J. Hardy, New York city.
65.—CIGARS, TOBACCO, AND SNUFF.—J. C. Partridge & Co., Chicago, Ill.

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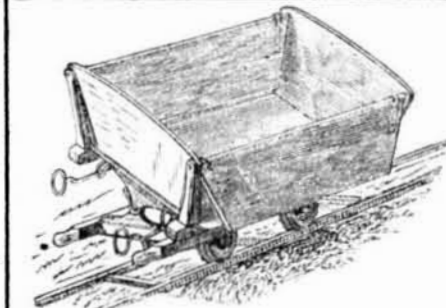
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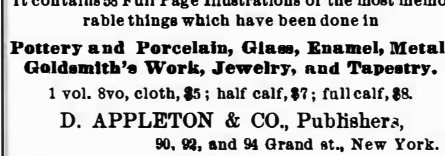
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