

FRUIT DRYER.—Newton C. Cooley, Wyoming, Del.—The invention consists in a fruit-drying case, provided with partitions that divide it into separate chambers which communicate at one end with a hot-air flue, and at the other end with an escape passage leading to a chimney, and which are furnished with screens for holding fruit, malt, hops, or other article to be dried in the current of hot air that sweeps through the chambers, the moisture drawn from the fruit in each chamber being carried off therefrom directly to the chimney without rising through the other chambers and damaging the fruit therein.

FRUIT JAR.—Thomas P. Gibbons, Philadelphia, Pa.—This invention consists in a metallic collar provided with an inwardly projecting flange at its lower end, in combination with an outwardly-projecting flange on the head of a fruit jar, in such manner that, by the two flanges, the collar is prevented from being removed from the jar, while there is no obstruction to slipping the collar down on the neck of the jar for convenience in filling.

PADLOCK.—Edward L. Gaylord, Terryville, Conn.—This invention consists in an inclosing case for a padlock struck in two plates with a lap, or tongue and groove joint at their edges; also in a spring coiled in a recess in the butt of the shackle, and operating so as to automatically throw the shackle open when released from the tumblers, and hold it open until it is shut by direct pressure.

MUCILAGE OR INK STAND.—Franklin T. Grimes, Liberty, Mo.—This invention relates to that class of inkstands in which the space, if any, in the reservoir above the ink is a vacuum; and the invention also consists in partitions placed in the ink reservoir so as to divide the latter into separate compartments, in order that, if the vacuum be destroyed in one part of the reservoir by an irruption of air, it may still be preserved in the remaining portions.

RAKING ATTACHMENT FOR HARVESTERS.—William W. Miller, Zionsville, Ind.—This invention has for its object to furnish an improved raking attachment for harvesters, which shall be so constructed as to sweep the grain from the platform of the harvester by a slight movement of the driver's foot whenever a sufficient amount of grain has been cut to form a gavel, depositing the grain at the rear of the drive wheels so as to be entirely out of the way of the machine at its next passage.

FARM GATE.—Howard Piper, Haskins, Ohio.—This invention relates to improvements in that class of gates which are arranged to slide back and forth in opening and closing, and consists in arranging the post on which the gate slides, so that it may be raised up to admit of sliding the gate above the snow, or for other purposes. The invention also consists in a peculiar arrangement of the gate with the said post for sliding therein, and for arms for bracing the ends of the gate laterally.

HAY LOADER AND CARRIER.—Galen Meaders, Jeffersonville, Ind.—This invention relates to a new and useful improvement in a vehicle for gathering and transporting hay.

SEEDER AND CULTIVATOR.—J. T. Trowbridge, Akron, Ohio.—This invention has for its object to improve the construction of the seeder and cultivator, known as the "Champion of Iowa," so as to make it simpler in construction, stronger, more effective in operation, and more convenient in use.

ARTIFICIAL FUEL.—E. F. Loiseau and C. F. Requin, Nashville, Tenn.—This invention has for its object to practically utilize coal dust as fuel.

LUBRICATOR.—David Adamson, Bremen, Germany.—This invention relates to improvements in that class of lubricator cups, in which a piston is employed to receive steam pressure for forcing viscid or coagulating material out of the cup.

THREE-WHEELED CARRIAGES.—C. H. Barrows, Willimantic, Conn.—This invention has for its object to construct the steering apparatus of three-wheeled carriages, that the vehicles can be more readily controlled, and less apt to be overturned than the ordinary carriages now in use.

DUST-PROOF VENTILATING WINDOWS.—M. C. Murphy, Boston, Mass.—This invention relates to improvements in ventilating windows, and consists in the employment, either with the ordinary plain glass windows or not, of two or more sashes with vertical, concave, or convex strips of glass or other substance, set in the upper and lower bars of the sash, with narrow spaces between the edges, and with the centers of the concave faces of the strips of the second set behind the spaces between the first, to cause the particles of dust carried in the air to strike against the concave surfaces and fall into discharge passages in the bottom of the window frame, and escape at the outside.

POWER APPARATUS.—Wm. Hammill, Parma, Mich.—This invention relates to improvements in machinery intended for generating power for driving light machinery, and has for its object to provide a simple arrangement of vibrating and swinging weights or pendulums and springs, which with the aid of an attendant for moving them past the "dead points," may be set into and kept in motion.

SLED BRAKE.—J. E. Contant, Rondout, N. Y.—This invention has for its object to furnish an improved brake for attachment to bob and other sleds, which shall be simple in construction, effective in operation, and conveniently operated, being worked by the action of the horses in holding back the sled.

GRAIN LIFTERS.—Wm. M. Jackson, Woodland, Cal.—This invention relates to improvements in grain lifting or elevating attachments to heading and reaping machines for straightening the lodged grain in advance of the cutters, and consists in an improved arrangement of means for elevating or depressing the lifting or elevating fingers or shoes moving in advance of the cutters, when applied to the heading machines. This invention also comprises an improved construction of the shoes, which move in advance of the cutters to support the elevating fingers.

REFRIGERATING ATTACHMENT TO WELLS.—J. L. Wiley, Vermont, Ill.—This invention relates to apparatus for use in connection with wells, for the reception and suspension immediately above the water of articles of food for preservation in warm weather, and it consists in the application along the walls of the well from the bottom to the top, and projecting a suitable distance above the top of the guide rails, and the application thereto of a crib capable of moving up and down, and of holding the articles to be preserved, and a winding crank, rope, and balance weight, for raising and lowering the crib.

GRAIN BINDERS.—Wm. B. Oglesby, Rridge Prairie, Ill.—This invention relates to improvements in grain binding attachments to reaping machines, and consists in one or more pairs of clamps mounted on a horizontally revolving support, and provided with a twisting device and a tucking device, and arranged to be held open for reception of the gavel by the weight of one of the jaws, which is closed up by a fixed bent rod, or cam, after reception of the gavel, and the twister and tucker are set in motion by toothed racks, gearing with pinions attached to them as they are moved past the said racks, twisting the band of straw previously placed in the clamps by hand, and securing it by tucking the end under, as in band binding, after which the over jaw falls open, and the bundles are ejected by a fixed rod, having one end arranged to stand in the path of the bundle when carried by the open jaw.

MERCURIAL EXPANSION ENGINE.—Charles G. Wilson, Brooklyn, N. Y.—This invention has for its object to furnish a simple, cheap, safe, and reliable motor, designed for use where any small power is required, and which shall be so constructed that it may be easily manipulated and kept in repair.

SAW SET.—Moritz T. Klahre, Bloody Run, Pa.—This invention has for its object to furnish an improved saw set by means of which a number of the teeth of the saw may be set upon both sides at the same operation, and which shall at the same time be simple in construction, effective in operation, and conveniently and quickly operated, and which may be easily adjusted to set the teeth more or less, or to set different sized teeth as may be required.

SULKY HARROW, CULTIVATOR, ROLLER, ETC.—James A. Casey, Maysville, Ky.—This invention has for its object to furnish an improved machine which shall be so constructed that it may be readily adjusted for use as a harrow, cultivator, or roller, doing its work well in either capacity.

WEANING BIT.—Isaac L. Baker, Prairie City, Kansas.—This invention relates to a new and useful device for weaning colts and calves, and for other purposes, and it consists in so forming a bit that air is admitted into the mouth in the act of sucking, thereby preventing a vacuum being formed, and consequently the flow of milk.

DOOR AND SHUTTER BOLT.—G. B. Green, Philadelphia, Pa.—The object of this invention is to provide a durable, safe, and ornamental bolt fastening for doors and shutters, and to be employed in all situations where it may be found useful; and it consists in the use of a slotted sliding bolt, and in plates of ornamental casting, or ornamental plates struck up or swaged of any form, or size, or design, which plates are attached to the studs which pass through the doors or shutters.

ANIMAL TRAP.—Samuel Arnold, Silver Springs, Tenn.—This invention relates to a new and useful improvement in traps for catching rats or other animals, birds, or fishes.

ADJUSTABLE SCHOOL DESK.—Charles H. Loomis, New Philadelphia, Ohio.—This invention relates to a new and useful improvement in desks or tables for school-rooms and other purposes, whereby they are made more convenient and useful than such articles have heretofore been, and it consists in making the top adjustable, so as to suit pupils of different ages, and so that the desk or table may be made to accommodate a person in an office, or elsewhere, while either standing or sitting.

APPARATUS FOR ROLLING AND COOLING BARRELS, CASKS, ETC.—David Cammerer, Cincinnati, Ohio.—This invention has for its object to construct an apparatus for agitating and cooling barrels and casks immediately after the inner sides of the same are covered with pitch, or other water-proof composition.

SPRING PACKING.—John Hughes, Saxton, Pa.—The object of this invention is to provide a spring packing for steam cylinder pistons, which shall be simple and durable, and readily adjustable to the walls of the cylinder.

CULTIVATOR.—Joseph Adams, Manteno, Ill.—This invention has for its object to furnish an improved cultivator, which shall be so constructed and arranged that the plows may be easily adjusted closer together or farther apart, and raised or lowered to regulate the depth at which they work in the ground.

GATE LATCH.—W. R. Goodrich, Whitestown, N. Y.—This invention has for its object to furnish an improved drop latch for gates, which shall be simple in construction, convenient in use, and effective in operation.

QUARTZ CRUSHER.—Jesse Quinsance, Bucyrus, Ohio.—This invention relates to improvements in quartz crushers, of that kind in which two or more rotary crushers are employed upon a circular bed.

PAPER FILE.—William Boyrer, New York city.—This invention relates to a new file for music, newspapers, etc., and has for its object to preserve the paper, and to allow the same to be opened flat at every place. The invention consists, first, in providing removable elastic cord holders to the ends of the covers, and, secondly, in the application of the said holders, of one continuous cord, to which a suitable number of separate papers may be attached.

MORTAR-MIXING MACHINE.—Seth Wetmore, Wellsboro, Pa.—The object of this invention is to construct a machine by which mortar, for building purposes, can be more completely mixed and tempered than by the ordinary manual process.

CLOTHESLINE HOLDER AND STRETCHER.—Nathaniel E. Buffington, North Providence, R. I.—The object of this invention is to provide an apparatus for properly holding clotheslines, so that the same will not be worn or chafed where they are bent to form angles, and also to permit their being properly stretched to take up the slack produced by use.

DOOR STRIPS.—Jerome M. Gray, Hamilton, N. Y.—The object of this invention is to provide simple, durable, and efficient means for preventing wind and water from entering dwellings, and other buildings, beneath and around outside doors, and it consists in the use of one or more thicknesses of felt, or cloth, or other pliable or elastic material, attached to the bottom or lower portion of the door, supported and held in place by means of an adjustable spring rod, and, in combination therewith, of one or more elastic rods or fillets, in the casing of the door, or in the door itself.

SAFETY CAPS FOR CANS.—Horace C. Alexander, New York city.—This invention has for its object to furnish an improved safety cap for cans, which shall be simple in construction, effective in operation, and convenient in use.

VIOLIN HOLDER.—Isaiah H. Arey, Boscawen, N. H.—This invention has for its object to furnish an improved violin holder, or chin rest, for violins, which shall be so constructed as to adapt it for holding the violin in proper position almost without effort, and which shall, at the same time, be simple in construction and easily attached to and detached from the instrument.

HORSE HAY FORK.—John S. Yinger, Manchester, Pa.—This invention has for its object to furnish an improved horse hay fork which shall be simple in construction, strong, durable, not liable to get out of order, and conveniently operated.

MACHINE FOR STRIPPING BLUE GRASS SEED.—Major Joseph W. Stivers, North Middletown, Ky.—This invention has for its object to furnish a simple convenient, and effective machine for stripping the seed from blue grass while standing in the field.

REAPER AND MOWER.—Jesse C. Miles, Bloomington, Wis.—This invention relates to improvements in reaping and mowing machines, and consists in improved attachments for guiding the cutter wheel, to hold the machine up to the standing grain, to cut the full breadth on sidehills; also, to prevent it from tipping over and to prevent side draft.

ROTARY PUMP.—William A. Allyn, Boston, Mass.—The object of this invention is to provide a machine for throwing a constant stream of water by means of an annular piston, operated by means of an eccentric on a central shaft.

ROTARY PUMP.—August Leuchtweiss, Cincinnati, Ohio.—This invention relates to a new rotary pump, which is constructed to throw a continuous stream, with great force, and without requiring great power. The invention consists in the combination of a paddle wheel with a rotary cut-off wheel and stationary packing for the same.

Official List of Patents. Issued by the United States Patent Office. FOR THE WEEK ENDING June 21, 1870. Reported Officially for the Scientific American. SCHEDULE OF PATENT OFFICE FEES. On each caveat... \$10. On filing each application for a Patent (seventeen years)... \$15. On issuing each original Patent... \$20. On appeal to Commissioner of Patents... \$20. On application for Reissue... \$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)... \$10. On an application for Design (fourteen years)... \$10. In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application. For copy of Claim of any Patent issued within 90 years... \$1. A sketch from the model or drawing, relating to such portion of a machine as the Claim covers, from... \$1. The full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them... \$1.25. Official Copies of Drawings of any patent issued since 1836, we can supply at a reasonable cost, the price depending upon the amount of labor involved and the number of views. Full information, as to price of drawings, in each case, may be had by addressing MUNN & CO., Patent Solicitors, No. 37 Park Row, New York. 104,398.—FOLDING DENTAL CHAIR.—C. J. M. Adams, Canton, Miss. 104,399.—CULTIVATOR.—Joseph Adams, Manteno, Ill. Antedated June 11, 1870.

- 104,400.—LUBRICATOR.—David Adamson, Bremen, Germany.
- 104,401.—POTATO DIGGER.—James Albaugh, Lyons, N. Y.
- 104,402.—SAFETY CAP FOR CANS.—Horace Clifton Alexander, New York city.
- 104,403.—ROTARY PUMP.—William A. Allyn, Boston, Mass.
- 104,404.—AUGER BIT.—Albert L. Andrews, Bristol, Conn. Antedated Dec. 21, 1868.
- 104,405.—VIOLIN HOLDER.—Isaiah H. Arey, Boscawen, N.H.
- 104,406.—ANIMAL TRAP.—Samuel Arnold, Silver Springs, Tenn.
- 104,407.—HARVESTER.—A. P. Ayres, Chicago, Ill.
- 104,408.—WEANING BIT.—Isaac L. Baker, Prairie City, Kansas.
- 104,409.—THREE-WHEELED CARRIAGE.—Chas. H. Barrows, Willimantic, Conn.
- 104,410.—JIG SAW.—Thomas Blandin, Charlestown, Mass.
- 104,411.—CAR STARTER.—Robert Bogardus, New York city.
- 104,412.—SOLDERING IRON.—Jabez A. Bostwick, New York city.
- 104,413.—NOZZLE AND SEALING CAP FOR SHEET-METAL CANS.—Jabez A. Bostwick, New York city.
- 104,414.—APPARATUS FOR FILLING OIL CANS.—Jabez A. Bostwick, New York city.
- 104,415.—PAPER FILE.—William Boyrer, New York city.
- 104,416.—INSTRUMENT FOR GIVING FLUID MEDICINE TO ANIMALS.—Henry Adolph Brandes, Newark, N. J. (Francis H. I. Bosch executor).
- 104,417.—TUNING PIN FOR PIANOS.—Julius M. Branig, New York city.
- 104,418.—TREE PROTECTOR.—Sterne Brunson, Benton Harbor, Mich.
- 104,419.—CLOTHES-LINE HOLDER AND STRETCHER.—N. E. Buffington, North Providence, assignor to himself, John Rich, and Lyander Flagg, Smithville, R. I.
- 104,420.—DOOR KNOB.—G. W. Cady, Providence, R. I.
- 104,421.—APPARATUS FOR AGITATING AND COOLING BARRELS AND CASKS DURING THE PROCESS OF PITCHING.—David Cammerer, Cincinnati, Ohio.
- 104,422.—DEVICE FOR ROASTING AND BAKING.—John J. Carroll, Washington, D. C.
- 104,423.—SULKY, HARROW, ETC.—James A. Casey, Maysville Ky.
- 104,424.—MACHINE FOR FELTING HATS.—Angelo Cattaneo (assignor to himself and He Lefort), Newark, N. J.
- 104,425.—CABLE STOPPER.—E. R. Cheney, Boston, Mass., and John J. Emery, Owl's Head, Me.
- 104,426.—PIPE TONGS.—E. B. Clark, Philadelphia, Pa.
- 104,427.—INCLOSED TAIL RACE FOR WATER WHEEL.—W. A. Cobb, Orange, Mass.
- 104,428.—WATER WHEEL.—Alpheus C. Corpe, Stafford, Conn.
- 104,429.—SLED BRAKE.—John E. Contant, Rondout, N. Y.
- 104,430.—NOZZLE AND CAP FOR OIL CANS.—E. T. Covell, Brooklyn, N. Y.
- 104,431.—SOLDERING MACHINE.—E. T. Covell, Brooklyn, N. Y. Antedated June 6, 1870.
- 104,432.—VIAL FOR FILTERING COLLOIDION.—D. H. Cross, Bennington, Vt.
- 104,433.—METHOD OF COVERING WHIPS.—V. W. Crowsen (assignor to himself and Stephen Massey), Westfield, Mass.
- 104,434.—MANUFACTURE OF WHITE LEAD.—James Cuddy, Pittsburgh, and G. S. Selden, Philadelphia, Pa.
- 104,435.—FARM GATE.—John Dickson, Vevay, Ind.
- 104,436.—GAGE KNIFE FOR CUTTING LEATHER.—C. T. Durhan, James Wood, and Theodore Hall, Norristown, Pa.
- 104,437.—VICE.—Jacob Edson, Boston, Mass.
- 104,438.—MACHINE FOR CANNING FRUIT.—John H. Ellis, Peoria, Ill. Antedated June 11, 1870.
- 104,439.—APPARATUS FOR TOWING CANAL BOATS.—A. H. Emery and Gabriel Leverich, New York city.
- 104,440.—DIE FOR FORGING EARS FOR CARRIAGE SPRING HEADS.—John Evans, New Haven, Conn.
- 104,441.—SHIELD FOR PADLOCKS.—C. C. Gale, Indianapolis, Ind.
- 104,442.—MACHINE FOR FORMING EYELET STOCK.—Thomas Garrick, Providence, R. I.
- 104,443.—MACHINE FOR FEEDING STOCK TO EYELET MACHINE.—Thomas Garrick, Providence, R. I.
- 104,444.—HAND STAMP.—Jeremiah C. Gaston, Cincinnati, Ohio.
- 104,445.—CARD CLOTHING.—Artemas W. Gates, New York city.
- 104,446.—PREPARATION OF MINERAL BATH TO IMITATE MINERAL WATERS.—Otto Gavron, New York city.
- 104,447.—LATCH FOR GATES.—W. R. Goodrich, Whitestown, N. Y.
- 104,448.—WEATHER STRIP FOR DOORS.—J. M. Gray, Hamilton, N. Y.
- 104,449.—BOLT FOR DOORS AND SHUTTERS.—G. B. Green, Philadelphia, Pa.
- 104,450.—RAIN-WATER CONDUCTOR AND FILTER.—James C. Hall, Battle Creek, Mich.
- 104,451.—MECHANICAL MOVEMENT.—Wm. Hammill, Parma, Mich.
- 104,452.—MILKING STOOL.—Geo. W. Haviland, Fort Dodge, Iowa.
- 104,453.—INSTRUMENT FOR REMOVING TWINE AND WIRE FROM BOTTLES.—John T. Haviland, San Francisco, Cal.
- 104,454.—MACHINE FOR BOARDING LEATHER.—J. W. Hildreth, Boston, Mass.
- 104,455.—SIDE SADDLE TREE.—William Hill, New York city.
- 104,456.—SIDE SADDLE.—William Hill, New York city.
- 104,457.—AUGER.—R. H. Hopkins, Hinsdale, N. H.
- 104,458.—MITER MACHINE.—James R. Howell, Buffalo, N. Y.
- 104,459.—PISTON PACKING.—John Hughes, Saxton, Pa.
- 104,460.—GRAIN LIFTER AND HARVESTER.—W. M. Jackson, Woodland, Cal.
- 104,461.—COOKING STOVE.—S. S. Jewett and F. H. Root, Buffalo, N. Y.
- 104,462.—CAR COUPLING.—Wm. J. Johnson, New Orleans, La.
- 104,463.—METALLIC BRACKET.—A. D. Judd, New Haven, Conn.
- 104,464.—METALLIC BRACKET.—A. D. Judd and E. M. Judd, New Haven, Conn.
- 104,465.—SPRING BOLT FOR WINDOWS.—Morton Judd, New Haven, Conn.
- 104,466.—THERMOMETER.—John Kendall, New Lebanon, N. Y.
- 104,467.—SAW SET.—Moritz Theodore Klahre, Bloody Run, Pa.
- 104,468.—Suspended.
- 104,469.—ROTARY PUMP.—August Leuchtweiss, Cincinnati, Ohio.
- 104,470.—BLEACHING DARK SOAP AND "FOOTS."—Oscar Loew assignor to John M. Pendleton, New York city.
- 104,471.—ARTIFICIAL FUEL.—E. F. Loiseau and C. F. Requin, Nashville, Tenn.
- 104,472.—ADJUSTABLE SCHOOL DESK.—C. H. Loomis, New Philadelphia, Ohio.
- 104,473.—HEAD REST.—Baxter Lyon and Charles M. Curtis, Springfield, Mass.
- 104,474.—SHIPS' PORT.—C. E. Marshall, Chicago, Ill.
- 104,475.—BREAST STRAP FASTENING FOR HARNESS.—J. H. Martin, Columbus, Ohio.
- 104,476.—MACHINE FOR BORING POSTS AND POINTING RAILS.—Rudolph Martin and Matthew Harner, Taneytown, Md.
- 104,477.—PAPER BOX MACHINE.—Charles A. Maxfield, New York city.
- 104,478.—JOURNAL BEARING FOR CALENDAR ROLLS.—Wm. McAdams, Newton, Mass.
- 104,479.—DEVICE FOR MOLDING AND CASTING PIPE.—John McClelland, Washington, D. C.
- 104,480.—HAY GATHERER AND CARRIER.—Galen Meaders, Jeffersonville, Ind., assignors to himself and Rozel Weissinger, Louisville, Ky.
- 104,481.—LAMP.—R. S. Merrill, Hyde Park, assignor to himself, W. B. Merrill, and Joshua Merrill, Boston, Mass.
- 104,482.—HARVESTER.—Jesse C. Miles, Bloomington, Wis.
- 104,483.—HARVESTER RAKE.—Wm. W. Miller, Zionsville, Ind.

104,484.—DOUBLE LEVER MASTER WHEEL.—D. E. Mitchell, Rural Dale, Ohio.
104,485.—SLEEPING CAR.—Geo. F. Morse, Portland, Me.
104,486.—VENTILATING WINDOW FOR RAILROAD CARS.—M. C. Murphy, Boston, Mass.
104,487.—GRAIN BINDER.—Wm. B. Oglesby, Ridge Prairie, Ill.
104,488.—PAIL EAR.—Joel A. Otis, Rutland, N. Y.
104,489.—HARVESTER.—John G. Perry, Kingston, R. I.
104,490.—HARVESTER.—John G. Perry, Kingston, R. I.
104,491.—EVAPORATING CANE JUICE.—Simeon A. Poche, Parish of St. James, La.
104,492.—MACHINE FOR GRINDING ROLLERS.—J. M. Poole (assignor to himself, Wm. T. Porter, and T. S. Poole), Wilmington, Del.
104,493.—COMBINED STOVE DOOR AND HEARTH.—J. A. Price, Scranton, Pa.
104,494.—CONCENTRATING THE JUICE OF TOMATOES.—Christopher T. Provost, New York city.
104,495.—CLOTHESLINE REEL.—D. D. Pugh, Brooklyn, N. Y. Antedated June 11, 1870.
104,496.—QUARTZ CRUSHER.—Jesse Quaintance, Bucyrus, Ohio.
104,497.—GRIDIRON FOR STOVE AND RANGE.—J. M. Read, Boston, Mass.
104,498.—CULTIVATOR AND ROLLER COMBINED.—Linus G. Reed and Erastus E. Reed, Stark county, Ill.
104,499.—POCKET OR "CHARM" LETTER SCALE.—George S. Rice, New York city, assignor to Vulcanite Jewelry Company.
104,500.—TURBINE WATER WHEEL.—B. F. Sampson, West Brookfield, Mass.
104,501.—STEAM RADIATOR.—Sidney Sanders, Springfield, Mass.
104,502.—BREECH-LOADING FIRE-ARM.—Edward L. Sargent, Watertown, N. Y.
104,503.—THRASHING MACHINE.—William Schnebly, Hackensack, N. J.
104,504.—SPRING BED BOTTOM.—D. A. Scott (assignor to Alen C. Richards), Cincinnati, Ohio.
104,505.—TWEINE HOLDER.—James S. Smith, Middletown, Conn.
104,506.—MEAT CUTTER.—John E. Smith, Buffalo, N. Y. Antedated June 15, 1870.
104,507.—METHOD OF MAKING EILES.—Thomas S. Smith, Cincinnati, Ohio.
104,508.—SEED STRIPPER.—Major Joseph W. Stivers, North Middletown, Ky.
104,509.—BOLT AND RIVET TRIMMER.—Mathias Theisen, Waukon, Iowa.
104,510.—STEAM HEATER.—Samuel D. Tillman, Jersey City, N. J.
104,511.—STEAM GENERATOR.—Samuel D. Tillman, Jersey City, N. J.
104,512.—PROPELLING VESSELS.—Samuel D. Tillman, Jersey City, N. J.
104,513.—METALLIC PAVEMENT.—Samuel D. Tillman, Jersey City, N. J.
104,514.—COMPOSITION ROLL FOR CLOTHES WRINGERS.—William Henry Towers, Boston, Mass.
104,515.—SEEDER AND CULTIVATOR COMBINED.—James T. Trowbridge, Akron, Ohio.
104,516.—SHIELD FOR GAS BURNERS.—Hiram J. Wattles, Rockford, Ill.
104,517.—CHILD'S CHAIR.—Abraham H. Wehser, San Francisco, Cal.
104,518.—POTATO DIGGER.—Daniel B. Westfall, Lyons, N. Y.
104,519.—MORTAR MIXER.—Seth Wetmore, Wellsborough, Pa.
104,520.—GLUE OR CEMENT.—Nelson S. Whipple, Detroit, Mich.
104,521.—BEEHIVE.—N. F. White, Mount Pleasant, Iowa.
104,522.—STEAM GENERATOR.—S. Lloyd Wiegand, Philadelphia, Pa.
104,523.—REFRIGERATING ATTACHMENT FOR WELLS.—J. L. Wiley, Vermont, Ill.
104,524.—PREPARING GOLD FOR DENTISTS' USE.—Richard S. Williams, New York city.
104,525.—LAMP FOR BURNING CANDLES.—Thomas Scott Williams and Freeman A. Taber, Boston, Mass.
104,526.—MERCURIAL EXPANSION ENGINE.—C. G. Wilson, Brooklyn, N. Y.
104,527.—APPARATUS FOR BENDING AND UPSETTING TIRE.—John T. Woodward, Bowling Green, Ky.
104,528.—PADDLE WHEEL.—L. W. Wright, Brooklyn, N. Y.
104,529.—HORSE HAY FORK.—John S. Yinger, Manchester, Pa.
104,530.—FARE BOX FOR OMNIBUSES, ETC.—W. H. Young, Chicago, Ill.
104,531.—GAS HEATER.—Amos Adams, Sturgis, Mich.
104,532.—MODE OF UNITING EDGES OF KNITTED GOODS.—Satterlee Arnold, Claverack, N. Y.
104,533.—STEAM GENERATOR.—Wm. Arthur, Newport, Ky.
104,534.—CHANNEL FOR BOOTS AND SHOES.—Robert Ashe, Boston, Mass.
104,535.—APPARATUS FOR INDICATING THE POSITION OF ELEVATORS.—William Stuart Auchincloss, New York city.
104,536.—GRAIN MEASURING ATTACHMENT TO THRASHING MACHINES.—Benjamin Baker, Addison, Mich.
104,537.—GRINDING MILL.—John G. Baker, Philadelphia, Pa.
104,538.—SPRING BED BOTTOM.—William W. Bartlett, Portland, Me.
104,539.—DRAWING KNIFE.—C. C. Barton, Rochester, N. Y.
104,540.—EDGE-IRON FOR SHOEMAKERS.—E. D. Beales (assignor to himself and John Dagee), Gallipolis, Ohio.
104,541.—VISE.—Jonas D. Beck, Liberty, Pa.
104,542.—BILLIARD CUSHION.—John Berlien, Chicago, Ill.
104,543.—CAR COUPLING.—Abraham Beucus and Tennessee, Waukon, Wis.
104,544.—CANE MILL.—Leopold Biddle, Knoxville, Iowa.
104,545.—HORSE HAY RAPE.—L. S. Bortree, Grand Rapids, Mich.
104,546.—LIFE PRESERVER.—Thos. B. Boyd, St. Louis, Mo.
104,547.—DETACHING HOOK.—John Bozorth, Camden, N. J.
104,548.—LOG LOADER AND PILER.—James G. Brady, Forest Hill, Mich.
104,549.—SOAP.—Leonard Brockett, West Haven, assignor to himself and David L. Stillson, Ansonia, Conn.
104,550.—BOLLER AND WASHER.—E. C. Brooks, Norwich, N. Y.
104,551.—COMBINED WOOD AND CONCRETE PAVEMENT.—J. Warren Brown, Washington, D. C.
104,552.—CLOTHES DRYER.—W. H. Buell, Union City, Mich.
104,553.—METAL ROOFING.—Thomas Carter, Niles, Ohio.
104,554.—PRINTING INK.—G. W. Casilair, Washington, D. C.
104,555.—GATE.—John D. Chambers, Williamsport, Ind.
104,556.—GATE.—John D. Chambers, Williamsport, Ind.
104,557.—DRAFT AND HOLD-BACK ATTACHMENT.—William H. Chamberlin, Medina, N. Y.
104,558.—LAMP SHADE SUPPORTER.—E. E. Conrad (assignor to Henry Coulter and B. H. Jones), Philadelphia, Pa. Antedated June 18, 1870.
104,559.—FRUIT DRYER.—Newton C. Cooley, Wyoming, Del.
104,560.—SOLE EDGE FINISHING MACHINE FOR BOOTS AND SHOES.—Louis Coté, St. Hyacinth, Province of Quebec, Canada.
104,561.—THREAD CUTTER FOR SEWING MACHINE.—John Crowe, Guelph, Canada.
104,562.—ASPHALTUM OR CONCRETE PAVEMENT.—Austin G. Day, Seymour, Conn.
104,563.—STREET AND STATION INDICATOR FOR RAILROAD CARS.—Edward L. Dean, Newburgh, Ohio.
104,564.—BUCKLE.—Thomas Duncan, Brookville, Md.
104,565.—TATTING SHUTTLE.—B. L. Fetherol, Tamaqua, Pa.
104,566.—PASSENGER REGISTER FOR HORSE CARS.—Eugene L. Fitch (assignor to himself and Carlos Clough), West Eau Claire, Wis. Antedated June 17, 1870.
104,567.—HOISTING APPARATUS.—O. H. Flook, Middletown, Md.
104,568.—STOP VALVE.—James Flower, Detroit, Mich.
104,569.—WAGON STEP.—M. C. Floyd, Bloomfield, Ill.
104,570.—ANIMAL TRAP.—Francis Fox, Meadville, Pa.
104,571.—GRAIN SEPARATOR.—Abram Gaar, Richmond, Ind.
104,572.—PADLOCK.—Edward L. Gaylord, Terryville, Conn.

104,573.—APPARATUS FOR UTILIZING THE EXHAUST STEAM OF STEAM ENGINES.—Henry Gerner, New York city.
104,574.—FRUIT JAR.—Thomas P. Gibbons, Philadelphia, Pa.
104,575.—BEER FUNNEL.—William Golden, Flint, Mich. Antedated June 11, 1870.
104,576.—SUCKER-ROD JOINT.—Adam Good, Jr., Titusville, Pa.
104,577.—COMBINED RULE, LEVEL, CLINOMETER, ETC.—E. A. Gooden (assignor to "Philadelphia Patent and Novelty Company"), Philadelphia, Pa.
104,578.—MACHINE FOR ROUNDING AND DRESSING IRREGULAR AND REGULAR FORMS.—H. A. Gore, Goshen, Ind.
104,579.—WATER WHEEL.—William Greenwell, Ripley, Ill.
104,580.—CAR TRUCK.—G. H. Griggs, Worcester, Mass.
104,581.—HEATING STOVE.—John Grossius, Cincinnati, Ohio.
104,582.—MACHINE FOR CUTTING BEVELS ON THE TENONS OF SPOKES.—A. F. Gue, Eastmanville, Mich.
104,583.—BUGGY SEAT.—Christian Haas, Chicago, Ill.
104,584.—GRINDING LEDGER AND FLY BLADES, PLANER-KNIVES, ETC.—Charles Hardy, Biddeford, Me.
104,585.—BLOWER.—Dexter D. Hardy and E. E. Wood, Cincinnati, Ohio, assignors to P. H. Roots and F. M. Roots, Connersville, Ind.
104,586.—DEVICE FOR FORMING CHANNELS IN RIVERS.—A. W. Harlan, Croton, Iowa.
104,587.—APPARATUS FOR TREATING DISEASES BY MEANS OF GALVANISM.—J. B. Hatting (assignor to himself and Stephen Sherlock), New York city.
104,588.—COOLING AND PRODUCING ICE.—C. E. Haynes, Boston, Mass.
104,589.—BOTTOM FOR WASH BOILERS AND SIMILAR VESSELS.—G. H. Hazelton, Philadelphia, Pa.
104,590.—SEWING MACHINE.—H. P. Henriksen, Copenhagen, Denmark, assignor to C. E. Broesser, Paris, France.
104,591.—CORN PLANTER AND FERTILIZER.—A. L. Holcomb, Hopewell, N. J.
104,592.—LINING BESSEMER CONVERTERS.—A. L. Holley, Brooklyn, N. Y.
104,593.—DUPLICATION PRESSURE GAGE.—P. B. Hovey, New London, Conn.
104,594.—DREDGING MACHINE.—D. S. Howard, Lyons Falls, N. Y. Antedated June 11, 1870.
104,595.—MOTIVE-POWER APPARATUS.—Abram Jackson, Lebanon, Tenn.
104,596.—BOOT CRUMPER.—Samuel W. Jamison, Newark, N. J.
104,597.—CLOTHESLINE HOLDER.—C. A. Kalck, Philadelphia, Pa.
104,598.—LOCK.—W. M. Keefe (assignor to himself and James Harding), Chicago, Ill.
104,599.—MACHINE FOR SHAVING HEELS OF BOOTS AND SHOES.—A. B. Keith, North Bridgewater, and T. K. Reed, East Bridgewater, Mass., assignors to Azra B. Keith.
104,600.—WATER WHEEL.—James C. Kelly, Groveland, N. Y.
104,601.—HANK FOR SAILS.—George Kirtland, Westbrook, Conn.
104,602.—FAUCET.—John Knoche (assignor to himself and Henry Varwig), Cincinnati, Ohio.
104,603.—PADDLE WHEEL.—W. F. Knowlton (assignor to himself and W. T. Clark, St. Cloud, Minn.
104,604.—PUMP.—R. M. Lafferty (assignor to himself and E. P. Smith), Three Rivers, Mich.
104,605.—WATER ELEVATOR.—James F. Latimer, Detroit, Mich.
104,606.—CLAMP.—J. J. Lebeau, Cincinnati, Ohio.
104,607.—CORPSE PRESERVER.—E. F. Lenox and Charles Eckhart, Trenton, N. J.
104,608.—MOTIVE POWER FOR SEWING MACHINES.—E. J. Leyburn, Lexington, Va.
104,609.—PICTURE KNOB.—H. C. Luther, Providence, R. I., and C. E. Richards, North Attleborough, Mass.
104,610.—MOTIVE POWER FOR SEWING MACHINES.—G. W. Manson, Jersey City, N. J., assignor to himself, C. M. Vandervoost, and R. B. Westbrook.
104,611.—BROILER.—Benjamin Marshall, Marietta, Ohio.
104,612.—TUCK CREATING MECHANISM FOR SEWING MACHINES.—C. F. Martine, Boston, Mass.
104,613.—SAW HANGING.—Sylvester G. Mason, Rochester, N. Y.
104,614.—APPARATUS FOR COOLING BUILDINGS AND MAKING ICE.—W. S. Mason, Raleigh, N. C.
104,615.—DRAIN-TILE MACHINE.—F. M. Mattice, Cleveland, Ohio.
104,616.—STEAM PUMP.—J. R. Maxwell and Ezra Cope, Cincinnati, Ohio.
104,617.—MIRROR AND PICTURE FRAME.—Wm. McConnell, Clarksville, N. J.
104,618.—HARVESTER.—L. J. McCormick and W. R. Baker (assignors to C. H. McCormick & Bro.), Chicago, Ill.
104,619.—HARDENING MAGNESIAN LIMESTONE.—John McMurry, Mt. Sterling, Ky.
104,620.—MOLDERS' RAMMER.—E. H. Meigs (assignor to the Roys & Wilcox Company, East Berlin, Conn.
104,621.—PAPER-FOLDING MACHINE.—Wm. Mendham (assignor to Edwin Chambers and Cyrus Chambers, Jr.), Philadelphia, Pa.
104,622.—METHOD OF FASTENING LEADS.—John Merlett, Round Brook, N. J.
104,623.—LAMP.—R. S. Merrill, Hyde Park, assignor to himself, W. B. Merrill, and Joshua Merrill, Boston, Mass.
104,624.—LAMP BURNER.—Rufus S. Merrill, Hyde Park, assignor to himself, W. B. Merrill, and Joshua Merrill, Boston, Mass.
104,625.—LAMP BURNER.—Rufus Spaulding Merrill, Hyde Park, assignor to himself, W. B. Merrill, and Joshua Merrill, Boston, Mass.
104,626.—SPRING SULKY.—Edward Milner, Marquette, Mich.
104,627.—CHURN POWER.—George T. Montague, Keokuk, Iowa.
104,628.—BOLSTER PLATE.—Thomas Morgan, Marquette, Mich.
104,629.—PROCESS AND COMPOSITION FOR WATER-PROOFING LEATHER, ETC.—Wm. Morris, Philadelphia, Pa.
104,630.—BUTTON-HOLE SEWING MACHINE.—Isidor Nasch, Berlin, Prussia.
104,631.—DITCHING MACHINE.—L. D. Noble, Cerro Gordo, Ill.
104,632.—PORTABLE APPARATUS FOR C RING MEATS, AND FOR OTHER PURPOSES.—H. J. Noyes and Samuel C. Talcott, Ashtabula, Ohio.
104,633.—BED SPRING.—August W. Obermann, Chicago, Ill.
104,634.—RUNNING GEAR FOR CARRIAGES.—Thomas O'Brien, Quincy, Mich.
104,635.—ARGAND OIL BURNER.—Geo. K. Osborn, New York city.
104,636.—REVOLVING FIRE-ARM.—W. I. Page (assignor to himself and C. E. Robinson), Boston, Mass.
104,637.—LATH MACHINE.—S. M. Palmer and G. E. Palmer, Sandy Hill, N. Y.
104,638.—MANUFACTURE OF USEFUL AND ORNAMENTAL FABRICS FROM VEGETABLE AND ANIMAL FIBERS.—Eugene Pavy, Paris, France.
104,639.—SAW-GUMMING AND SHARPENING MACHINE.—E. W. Phelps, Elizabeth, N. J.
104,640.—WATCH-CHAIN LOCK.—Simon Pinover (assignor to Kaufmann Brothers), New York city.
104,641.—COMBINED PUMP AND SIPHON.—William Pitman, New York city.
104,642.—APPARATUS FOR CARBURETING AIR.—R. H. Plass, New York city. Antedated June 11, 1870.
104,643.—METAL SOLES FOR BOOTS AND SHOES.—Jas. Punderford, New Haven, Conn.
104,644.—TROWEL.—Franklin Reed, Canton, Mass.
104,645.—LATHE FOR MAKING AWL HANDLES.—Franklin Reed, Canton, Mass.
104,646.—HARNESSE HOOK.—Michael Reilly, Covington, Ky.
104,647.—MACHINE FOR ROLLING METALLIC ROOFING PLATES.—G. A. Reynolds, Rochester, N. Y.
104,648.—PAINT FOR ROOFS.—Thomas C. Rice, Worcester, Mass.
104,649.—OIL-WELL REAMER.—John Bigg, J. E. Hall, and C. F. Fenton, Cleveland, Ohio.
104,650.—STEAM WATER ELEVATOR.—Chas. Rogers, Allegheny City, Pa.

104,651.—RAILWAY-CAR SIGNAL.—W. M. Russell, Cincinnati, and O. S. Pease, Zenia, Ohio.
104,652.—MANUFACTURE OF FELT HATS.—G. H. Scribner, Natick, Mass.
104,653.—REED ORGAN.—George W. Scribner, Detroit, Mich.
104,654.—CLOTHESPIN.—Irving W. Searles, Tiffin, Ohio.
104,655.—KILN FOR CALCINING ORES, LIMESTONE, ETC.—C. W. Siemens, Westminster, England.
104,656.—SPECTACLES.—Colin Cree St. Clair, Detroit, Mich.
104,657.—UTERINE SUPPORTER.—B. F. Stephenson, Springfield, Ill.
104,658.—SHOEMAKERS' TOOL.—Camille St. Germain, Oxford, Mass.
104,659.—STOP-MOTION FOR STEAM ENGINES.—John Storer, Peekskill, N. Y. Antedated June 9, 1870.
104,660.—NEEDLE FOR SEWING MACHINE.—Edwin Strain, Newton, Mass.
104,661.—DEVICE FOR HOLDING THE COW'S TAIL WHILE MILKING.—George Tanner, Freetown, N. Y.
104,662.—BREAD-BAKING APPARATUS.—J. A. H. Te Gantvoort, Waupun, Wis.
104,663.—FAUCET.—Robert Tilly, Brooklyn, N. Y.
104,664.—CORN PLANTER.—B. F. Tomb, Tiffin, Ohio.
104,665.—COMPOSITION BRONZE PAINT.—Arthur Towne, Auburn, Me.
104,666.—BOLT FOR SAFE DOORS.—Hiram B. Tripp, Boston, Mass.
104,667.—ANIMAL TETHER.—James W. Upson, Tallmadge, Ohio.
104,668.—PEGGING MACHING.—Charles Varney, East Bromfield, Mass.
104,669.—HAY TEDDER.—Horace Warren, Leicester, Mass.
104,670.—CAR COUPLER.—Paul Weatherbee, Port Washington, Ohio.
104,671.—COAL SIFTER.—Allen P. Webb, Charlestown, Mass.
104,672.—LATCH OR FASTENING FOR DOORS.—J. R. Webber, Morris, Ill.
104,673.—STREET-CAR STARTER.—Hilyard Welch (assignor to A. M. Salisbury, Schuylersville, N. Y.
104,674.—SKIPPING HOOP.—Edward Whitehead, Cincinnati, Ohio.
104,675.—WATER METER.—G. B. Wiggin, South New Market, N. H., assignor to Orville Peckham, trustee, assignor to G. B. Wiggin and J. W. Hoard.
104,676.—FRUIT JAR.—Benjamin B. Wilcox, New Haven, Conn.
104,677.—MEDICINE FOR CURE OF DISEASES IN CATTLE.—E. A. Wilder, Denysville, Me.
104,678.—CAR COUPLING.—R. F. Wolcott (assignor to A. C. Chase), Claremont, N. H.
104,679.—CAR COUPLING.—J. C. Wrenshall, Baltimore, Md.
104,680.—PROCESS AND APPARATUS FOR PRESERVING FRUITS, VEGETABLES, ETC.—J. C. Wrenshall, Baltimore, Md.
104,681.—RE-SAWING MACHINE.—James York, Jr., Monroe, Mich.
104,682.—BREECH-LOADING FIRE-ARM.—L. V. Young, St. Louis, Mo.
103,098.—STOVE GRATE.—Reuben Solliday, Allentown, Pa.—Dated May 17, 1870.

REISSUES.

4,036.—CORN SHELLER.—John Bowles, Augusta, Ga., for himself and S. P. Ross, Pittsburgh, Pa., assignee of John Bowles.—Patent No. 82,550, dated May 4, 1869.
4,037.—SHOE.—Charles Buffum, Lynn, Mass., assignee of Joseph B. Johnson.—Patent No. 46,229, dated Feb. 7, 1865.
4,038.—DIVISION A.—EXCAVATING MACHINE.—O. S. Chapman, Canton, Mass.—Patent No. 63,857, dated April 16, 1867.
4,039.—DIVISION B.—EXCAVATING MACHINE.—O. S. Chapman, Canton, Mass.—Patent No. 63,857, dated April 16, 1867.
4,040.—LIQUID METER.—Jose F. De Navarro, New York city, assignee, by means assignments, of Franz Wagner.—Patent No. 93,256, dated Jan. 25, 1870.
4,041.—SIDESADDLE.—John T. Gathright, Louisville, Ky., assignee of himself and John C. Freeman.—Patent No. 94,737, dated Sept. 14, 1869.
4,042.—GRATE.—James Old, Pittsburgh, Pa.—Patent No. 87,790, dated March 16, 1869.
4,043.—GLOBE STEAM VALVE.—The Rock Valve Manufacturing Co., Ludlow, Vt., assignee of E. A. Rock.—Patent No. 74,144, dated Feb. 4, 1868.

DESIGNS.

4,156.—TRADE MARK.—William A. Burke, Lowell, Mass., assignor to "The Proprietors of the Tremont Mills."
4,157.—STOCKING FABRIC.—Thomas Dolan, Philadelphia, Pa.
4,158.—"BEDOUIN," OR ARAB.—Thomas Dolan, Philadelphia, Pa.
4,159.—BUILDING FRONT.—John Fraser, Frank Furness, and G. W. Hewitt, Philadelphia, Pa.
4,160.—SASH FASTENER.—William Gorman, New Britain, Conn.
4,161.—ORGAN.—Emmons Hamlin, Winchester, assignor to "Mason & Hamlin Organ Co.," Boston, Mass.
4,162.—FRAME FOR A PRINTING PRESS.—John Henry, Milburn, N. J.
4,163.—WIRE BROILER.—W. J. Johnson, Newton, and H. A. Hildreth, Lowell, Mass.
4,164.—"BASCHLIK."—Martin Landenberger, Philadelphia, Pa.
4,165.—SHAPE OF A HOOD.—Martin Landenberger, Philadelphia, Pa.
4,166.—TABLE CASTER.—C. H. Latham, Lowell, Mass.
4,167.—PLATES AND FEET OF THE "DEXTER" COOKING STOVE.—John Martino & John Currie (assignors to Chas. Noble & Co.), Philadelphia, Pa. Antedated May 26, 1870.
4,168.—DOG MUZZLE.—F. J. Meyers, Covington, Ky.
4,169.—BREAST COLLAR FOR HARNESS.—W. R. Olmsted, Fayette, N. Y.
4,170.—BOTTLE.—O. H. P. Rose, East Greenwich, R. I.
4,171.—COOKING STOVE.—Garrettson Smith and Henry Brown, Philadelphia, Pa., assignors to C. S. Francis, Henry Francis, H. L. Buckwalter, J. A. Buckwalter, and John Sheeler.
4,172.—HEATING STOVE.—G. Smith and H. Brown, Philadelphia, Pa., assignors to C. S. Francis, Henry Francis, H. L. Buckwalter, J. A. Buckwalter, and John Sheeler.
4,173.—RING AND BUCKLE.—James E. Strode, Hillsborough, Ill.

EXTENSIONS.

BOOT TREE.—C. T. Eames, Milford, Mass.—Letters Patent No. 14,951, dated May 27, 1856; reissue No. 1,232, dated March 25, 1862; reissue No. 2,466, dated Jan. 29, 1867.
OPERATING STEAM STAMPS.—Adelia E. Ball and Edwin P. Ball, of Chicopee, Mass., administrators of William Ball, deceased.—Letters Patent No. 14,944, dated May 27, 1856.
GRINDING CIRCULAR SAWS.—Wm. Clemson, Middletown, N. Y.—Letters Patent No. 14,950, dated May 27, 1856.

APPLICATIONS FOR THE EXTENSION OF PATENTS.

MACHINE FOR PREPARING FIBROUS SUBSTANCES FOR SPINNING.—James Apperly and William Clissold of Durdbridge, Great Britain, have petitioned for the extension of the above patent. Day of hearing Nov. 16, 1870.
REPAIRING RAILWAY BARS.—Geo. Johnson, Marshall, Mich., has petitioned for an extension of the above patent. Day of hearing Aug. 24, 1870.
HARVESTER.—William P. Mason, Elmira, N. Y., has applied for an extension of the above patent. Day of hearing Aug. 24, 1870.
SAW GUMMER.—Richard H. Garrigues, Salem, Ohio, has petitioned for an extension of the above patent. Day of hearing Aug. 24, 1870.
MACHINE FOR SWEEPING STREETS.—Robert A. Smith, Philadelphia, Pa., has applied for an extension of the above patent. Day of hearing Aug. 24, 1870.
MODE OF CONSTRUCTING WALLS AND FLOORS OF CELLARS.—Sophia A. Mosen, Stamford, Conn., and Phillip L. Mosen, Worcester, Mass., have petitioned for an extension of the above patent. Day of hearing August 24, 1870.