

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 Erasmus 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.—TWINE 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 Dage), 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, Waupun, 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. Casilear, 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. Goodes (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.—DUPLICATE 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.—TRUCK 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. Salsbury, 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 SHELTER.—John Bowles, Augusta, Ga., for himself and S. P. Ross, Pittsburgh, Pa., assignee of John Bowles.—Patent No. 82,550, dated May 4, 1868.
 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. 1,292, 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 Duddridge, 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.