

- 120,176.—REST.—E. Withall, Rochester, N. Y.
- 120,177.—LOCK.—S. N. Brooks, Bernardston, Mass.
- 120,178.—FENCE.—P. C. Yost, Carthage, Ill.
- 120,179.—ORDNANCE.—H. Arden, Brooklyn, N. Y.
- 120,180.—LOCOMOTIVE.—W. D. Arnett, Denver City, Col. Ter.
- 120,181.—MILLSTONE PICK.—S. A. Bell, Newtown, Ohio.
- 120,182.—ROCK CUTTER.—M. C. Bullock, Rutland, Vt.
- 120,183.—ROTARY ENGINE.—W. Case, Troy, Ill.
- 120,184.—HEATER.—E. C. Clay, Malden, Mass.
- 120,185.—ELECTRIC CLOCK.—W. M. Davis, Cincinnati, Ohio.
- 120,186.—CLEARING OIL WELL.—J. Dickey, Oil City, Pa.
- 120,187.—BUCKLE.—E. F. Driggs, Brooklyn, N. Y.
- 120,188.—GRATE BAR.—A. W. Foster, Jr., Pittsburgh, Pa.
- 120,189.—HOD ELEVATOR.—E. H. Garrigues, St. Louis, Mo.
- 120,190.—NAIL MACHINE.—J. C. Gould, Oxford, N. J.
- 120,191.—LITTON.—J. Greene, Providence, R. I.
- 120,192.—FASTENING.—J. J. Greenough, Syracuse, N. Y.
- 120,193.—PAVEMENT.—W. J. Harris, Elizabeth, N. J.
- 120,194.—ALARM PUMP.—E. Haskell, Dover, N. H.
- 120,195.—HARROW.—E. W. Herendeen, Geneva, N. Y.
- 120,196.—PRIMER.—A. C. Hobbs, J. Orcutt, Bridgeport, Conn.
- 120,197.—TRAP.—T. W. Houchin, Morrisania, N. Y.
- 120,198.—BRAN DUSTER, ETC.—J. H. Jones, Yellow Springs, O.
- 120,199.—CAR COUPLING.—J. H. Kenworthy, West Point, Ind.
- 120,200.—TREADLE.—E. W. Keyes, Charlestown, C. K. Bradford, Boston, Mass.
- 120,201.—STEAM GAGE.—G. Lightbody, New York city.
- 120,202.—BRICK KILN.—T. Lindsley, New York city.
- 120,203.—PUNCHING MACHINE.—R. Livingston, Albany, N. Y.
- 120,204.—HARROW.—J. Mathison, Fremont, Neb.
- 120,205.—HARVESTER.—E. R. McCall, Simcoe, Canada.
- 120,206.—FIRE LIGHTER.—J. McCallum, J. Hartzell, Alliance, O.
- 120,207.—SPINDLE.—T. E. McDonald, Trenton, N. J.
- 120,208.—SUN SHIELD.—H. D. McGovern, Brooklyn, N. Y.
- 120,209.—ROVING FRAME.—E. P. Morgan, Saco, J. H. McMullan, Biddeford, Me.
- 120,210.—WOODEN PIPE.—A. Muller, Brooklyn, N. Y.
- 120,211.—FIRE ESCAPE, ETC.—W. H. Nobles, St. Paul, Minn.
- 120,212.—PLANE.—R. Phillips, Boston, Mass.
- 120,213.—LUBRICATOR, ETC.—T. Roddick, Stranraer, J. Lockhead, Glasgow, N. B.
- 120,214.—LAMP BURNER.—S. Ross, Washington, D. C.
- 120,215.—RESTORING INDIGO.—F. A. Sawyer, Boston, Mass.
- 120,216.—WELL.—H. Smith, Southington, Conn.
- 120,217.—STOVE.—G. T. Spaulding, Broadhead, Wis.
- 120,218.—WASH BOILER.—G. F. Stone, Baltimore, Md.
- 120,219.—CLOTH SHEARER.—J. A. Thurston, Providence, R. I.
- 120,220.—LOG ROLLER.—J. Torrent, Muskegon, Mich.
- 120,221.—STEAM ENGINE.—S. Van Emon, Covington, Ky.
- 120,222.—PITMAN.—S. Van Emon, Covington, Ky.
- 120,223.—COPING.—C. Willcox, New Haven, Conn.
- 120,224.—PICTURE CASE.—I. F. Woodward, McMinnville, Tenn.
- 120,225.—PRINTING PRESS.—J. B. Adt, Baltimore, Md.
- 120,226.—GAS LIGHTER.—A. N. Allen, R. H. Dewey, Pittsfield, Mass.
- 120,227.—PAPER FILE.—H. J. Asthalter, Pittsburgh, Pa.
- 120,228.—GIRDER.—Z. S. Ayres, New York city.
- 120,229.—STOVE.—R. Backus, Albany, N. Y.
- 120,230.—SEED DROPPER.—J. C. Barlow, Quincy, Ill.
- 120,231.—ROTARY ENGINE.—J. W. Barriger, Omaha, Neb.
- 120,232.—HORSE POWER.—S. Basket, Crittenden Co., Ark.
- 120,233.—HEATER, ETC.—E. A. Beardsley, Binghamton, N. Y.
- 120,234.—DESK.—S. L. Bligh, Pittsfield, Pa.
- 120,235.—BOILERS, ETC.—G. W. Bollman, Pittsburgh, Pa.
- 120,236.—PAVEMENT.—S. B. Brittan, Newark, N. J.
- 120,237.—PAVING BLOCK.—S. W. Brooks, Brownsville, Tex.
- 120,238.—CHECK REIN.—B. L. Bedd, Fairfield, Conn.
- 120,239.—CHECK REIN.—B. L. Budd, Fairfield, Conn.
- 120,240.—CIGAR CLAMP.—N. A. Buhle, New York city.
- 120,241.—SEED PLANTER.—E. E. Chesney, Bushnell, Ill.
- 120,242.—DRYER.—S. L. Cheyney, Springfield, Ohio.
- 120,243.—SAW SET.—E. Y. Clark, New York city.
- 120,244.—STOVE.—J. H. Coddington, Taunton, Mass.
- 120,245.—PRINTING FRAME.—J. G. Coffin, Portsmouth, Ohio.
- 120,246.—BARK MILL.—O. Coogan, Pittsfield, Mass.
- 120,247.—LOCK.—G. Crompton, Jersey City, N. J.
- 120,248.—PLOW.—T. Cuming, Jr., Brookhaven, Miss.
- 120,249.—HARVESTER, ETC.—E. Culp, Hilliard, Ohio.
- 120,250.—MAT.—H. W. Curtis, Phila., Pa.
- 120,251.—LIGHTNING ROD.—D. W. Demorest, Newark, N. J.
- 120,252.—INDIA RUBBER SHOE.—L. Elliott, Jr., New Haven, Ct.
- 120,253.—DRYING FRUITS, ETC.—H. Endemann, New York city.
- 120,254.—FURNACE, ETC.—D. Eynon, St. Louis, Mo.
- 120,255.—SPINNING MACHINE.—L. W. Felt, Keene, N. H.
- 120,256.—SPINNING MACHINE.—L. W. Felt, Keene, N. H.
- 120,257.—FURNACE.—R. R. Finch, Peekskill, N. Y.
- 120,258.—HAND GRINDER.—H. C. Fisk, Wellsville, N. Y.
- 120,259.—EMPTYING CARBOYS.—W. Gee, New York city.
- 120,260.—ALBUM.—G. W. Hawes, New York city.
- 120,261.—BURGLAR ALARM.—L. Giebrich, Ottumwa, Iowa.
- 120,262.—TELEGRAPH.—W. Gillett, Allegheny City, Pa.
- 120,263.—TANK.—G. W. Glass, Pittsburgh, Pa.
- 120,264.—VESSEL.—J. S. Godfrey, Leslie, Mich.
- 120,265.—PULP ENGINE.—S. L. Gould, Skowhegan, Me.
- 120,266.—DIE.—J. J. Grant, Greenfield, Mass.
- 120,267.—WINDOW SASH.—J. Groves, New York city.
- 120,268.—PAVEMENT.—H. A. Gunther, New York city.
- 120,269.—VALVE.—A. M. Haley, Sioux City, Iowa.
- 120,270.—LOUNGE, ETC.—J. C. Hall, Cincinnati, Ohio.
- 120,271.—BED BOTTOM.—J. W. Hampton, Mt. Pleasant, Iowa.
- 120,272.—RELEASING HORSES.—J. Harrison, New York city.
- 120,273.—ELEVATOR.—T. Harter, Iliou, N. Y.
- 120,274.—CULTIVATOR.—J. W. Hatcher, Bethesda, Tenn.
- 120,275.—LIFTING JACK.—H. C. Havemeyer, New York city.
- 120,276.—WATER CLOSET.—D. L. Hawkins, Poughkeepsie, N. Y.
- 120,277.—SHUTTLE.—J. C. Hervey, Newport, Ky.
- 120,278.—BLAST.—W. Hollenbaugh, New Germantown, Pa.
- 120,279.—ROCK DRILL.—S. Ingersoll, New York city.
- 120,280.—GAS REGULATOR.—J. Keeling, New York city.
- 120,281.—SHUTTER WORKER.—L. B. Kenney, Charlotte, Mich.
- 120,282.—BRIDGE.—L. Kirkup, Brooklyn, N. Y.
- 120,283.—SOFA BED.—G. Knell, Philadelphia, Pa.
- 120,284.—TOY GUN.—J. Lair, J. F. Rawzell, Indianapolis, Ind.
- 120,285.—GRAIN SEPARATOR.—W. H. Lawrence, Baltimore, Md.
- 120,286.—WASHING MACHINE.—G. Leach, Union, N. Y.
- 120,287.—COFFEE MILL.—A. Lepage, Woodhaven, N. Y.
- 120,288.—TRANSMITTER.—G. Little, Rutherford Park, N. J.
- 120,289.—TELEGRAPH.—G. Little, Rutherford Park, N. J.
- 120,290.—TELEGRAPH.—G. Little, Rutherford Park, N. J.
- 120,291.—CIRCUIT CLOSER.—G. Little, Rutherford Park, N. J.
- 120,292.—STOP VALVE.—F. D. Livingston, Norwich, Conn.
- 120,293.—FAN.—M. Lochner, Newark, N. J.
- 120,294.—WATER COOLER, ETC.—R. Long, Pittsburgh, Pa.
- 120,295.—RAILWAY RAIL.—J. Maitland, Newburgh, Ohio.
- 120,296.—IRONING TABLE.—J. H. Mallory, La Porte, Ind.
- 120,297.—BALING PRESS.—T. E. Marable, Petersburg, Va.
- 120,298.—STEAM ENGINE, ETC.—R. M. Marchant, London, Eng.
- 120,299.—SMOKE CONSUMER, ETC.—G. Marlow, Chicago, Ill.
- 120,300.—WASH BASIN.—C. C. Marsh, New York city.
- 120,301.—SIDING GAGE.—J. Mason, Buffalo, N. Y.
- 120,302.—GAS MACHINE.—H. S. Maxim, Brooklyn, N. Y.
- 120,303.—AXLE SKELN.—L. Mayhew, Rock City Falls, N. Y.

- 120,304.—WRENCH.—T. D. McBride, Philadelphia, Pa.
 - 120,305.—WOOD BENDING.—H. McDonald, Shortsville, N. Y.
 - 120,306.—WOOD BENDING.—H. McDonald, Shortsville, N. Y.
 - 120,307.—KILN.—J. Q. Merriam, A. J. Dietrick, Fort Scott, Kan.
 - 120,308.—FENCE POST.—W. A. Middleton, Harrisburg, Pa.
 - 120,309.—CARD CASE.—I. M. Miller, Huntsville, Ala.
 - 120,310.—WASHING MACHINE.—T. W. Miller, Montezuma, Ind.
 - 120,311.—STOP COCK.—H. Muller, Vienna, Austria.
 - 120,312.—SEAT.—H. Nagle, Carlisle, Pa.
 - 120,313.—ALARM.—R. W. Newbery, New York city.
 - 120,314.—STRAW CUTTER.—J. K. O'Neil, Kingston, N. Y.
 - 120,315.—BED BOTTOM.—O. S. Osgood, Mount Pleasant, Iowa.
 - 120,316.—BRAKE.—J. Paradis, Brooklyn, N. Y.
 - 120,317.—FAN.—C. R. Patterson, Pittsburg, Pa.
 - 120,318.—FURNACE.—E. Peckham, Antwerp, N. Y.
 - 120,319.—BRIDGE.—O. H. Perry, W. H. Allen, Beloit, Wis.
 - 120,320.—BRISTLES.—A. P. Peyroux, New Orleans, La.
 - 120,321.—BENDING WOOD.—J. Phillips, Chicago, Ill.
 - 120,322.—GATE.—W. H. Phillips, Staunton, Ind.
 - 120,323.—CARTRIDGE.—G. R. Pierce, Grand Rapids, Mich.
 - 120,324.—ATTACHMENT.—J. C. Reed, Boston, Mass.
 - 120,325.—AIR ENGINE.—A. K. Rider, New York city.
 - 120,326.—SCROLL SAW.—I. R. Ritter, Reading, Pa.
 - 120,327.—BATTERY.—J. A. Robbins, Medford, Mass.
 - 120,328.—BLOWER.—T. Rogers, Fredericktown, Ohio.
 - 120,329.—GAS FITTING.—G. Rosenthal, Pittsburgh, Pa.
 - 120,330.—HAIR CLOTH.—W. Rosnagel, Newark, N. J.
 - 120,331.—HAIR CLOTH.—W. Rosnagel, Newark, N. J.
 - 120,332.—STREET CROSSING.—J. Schley, Savannah, Ga.
 - 120,333.—COMPOUND.—P. H. Schmid, New York city.
 - 120,334.—SASH HOLDER.—S. H. Shaw, Lynn, Mass.
 - 120,335.—WATCH PIVOT.—S. B. Simon, New York city.
 - 120,336.—JOAL HOD.—C. Smith, Brooklyn, N. Y.
 - 120,337.—LUBRICATOR.—C. Smith, Irwin's Station, Pa.
 - 120,338.—CARTRIDGE.—W. S. Smoot, Iliou, N. Y.
 - 120,339.—DREGGE BOX.—C. F. Spencer, Cleveland, Ohio.
 - 120,340.—PLANTER.—A. H. Stark, J. C. Mitchell, Nevada, Iowa.
 - 120,341.—BRAKE, ETC.—W. M. Starr, Washington, D. C.
 - 120,342.—GRATE.—T. Stone, Carbondale, Ill.
 - 120,343.—CATTLE GUARD.—S. S. Ttrack, Dover Township, Pa.
 - 120,344.—HARNESS.—C. R. Stuart, Winslow, Me.
 - 120,345.—WATER WHEEL.—S. D. Taylor, Hazleton, Pa.
 - 120,346.—WASH BOARD.—W. H. Towers, Boston, Mass.
 - 120,347.—BALING PRESS.—J. D. Towner, J. Harris, Murfreesborough, Tenn.
 - 120,348.—BLACKING.—O. K. Tripp, Rochester, N. Y.
 - 120,349.—REFINING OIL.—H. W. C. Tweddle, Pittsburgh, Pa.
 - 120,350.—BRUSH.—J. N. Valle, J. A. Stetson, Jr., North East, Pa.
 - 120,351.—DIE HOLDER.—B. L. Walker, Sing Sing, N. Y.
 - 120,352.—COFFER DAM.—J. E. Walsh, New York city.
 - 120,353.—VESSEL.—W. G. Warden, Philadelphia, Pa.
 - 120,354.—SEEDER, ETC.—J. W. Webb, New Athens, Ohio.
 - 120,355.—DISINFECTING.—H. M. Wells, New York city.
 - 120,356.—HORSE COLLAR.—C. Wheeler, Warsaw, Ohio.
 - 120,357.—ANIMAL POWER.—M. G. Wood, Church Corners, Mich.
 - 120,358.—GRATE.—R. J. Wood, Hancock, Mich.
 - 120,359.—MEAT CHOPPER.—N. T. Worthley Brunswick, Me.
 - 120,360.—STEAM VALVE, ETC.—H. Wright, Warren, Ohio.
- REISSUES.**
- 4,604.—TUBE WELL.—S. L. Bignall, Chicago, Ill.—Patent No. 92,569, dated July 13, 1869.
 - 4,605.—HOSE COUPLING.—J. C. Cooke, Bridgeport, Conn.—Patent No. 22,166, dated November 30, 1858; reissue No. 4,344, dated April 18, 1871.
 - 4,606.—ALCOHOL.—J. H. Deacon, Lumberton, N. J.—Patent No. 86,284, dated January 26, 1869; reissue No. 3,837, dated February 15, 1870.
 - 4,607.—VENTILATING, ETC.—T. Krausch, New York city.—Patent No. 108,707, dated October 25, 1870.
 - 4,608.—CRUCIBLE.—A. Pickering, Boston, C. R. Vickery, C. R. Atwood, and the Phoenix Manufacturing Company, Taunton, Mass.—Patent No. 49,141, dated August 1, 1865.
 - 4,609.—FURNACE.—H. Ross, J. H. Clemens, Pittsburgh, Pa.—Patent No. 118,279, dated August 22, 1871.
 - 4,610.—CULTIVATOR.—W. S. Weir, Jr., Monmouth, Ill.—Patent No. 37,251, dated December 23, 1862.
 - 4,611.—CASE, ETC.—S. Whitaker, Macon.—Patent No. 113,827, dated April 18, 1871.
- DESIGNS.**
- 5,320.—LAMP SHADE.—C. Binzer, New York city.
 - 5,321.—FENDER.—G. Buchanan, Washington, Pa.
 - 5,322.—BILLIARD TABLE.—W. H. Griffith, New York city.
 - 5,323.—SHA WL FABRIC.—J. Hodgson, Philadelphia, Pa.
 - 5,324.—STEAM ENGINE CYLINDER AND FRAME.—J. R. Maxwell, Cincinnati, Ohio, E. Cope, Covington, Ky.
 - 5,325.—CHAIR.—J. G. Strain, Delaware, Ohio.
- TRADE MARKS.**
- 495.—MINERAL WATER.—G. R. Bishop, New York city.
 - 496.—LOOM TEMPLE.—Dutcher Temple Company, Hopedale, Ms.
 - 497.—KNIT GOODS, ETC.—P. M. Hardee, Philmont, N. Y.
 - 498.—SHIRTING.—W. E. Joslin, Nashua, N. H.
 - 499.—COMPOUND.—D. P. Mathews, Winthrop, Mass.
 - 500.—ADVERTISING MEDIUM.—K. Palmer, Richmond, Va.
 - 501.—HEATER.—Richardson, Boynton & Co., New York city.
 - 502.—GIN.—F. Schuchardt, New York city.
 - 503.—GIN.—F. Schuchardt, New York city.
 - 504.—CHAIR.—J. G. Strain, Delaware, Ohio.
 - 505.—SHEET IRON.—A. Wood & Co., Philadelphia, Pa.
- EXTENSIONS.**
- PUMP.—J. D. West, of East Orange, N. J.—Letters Patent No. 18,309, dated September 29, 1857.
 - METALLIC SQUARE.—S. Darling, of Providence, R. I.—Letters Patent No. 18,327, dated October 6, 1857; reissue No. 2,869, dated February 19, 1868.
 - ROCK CHANNELING MACHINE.—W. Plumer, of Boston, Mass.—Letters Patent No. 18,352, dated October 6, 1857; reissue No. 3,395, dated April 13, 1869.—Division A.
 - ROCK CHANNELING MACHINE.—W. Plumer, of Boston, Mass.—Letters Patent No. 18,352, dated October 6, 1857; reissue No. 3,399, dated April 13, 1869.—Division B.
 - LOOM FOR WIRE CLOTH.—E. B. Bigelow, of Boston, Mass.—Letters Patent No. 18,320, dated October 6, 1857.
- APPLICATIONS FOR EXTENSION OF PATENTS.**
- HARVESTER.—Ezra Emmert, Franklin Grove, Ill., has petitioned for an extension of the above patent. Day of hearing, January 3, 1872.
 - METALLIC TIE FOR COTTON BALES.—Frederic Cook, Washington, La., has petitioned for an extension of the above patent. Day of hearing, February 14, 1872.
- Value of Extended Patents.**
- Did patentees realize the fact that their inventions are likely to be more productive of profit during the seven years of extension than the first full term for which their patents were granted, we think more would avail themselves of the extension privilege. Patents granted prior to 1861 may be extended for seven years, for the benefit of the inventor, or of his heirs in case of the decease of the former, by due application to the Patent Office, ninety days before the termination of the patent. The extended time inures to the benefit of the inventor, the assignees under the first term having no rights under the extension, except by special agreement. The Government fee for an extension is \$100, and it is necessary that good professional service be obtained to conduct the business before the Patent Office. Full information as to extensions may be had by addressing

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By the closing inquiry in nearly every letter, describing some invention which comes to this office. A positive answer can only be had by presenting a complete application for a patent to the Commissioner of Patents. An application consists of a Model, Drawings, Petition, Oath, and full Specification. Various official rules and formalities must also be observed. The effort of the inventor to do all this business himself are generally without success. After great perplexity and delay, he is usually glad to seek the aid of persons experienced in patent business, and have all the work done over again. The best plan is to solicit proper advice at the beginning. If the parties consulted are honorable men, the inventor may safely confide his ideas to them: they will advise whether the improvement is probably patentable, and will give him all the directions needful to protect his rights.

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