

Official List of Patents.

Issued by the United States Patent Office.

FOR THE WEEK ENDING MARCH 9, 1869.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT OFFICE FEES:

Table with 2 columns: Fee description and Amount. Includes items like 'On each caveat', 'On filing each application for a Patent', 'On issuing each original Patent', etc.

In addition to which there are some small revenue-stamp taxes. Residents of Canada and Nova Scotia pay \$500 on application.

Patents and Patent Claims.—The number of patents issued weekly having become so great, with a probability of a continual increase, has decided us to publish, in future, other and more interesting matter in place of the Claims.

For a 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... \$1.

The full Specification of any patent issued since Nov. 20, 1866, at which time the Patent Office commenced printing them... \$1.25.

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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.

- 87,532.—RAILROAD CAR HEATER.—William H. Beal, Philadelphia, Pa. Antedated Nov. 16, 1868.
87,533.—PLOW.—James F. Benton, Penn Yan, N. Y.
87,534.—FEATHER RENOVATOR.—Lafayette Blair, Painesville, Ohio.
87,535.—COTTON GIN.—John B. Brackett and Wyman Dearborn, Boston, Mass. Antedated March 2, 1869.
87,536.—POTATO DIGGER.—John I. Brinkerhoff, Auburn, N. Y.
87,537.—APPARATUS FOR CONTINUOUS DISTILLATION.—Chas. H. Budd, Philadelphia, assignor to himself, and G. D. Wolf, Norristown, Pa. Antedated Feb. 26, 1869.
87,538.—STEAM-ENGINE ROTARY VALVE.—A. R. Buffington, United States Army.
87,539.—MOWING MACHINE.—George E. Burt, Harvard, Mass.
87,540.—THRESHER AND SEPARATOR.—John W. Cardwell, Richmond, Va., assignor to himself and Samuel Freedley.
87,541.—COTTON BALE TIE.—John S. Carson, Brookhaven, Miss.
87,542.—GRAVEL SPREADER.—John S. Casement, Cleveland, Ohio, and John Elliott, Erie, Pa.
87,543.—PORTABLE HEAD REST.—H. E. Churchill, Portland, Me.
87,544.—FIRE EXTINGUISHER.—George Clark, Jr., Boston, Mass.
87,545.—APPARATUS FOR PASTING AND HANGING WALL PAPER.—A. H. Clay, Pottsgrove township, Pa.
87,546.—MACHINE FOR THREADING SCREWS.—J. A. Cleaveley, Loganport, Ind.
87,547.—WRENCH.—Loring Coes, Worcester, Mass.
87,548.—ANIMAL TRAP.—Henry H. Cottrill, Vinton Station, Ohio.
87,549.—CATCH FOR CARPET-BAGS.—George Crouch, New York city.
87,550.—DIRECT ACTING STEAM-ENGINE.—G. H. Deane, C. P. Deane, and J. B. Gardner, Springfield, Mass. Antedated Dec. 21, 1868.
87,551.—REVOLVING FRAME FOR SHOWING GOODS.—Thomas Dickinson, Jr. (assignor to himself and Thomas Dickinson), Buffalo, N. Y.
87,552.—MACHINE FOR MARKING CORN GROUND, WITH RAKE ATTACHMENT.—Morris Dickie, and E. P. Cowan, Ottumwa, Iowa.
87,553.—FINGERED SCOOP.—Harrison Doolittle, East Cleveland, Ohio.
87,554.—HOSE COUPLING.—Jacob Edson (assignor to John Clark), Boston, Mass.
87,555.—ROTARY WIRE FEED.—Wm. A. Foskett, Meriden, Conn.
87,556.—GAS APPARATUS.—Wm. Foster, Jr., and G. P. Ganster, New York city.
87,557.—MACHINE FOR MANUFACTURE OF WIRE STRIPS.—T. Fowler, Seymour, Conn.
87,558.—FENCE.—Melvin J. Gaskill, Pleasant Plain, Ohio.
87,559.—SEWING MACHINE FOR MAKING SHIRT BOSOMS.—E. D. Gird, Cedar Lake, N. Y.
87,560.—REGISTER FRAME.—Bartholomew Gommenginger, and Chas. W. Trotter, Rochester, N. Y.
87,561.—HARVESTER.—A. B. Graham, Waukegan, Ill.
87,562.—MODE OF PRESERVING EGGS.—J. H. Hall, New York city. Antedated March 3, 1869.
87,563.—BUCKLE.—Martin Haneline, Huntington, Ind. Antedated Feb. 27, 1869.
87,564.—GRATE BAR.—Michael Helbling (assignor to himself and John F. McKinney), Allegheny City, Pa.
87,565.—HORSESHOE.—John A. Heyl (assignor to himself and J. H. Wiggins), Boston, Mass.
87,566.—BRIDGE FOR PLAYING POOL.—O. A. Hill, Westbrook, Me.
87,567.—APP. READY FOR HEATING WATER BY STEAM.—H. S. Huldekoper, Watville, Pa.
87,568.—FIREPROOF GRAIN BIN.—George H. Johnson, Buffalo, N. Y.
87,569.—BRACING FOR CYLINDRICAL STRUCTURES.—Geo. H. Johnson, Buffalo, N. Y.
87,570.—COFFIN BIER.—Patrick Joyce, Rochester, N. Y.
87,571.—AXLE SET.—H. R. Ladd, Orwell, Ohio.
87,572.—SUBSTITUTE FOR TOBACCO.—J. C. Lange, Pittsburgh, Pa.
87,573.—MACHINE FOR GRATING FODDER.—Jason Lusk, Fredonia, Mich.
87,574.—DINNER PAIL.—Alfred McQueen, Philadelphia, Pa.
87,575.—REGULATOR FOR GAS, STEAM, AND OTHER FLUIDS.—E. C. Maldant, Paris, France, assignor to Marius Caune, Crawford, N. J.
87,576.—SEED SOWER.—F. H. Manny, Rockford, Ill.
87,577.—HARROW.—N. B. Marsh (assignor to himself and I. R. Miller), Marengo, Ill.
87,578.—PUDDLING AND OTHER FURNACES.—Hugh McDonald (assignor to himself, and Wm. Stuart), Pittsburgh, Pa.
87,579.—VELOCIPEDE.—Wm. McKeahan, Pittsburgh, Pa.
87,580.—WAGON AXLE.—F. McManus, Ellenburg Center, N. Y. Antedated Feb. 27, 1869.
87,581.—MACHINE FOR FIGURING CARPENTERS' SQUARES, ETC.—Norman Millington (assignor to Eagle Square Company), South Shaftsbury, Vt.
87,582.—CAR COUPLING.—Henry T. Moody, Newburyport, Mass.
87,583.—COMBINED PEN AND PENCIL HOLDER AND KNIFE.—Wm. A. Morse, Philadelphia, Pa.
87,584.—WORK BENCH.—H. W. Neary (assignor to himself and Nathaniel Schenck), Princeton, N. J.
87,585.—TURBINE WATER WHEEL.—Jesse Newlin, Philadelphia, Pa.
87,586.—DOVETAILING MACHINE.—Charles Ohlemacher and Otto Kromer, Sandusky, Ohio.
87,587.—REGISTER POINT FOR PRINTING PRESSES.—Andrew Overend, Philadelphia, Pa., assignor to Richard M. Hoe, New York city.
87,588.—BRANDING IRON.—Frank L. Penney, Boston, Mass.
87,589.—CANOPY, OR MOSQUITO BAR.—Jacob B. Platt, Augusta, Ga.

- 87,590.—LAST.—Micah H. Pool, East Abington, Mass.
87,591.—PORTABLE MAP HOLDER.—George Rice, Framingham, Mass.
87,592.—TUBE WELL.—Reuben Rich, Dorchester, Mass.
87,593.—CARTRIDGE-MAKING MACHINE.—Benjamin S. Roberts, United States Army.
87,594.—PLOW AND SUBSOILER.—Gain Robinson, Plymouth, Ohio.
87,595.—SEWING MACHINE.—Daniel H. Rogan (assignor to himself and Cyrus L. Hall), Hudson, Wis.
86,596.—VELOCIPEDE.—M. B. Stafford, New York city.
87,597.—FARM FENCE.—John K. Staman, Mansfield, Ohio.
87,598.—PAPER FILE.—Anson P. Stephens (assignor to himself and Benjamin F. Stephens), Brooklyn N. Y.
87,599.—MANUFACTURE OF SPIRITS.—George B. Stone, Chicago, Ill.
87,600.—FARM GATE.—John G. Talbot, Sloansville, N. Y.
87,601.—LAMP BURNER.—Alexis Thirault, Brooklyn, N. Y., assignor to Holmes, Booth, and Havdons, Waterbury, Conn.
87,602.—STRAW CUTTER.—Edward R. Thompson, Lansing, Mich.
87,603.—INHALER AND REMEDY FOR THROAT DISEASE.—Geo. Humphrey Tichenor, Canton, Miss.
87,604.—SOLDERING IRON.—William H. Trissler, Cleveland, Ohio.
87,605.—MEDICAL COMPOUND.—Philip W. Vaughan, Columbia, Ky.
87,606.—HARNESS SADDLE.—John Waité, Palmer, Mass.
87,607.—STARCH OR GLOSS FOR USE IN LAUNDRIES.—Peter W. Welda, Philadelphia, Pa.
87,608.—PAPER-BAG MACHINERY.—Joseph Wells (assignor to Orlando A. Wilcox), Brooklyn, N. Y.
87,609.—CARRIAGE AXLE.—John T. Wilson (assignor to himself and Coleman, Rahm & Co.), Pittsburgh, Pa.
87,610.—HOT-AIR FURNACE.—Isaac T. Winchester, Boston, Mass.
87,611.—MEAT CUTTER.—O. B. Woodruff, Southington, Conn.
87,612.—EQUALIZER.—G. W. N. Yost, Corry, Pa.
87,613.—GRAIN DRYER.—Edson A. Abbott, Baltimore, Md.
87,614.—BLACKING BRUSH.—Robert Adams, Cincinnati, Ohio. Antedated February 26, 1869.
87,615.—FEEDING SHOE FOR GRINDING MILLS.—John C. Andrew, Seventy-six, Ky.
87,616.—LOOM FOR OPERATING SHUTTLE BOXES.—John Ashworth (assignor to George L. Davis, John A. Wiley, and Joseph M. Stone), North Andover, Mass.
87,617.—WASHING MACHINE.—T. Bailey and Virgil W. Blanchard, Bridport, Vt.
87,618.—COMPOUND FOR RENEWING HAIR.—A. L. Baker, Newark, N. J.
87,619.—PAD AND LINING FOR HORSE COLLARS.—Seth W. Baker, Providence, R. I. Antedated March 4, 1869.
87,620.—MACHINE FOR TWISTING BULLION FRINGE.—Edwin Barton, Paterson, N. J.
87,621.—TOY.—E. S. Belton, New Orleans, La.
87,622.—CAR COUPLING.—Benjamin Bevelander, Boston, Mass.
87,623.—PINION.—V. W. Blanchard, Bridport, Vt.
87,624.—ARTIFICIAL LEG.—Douglas Bly, Macon, Ga.
87,625.—EXTERIOR CASING FOR TURBINE WATER WHEELS.—John W. Bookwater, Springfield, Ohio.
87,626.—GLASS BOARD AND APPARATUS FOR CUTTING GLASS.—Franklin Bowly, Winchester, Va.
87,627.—HOISING MACHING.—Horace C. Briggs, West Auburn, Me.
87,628.—WIND WHEEL.—A. P. Brown, Syracuse, N. Y.
87,629.—GRATE FENDER.—George Buchanan, Washington, Pa.
87,630.—VELOCIPEDE.—Jabez Burns, New York city.
87,631.—FLY-NET FOR HORSES.—Joseph Cantner, Millheim, Pa. Antedated February 27, 1869.
87,632.—CUTTING THREADS ON PIPES, ETC.—J. M. Carpenter, Florence, Mass.
87,633.—EMBROIDERING ATTACHMENT FOR SEWING MACHINES.—William Carpenter, Fairbury, Ill.
87,634.—GRAIN STOREHOUSE.—George Clark, Buffalo, N. Y.
87,635.—COTTON GIN.—Robert J. Clay, Greenpoint, N. Y.
87,636.—CLOTHES-LINE FASTENER.—F. Clymer, Galion, Ohio. Antedated March 5, 1869.
87,637.—HARVESTER.—J. F. Coddington, Newark, N. J.
87,638.—CHURN DASHER.—C. L. Cole, Bushnell, Ill.
87,639.—CHURN.—E. Coleman, Woburn, Mass.
87,640.—MASH TUB AND VAPOR COOLER.—A. W. Cram, St. Louis, Mo.
87,641.—PLOW.—Hiram Culver, Dansville, N. Y.
87,642.—COMBINED HARROW AND CULTIVATOR.—H. Culver, Dansville, N. Y.
87,643.—HORSE HAY FORK.—J. Cummins, Perry, Mich.
87,644.—ELASTIC SEAT AND BACK FOR CHAIRS AND BOTTOM FOR BEDS.—Leo Datt (assignor to himself and John Wood), New York city. Antedated Nov. 20, 1868.
87,645.—PORTABLE KEY-HOLE GUARD.—W. E. Dante, Washington, D. C.
87,646.—WIND-WHEEL WATER ELEVATOR.—G. W. Darby, New Vienna, Ohio.
87,647.—BLIND AND SHUTTER FASTENING.—Wm. J. Decker, Nyack, N. Y.
87,648.—BRACE AND SUSPENDER COMBINED.—E. L. Demorest and W. G. Cook, New York city. Antedated March 5, 1869.
87,649.—RAILWAY CAR COUPLING.—L. M. Doddridge (assignor to himself and J. N. Templar), Portland, Ind.
87,650.—MANUFACTURE OF ARTIFICIAL FUEL.—Chas. du Lin, Mans, France.
87,651.—CORN PLANTER.—J. W. Eardly, Cascade, Mich.
87,652.—THIMBLE SKEIN FOR AXLES.—M. Ehr Gott (assignor to himself and James Parker), Pittsburgh, Pa.
87,653.—ARTIFICIAL BONE BLACK.—H. Endemann, New York city.
87,654.—FIRE KINDLER.—M. E. Ezell, Hatchchubbee, assignor to W. S. Gordon, Russell county, Ala.
87,655.—BOOT AND SHOE LACING.—P. S. Foster, Richmond, Me.
87,656.—MILLSTONE BALANCE.—A. Frederick, Toledo, Ohio.
86,657.—CHURN.—A. S. Galliher, Bristol, Tenn.
87,658.—PROCESS OF PREPARING ETROLEUM TO BE USED IN LUBRICATING WOOL.—S. Gibbons, Freedom, Pa., assignor to Excelsior Oil Manufacturing Company of Pennsylvania.
87,659.—CHURN.—John Glatner, Suspension Bridge, N. Y.
87,660.—CHURN.—J. L. Good, Elizabethtown, Pa.
87,661.—PEN.—H. S. Goodspeed, New York city.
87,662.—STAIR ROD.—W. B. Gould, New York city.
87,663.—METHOD OF CONSTRUCTING MOLDS FOR METALLIC CASTINGS.—Wm. Hainsworth, Sharpsville, Pa.
87,664.—WATER METER.—A. W. Hall, New York city.
87,665.—ROTARY MOTOR AND METER.—Wm. Hamilton and Wm. Hamilton, Jr., Toronto, Canada.
87,666.—STEP AND EXTENSION LADDER.—H. J. Hancock, New York city.
87,667.—PORTABLE MILL.—B. Harnish and R. J. King, Lancaster, Pa.
87,668.—SKYLIGHT AND VENTILATOR.—G. Hayes, New York city.
87,669.—BLACKING STAFF FOR FACING MILLSTONES.—Abram Heartill, Louisville, Tenn.
87,670.—PACKING FOR ARTESIAN WELLS.—Peter C. Heinz, Pioneer, Pa.
87,671.—REFLECTOR FOR HEAD LIGHTS.—H. L. Hervey, Philadelphia, Pa.
87,672.—MATERIAL FOR THE MANUFACTURE OF CABINET AND OTHER WORK IN WOOD.—August Herzog and John G. Roth, (assignors to American Ornamental Wood Manufacturing Company), New York city.
87,673.—WATER WHEEL.—D. Holdiman and S. Goodwin, Waterloo, Iowa.
87,674.—BILLIARD GAME REGISTER.—E. Holmes and H. C. Roope, New York city.
87,675.—SPRING SEAT.—C. H. Hudson, New York city.
87,676.—CORN-STALK CUTTER.—H. Jackson, Elmira, Ill.
87,677.—SULKY PLOW.—John R. Jackson, Pelahatchee Depot, Miss.

- 87,678.—BAND TIGHTENER FOR SHOCKS OF CORN.—James C. Jay, Bear Creek township, Ind.
87,679.—FIREPROOF GRANARY.—G. H. Johnson (assignor to himself and G. Milsom), Buffalo, N. Y.
87,680.—VAPOR BURNER.—Joshua Kidd, New York city.
87,681.—CARBURETING GAS, AND OIL FOR THE SAME.—J. Kidd, New York city.
87,682.—APPARATUS FOR CARBURETING GAS.—J. Kidd, New York city.
87,683.—SASH HOLDER.—D. P. Lacey, Orfordville, Wis., assignor to R. R. Ball, West Meriden, Conn.
87,684.—BRUSH HANDLE.—C. L. Larder, Brooklyn, N. Y.
87,685.—RAILWAY CAR DOOR.—T. R. Leighton, Cameron, Mo.
87,686.—HAMES RING.—J. Letchworth (assignor to Pratt and Letchworth), Buffalo, N. Y.
87,687.—RAILWAY CAR AXLE.—E. T. Ligon, Demopolis, Ala.
87,688.—COOKING STOVE.—E. C. Little, L. E. Clow, and D. H. Nation, St. Louis, Mo.
87,689.—PAPER BAG MACHINE.—H. C. Lockwood, Baltimore, Md.
87,690.—CULTIVATOR PLOW.—Wm. Looker, Graham, Mo.
87,691.—CHURN.—J. L. Marsh, Centerville, Ind.
87,692.—SHEET-METAL SEAMING MACHINE.—John Mays and E. W. Bliss, Brooklyn, N. Y., assignors to Devoc and Pratt Manufacturing Company, New York city.
87,693.—MACHINE FOR PAGING BOOKS.—John McAdams, Brooklyn, N. Y.
87,694.—COVERING FOR BLIND DITCHES.—T. M. C. Lutes, New Mount Pleasant, Ind.
87,695.—PRINTING-PRESS FLY FRAME.—T. H. Mead, Boston, Mass., assignor to R. Hoe and Company, New York city.
87,696.—HORSE HAY FORK.—J. A. Miller, Shippensburg, Pa. Antedated Feb. 27, 1869.
87,697.—TRUCK FOR MOVING BUILDINGS.—John S. Millikan, Thornton, Ind.
87,698.—REGISTERING APPARATUS FOR STILLS.—John Minor, Peoria, and M. W. Nesmith and G. W. Nesmith, Metamora, Ill.
87,699.—HARVESTER RAKE.—John B. Morse and Loren L. Carter, Lafayette, Ind.
87,700.—SAWING MACHINE GUARD.—A. W. Pagett, Springfield, Ohio.
87,701.—MARBLE-SAWING MACHINE.—C. H. G. Pease, Danbury, Conn.
87,702.—TWEER.—J. J. Pierce, Emmett, Mich.
87,703.—MITER BOX.—John Pons (assignor to himself, J. S. Russell, and Henry Vogler), Baltimore, Md.
87,704.—SOLDERING MACHINE.—Charles Pratt, New York, and Conrad Seimel, Greenpoint, N. Y., assignors to Charles Pratt.
87,705.—PEA PICKER.—Abner Quinn, Wilmington, N. C., assignor to himself and A. E. Wright.
87,706.—FANNING MILL.—B. F. Randell, Des Moines, Iowa.
87,707.—CHRONOMETER ESCAPEMENT.—George P. Reed, Boston, Mass.
87,708.—SASH HOLDER.—A. C. Rodgers (assignor to himself and J. and G. H. Gibson), Philadelphia, Pa.
87,709.—SHINGLING BRACKET.—Abner Rollo, Friendship, Wis.
87,710.—ICE-CREAM RECEPTACLE.—Edward A. G. Roulstone, Boston, Mass.
87,711.—ROAD SCRAPER.—W. W. Rumrill, Roanoke, Ind.
87,712.—GRAIN DRILL AND CORN DROPPER.—J. D. Sater and Turner Barns, Greensburg, Ind.
87,713.—VELOCIPEDE.—L. W. Serrell, Brooklyn, N. Y., assignor to Robert Foulds, Passaic, N. J.
87,714.—KEYHOLE GUARD.—Edmund E. Shepardson, Providence, R. I.
87,715.—BITSTOCK.—W. H. Sible, Harrisburg, Pa.
87,716.—CLAY PULVERIZER AND STONE SEPARATOR.—F. H. Smith, Baltimore, Md.
87,717.—SCREW BOLT AND LOCK NUT.—J. B. Smith, Milwaukee, Wis., assignor to himself and G. R. Chittenden, Chicago, Ill.
87,718.—PEA RAKE.—Silvester Skinner, Clayton, N. Y.
87,719.—EXTENSION PRUNING HOOK.—John Stark, Thomasville, Ga. Antedated Feb. 27, 1869.
87,720.—BRANDING IRON.—Lewis Stark, Chelsea, assignor to himself and F. L. Penney, Boston, Mass.
87,721.—REVOLVING CULTIVATOR.—Abraham J. Stevens, El Dorado, Wis.
87,722.—SHANK.—H. P. Stewart, Bath, Mich.
87,723.—TYMPAN FRAME FOR PRINTING PRESSES.—David U. Stoner, Mount Joy, Pa.
87,724.—CULTIVATOR.—D. C. Stover, Lanark, Ill.
87,725.—FURNACE FOR SMELTING ORES.—C. H. Swain, Brooklyn, N. Y.
87,726.—SEED SOWER.—H. R. Swank, West Jersey, Ill.
87,727.—STENCIL PLATE.—J. L. Tarbox and H. L. Tarbox, New York city.
87,728.—VALVE FOR BLOWING ENGINES.—Lewis Taws, Philadelphia, Pa.
87,729.—FENCE.—J. B. Tedrow, Chillicothe, Ohio.
87,730.—PRESERVE JAR.—Nathan Thompson, Brooklyn, E. D., N. Y.
87,731.—WASHING MACHINE.—H. B. Tibbits, Vineland, N. J.
87,732.—BOTTLE CORKING APPARATUS.—Hiram Unger, Loganport, Ind.
87,733.—COMPOSITION FOR RECUTTING FILES AND RASPS.—A. Van Camp, Washington, D. C.
87,734.—COMPOSITION FOR FIRE-KINDLING.—A. Van Camp, Washington, D. C.
87,735.—CARTRIDGE.—J. R. Van Vechten, New York city.
87,736.—MACHINE FOR SCRAPING AND LOADING EARTH.—Albert Ward, New Michigan, Ill.
87,737.—BACKBAND HOOK.—Seth Ward, Princeton, Ind. Antedated March 4, 1869.
87,738.—WHEEL.—J. C. Welch and M. A. Ammeden, Edger-ton, Ohio. Antedated March 5, 1869.
87,739.—HINGE PINTLE.—William Wells, Ashtabula, Ohio.
87,740.—FISHING NET.—F. A. Wermuller, New York city.
87,741.—IRON BRIDGE.—T. B. White, New Brighton, Pa. Antedated Feb. 27, 1869.
87,742.—BEDSTEAD.—H. K. Whitner, Philadelphia, Pa.
87,743.—CHURN.—Manuel Witmer, Cedar Rapids, Iowa.
87,744.—MACHINE FOR PRESSING HATS.—F. Wolfram, New York city.
87,745.—MEASURING FUNNEL.—H. J. Wolters, Salem, Mass.
87,746.—CAR WHEEL AND AXLE.—J. A. Woodbury, Boston, Mass.
87,747.—DEVICE FOR HEADING BOLTS.—J. M. Woods, Washington, Mo.
87,748.—TRITURATING AND AMALGAMATING APPARATUS FOR TREATING ORES OF GOLD OR SILVER.—Leonard Wray, Ramsgate, England.
87,749.—STIRRUP-STRAP LOOP.—A. B. Zellner, Monticello, Ark.

REISSUES.
9,781.—MOP HEAD.—Dated June 14, 1853; extended seven years; reissue 2,957, dated June 2, 1868; reissue 8,188, dated Nov. 10, 1868; reissue 3,322.—Colby Brothers & Co., Waterbury, Vt., assignees, by mesne assignments, of Harvey Murch.
60,657.—CUSHION FOR BILLIARD TABLES.—Dated Dec. 18, 1866; reissue 3,323.—Levi Decker, New York city.
70,668.—EXTENSION TABLE.—Dated Nov. 5, 1867; reissue 3,324.—F. R. Wolfinger, Chicago, Ill.

EXTENSIONS.
METHOD OF WORKING FRANKLINITE ORE.—Thaddeus Sel- leck, Greenwich, Conn.—Letters Patent No. 12,329, dated Jan. 30, 1855.
HARVESTER.—Cyrenus Wheeler, Jr., Auburn, N. Y.—Letters Patent No. 12,367, dated Feb. 6, 1855; reissue No. 971, dated June 5, 1860; reissue No. 2,632, dated May 28, 1867.
ELLIPTICAL ROTARY PUMP.—Birdsill Holly, Lockport, N. Y.—Letters Patent No. 12,350, dated Feb. 6, 1855.
BASE-BURNING STOVES.—James Easterly, Albany, N. Y.—Letters Patent No. 12,382, dated February 13, 1855; reissue No. 3,009, dated June 30, 1868.
BASE-BURNING STOVES.—James Easterly, Albany, N. Y.—Letters Patent No. 12,382, dated Feb. 13, 1855; reissue No. 8,010, dated June 30, 1868.
AUGERS.—Russell Jennings, Deep River, Conn.—Letters Patent No. 12,318, dated Jan. 30, 1855; reissue No. 2,061, dated October 3, 1865; reissue No. 2,146, dated Jan. 18, 1866.
SCREW JACK.—Thomas C. Ball, Bellows Falls, Vt.—Letters Patent No. 12,464, dated Feb. 27, 1855.
METHOD OF OPERATING STEAM VALVES.—Norman W. Wheeler, Brooklyn, N. Y.—Letters Patent No. 13,869, dated July 853. Antedated March 1, 1855.