

- 110,132.—TREADLE FOR SEWING MACHINES.—James W. W. Gordon, Newport, Ky.  
 110,133.—HARROW.—James M. Harper, El Paso, Ill.  
 110,134.—COTTON SEED HULLER.—Jackson Harrington (assignor to himself, Ralph Wheeler, and Jonathan Dart), New London, Conn.  
 110,135.—HAY ELEVATOR AND CONVEYER.—T. E. Haymond, Morris, Ill.  
 110,136.—WELL TUBING.—George W. Hemenway, Elmira, N. Y.  
 110,137.—CLOTHES DRYER.—Israel Hogeland, Indianapolis, Ind.  
 110,138.—GRAIN BINDER.—A. S. Hoyt, Winona, Minn. Antedated Dec. 3, 1870.  
 110,139.—FARMER'S BOILER.—Joseph H. Hunter, Pennington Point, Ill.  
 110,140.—BRAKE FOR SEWING MACHINES.—Jas. V. Jacob (assignor to himself and John J. O'Donnell), Jeffersonville, Ind.  
 110,141.—VEHICLE.—John Jack, Tiskilwa, Ill.  
 110,142.—HARROW.—D. L. Jaques, Hudson, Mich.  
 110,143.—PILE FOR ARMOR PLATES.—Joshua Jeavons, Sheffield, England.  
 110,144.—NEEDLE SETTER FOR SEWING MACHINES.—Jacob Karp, Washington, D. C.  
 110,145.—CLOTHES DRYER.—James W. Kenning, Quincy, Mich.  
 110,146.—MECHANISM FOR OPERATING SHUTTLE BOXES IN LOOMS.—L. J. Knowles, Warren, Mass.  
 110,147.—SIDE-SADDLE TREE.—Andrew Lawrence, Louisville, Ky.  
 110,148.—COVER FOR TEA AND COFFEE CUPS.—Joseph Leach, New Harmony, Ind. Antedated Dec. 6, 1870.  
 110,149.—COTTON-RENOVATING MACHINE.—J. B. Lyons, Milton, Conn.  
 110,150.—SPRING SEAT FOR VEHICLES.—Wait Mead, Francis D. May, and R. L. Hoyt, Chestertown, N. Y.  
 110,151.—GEARING FOR MACHINERY.—Thos. T. Millett, Sr., Savannah, Ga.  
 110,152.—MILK CARRIER.—Lewis Morris, Havre de Grace, assignor to himself and G. W. Baker, Aberdeen, Md.  
 110,153.—WOOD PAVEMENT.—William S. Morse, Washington, D. C.  
 110,154.—WROUGHT-IRON COLUMN.—John W. Murphy, Philadelphia, Pa.  
 110,155.—FLOUR PACKER.—Addison H. Nurdyke, Richmond, Ind.  
 110,156.—LUBRICATOR.—Thomas J. Nottingham, Cincinnati, Ohio.  
 110,157.—COAL GRATE.—Ira Packard (assignor to himself and J. W. Slaght), Lena, Ill.  
 110,158.—STEAM BOILER.—Patrick Quinn, South Newmarket, N. H.  
 110,159.—SASH BALANCE.—Charles R. Rand, Dubuque, Iowa.  
 110,160.—ANTI-FRICTION BOXES FOR AXLES.—Wm. O. Reid, Vienna, N. C.  
 110,161.—COMPOUND FOR BATING HIDES AND SKINS.—L. F. Robertson, New York city.  
 110,162.—IMPLEMENT FOR REMOVING CORNS, BUNIONS, ETC.—C. L. Roorbach, St. Clair, Pa.  
 110,163.—MATERIAL FOR BEARING SURFACES IN MACHINERY.—John Schleder, New York city.  
 110,164.—STRAW CUTTER.—V. J. Shryrock, Folsomville, Ind.  
 110,165.—SAND-PAPERING MACHINE.—S. F. Smith (assignor to Osgood, Smith & Co.), Indianapolis, Ind.  
 110,166.—SELF-ACTING VALVE OR CUT-OFF FOR LIQUID CANS.—H. S. Snow, West Meriden, Conn.  
 110,167.—FRUIT AND VEGETABLE PARER.—Henry Soggs, Columbus, Pa.  
 110,168.—SPOKE SHAVE.—G. N. Stearns, Syracuse, N. Y.  
 110,169.—WATER WHEEL.—Ralph Stinson, Whitesville, Mo.  
 110,170.—FENCE.—W. W. Sullivan, Liberty, Ind.  
 110,171.—SHUTTLE-OPERATING MECHANISM FOR LOOMS.—E. P. Terrel, West Liberty, Ind.  
 110,172.—INDIA-RUBBER AND COMBINATION HOSE.—Wm. A. Torrey, Mont Clair, N. J.  
 110,173.—BRIDGE.—Marshall Turly, Council Bluffs, Iowa. Antedated Dec. 8, 1870.  
 110,174.—UPHOLSTERING SPRING.—H. C. Velie, Poughkeepsie, N. Y.

- 110,175.—MECHANICAL MOVEMENT.—William Walker, Odessa, Ill.  
 110,176.—NAIL EXTRACTOR.—Wesley G. Ward, Fayette, N. Y.  
 110,177.—PUMP.—Wesley G. Ward (assignor to himself and A. M. Flickinger), Fayette, N. Y.  
 110,178.—NECK-TIE SUPPORTER.—Wm. A. Wicks, Baltimore, Md.  
 110,179.—MACHINE FOR MAKING COUPLING PINS.—Charles H. Williams, Cleveland, Ohio.  
 110,180.—MOP HEAD.—Lewis Williams, Arlington, Vt.  
 110,181.—WASHING MACHINE.—G. L. Witsil, Philadelphia, Pa.  
 110,182.—PUMP.—H. E. Wolcott, Elbridge, N. Y., assignor of two thirds of his right to R. B. Wheeler and E. B. Hoyt.  
 110,183.—WAGON BRAKE.—Jacob Wolf (assignor to the Union Omnibus and Wagon Manufacturing Company), Cincinnati, Ohio.  
 110,184.—MACHINE FOR BENDING PLOW HANDLES.—Jacob Woodburn, St. Louis, Mo., and S. F. Smith (assignors to Osgood, Smith & Co.), Indianapolis, Ind.  
 110,185.—MECHANICAL MOVEMENT.—Jacob Wolf, Burr Oak, Mich.  
 110,186.—PEN.—G. W. Wooley, Washington, D. C.

## REISSUES.

- 4,196.—TUCK-CREASING DEVICE FOR SEWING MACHINES.—James Bolton, Chicago, Ill., assignor to the Singer Manufacturing Company.—Patent No. 46,871, dated March 21, 1865.  
 4,197.—INSECT-TRAP.—Samuel Darling, Providence, R. I.—Patent No. 51,931, dated January 9, 1866.  
 4,198.—METALLIC ROOFING.—Seymour Hughes, Hudson City, N. J.—Patent No. 103,837, dated June 7, 1870.  
 4,199.—BIT STOCK.—L. J. Gunn and C. H. Amidon, Greenfield, Mass., assignors of A. C. Moore.—Patent No. 16,931, dated March 31, 1857.  
 4,200.—GEARING FOR MOWING MACHINES.—J. V. Strait, Litchfield, Ohio.—Patent No. 95,950, dated October 19, 1869.  
 4,201.—FURNACE FOR BURNING BONE-BLACK AND OTHER SUBSTANCES.—Adam Weber, New York city.—Patent No. 65,457, dated June 4, 1867.  
 4,202.—COMBINED INDIA-RUBBER AND STEEL SPRINGS.—The National Spring Company, New York city, assignors of E. T. Russell.—Patent No. 10,280, dated November 20, 1853; extended seven years.

## DESIGNS.

- 4,503.—FRAME FOR A PAPER-BAG MACHINE.—C. F. Annan, Boston, assignor to himself and H. S. Merrill, Cambridge, Mass.  
 4,504.—BASE OF A HOT-AIR FURNACE.—Robert Boyd and J. C. Hart, Rochester, N. Y.  
 4,505.—SCYTHE.—C. P. Crossman, West Warren, assignor to himself, D. F. Hale, and Sidney Sanders, Chicopee, Mass.  
 4,506.—BROOM.—R. W. English, Buffalo, N. Y.  
 4,507.—CARPET PATTERN.—H. S. Kerr (assignor to Israel Foster), Philadelphia, Pa.  
 4,508 and 4,509.—CARPET PATTERN.—William Mallinson, Halifax, England, assignor to W. & J. Sloane, New York city. Two patents.  
 4,510 and 4,511.—COAL BOX.—R. W. Newbery, New York city. Two patents.  
 4,512 and 4,513.—CENTER-PIECE FOR CEILINGS.—J. W. Reeves (assignor to W. H. French), Philadelphia, Pa. Two patents.  
 4,514.—SHOW CASE.—R. J. Roberts, New York city.  
 4,515.—COOKING STOVE.—J. R. Rose and E. L. Caley, Philadelphia, Pa., assignors to Armstrong Company, Port Deposit, Md.  
 4,516.—BRACELET.—T. I. Smith, Attleborough, Mass.  
 4,517.—HOE.—B. T. Stowell, Quincy, Ill.  
 4,518 to 4,520.—WOVEN FABRIC.—R. C. Taft, W. B. Weeden, and J. W. Taft, Providence, R. I. Three patents.  
 4,521.—PLOWSHARE.—R. H. Taylor, Lincoln, Va.

## TRADE-MARKS.

- 96.—RAZOR STRAP.—B. F. Badger, Everett, Mass.  
 97.—WAGON AXLE.—D. A. Brown & Co., Fisherville, N. H.  
 98.—ROOT AND HERB BITTERS.—Flint & Co., Providence, R. I.  
 99.—MEDICAL COMPOUND.—G. C. Furber, Yreka, Cal.  
 100.—BROOM AND BRUSH.—L. Y. Gardiner & Co., Amsterdam, N. Y.  
 101 to 104.—WHISKEY.—W. A. Gaines & Co., Frankfort, Ky. Four Patents.

- 105.—LEATHER.—G. F. Page and C. T. Page, Franklin N. H.  
 106.—CIGAR, SNUFF, AND TOBACCO.—Lorin Palmer, New York city.  
 107.—OIL.—Charles Pratt, New York city.  
 108.—CUTLERY.—R. J. Roberts, New York city.

## EXTENSIONS.

- HARVESTING MACHINE.—W. N. Whiteley, of Springfield Ohio.—Letters Patent No. 16,131, dated November 25, 1856; reissue No. 1,208, dated June 25, 1861; reissue No. 1,614, dated February 2, 1864.—Division A.  
 HARVESTING MACHINE.—W. N. Whiteley, of Springfield Ohio.—Letters Patent No. 16,131, dated November 25, 1856; reissue No. 1,208, dated June 25, 1861; reissue No. 1,615, dated February 2, 1864.—Division B.  
 WATER WHEEL.—John Tyler, of West Lebanon, N. H.—Extended by Act of Congress, Approved July 7, 1870.—Letters Patent No. 15,309, dated July 8, 1856; reissue No. 8,015, dated June 30, 1868.  
 RAILROAD CAR SEAT AND COUCH.—T. T. Woodruff, of Philadelphia, Pa.—Letters Patent No. 16,160, dated December 2, 1856.  
 RAILROAD CAR SEAT AND COUCH.—T. T. Woodruff, of Philadelphia.—Letters Patent No. 16,153, dated December 2, 1856; reissue No. 1,459, dated March 1, 1863.  
 MACHINERY FOR PREPARING FIBROUS SUBSTANCES FOR SPINNING.—James Appery and William Clissold, of Dudbridge, England.—Letters Patent No. 18,889, dated December 2, 1857; antedated December 4, 1856.

## APPLICATIONS FOR EXTENSION OF PATENTS.

- MACHINE FOR COMPOSING AND DISTRIBUTING TYPE.—William H. Houston has petitioned for an extension of the above patent. Day of hearing March 15, 1871.  
 BREACH-LOADING FIRE-ARMS.—William Cleveland Hicks, Summit, N. J.—has petitioned for an extension of the above patent. Day of hearing Feb. 22, 1871.  
 MACHINES FOR MAKING AXES.—G. F. Hutchins, East Douglas, Mass., has petitioned for an extension of the above patent. Day of hearing Feb. 15, 1871.  
 KEEPER FOR RIGHT AND LEFT HAND LOCKS.—Calvin Adams, Pittsburgh, Pa., has petitioned for an extension of the above patent. Day of hearing Feb. 8, 1871.  
 GIG MILLS FOR NAPPING CLOTH.—Ernest Gessner, Aue, Saxony, has petitioned for an extension of the above patent. Day of hearing Feb. 8, 1871.

## Answers to Correspondents.

CORRESPONDENTS who expect to receive answers to their letters must, in all cases, sign their names. We have a right to know those who seek information from us; besides, as sometimes happens, we may prefer to address correspondents by mail.

SPECIAL NOTE.—This column is designed for the general interest and instruction of our readers, not for gratuitous replies to questions of a purely business or personal nature. We will publish such inquiries, however, when paid for as advertisements at \$1.00 a line, under the head of "Business and Personal."

All reference to back numbers should be by volume and page.

G. L. B and others.—We have already published two replies to the article on spiritualism, which seem to cover all that is requisite to show the ground of difference between its believers and Dr. Hammond's hypothesis. We decline to publish more at present.

F. S. C., of Mass.—The information you seek through our columns would probably bring out a great variety of specifics, none of which ought to be taken without advice. We prefer not to dabble in this branch of science.

J. W. C., of Iowa.—We did not recommend the English system of non-examination, to be adopted in our patent office. We copied the article from the *Tribune*, and gave that journal credit for it.

H. B., of R. I.—You will find a full description of the construction of the caisson of the Brooklyn bridge in the *SCIENTIFIC AMERICAN* for July 24, it being there port of the Engineer.



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