

Recent American and Foreign Patents.

Under this heading we shall publish weekly notes of some of the more prominent home and foreign patents.

EXTENSION LADDER.—William Kean, Chicago, Ill.—This invention has for its object to furnish an improved ladder, which shall be so constructed that a man upon the top of the ladder, when raised against the wall of a house, can raise and lower himself as he may wish, making it very convenient and useful for firemen, painters, etc., and which shall, at the same time, be simple in construction and conveniently operated.

THILL COUPLING.—W. B. Meloney, M. D., Smyrna, Del.—This invention has for its object to furnish an improved thill coupling, simple in construction, cheap in manufacture, safe in use, durable, and not liable to get out of order, or to be injured by water or mud, and which will admit of the application of a rubber anti-rattling attachment, without interfering with the convenient attachment and detachment of the thills.

WHEELS AND AXLES FOR RAILROAD CARS.—W. Hudgin, M. D., Athens, Ga.—This invention has for its object to furnish an improvement in the construction of wheels and axles for railroad cars, which will enable cars to be readily and quickly adjusted to run upon a wider or narrower track, as may be required.

FLOORING CLAMP.—David Nevin, Georgetown, Colorado Territory.—This invention relates to a new implement for pressing boards together before nailing the same to the floor beams. The invention consists in a new construction of stock, which is made self-fastening to the beams, and in the connection therewith of a sliding spring clamp and operating lever.

ANIMAL TRAP.—James Caswell Parrish, Petersburg, Va.—This invention consists mainly in a peculiar arrangement of a vertical rotary cylinder, provided with a coiled spring, the same being set each time an animal is entrapped, and the animal itself operating the cylinder by depressing or withdrawing a stop.

TRUSS BRIDGE.—John A. McKay, Auburn, Ind.—The object of this invention is to render truss bridges more firm under heavy pressure or concussion; and it is accomplished by the use of a metallic socket or cap of peculiar construction, which rests on the upper chords, and holds the ends of the cross counterbraces; and also in part by the construction of the side braces, and the attachment of their ends to the chords.

IRON ABUTMENT FOR BRIDGES.—Jacob S. Goshorn, Fort Wayne, Ind.—The object of this is to provide an improved method of constructing iron abutments or piers for bridges, by which they can be made substantial and durable, with less expenditure of time, labor, and money, than heretofore; and so that, when the plates are broken by ice or other cause, new plates can readily be inserted in place of the old ones, without the necessity of taking any part of the pier to pieces.

MACHINE FOR CUTTING CORN STALKS.—John Wood, Pella, Iowa.—This invention consists in the combination, with a suitable frame, of two wheels, armed with radial blades, which, when the machine is drawn over a row of standing stalks, cuts off the same; and also in a drag to be placed beneath the wheels when the machine is moving over the highway.

BRAKE FOR RAILROAD CARS.—Charles W. Tierney, Altoona, Pa.—This invention relates to a new automatic mechanism for applying brakes to the wheels of railroad cars, and has for its object to make the apparatus self-acting in such reliable manner that the collisions of the cars produced by a slackening of the speed of a locomotive on a train in motion, will at once cause the application of all the brakes.

ÆOLIAN CHIME.—Heinrich Herrmann, New York city.—This invention relates to a new chime, which is made of glass belts that are suspended from the branches of trees, or otherwise exposed to the air, provided with very tight clappers, that will be swung to and fro by the action of the wind. The bells are properly timed, and will, when the clappers are moved by the air, produce a series of harmonious, but more or less indefinite sounds, very pleasant to the ear.

HYDRAULIC APPARATUS FOR SHIPS.—Edward A. Inglefield, 10 Grove End Road, St. John's Wood, England.—This invention has for its object to obtain occasional power from the inflow of external water, employing constantly a moderate power for removing, by bilge pumps or other convenient means, the water which has done its work in entering the vessel.

FAUCET FOR DRAWING BEER.—Theo. W. Bartholomew, New York city.—This invention consists in the application to faucets of conical rubber sleeves, which serve as linings for the faucets in the barrel heads. The rubber prevents the splitting of the barrel heads, and the bending of the faucet, by invidious application of the latter.

FOUNTAIN BLACKING BRUSH.—Albert D. Pentz, New York city.—This invention relates to a new and useful improvement in brushes for blacking boots and shoes, and consists in a fountain or chamber in the back of the polishing brush from which the liquid blacking is expressed by means of a valve and pressure on the supply brush.

DENTAL PREPARATION.—Edward G. Kearsling and Leonzo Kearsling, Spring Valley, N. Y.—This invention relates to a new and useful improvement in metallic preparations for dentists' use in filling decayed teeth, and it consists in the use of platina covered with gold.

MACHINE FOR GERMINATING MALT.—Karl Sauter, New York city.—This invention has for its object to construct a machine whereby the germs sprouting from grain, during the conversion of the same into malt, can be conveniently broken off and separated from the grain, so that they will not enter the still during the process of brewing.

SELF-CLOSING COCK.—William Dalziel, New York city.—This invention has for its object to prevent the waste of water or other liquid, drawn from reservoirs or other limited supply. The invention consists in providing the cock, through which such liquid is drawn, with a self-acting apparatus, whereby, after a certain quantity of the liquid has been drawn, the cock will invariably be closed.

SCAFFOLD.—Samuel Hollabaugh and T. W. Letts, Mount Union, Pa.—This invention relates to improvements in builders' and painters' scaffolds, of that class whereon the workman raises himself and the platform while on it, and it consists in a long frame or platform, mounted at each end on a pole, to slide up and down on it, and having a crank and pinion at each end, gearing into a toothed rack on the pole, for raising it or letting it slide down. The poles are to be arranged at the upper ends for splicing on additional pieces, to extend them for high buildings, and the platform is made two stories high, with a ladder connecting one with the other, for enabling the workmen to work over a greater area of space without moving it than they could otherwise do.

CLOVER STRIPPER.—John M. Hull and Albert C. Stifer, Alquina, Ind.—This invention relates to improvements in machines for stripping and gathering the seeds from the clover standing in the field, and it consists in a combination with a large box suspended from a truck and provided with fingers at the front of the bottom, resembling, in some respects, the guard fingers of a mower, to project into the clover and gather the tops into the angles between them; of a cutter and rake arranged to cut the heads and rake them back into the box, said cutter and rake working close to the fingers when moving backward, but rising upward when moving forward, to pass over the clover heads. The invention also comprises an adjusting apparatus for raising or lowering the front of the case.

WELL MOUSE, OR DEVICE FOR ENLARGING WELLS.—Thomas Donnelly, Pittsburgh, Pa.—This invention consists in a series of notched or serrated vertical bars, hinged at their upper ends to the head of a stem or stock. When put into a well, the bars may be forced outward by a collar which slides on the stem, thus enlarging the hole.

HAY AND COTTON PRESS.—Jacob L. White, Hernando, Miss.—This invention relates to a press in which the follower moves upward in the box in order to compress the bale, and consists chiefly in the arrangement of toggles at the ends of the press box, in combination with a horizontal frame loosely inclosing said box.

PRINTING PRESS ATTACHMENT.—Alexander L. Bevans, Flushing, N. Y.—This invention relates to improvements in printing presses, and consists in an improved card guide and holding and discharging attachment, applicable to the Gordon card printing press.

CANCELING STAMP.—Gottlieb Rost, Union Hill, N. J.—This invention relates to improvements in the construction and arrangement of self-inking and revolving hand canceling stamps, for stamping letters, bills, notes, and the like.

TANNING.—W. C. Stone, Derby Line, Vt.—This invention relates to an improved process for tanning hides and skins.

APPLICATIONS FOR EXTENSION OF PATENTS.

MACHINE FOR SPLITTING WOOD.—William L. Williams, New York city, has petitioned for an extension of the above patent. Day of hearing, March 29, 1871.

BIT STOCKS.—Lydia Moore, Wilmington, Vt., has petitioned for an extension of the above patent. Day of hearing, March 27, 1871.

Official List of Patents.

ISSUED BY THE U. S. PATENT OFFICE.

FOR THE WEEK ENDING FEB. 7, 1871.

Reported Officially for the Scientific American.

SCHEDULE OF PATENT FEES

Table with 2 columns: Description of fee and Amount. Includes fees for each caveat, each application for a patent, appeals to examiners, etc.

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 upward, but usually at the price above named. 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 such case, may be had by addressing

MUNN & CO., Patent Solicitors, 37 Park Row, New York.

- 111,503.—COFFEE-POT.—Niven Agnew, Delaware, Canada.
111,506.—ADJUSTABLE SHUTTLE BINDER.—N. J. Allen and James C. Moody, Brunswick, Me.
111,507.—SPARK ARRESTER.—T. A. Andrews, Jr., Philadelphia, Pa.
111,508.—FENCE.—Hugh M. Barber, Franklin Station, Ohio.
111,509.—FAUCET.—Thomas W. Bartholomew, New York city.
111,510.—CORN PLANTER.—Leander Becker, Jackson Township, Pa.
111,511.—APPARATUS FOR OILING FELLS, SPOKES, ETC.—P. E. Bomby, Espy, Pa.
111,512.—LAMP FOR COAL-OIL STOVES.—John Bowles (assignor to himself and Samuel Bard), Augusta, Ga.
111,513.—OSCILLATING BALANCE STEAM VALVE.—John C. Bromley, Rock Island, Ill.
111,514.—PAPER-COLLAR BOX.—Lee Churchill, Troy, N. Y.
111,515.—HINGE FOR GATES.—Charles B. Clark, Buffalo, N. Y.
111,516.—BROILER.—Levi H. Colborne and David H. Lowe, New York city.
111,517.—COOKING STOVE.—John B. Crowley and Adais E. Chamberlain (assignors to Chamberlain & Co.), Cincinnati, Ohio.
111,518.—SELF-CLOSING COCK.—William Dalziel, New York city.
111,519.—CLOTHES DRIER.—Alfred Day, Skowhegan, assignor of one-half his right to Francis Lyford, Augusta, Me.
111,520.—ASPHALT CEMENT FOR PAVEMENTS, DRAIN PIPES, ETC.—E. J. De Smet, New York city.
111,521.—MAIL BAG FASTENING.—D. F. Dodge, Lowville, N. Y.
111,522.—CARRIAGE CURTAIN KNOB.—W. B. Douglass, Newark, N. J., assignor to Frederick Baumgartner, Brooklyn, N. Y.
111,523.—MACHINE FOR WARPING YARN.—George Draper, Hopedale, Mass.
111,524.—SASH HOLDER.—Henry W. Drott, Cumberland, Md.
111,525.—FUNNEL.—L. P. Edwards, Hamilton, Pa.
111,526.—WATER HEATER FOR STEAM BOILERS.—David C. G. Field, Lowell, Mass.
111,527.—STEAM GENERATOR.—Loyal C. Field, Galesburg, Ill.
111,528.—BEDSTEAD FASTENING.—Sebastian Goetz, Reed's Mills, Ohio.
111,529.—INVERTIBLE TROUGH.—Francis J. Goldsmith, Concord, assignor of one-half his right to Peter F. Young, Painesville, Ohio.
111,530.—FEED GRINDER.—Myron Gore, Ottawa, Ill.
111,531.—LAMP.—F. T. Grimes, Liberty, Mo.
111,532.—MACHINE FOR BORING POSTS.—Jesse R. Group, Idaville, Pa.
111,533.—LEATHER-PUNCHING AND CUTTING MACHINE.—E. E. Hardy and Napoleon Dubrul, Joliet, Ill.
111,534.—CARTRIDGE SHELL EJECTOR FOR REVOLVING FIRE-ARMS.—G. H. Harrington, Worcester, Mass.
111,535.—WATER-PROOF PIANO COVER.—H. F. Herkner, New York, and Jared W. Post, Brooklyn, N. Y.
111,536.—HYDRAULIC APPARATUS.—George H. Herring, Durand, Ill.
111,537.—ÆOLIAN CHIMING BELL.—Heinrich Herrmann, New York city.
111,538.—DOUBLE-ACTING ROTARY ENGINE.—J. P. Herron, Atlanta, Ga.
111,539.—APPARATUS FOR TRANSMITTING POWER AND CHANGING THE SPEED.—Spencer Hiatt, Clayton, Ind.
111,540.—SCAFFOLD.—Samuel Hollabaugh and T. W. Letts, Mount Union, Pa.
111,541.—SHOES FOR THRASHERS.—D. W. Hollihan, San Francisco, Cal.
111,542.—AUTOMATIC STEAM WATER ELEVATOR.—Charles Houghton, Roxbury, Boston, Mass.
111,543.—WHEEL AND AXLE FOR RAILWAY CARS.—Wescom Hudgin, Athens, Ga.
111,544.—CLOVER HARVESTER.—John W. Hull and Albert C. Stifer, Alquina, Ind.
111,545.—FLOUR SIFTER.—Curtis Huntley, Lowell, Mass.
111,546.—STEERING APPARATUS.—E. A. Inglefield, 10 Groves End Road, St. John's Wood, England.
111,547.—MODE OF FASTENING HUB BAND, ETC.—James Ives, Mount Carmel, Conn.
111,548.—BATTER POT.—E. A. Jeffery, New York city.
111,549.—MANUFACTURE OF RUBBER FLOOR CLOTH, ETC.—H. W. Joslin, Jersey City, N. J.
111,550.—COUPLING FOR SHAFTS FOR MILLS.—William Kean, Chicago, Ill.
111,551.—PREPARATION OF PLATINUM FOR FILLING TEETH.—E. G. Kearsling and Leonzo Kearsling, Spring Valley, N. Y.
111,552.—BOILER TUBE PLUG.—Thos. La Blanc, Philadelphia, Pa.
111,553.—CARPENTER'S WORK BENCH.—Robert C. Love, Augusta, Me.
111,554.—SPRING BED.—Nicholas Mason, Lincoln, Mass.
111,555.—CHURN.—James McBride, Ithaca, N. Y.
111,556.—THILL COUPLING.—W. B. Meloney, Smyrna, Del.
111,557.—HARVESTER.—James Moran, Auburn, N. Y., and C. D. Wallace, Corry, Pa., assignors to themselves and H. E. Needham, St. Louis, Mo.
111,558.—TONGUE FOR CHILD'S CARRIAGE.—E. A. Morse, Rutland, Vt.
111,559.—MAT.—P. W. Neefus, New York city.

- 111,560.—FLOOR CLAMP.—David Nevin, Georgetown, Colorado Territory.
111,561.—INVALID BEDSTEAD.—J. H. Oerter, New York city.
111,562.—CHURN.—William Parks, Meadville, Pa.
111,563.—CLOTHES DRYER.—A. H. Patch, Hamilton, Mass.
111,564.—RATCHET COUPLING FOR BARGES, ETC.—W. W. Patterson and Edmond Bishop, Pittsburg, Pa.
111,565.—ARTIFICIAL FUEL.—B. F. Penny, Rochester, N. Y. assignor to T. B. Curtis, New York city.
111,566.—FOUNTAIN BLACKING BRUSH.—A. D. Pentz, New York city.
111,567.—LATCH LOCK.—Nicholas Petre, New York city.
111,568.—WINE SIRUP AND BEVERAGE.—A. D. Puffer, Boston, Mass.
111,569.—KILN FOR DRYING MALT.—J. A. Remer (assignor to himself and Henry Assenheimer), New York city.
111,570.—PORTABLE SWING.—D. M. Reynolds, Chicago, Ill.
111,571.—POTATO DIGGER.—R. B. Robbins, Adrian, Mich.
111,572.—MACHINE FOR THREADING SCREWS.—D. M. Robertson, East Boston, and J. A. Bidwell, Boston, Mass.
111,573.—FERRULE.—W. H. Rodden, Toronto, Canada.
111,574.—THILL COUPLING.—L. S. Rowe, Derby Line, Vt., assignor to himself and U. T. Sheafe.
111,575.—RIVETING MACHINE.—William Sellers, Philadelphia, Pa.
111,576.—FEATHER RENOVATOR.—J. T. Seldon, Chicopee, Mass.
111,577.—PORTABLE BOOK HOLDER.—C. W. Sherwood, Chicago, Ill.
111,578.—PORTABLE FENCE.—Hector Sinclair, New York city.
111,579.—PAPER FOR USE IN THE BOTTOMS OF BIRD CAGES.—J. H. Singer, New York city.
111,580.—BOILER FURNACE.—Le Grand Skinner, Chittanooga, N. Y.
111,581.—PRINTING PRESS.—E. H. Smith, Bergen, N. J.
111,582.—PULLEY.—S. A. Smith (assignor to Cresson & Smith), Philadelphia, Pa.
111,583.—TANNING.—W. C. Stone, Derby Line, Vt., assignor to himself and W. S. Foster.
111,584.—BRAKE FOR RAILWAY CARS.—C. W. Tierney, Altoona, Pa.
111,585.—WASH BOARD.—Westley Todd, Allegheny, Pa.
111,586.—PRISON LOCK.—H. R. Towne, Stamford, Conn.
111,587.—PERMUTATION LOCK.—H. R. Towne, Stamford, Conn.
111,588.—FLUTING MACHINE.—T. M. Tucker, Newark, N. J.
111,589.—STOVE DRUM.—Willard Twitchell, Syracuse, N. Y.
111,590.—LUBRICATOR FOR LOOSE PULLEYS.—Stephen Ustick, Philadelphia, Pa.
111,591.—RAILWAY CAR BRAKE.—J. E. Weaver, Lancaster, Pa.
111,592.—CANDY-CUTTING MACHINE.—Christopher Wentz, Albert Green, and O. P. Connor, Trenton, N. J.
111,593.—APPARATUS FOR DELIVERING GRAIN, ORES, ETC., INTO GRINDING MILLS.—J. D. Whelpley and J. J. Storer, Boston, Mass.
111,594.—FEED CUTTER.—J. R. Whittemore, Chicopee Falls, Mass.
111,595.—LOOM-PICKING MOTION.—H. A. Whitten and E. D. Gove, Holyoke, Mass.
111,596.—DROP TUBE STEAM GENERATOR.—S. L. Wiegand, Philadelphia, Pa.
111,597.—VELOCIPED.—W. L. Williams, New York city.
111,598.—STEAM HEATER.—J. L. Winslow, Portland, Me.
111,599.—VESSEL FOR HOLDING OIL.—A. T. Woodward, New York city.
111,600.—HYDRAULIC TURNPIPE.—Samuel Adams, Michigan Bluff, Cal.
111,601.—WATER WHEEL.—J. P. Allen, Springfield, Ohio.
111,602.—COATING BRICK, WOOD, AND OTHER SURFACES ON WALLS, ETC.—E. E. Alvord, Salt River, Mich.
111,603.—DRIVING POWER FOR LOCOMOTIVES.—W. D. Arnett, Denver, Colorado Territory.
111,604.—SAND SIFTER.—William Bailey, Friendship, N. Y.
111,605.—SCOOP AND SIFTER.—Joseph Baker, Trenton, Canada.
111,606.—FEATHER RENOVATOR.—James A. Bell (assignor to himself and Henry Z. Stetler), Tyrone, Pa.
111,607.—FRUIT JAR.—Melville K. Bissell, Kalamazoo, Mich., assignor to Salmon B. Rowley, Philadelphia, Pa.
111,608.—FLOWER STAND.—Elijah D. Castelov, Meriden, Conn.
111,609.—ALCOHOL STILL.—George Clarkson (assignor to himself, Samuel D. Wilder, and Albert Sherwin), Elgin, Ill.
111,610.—STAIRWAY.—Charles Saunders Close, Philadelphia, Pa.
111,611.—MANUFACTURE OF STRAW BOARD FOR THE CONSTRUCTION OF BUILDINGS.—Judd M. Cobb, Beloit, Wis.
111,612.—APPARATUS FOR CLEANING SULPHURETS AND OTHER ORES.—Charles C. Coleman, San Francisco, Cal.
111,613.—BOOT JACK.—Ezra Coleman, San Francisco, Cal.
111,614.—APPARATUS FOR FEEDING PULVERIZED FUEL TO FURNACES.—Thomas Russell Crampton, Westminster, London, Great Britain.
111,615.—APPARATUS FOR DISTRIBUTING AND FEEDING POWDERED FUEL TO FURNACES.—T. R. Crampton, Westminster, London, Great Britain.
111,616.—FURNACE FOR BURNING PULVERIZED FUEL.—T. R. Crampton, Westminster, London, Great Britain.
111,617.—SUSPENSOR.—John W. Dayton, Waterbury, Conn.
111,618.—HAND VISE.—James W. Devlin, Yonkers, N. Y.
111,619.—SAW.—Henry Disston and Thomas Oates Hill (assignor to Henry Disston & Son), Philadelphia, Pa.
111,620.—DEVICE FOR ENLARGING WELLS.—Thomas Donnelly, Pittsburgh, Pa.
111,621.—VALVE AND COCK.—Isidore Dreyfus, New York city.
111,622.—HEATING STOVE.—S. H. Emery, Jr., and C. H. Castle, Quincy, Ill.
111,623.—SIFTER AND STRAINER.—Lyman Fay, Fall River, Mass.
111,624.—WATER METER.—Thomas B. Fogarty, Brooklyn, N. Y.
111,625.—BOOT AND SHOE FASTENING.—F. D. Ford, New Bedford, Mass.
111,626.—GATE LATCH.—Wm. Fosket (assignor to Charles Parker), Meriden, Conn.
111,627.—WALKING CULTIVATOR.—Andrew Friberg, Moline, Ill.
111,628.—SAFETY DEVICE FOR HATCHWAYS.—Alexander Fries, Cincinnati, Ohio.
111,629.—BRICK MACHINE.—Benjamin M. Gard, Urbana, Ohio, and Emory R. Gard, Chicago, assignors to United States Brick-Machine Company, Chicago, Ill.
111,630.—WATER WHEEL.—James Gardner, South Lee, Mass.
111,631.—CLOD FENDER.—Robert T. Gillespie, Millport, Ohio.
111,632.—PLANING MACHINE.—James Goodrich and Henry J. Colburn, Fitchburg, Mass.
111,633.—HARVESTER.—William F. Goodwin, Metuchen, N. J.
111,634.—HORSE POWER.—William F. Goodwin, Metuchen, N. J.
111,635.—HAIRPIN.—Charles M. Gormly, Pittsburgh, Pa.
111,636.—IRON ABUTMENT FOR BRIDGES.—Jacob S. Goshorn, Fort Wayne, Ind.
111,637.—DEVICE FOR SECURING CORKS IN BOTTLES.—S. L. Gouverneur, Frederick City, Md.
111,638.—APPARATUS FOR THE MANUFACTURE OF CONFECTIONERY.—William F. Goward, Boston, Mass.
111,639.—SECTIONAL STEAM BOILER.—James S. Griffith and Charles E. Emery, New York city.
111,640.—WINE AND CIDER PRESS.—Thomas W. Grinter Russellville, Ky., assignor to James L. Haven, Cincinnati, Ohio.
111,641.—BRIDGE FOR SUPPORTING SHAFT-DRILLING MACHINES.—Joseph P. Griscorn, Port Carbon, and John Fritz, Mahanoy, Pa.
111,642.—EXPLOSIVE COMPOUND.—Joseph Hafencgger, San Francisco, Cal.
111,643.—CAM FOR QUARTZ MILLS.—Oliver P. Hart, Logtown, Cal.

111,644.—STEAM ROAD WAGON.—Charles W. Hermance, Schuylersville, N. Y.
 111,645.—PUMP.—Oliver Higgins, Napoleon, Ohio.
 111,646.—SPRING BED BOTTOM.—E. B. Hill, Grand Rapids, Mich.
 111,647.—TAP WRENCH.—George W. Huntoon and Edwin Simonds, Lowell, Mass.
 111,648.—AUGER.—William A. Ives, New Haven, Conn.
 111,649.—BIT BRACE.—William A. Ives, New Haven, Conn.
 111,650.—FEED-WATER APPARATUS.—James Kindel, Wilmington, Ohio.
 111,651.—PLOW.—Sampson B. King, Starkville, Ga. Antedated February 3, 1871.
 111,652.—ICE CRUSHER.—Oliver B. Kinsey, Newark, N. J. Antedated January 28, 1871.
 111,653.—PORTABLE STALL.—D. P. Leach and W. F. Leach, Franklin, Ind.
 111,654.—DYEING AND PRINTING TEXTILE FABRICS.—John Lightfoot, Lowerhouse, near Burnley, England.
 111,655.—MEDICAL COMPOUND.—Henry Lister, Houston, Texas.
 111,656.—POTATO DIGGER.—George C. Love, English Center, Pa.
 111,657.—COOKING STOVE.—Peter Low, Cleveland, Ohio.
 111,658.—APPARATUS FOR EXTRACTING OIL FROM BONE DUST.—William W. Lucas, Cleveland, Ohio.
 111,659.—FAUCET.—John R. Mackay, Meriden, Conn. Antedated January 23, 1871.
 111,660.—SCAFFOLD.—Nicholas Martz, Lykens, Pa.
 111,661.—MANUFACTURE OF PAPER, CORDAGE, TWINE, ETC.—James H. McConnell, Springfield, Ill.
 111,662.—TRUSS BRIDGE.—John A. McKay, Auburn, Ind.
 111,663.—TYPE HOLDER.—Wm. McNaughton (assignor of one half his right to John H. Trambull), Chica o, Ill.
 111,664.—VENT PLUG.—Charles H. Miller and Wm. Ascough, Buffalo, N. Y.
 111,665.—WAGON.—Alexander Moffitt, Washington, D. C.
 111,666.—VAPOR BURNER.—Thomas Moore, Bloomington, and James O'Donald, Clinton, Ill.
 111,667.—DENTAL ENGINE.—James B. Morrison, St. Louis, Mo.
 111,668.—DIE FOR FORGING, TRIMMING, AND SHAPING SPRING OLDS FOR CARRIAGES.—Francis B. Morse (assignor to H. D. Smith & Co.), Plantsville, Conn.
 111,669.—FEEDING QUICK SILVER TO STAMPS AND AMALGAMATORS.—George C. Munson, Empire City, Colorado Territory.
 111,670.—MEAT CUTTER.—Hugh B. Murphy, Allegheny City, Pa.
 111,671.—ANIMAL HOISTING APPARATUS.—Jason Newton, Marengo Township, Mich.
 111,672.—CLOCK PENDULUM ROD.—Russell W. Norton, New Haven, Conn.
 111,673.—ANIMAL TRAP.—James C. Parrish, Petersburg, Va.
 111,674.—FEEDING DEVICE FOR CARDING AND OTHER PREPARING MACHINES.—Edwin Pettitt, Manchester, England.
 111,675.—COMBINED GRAIN DRILL AND CORN CULTIVATOR.—David B. Platt, Jeffersonville, Ind.
 111,676.—GATE.—John Pool, Elizabeth City, N. C.
 111,677.—GOVERNOR FOR STEAM ENGINES.—George F. Potte, Boston, assignor to himself and Reuben K. Huntoon, Wakefield, Mass.
 111,678.—SHUTTLE FOR SEWING MACHINES.—George M. Pratt, Middletown, Conn.
 111,679.—CAST-IRON BARREL.—Abel Putnam, Jr., Saratoga Springs, N. Y.
 111,680.—WATER COOLER.—Abel Putnam, Jr., Saratoga Springs, N. Y.
 111,681.—PROPELLING APPARATUS FOR BOATS.—Joseph Reppetti, Philadelphia, Pa. Antedated February 4, 1871.
 111,682.—MEDICATED PLASTER.—Albert D. Richards (assignor to Tutta, Grosvenor & Co.), Somerville, Mass.

111,683.—PEN HOLDER.—Henry Roth, Virginia City, Nevada.
 111,684.—BOX FOR PACKING AND TRANSPORTING SHEET-METAL CANS.—Charles E. Rose, Boston, Mass.
 111,685.—FERTILIZER DISTRIBUTER.—Christopher Salvo (assignor to himself, Joseph C. Brewer, and Robert W. Milford), Columbus, Ga.
 111,686.—MACHINE FOR DEGERMINATING MALT.—Charles Sauter, New York city, assignor to himself and G. Schütz, Jersey City, N. J.
 111,687.—CORN PLANTER.—Levi Scofield, Watertown, Wis.
 111,688.—ELECTROTYPE DIE OR MOLD FOR MOLDING PLASTIC MATERIALS.—David Scrymgeour, Foxborough, Mass.
 111,689.—ROCK DRILL.—Jacob Shelley, Mahanoy Township, Pa.
 111,690.—SHIRT.—Solomon Sibley, Boston, Mass.
 111,691.—HOT-BLAST STOVE FOR HEATING AIR, STEAM, ETC.—Charles Wilhelm Siemens and Edward Alfred Cowper, Westminster, and Charles Cochran, Ellowes Upper Gornal, England; said Siemens and Cochran assign their right to said Cowper.
 111,692.—RAILROAD TICKET.—Joseph T. Smith, Louisville, Ky. Antedated February 4, 1871.
 111,693.—SPRING BOLT.—Wm. E. Sparks (assignor to Sargent & Co.), New Haven, Conn.
 111,694.—DEVICE FOR REEFING AND FURLING SAIS.—Wm. Spear, Cape Elizabeth, Me. Antedated February 4, 1871.
 111,695.—CAR COUPLING.—Leroy S. Starrett, Athol, Mass.
 111,696.—BEE HIVE.—Monroe J. Stearns, Galesville, Wis.
 111,697.—FOUNTAIN.—Joseph Storer, Hammersmith, England.
 111,698.—COOKING STOVE.—David Stuart, Philadelphia, Pa.
 111,699.—COMBINED REMOVABLE COCK AND FIXED SOCKET.—Cornelius Sullivan, Boston, Mass.
 111,700.—SAND OR EMERY PAPER.—George C. Taft, Worcester, Mass., assignor to himself and Augustus B. Davie, Philadelphia, Pa.
 111,701.—FILTER FOR CISTERN.—Robert W. Thompson, Mansfield, Ohio.
 111,702.—PAPER-CUTTING MACHINE.—Wm. H. Topham, New York city. Antedated February 1, 1871.
 111,703.—HUB FOR WHEELS.—James L. Van Wert, Tolland, Mass.
 111,704.—MILL-STONE BAIL AND DRIVER.—Albert G. Waldo, Milwaukee, Wis.
 111,705.—FURNACE FOR BURNING PULVERIZED FUEL UNDER STEAM BOILERS, EVAPORATORS, ETC.—James D. Whelpley and Jacob J. Soper, Boston, Mass.
 111,706.—HAY AND COTTON PRESS.—Jacob Lewis White, Hernando, Miss. Antedated Jan. 28, 1871.
 111,707.—ELECTRO MAGNETIC ALARM BELL.—Charles Williams, Jr., Somerville, and Jerome Redding, Charlestown, Mass.
 111,708.—WHEEL FOR WHEELBARROWS.—George Withington, Ione City, Cal.
 111,709.—MACHINE FOR CUTTING CORNSTALKS.—John Wood, Pella, Iowa.
 111,710.—HARNES SNAP.—Alonzo P. Woodard, Alfred Center, N. Y., and William Bruen, Newark, N. J.; said Bruen assigns his right to said Woodard. Antedated Jan. 23, 1871.
 111,711.—MEDICATED SMOKING TOBACCO.—Wesley A. Wright, Lynchburg, Va.
 111,712.—TREATING SMOKING TOBACCO.—Wesley A. Wright, Lynchburg, Va.
 111,713.—DEVICE FOR SAVING GOLD AMALGAM AND QUICK-SILVER.—Oliver H. Young and Daniel J. Vaughn, Wisconsin Hill, Cal.
 111,462.—PROPULSION OF CANAL BOATS.—Thomas Main, Green Point, N. Y. Dated Jan. 31, 1871.

4,254.—COOKING STOVE.—Charles P. Geissenhainer, Pittsburgh, Pa., assignor to Ezek Bussey and Charles A. McLeod, Troy, N. Y. Patent No. 32,764; dated July 9, 1861.
 4,255.—VENTILATOR.—Melville E. Mead, Darien Depot, Conn. Patent No. 90,189; dated May 18, 1869.
 4,256.—SHAFT COUPLING.—Silas C. Schofield, Chicago, Ill. Patent No. 63,182; dated March 26, 1867.
 4,257.—OVERSHOE.—Henry G. Tyer, Andover, Mass. Patent No. 63,389; dated September 3, 1867. Reissue No. 2,520; dated December 23, 1867.

DESIGNS.
 4,623.—HEATER FOR MILK, ETC.—George Sumner Albee, Hopkinton, Mass.
 4,624.—CAR ET PATTERN.—John H. Bromley (assignor to John Bromley & Sons), Philadelphia, Pa.
 4,625.—LIQUOR HOLDER.—James A. Dunworth and Frank Dunworth, New York, assignors to "Vidvard and Sheehan," Utica, N. Y.
 4,626.—TYPE.—Heinrich Flinsch, Frankfurt, Prussia.
 4,627.—TYPE.—Andrew Gilbert, Boston, Mass.
 4,628.—SHOW CASE.—Winfield S. Grove (assignor to himself and Abraham B. Grove), Philadelphia, Pa.
 4,629.—SHOW CARD.—Charles S. Hall, Rochester, N. Y.
 4,630.—MATCH SAFE.—Albert D. Judd, New Haven, Conn.
 4,631.—DOVETAIL.—J. Dwight Kellogg, Jr., Northampton, Mass.
 4,632 and 4,633.—CARPET PATTERN.—Hugh S. Kerr (assignor to Israel Foster), Philadelphia, Pa. Two patents.
 4,634 and 4,635.—CHAIR.—Anton Kimbel, New York city. Two patents.
 4,636.—CARPET PATTERNS.—Christian J. Koch (assignor to John Bromley & Sons), Philadelphia, Pa.
 4,637.—SIEVE.—Robert J. Mann, Dallas City, Ill.
 4,638.—DRAWER PULL.—Julius E. Merriman (assignor to Foster, Merriam & Co.), West Meriden, Conn.
 4,639.—OIL CLOTH PATTERN.—James Patterson, (assignor to Thomas Potter, Son & Co.) Elizabeth, N. J.
 4,640 and 4,641.—MOLD FOR LAGER BEER GLASSES.—John P. Pears, Pittsburgh, Pa. Two patents.
 4,642.—LEAD PENCIL.—Joseph Reckendorfer and Teile H. Müller, New York city, assignors to Joseph Reckendorfer.
 4,643 and 4,644.—BRACELET.—Theron I. Smith, North Attleborough, Mass. Two patents.
 4,645.—STOVE PLATE.—Nicholas S. Vedder and Francis Ritchie (assignor to Hicks & Wolfe), Troy, N. Y.

TRADE MARKS.
 148.—COMPOSITION OIL.—Butler & Haynes, Bangor, Me.
 149.—SHOES, BROGANS, AND BOOTS.—Edward Francis Jones, Farmington, N. H.
 150.—SUGAR, SIRUP, AND MOLASSES.—William Moller & Sons, New York city.
 151.—MACHINERY OIL.—Charles L. Morehouse, Cleveland, Ohio.
 152.—ILLUMINATING OIL.—Charles L. Morehouse, Cleveland, Ohio.
 153.—LUBRICATING OIL.—Charles L. Morehouse, Cleveland, Ohio.
 154.—FACTORY OIL.—Charles L. Morehouse, Cleveland, Ohio.

EXTENSIONS.
 MACHINE FOR PARING AND SLICING APPLES.—D. H. Whittemore, Worcester, Mass. Letters Patent No. 16,417; dated January 13, 1857.
 PLATFORM SCALES.—Thaddeus Fairbanks, St. Johnsbury, Vt. Letters Patent No. 16,381; dated January 13, 1857. Reissue No. 145; dated March 31, 1857.
 PLATFORM SCALES.—Francis M. Strong and Thomas Ross, Vergennes, Vt. Letters Patent No. 14,119; dated January 15, 1856.
 SEWING MACHINE.—Albert F. Johnson, Parkville, N. Y. Letters Patent No. 16,387; dated January 13, 1857.

Advertisements.

The value of the SCIENTIFIC AMERICAN as an advertising medium cannot be over-estimated. Its circulation is ten times greater than that of any similar journal now published. It goes into all the States and Territories, and is read in all the principal libraries and reading-rooms of the world. We invite the attention of those who wish to make their business known to the annexed rates. A business man wants something more than to see his advertisement in a printed newspaper. He wants circulation. If it is worth 25 cents per line to advertise in a paper of three thousand circulation, it is worth \$2.50 per line to advertise in one of thirty thousand.

RATES OF ADVERTISING.
 Back Page 1-00 a line,
 Inside Page 75 cents a line,
 for each insertion.
 Engravings may lead advertisements at the same rate per line, by measurement, as in the letter-press.

NEW YORK DEPOT
Ames Manufacturing Co.,
 25 PARK PLACE.

E. V. HAUGHWOUT & CO., GENERAL AGENTS.
MACHINERY, MACHINISTS' TOOLS,
 Steam Engines and Steam Pumps, Turbine Water Wheels, Bronce Cannon and Steam Military and Masonic Swords, German Silver and Plated Goods, of all kinds, on the most favorable terms.

—ALSO—
NEW YORK DEPOT
 OF THE
Genuine Chester Emery Co.

BOULT'S
Carver, Paneler and Molder.
 THE simplest, best, and cheapest Wood Ornamenting Machine made. See Illustrations of Dec. 3, 1870. E. P. HAMPSON, Agent, 98 Courtland st., N. Y. BURNHAM & HYDE, Manufacturers, Battle Creek, Mich.

A SPLENDID WATER POWER FOR SALE.
 100 rods from railroad, 1 mile from the incorporated village of Manlius, 10 miles from Syracuse per railroad, upon which is at present a plaster and lime mill, a saw mill, cider mill, etc. The owner wishes to dispose of it on account of ill health. For particulars address or apply to THEO. D. HADLEY, Manlius, Onondaga Co., N. Y.

PRIZE MEDAL SCROLL SAW.—
THOS. L. CORNELL, Derby, Conn.

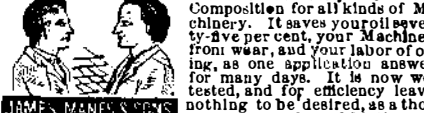
SOMETHING NEW.—Agents guaranteed \$3,000 a year to introduce an article that sells in every hou . . . Address, with stamp, S. GILLILAND, Pittsburgh, Pa.

DOUBLE-ACTION BRACE, Manufactured by the American Suspende Co., Waterbury, Conn.
 Office 7 Mercer st., New York. The latest improvement and best Suspende made.

GEAR'S VARIETY MOLDING MACHINE.
 The Machine does all that you claim for it. I consider it a valuable acquisition to our wood-working machinery, and could hardly do without it now. E. B. GIBBS, Master Mechanic, St. Louis and Iron Mountain R. R. Co., St. Louis, Mo.

SOMETHING WORTH KNOWING.—A new, quick, simple, and cheap process for annealing Steel—worth a hundred times its cost. Every mechanic cutting, turning, or filing steel, should have it. Every person sending me one dollar shall have the receipt at once. Address E. E. GIBBUD, 42 Williamsburgh, L. I.

MINERALINE



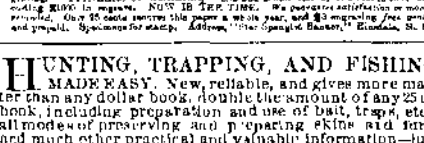
Is the Great Novelty Lubricating Compound for all kinds of Machinery. It saves you 50 per cent. on your labor of oiling, and your labor of oiling, as one application answers for many days. It is now well tested and for efficiency leaves nothing to be desired, as a thorough preventive of friction. It is now in use in more than five thousand manufactories, including the U. S. Navy Yards and the principal Steam Car Co's. Solely manufactured and invented by JAMES MANES & SONS, Practical Chemists, Cambridgeport, Mass., Glasgow, Scotland. Also, manufacturers Boiler Composition, Engine Polish, Patent Wheel Grease, and all kinds of Bleaching Composition. For information, send for Circular to the whole address. J. MANES & SONS can give recipes in Chemistry for all Manufactures that require them, with drawings of apparatuses required. Following are a few of their recipes: 1st. A new plan of Tinning and Galvanizing Wrought and Cast Iron. 2d. To Flux Iron free from Phosphate and Sulphur, and all Impurities. 3d. The wonderful Water-proof Cement, for all kinds of Machine Belts, ready for use in few minutes. 4th. New plans for Plating, Copperizing, Water Gliding, etc., etc. Mr. MANES can produce thousands of vouchers and testimonials from the principal manufacturers in the United States. Beware of Imitators.

MACHINISTS' TOOLS.
 WE have a full supply of Machinists' Tools on hand, ready for immediate delivery. For cuts and prices address STEPTOE, McFARLAN & CO., No. 22 West 2d st., Cincinnati, O.



Vertical & Horizontal CORN MILLS.
 30-inch, grinds 30 bus. per hour, and 20-inch, 25. Price, \$120 and \$140. EDWARD HARRISON, New Haven, Conn.

ON TRIAL.—To give our readers a taste of the quality of the all-glass pictorial \$3 magazine, the PHRENOLOGICAL JOURNAL, will be sent in clubs of twenty copies or more, half a year, at 75 cents each; clubs of ten, at 80 cent each; clubs of five, at 90 cents each; a single copy, six months, \$1. Sample copies FREE. No deviation. This offer good for three months. Address S. R. WELLS, 889 Broadway, N. Y.



HUNTING, TRAPPING, AND FISHING MADE EASY. New, reliable, and gives more matter than any dollar book, double the amount of any 25 ct. book, including preparation and use of bait, traps, etc., all modes of preserving and preparing skins and furs, and much other practical and valuable information—just what is wanted. Price lower than any other, none (even at 50 cts.) more reliable, not at less than \$1.00, and complete. Examine at any bookstore and prove. Only 20 cts. of bookseller or by mail. JESSE HANEY & CO., 119 Nassau st., N. Y.

\$15. TUDER'S PAT. SAW SHARPENER
 and GUMMER. Manufactured by JOR. O. COLLADAY, Philadelphia. Wood Working Machinery of all kinds on hand. FIRST PREMIUM awarded by Am. Inst. 1870. Illustrated price list and catalogue of MAGNIFICENT MACHINERY free to any address. T. H. McALLISTER, Copiclan, 49 Nassau st., N. Y.

INTERNATIONAL PATENT AGENCIES.

PATENTS SOLD ON COMMISSION in the UNITED STATES and in EUROPE. Address E. H. GIBBS & CO., Proprietors and Managers, 96 Broadway, N. Y. MONTGOMERY GIBBS (late Agent of the U. S. Treasury in Europe), Manager of London Office, 17, Henrietta st., Covent Garden, London, England. REFERENCES: A. W. Pincock, Esq., President Atlantic Mail S. S. Co., 15 Bowling Green, N. Y. J. J. Winslow Esq., President Hamilton Fire Ins. Co., 11 Wall st., New York

Gear's Variety Molding

Machine is the best in the world. Send for Circular. A. S. & J. Gear & Co., Boston, Mass. APPLICATION.—It is an improvement on the N. Y. Machine and where except in New York. Take Notice. We mean business.

LOWE'S PATENT
 HOLLOW LATHES DOGS AND CLAMPS. Set off Dogs from 2 to 2 1/2 in., inclusive, \$2. A set of 12 from 1/4 to 1 in., \$17.30. Five sizes Machinists' Clamps, from 2 to 6 in., inclusive, \$11. Send for Circular. C. W. LOWE, South Norwalk, Conn.

DANIEL'S PLANERS.
 THE demand on us for this valuable planer has made it necessary to make suitable additions to our works for turning them out. For cuts of this and other wood-working machinery, address STEPTOE, McFARLAN & CO., Nos. 216 & 222, West 2d st., Cincinnati, O.

FOR SALE.
 2.50 H. P. 15 in. by 36 double slide valve Engines, with 42 Boilers, 42 in. by 35 feet, and fixtures complete, in perfect order. Apply to WM. WRIGHT & CO., Newburgh, N. Y.

TO THE WORKING CLASS.—We are now prepared to furnish all classes with constant employment at home, the whole of the time or for the spare moments. Business new, light and profitable. Persons of either sex ready earn from \$2 to \$10 per evening, and a proportional sum by devoting their spare time to the business. Boys and girls can earn as much as men. That all who see this notice may send their address, and that the business, we make this unparalleled offer: To such as are not well satisfied, we will send \$1 to pay for the trouble of writing. Full particulars, a valuable sample which will do you more good than any other, and a copy of The People's Literary Companion—one of the largest and best family newspapers published—all sent free by mail. Ready, if you want permanent, profitable work, address 1, C. ALLEN & CO., AUSTIN, MASS.

BENT, GOODNOW & CO.,
 Boston, Mass., Publishers of "PATENT STAR," sell Patent Rights and goods of all kinds. Orders solicited. AGENTS WANTED. Send stamp for copy.

MACHINISTS.
 Illustrated Catalogue and Price List of all kinds of small Tools and Material sent free to any address. GOODNOW & WIGHTMAN, 23 Cornhill, Boston, Mass.

DIALOGUES, SPEAKERS, etc., etc. Do you want "speaking books"? We have ten kinds, 100 pages in length, 16 pages each; Phlogistons, eight kinds, 100 pages each; Speakers, etc., (all different), 200 cts. each; others at all prices. We supply Medical, Masonic, Law, Theological, and Scientific Books, and send them by mail prepaid. We have made this our specialty for ten years. Sheet Music, Instruments, Notions, Novelties, etc., in fact, anything you want, you cannot by sending stamp for catalogue, to E. B. GIBBS & CO., Booksellers, Hingham, N. H.

WANTED.—FOUNDRY MAN—of extensive experience in conducting a large foundry and mixing white iron in Western cast-iron works is desired. None but first-class men, industrious and temperate, need apply. All applications must be accompanied by references. The position will be made desirable to suitable man. Address F. C. Box 48, Louisville, Ky.

P. BLAISDELL & CO.

MANUFACTURERS of the "BLAISDELL" PATENT DRILL PRESSES, with quick return motion, Agricultural Drills, Improved Engine Lathes, Iron 12 in. to 28 in. swing Planers, Gear Cutters, Borng Mills, Hand Lathes, and other first-class Machinists' Tools. Jackson st., Worcester, Mass.

Universal Wood Worker.
 FOR Agricultural, Railroad, Car, Carriage, and Wagon Works, Planing Mill, Sash, Door and Blind, Bedstead, Cabinet and Furniture Factories. McBEST, BENTLEY & MARGEDANT, Hamilton, O.

GENUINE NORWAY OATS, CHESTER CO. MAMMOTH CORN and ALISKE CLOVER. Sample package sent FREE to all farmers; also a copy of the AMERICAN BUCK JOURNAL, by enclosing stamp to N. P. BOYER & CO., Parkersburg, Chester Co., Pa.

WANTED.—A THOROUGHLY-COMPE- TENT MACHINIST to fill the position of Superintendent of our Spike, Bolt, and Nut Works. One who has had experience, and can give good references, can secure a permanent situation. Address JOHN DOMINGOS, CLEVELAND ROLLING MILL CO., Cleveland, O.

Trade-Mark Patents.

MUNN & Co. desire to call the attention of manufacturers and business men generally to the importance of the law of patents, as applied to trade-marks for business purposes. Any person, firm, or corporation, domiciled in the United States, or in any foreign country affording similar privileges to citizens of the United States, can obtain the right to the exclusive use, for THIRTY YEARS, of any TRADE-MARK, consisting of any new figure, or device, or any new word, or new combination of words, letters, or figures, upon their manufactures. This protection extends to trade-marks already in use or any length of time, or about to be adopted. Full information on this important subject can be obtained by addressing MUNN & CO., 37 Park Row, New York.

\$10,000. Will sell to a party competent to manage and introduce, half interest in a valuable invention, worth ten times the price asked. Utility and importance fully proved. Moneyless parties need not answer. AUSTIN J. STURGEDON, Phila.



Patent BEDSTEAD FASTENING.
 The Best, Cheapest, and Strongest FASTENING ever invented. Rights for States and Territories for sale. Address JOHN DOMINGOS and BENJAMIN ESSIG, Sacramento, Cal.

Patents on Designs.
 Citizens and aliens can now secure design patents for three and a half years, and for twenty years. The law on this subject is very liberal. Foreigners, designers, and manufacturers, who send goods to this country, may secure patents here upon their new patterns, and thus prevent other makers from selling similar goods in this market. These patents cover all novelties of form or configuration of articles of manufacture. For further information address MUNN & CO., No. 37 Park Row, New York.