

Recent American and Foreign Patents.

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

SELF-ACTING SHACKLE AND CAR BRAKE.—Lyman Alphonzo Russell, Shrewsbury, Vt.—This invention relates to improvements in self-acting shackles and car brakes, and consists in an improved connection of the brakes with the shackle, for automatic operation, whereby the connection may be readily so adjusted that the brakes will not be set in action as when required to back up the train.

FEED BAGS FOR HORSES.—W. A. Hough, South Butler, N. Y.—This invention relates to a new and useful improvement in feed bags for horses, and consists in making the bag self-supplying, by means of one or more reservoirs, the discharge orifices of which reservoirs are closed by a valve or valves.

TRUSS.—Adam Hinoult, Montgomery, N. Y.—This invention has for its object to furnish an improved truss, which shall be so constructed as to yield freely to the various movements of the body of the wearer, while holding the rupture securely in place.

GOVERNOR FOR STEAM ENGINES.—Charles A. Conde, Indianapolis, Ind.—This invention relates to a new method of regulating the movement of the balls of a steam governor, with a view of adjusting the same in proportion to the increased or diminished centrifugal force.

CIRCULAR SAW GUARD.—G. W. Shipman, Ischua, N. Y.—This invention relates to a new and useful improvement in means for protecting the operator and others, near running circular saws, from injury, and it consists in a movable guard, operated by means of the saw carriage, in such a manner that, during the period of danger (when the saw is not cutting), the guard covers the saw, and is thrown back from the saw when the latter is in actual use.

CARPET-CLEANING MACHINE.—J. C. Craft, Baltimore, Md.—This invention relates to a machine, through which a carpet may be passed, and so beaten and brushed, during its passage, as to come out of the machine thoroughly cleansed. The invention consists in the peculiar construction and arrangement of beaters and brushes for effecting this result.

COMBINED COTTON AND CORN PLANTER.—L. A. Perrault, Natchez, Miss.—This invention relates to improvements in machinery for planting seed, and consists in a combination, in one machine, of a seed-dropping apparatus, adapted for corn, and another adapted for cotton, in a manner to utilize one running gear for the two kinds of seed, and thereby save the expense of separate gear for each.

LIME KILN.—T. A. Kirk, Kansas City, Mo.—This invention has for its object to furnish an improved lime kiln, which shall be so constructed as to enable the kiln to be worked from the front, in firing and in drawing the lime and ashes, which will not allow cold or unburnt rock to pass through, and which will consume its own smoke.

CAR BRAKE.—S. D. Tripp, Lynn, and Luther Hill, Stoneham, Mass.—This invention relates to improvements in railroad car brakes, and consists in an arrangement, on the locomotive or tender, of a steam cylinder and piston, and the arrangement, on the cars, in connection with the brakes, of sliding rods, so that the rod of the car next to the engine or tender, being moved backward by the piston rod of the above cylinder, will bring the brakes of the rear wheels down upon them, as well as the brakes of the tender, and slacken the speed thereby, so that the rear projecting end of the brake rod will come in contact with the rod of the next car, and set its brakes in action in like manner, and so on, throughout the train. The arrangement of the said brake actuating rods is such that no matter which end of the car is foremost, the wheels of one track will be acted on by the brakes.

COMBINED RULER, BLOTTER, AND PAPER CUTTER.—Hugh S. Ball, Spartanburgh, S. C.—This invention relates to a new and useful improvement in a combined ruler, blotter, and paper cutter, three articles indispensable for the desk, combined in one.

REED FOR ORGANS AND MELODEONS.—Augustus Newell, Chicago, Ill.—The object of this invention is to so construct the tongue-butts, or shanks, of musical reeds, that the same cannot, during the vibratory motion of the tongues, be raised from their seats.

ANTI-FRICTION COMPOUND.—Victory Purdy, Poughkeepsie, N. Y.—This invention relates to a new and useful compound for lubricating railroad car axle journals, and other journal bearings.

Queries.

[We present herewith a series of inquiries embracing a variety of topics of greater or less general interest. The questions are simple, it is true, but we prefer to elicit practical answers from our readers, and hope to be able to make this column of inquiries and answers a popular and useful feature of the paper.]

1.—EMERY WHEELS.—Can I make emery wheels similar to those used in a foot lathe, that will answer for sharpening fine tools, such as augers, rounds, and hollows, and if so, how shall I proceed?—F. W.

2.—BOILER FURNACE.—I have two boilers, twenty-four feet long and four feet in diameter each, with five ten-inch flues. The fire passes under the boiler, and enters the flues at the back end, passes through the flues, and enters the smoke stack at the front end. I use hard pine wood for fuel. Will some of your many readers give me the best way of constructing the flue under the boiler, from the end of the grate bars to where it enters the flues at the back end, and also state the proper distance from the back wall to the end of the boiler?—N. H.

3.—MEDAL CASTS.—I have some medals which I should like to copy. Having tried several times, and failed, I thought that I would ask advice through your query columns. I do not know of what the medals are manufactured. They are, I suppose, made to imitate bronze. I have tried casting them in plaster of Paris molds, but have had very poor success, as the surface of the medals was covered with small holes. The metal used was lead and antimony, seven to one. I should like to know, if there is any metal that I can cast them of, and bring out the bronze color afterwards, or if there be any metal that I can cast them of, and afterwards color by some solution. Also, of what should I make my molds?—J. E. M.

4.—REMOVING THE TASTE OF TAR FROM RAIN WATER.—Will some of your correspondents tell me if rain water, which runs off a gravel roof, and tastes very strongly of tar, is unhealthy, and if there be anything that will prevent its tasting, as it is very disagreeable for cooking purposes?—C. E. H.

5.—SORGHUM MOLASSES.—How can I separate the molasses from the sugar, in sorghum sugar mush, to make a dry merchantable sugar?

6.—FLUX FOR ALUMINUM.—Will some of your readers tell me, through your columns, the best flux to use in melting and mixing aluminum and copper?

Inventions Patented in England by Americans.

[Compiled from the Commissioners of Patents' Journal.]

APPLICATIONS FOR LETTERS PATENT.

- 350.—BRECH-LOADING FIRE-ARMS.—Eli Whitney, New Haven, Conn. February 10, 1871.
352.—GOVERNOR.—Stillman B. Allen, Mass. February 10, 1871.
357.—WINDMILL.—A. P. Brown, New York city. February 11, 1871.
352.—FURNITURE CASTERS.—F. A. Gardner and H. S. Turrell, Danbury, Conn. February 8, 1871.
359.—WIRE FABRICS FOR MATTRESSES.—Samuel Rogers, New York city February 9, 1871.

- 340.—SCREW PROPELLER CANAL BOATS.—Thomas Main, Pierpoint, N. Y. February 9, 1871.
362.—FLYER FOR SPINNING MACHINERY.—Thomas Mayor and Geo. Chatterton, Providence, R. I. February 14, 1871.
373.—TELEGRAPHIC APPARATUS AND DETECTORS.—W. B. Watkins, Jersey City, N. J. February 14, 1871.
381.—STEAM AND OTHER SAFETY VALVES.—Walter Dawson, Scranton, Pa. February 15, 1871.
383.—IRON RAILS AND BARS, AND MODES OF MANUFACTURING THE SAME.—Eldridge Wheeler, Philadelphia, Pa. February 15, 1871.

Official List of Patents.

ISSUED BY THE U. S. PATENT OFFICE.

FOR THE WEEK ENDING MARCH 7, 1871.

Reported Officially for the Scientific American.

Table with 2 columns: Description of patent fee and Amount. Includes SCHEDULE OF PATENT FEES, On each caveat, On each Trade-Mark, On filing each application for a Patent, etc.

For 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 a Brewer, but usually at the price above named. \$1

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 each case, may be had by addressing

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

- 112,309.—HOSE SPRINKLER.—William Anderson, San Francisco, Cal.
112,310.—LOCOMOTIVE SPARK ARRESTER.—J. G. Armstrong, New Brunswick, N. J.
112,311.—TOOL FOR CARRIAGE MAKERS' USE.—George Atkinson, San Francisco, Cal.
112,312.—POTATO PROBE.—John A. Beal, Waterford, N. Y.
112,313.—HINGE FOR CARRIAGE DOORS.—George W. Beers, Bridgeport, Conn.
112,314.—STOVE LEG.—James Birkhead, Jr., Baltimore, Md.
112,315.—CLOTHES PIN.—Orris A. Bishop, Chicago, Ill.
112,316.—MANUFACTURE OF ROCHELLE SALTS AND BORAX.—G. G. Bloede, Brooklyn, N. Y.
112,317.—BEEHIVE.—Felix Brewer, Waynesville, Mo.
112,318.—THRILL COUPLING.—Theodore Burr (assignor to Allen Muir and Henry Muir), Battle Creek, Mich.
112,319.—EVAPORATING PAN FOR SACCHARINE LIQUIDS.—F. C. Butler, Bellows Falls, Vt., assignor to himself and James B. Williams, Glastonbury, Conn.
112,320.—DOOR SECURER.—William H. Caldwell, Wheeling, W. Va.
112,321.—TOE-CALK BAR.—R. B. Caswell, Springfield, Mass. Antedated March 2, 1871.
112,322.—GLASS FLATTENING FURNACE AND LEER.—James Clabby, Lenox, Mass.
112,323.—SPRING BED BOTTOM.—Alex. Cole, Manamuskin, N. J.
112,324.—WATER WHEEL.—E. E. Coleman, West Cumington, Mass.
112,325.—TOY HORSE AND CARRIAGE.—John B. Cuzner, Bridgeport, Conn.
112,326.—MACKEREL-LINE HOLDER.—E. L. Decker, Southport, Me.
112,327.—SEWING MACHINE.—J. William Dufour, Stratford, Conn.
112,328.—STEAM BOILER.—Edwards Evans, North Tonawanda, N. Y.
112,329.—MEDICAL COMPOUND FOR CURE OF CATARRH AND ASTHMA.—Erastus Field, Ostrander, Ohio.
112,330.—MACHINE FOR GRINDING THE CUTTERS OF MOWERS, ETC.—H. C. Fisk, Wellsville, N. Y.
112,331.—MACHINE FOR MAKING HOOKS AND EYES.—Jeremy T. Ford, San Francisco, Cal.
112,332.—CHURN.—Thompson Freeman, Westfield, Ill.
112,333.—ATTACHMENT FOR REVOLVING MOLD BOARDS FOR PLOWS.—J. S. Godfrey, Leslie, Mich., assignor to himself and S. M. Lovelidge, Pittsburgh, Pa.
112,334.—GRAIN CLEANER AND FERTILIZER SIFTER.—J. A. Green, Mill Dale, Va.
112,335.—SCREW PROPULSION.—E. C. Gregg (assignor to A. H. Gregg and C. P. Gregg), Trumansburg, N. Y.
112,336.—SEEDING MACHINE.—F. M. Gundlach, Belleville, Ill.
112,337.—COMPOUND FOR KINDLING FIRES.—J. L. Hannum and S. H. Stebbins, Berea, Ohio.
112,338.—LAWN MOWER.—Benjamin Harnish, Lancaster, and D. H. Harnish, Pequea, Pa.
112,339.—COMPOSITION FOR PAVEMENTS.—C. B. Harris, New York city. Antedated February 25, 1870.
112,340.—SPRING FOR VEHICLES.—John R. Hiller, Woodland, Cal.
112,341.—HARVESTER RAKE.—S. T. Holly, (assignor to John F. Manny), Rockford, Ill.
112,342.—DOOR CLAMP.—Henry O. Hooper, Diamond Springs, Cal.
112,343.—TAPER HOLDER.—Thomas W. Houchin, Morrisania, N. Y.
112,344.—METALLIC GARTER.—Henry A. House, Bridgeport, Conn.
112,345.—BOBBIN WINDER.—Henry A. House, Bridgeport, Conn.
112,346.—METHOD OF KNITTING STOCKINGS, ETC.—Henry A. House, Bridgeport, Conn.
112,347.—APPARATUS FOR EVAPORATING AND CONCENTRATING LIQUIDS.—John Howarth, Salem, Mass. Antedated March 1, 1871.
112,348.—APPARATUS FOR EVAPORATING AND CONCENTRATING LIQUIDS.—John Howarth, Salem, Mass. Antedated March 1, 1871.
112,349.—APPARATUS FOR REMOVING OIL FROM VEGETABLE AND OTHER MATTERS.—Elias S. Hutchinson, Baltimore, Md.
112,350.—APPARATUS AND PROCESS FOR REMOVING OIL FROM GRAIN, SEEDS, ETC.—Elias S. Hutchinson, Baltimore, Md.
112,351.—CHANDELLIER.—Charles F. Jacobsen, New York city.
112,352.—CULINARY VESSEL.—Carrie Jessup, New Haven, Conn.
112,353.—MACHINE FOR CUTTING LEATHER.—Aberdeen Keith, North Bridgewater, Mass.
112,354.—ATTACHING KNOBS TO THEIR SPINDLES.—John F. Keller and Nathaniel Sehner, Hagerstown, Md.
112,355.—MITER MACHINE.—T. E. King, Boston, Mass.
112,356.—TAKE-UP FOR CORSET LOOMS.—Julius Kuttner, New York city.
112,357.—ELEVATOR AND CARRIER.—T. W. Lackore, Worth, Ill.
112,358.—APPARATUS FOR BURNING HYDROCARBON OILS.—James R. Lee, Grass Valley, Cal.
112,359.—BURGLAR ALARM.—Robert Lee, Cincinnati, Ohio.
112,360.—TELEGRAPH APPARATUS.—L. T. Lindsey, Jackson, Tenn.
112,361.—HARVESTER.—J. P. Manny, Rockford, Ill.
112,362.—HARVESTER.—J. P. Manny, Rockford, Ill.
112,363.—HARVESTER RAKE.—J. P. Manny, Rockford, Ill.
112,364.—CHEESE CURD SINK.—H. C. Markham, Collinsville, N. Y.
112,365.—MOWING MACHINE.—H. C. Markham and Dewitt C. Markham, Collinsville, N. Y.
112,366.—PROPELLER.—Alex. J. Marshall, Warrenton, Va. Antedated March 3, 1871.
112,367.—OILER.—Edward McDuff and E. D. Forrow, Warwick, R. I.

- 112,368.—WASH BOILER.—John McInnes, Oxford, Pa.
112,369.—PROPELLING CANAL BOATS.—H. B. Meech, Fort Edward, N. Y. Antedated February 25, 1871.
112,370.—WATER-PROOF COMPOUND FOR COATING CLOTH, WOOD, METALS, ETC.—Peter E. Minor, Schenectady, N. Y.
112,371.—COOKING STOVE.—W. N. Moore, Neenah, Wis.
112,372.—BORING MACHINE.—J. H. Pardebeck (assignor to himself and S. M. Brown), Acton, Ind.
112,373.—VAPOR BURNER.—R. W. Park, Philadelphia, Pa.
112,374.—MACHINE FOR POINTING BLANKS FOR CULTIVATOR TEETH.—John Pecker and George Abel, West Pittsburgh, Pa.
112,375.—BALE TIE.—J. E. Perkins, San Francisco, Cal.
112,376.—LINING WALLS WITH FELT, ETC.—James Phillips, Chicago, Ill.
112,377.—COOKING STOVE.—Samuel Pierce, Boston, Mass.
112,378.—TACK.—A. A. Porter, New Haven, Conn. Antedated Feb. 25, 1871.
112,379.—MACHINE FOR SHAPING AND CUTTING GEAR CUTTERS.—F. A. Pratt (assignor to the Pratt & Whitney Company), Hartford, Conn.
112,380.—COMBINATION CAMERA AND DEVELOPING BOX.—E. C. Ratzell, Philadelphia, Pa.
112,381.—PUNCHING MACHINE.—J. C. Rhodes, South Abington, Mass.
112,382.—WASHING MACHINE.—J. W. Ricker, Chelsea, Mass.
112,383.—CURTAIN FIXTURE.—Charles Robin, Chester, Conn.
112,384.—MACHINE FOR MAKING PRINTERS' LEADS.—Isaac Schoenberg, New York city.
112,385.—SLIDE VALVE FOR STEAM RIVETING MACHINES.—Coleman Sellers (assignor to William Sellers & Co.), Philadelphia, Pa.
112,386.—MACHINE FOR POLISHING THREAD.—Samuel Sempile, Sr., John Sempile, Samuel Sempile, Jr., and R. A. Sempile, Mount Holly, N. J.
112,387.—PAINT BRUSH.—F. S. Shearer, Washington, Ill.
112,388.—BEE HIVE.—S. A. Short, F. J. Short, J. B. Short, and Jasper Kile, Decatur, Ala.
112,389.—APPARATUS FOR REMOVING OIL FROM VEGETABLE AND OTHER MATTER.—Thomas Sim, Baltimore, Md.
112,390.—RETORT FOR PRODUCING BISULPHIDE OF CARBON.—Thomas Sim, Baltimore, Md.
112,391.—UTILIZING THE SILKY DOWN OF THE WILD COTTON.—M. H. Simpson, Boston, Mass.
112,392.—PRUNING SHEARS.—Frank Smiley, Batavia, N. Y.
112,393.—WATER-CLOSET VALVE.—A. J. Smith, San Francisco, Cal.
112,394.—GANG PLOW.—J. W. Sursa, San Leandro, Cal.
112,395.—GRINDING PAN AND AMALGAMATOR.—W. H. Thoss, West Point, Cal.
112,396.—STREET LANTERN.—Augustus Tufts, Malden, Mass.
112,397.—COOKING STOVE.—Alvin Warren, Swanton, Ohio.
112,398.—SAFETY BRIDLE.—James Weatherhead, San Jose, Cal.
112,399.—FIRE GRATE.—George Wellhouse, Akron, Ohio.
112,400.—HAY KNIFE.—G. F. Weymouth, Dresden, Me.
112,401.—CLAW BAR.—Charles Winter, Chillicothe, Ohio.
112,402.—STEAM GENERATOR.—J. C. Woodhead, Pittsburgh, Pa.
112,403.—ANIMAL TRAP.—W. D. Wrightson, Queenstown, England.
112,404.—BRUSH.—John Ames, Lansingburg, N. Y.
112,405.—CLOD FENDER.—F. L. Bailey, Freeport, Ind.
112,406.—RULER.—H. S. Ball, Spartanburgh, S. C.
112,407.—FANNING MILL.—Benjamin Barney, Time, Ill.
112,408.—ICE-CUTTING MACHINE.—Lafayette Barnum (assignor to himself and A. R. Hale), Bridgeport, Conn.
112,409.—MANUFACTURE OF ICE.—T. J. Bigger, Kansas City, Mo.
112,410.—MACHINE FOR HEADING BOLTS AND SPIKES.—Reinhold Becklen, Brooklyn, N. Y., assignor to himself and Henry Torstick, New York city. Antedated Feb. 25, 1871.
112,411.—WASHING MACHINE.—Joseph Boswell, L. M. Boswell, Jonathan Palmer, and J. H. James (assignors to themselves and Thomas Starbuck), Wilmington, Ohio.
112,412.—WATER WHEEL.—E. C. Boyles, New York city.
112,413.—COTTON PRESS.—R. M. Brooks, Pike county, Ga.
112,414.—PAPER-CUTTING MACHINE.—Samuel Brown (assignor to himself and C. R. Carver), Philadelphia, Pa.
112,415.—GOVERNOR FOR DIRECT-ACTING ENGINES.—A. S. Cameron, New York city.
112,416.—GOVERNOR FOR DIRECT-ACTING ENGINES.—A. S. Cameron, New York city.
112,417.—BUTT HINGE.—J. W. Carleton (assignor to the Union Manufacturing Co.), New Britain, Conn.
112,418.—MACHINE FOR CUTTING SHEET METAL.—C. R. Choate, East Saginaw, Mich.
112,419.—BIT BRACE.—William Cleveland, Lawrence, Mass., assignor to himself and James Swan, Seymour, Conn.
112,420.—STEAM ENGINE GOVERNOR.—C. A. Conde, Indianapolis, Ind.
112,421.—CARPET-CLEANING MACHINE.—J. C. Craft (assignor to himself and Antonio Rosello), Baltimore, Md.
112,422.—STEAM REGULATOR FOR PAPER DRYERS.—Daniel Crosby, Hampton, Me.
112,423.—METALLIC PISTON AND VALVE ROD PACKING.—G. M. Cruickshank, Providence, R. I.
112,424.—GRAIN-THRASHING AND SEPARATING MACHINE.—John Culham, Grand Rapids, Mich. Antedated Feb. 25, 1871.
112,425.—COOKING STOVE.—David Curtis, Mishawaka, assignor to himself and C. B. Graham, South Bend, Ind.
112,426.—LIGHTNING ROD.—S. D. Cushman, New Lisbon, Ohio.
112,427.—HOSE BRIDGE.—Patrick Daily (assignor to himself and J. J. Kehoe), New York city.
112,428.—COVER FOR OPENINGS IN SIDEWALKS.—William Dale, New York city.
112,429.—ROTARY PUMP.—F. O. Deschamps, Philadelphia, Pa.
112,430.—MACHINE FOR CUTTING FILES.—James Dodge, Manchester, England, assignor to David Blake, Spencertown, N. Y.
112,431.—COUPLING FOR RAILWAY CARS.—Henry Dubs and S. G. Goodall-Copestake, Glasgow, Great Britain.
112,432.—TOBACCO PIPE.—P. J. Dwyer, Elizabethport, N. J.
112,433.—BASKET FOR HOUSE PLANTS.—Albert P. Eastman, Washington, D. C.
112,434.—SULKY PLOW.—Milo A. Elliott, Stratford Hollow, N. H.
112,435.—STRETCHER FOR PAINTINGS.—James Fairman, New York city.
112,436.—BODY LANTERN HOLDER.—Samuel C. Fessenden, Stratford, Conn.
112,437.—STOVE LEG.—Aron L. Finch, Sing Sing, N. Y.
112,438.—PUMP PISTON.—John S. Follansbee and George Doolittle (assignors to the Forrester Manufacturing Company), Bridgeport, Conn.
112,439.—SHOE.—Samuel W. Francis (assignor to himself and W. H. Newton), Newport, R. I.
112,440.—GUARD-FINGER FOR HARVESTERS.—George Fyfe and Chester Harsh, Ottawa, Ill.
112,441.—DINING TABLE.—S. R. Gardner (assignor to himself and S. M. Marquette), Independence, Iowa.
112,442.—STEP LADDER.—M. Boland Geary, New York City.
112,443.—OILCLOTH PRINTING MACHINERY.—Ebenzer A. Goodes (assignor to Philadelphia Patent and Novelty Company), Philadelphia, Pa.
112,444.—TENONING MACHINE.—Lyman Gould, Norwich, Conn.
112,445.—PRINTER'S CASE.—Wm. H. A. Gresham, Atlanta, Ga.
112,446.—LAMP CHIMNEY.—Geo. W. Griswold, Factoryville, Pa.
112,447.—GRAIN SEPARATOR.—Philander Griswold, Hudson, Mich.
112,448.—CLAMP FOR THILL COUPLINGS.—John W. Guider (assignor to himself and John Kiefer), St. Joseph, Mo.
112,449.—BIRD CAGE.—Gottlob Gunther, New York city.
112,450.—STOP COCK AND VALVE.—William Haas, New York city.
112,451.—VALVE FOR STEAM ENGINES.—Joseph L. Harley, Baltimore, Md., and Xavier Fendrich, Georgetown, D. C.
112,452.—METALLIC HUB.—John H. Harper, Pittsburgh, Pa.
112,453.—COMPOSITION FOR LUBRICATING MACHINERY.—E. Q. Henderson (assignor to John C. Burroughs and Richard A. Springs), Charlotte, N. C.