of a fluted churn, and in the construction of the same with a peculiar double winged dasher.

MACHINE FOR BRANCHING ARTIFICIAL FLOWERS .- Ambrose Giraudat, New York city.-This invention relates to a new machine for securing branches, leaves, flowers, or other ornaments, to the stems of artificial flowers by means of two layers of threads applied to the wire stem. The small stems of the said branches, leaves, or flowers, are secured between the two layers of threads, of which the upper one is wound, in one or more threads, closely around the main stem.

BENCH VISE.-O. H. Gardner, Fulton, N. Y.-This invention consists in so shaping the shank of the rear jaw of a vise, that its lower pivot is in line with the center of the upper clamping plate, so that the said jaw will work on a center and not be thrown off the bench. The invention also consists in so shaping the shank of the front jaw, that the center of its ball will be in line with the face of the jaw, for the purpose of obtaining greater accuracy of motion.

PENCIL AND RUBBER HOLDER.-J. A. Kemmis, New Orleans, La.-This in vention relates to improvements in cases for holding pencils and rubbers designed to provide a convenient article for carrying in the pockets and for use. It consists in a peculiar arrangement of sliding spring pencil holder and spring rubber holder within a tubular case.

REAPING MACHINE.-Robert Morris, Salem, Ind.-This invention relates to improvements in reaping machines, having for its object to provide a simple and improved afrangement of means for obtaining the motion for the cutter bar; also an improved arrangement of means for raking and delivering the gavels; also, an improved arrangement for suspending the apron and cutter bar from the frame of the machine, so as to dispense with the wheels commonly applied at the outer side of the apron. .

Hoeing Machine.-H. W. Clapp, Northampton, Mass.-This invention onsists, first, in an arrangement upon a truck of two or more wheels, of Wo of more hoes or spades moving to and from the row, as the machine m ovesalong by motion derived from the truck wheels, so as to scrape or oe the earth up to the roots of the plants, the said spades or hoes being a ised above the ground when moving away from the plants, and down into contact with it when moving up towards it. The invention consists, secondly, in the combination with the said hoes or spades, of a shield for gathering the tops of the plants and holding them up, so as not to be cov ered or injured by the hoes. This invention consists, thirdly, in the com bination of the said hoes of cultivators, arranged to operate in the ordinary way, and provided with means for raising and lowering them; also for Glynn's Anti-Incrustator for Steam Boiler-The only reliable guiding one pair of the said cultivators, which run close to the plants, laterally by the feet, and it consists, fourthly, in certain arrangements of parts for working, guiding, and adjusting the spades and cultivators.

HAND-SPINNING MACHINE. - James Rice, Prairie Creek, Ind .- The object of this invention is to provide a hand-spinning machine, which may be readily adjusted as to hight, so that the operator may work it when either standing or sitting. It is also arranged by inclosing the gearing in a case for safety ane for a better appearance.

COTTON CULTIVATOR .- R. I. Draughon, Claiborne, Ala .- This invention consists of a pair of rotary cutters for working on each side of the row, and another rotary cutter for working transversely thereto, for chopping out the plants at intervals; the said rotary cutters being suspended from a frame on two wheels by vibrating supporting frames, having means for raising or lowering them, as required, and deriving rotary motion from the axle of the said two wheels; they are also arranged for adjustment obliquely for discharging the earth directly behind or laterally.

CRANK, AXLE, AND TREADLE FOR VELOCIPEDE.-McClintock Young, Frederick, Maryland.—This invention relates to a new manner of constructing treadles for velocipede cranks, with an object of making them both light and reliable, as well as of cheap construction, and to a novel construction of erank axle and crank to enable the latter to be formed on the

PRESS FOR MOLDING BOOT AND SHOE SOLES .- S. D. Tripp, Lynn, Mass .-This invention relates to a machine for molding or forming the soles of boots and shoes so that they slia!! correspond in shape with the last.

VELOCIPEDE.—George Louden, Brooklyn, N. Y.—This invention relates to a new and useful improvement in velocipedes, and consists in the method of applying the powerfor driving it.

EXPLOSIVE PROJECTILE.—John Jobson, Derby, England.—The object of this invention is to admit of the head, or fore end or part of the projectile being split or broken up into a number of definite forms or parts, and to facilitate the separation and distribution of parts composing the cylindrical or parallel portion or body of the projectile.

CRANK FOR HARVESTERS .- H. L. Wanzer, Lanesville, Conn .- The object of this invention is to furnish means for varying the velocity of the cutters of harvesters to accommodate the machine to the nature of the work and speed of the team; and also to compensate for the wearing away of the knives by grinding.

ELECTRO-MAGNET.-W. E. Davis, Jersey City, N. J.-The object of this invention is to so construct the spoels or cores of electro-magnets by a new system of winding the wires around them, that the electric current will move rapidly, and uniformly enter both spools, and thereby produce a more decisive action upon the same and the armature.

DITCHING MACHINE .- Henry Benett, Linden, Cal.-This invention consists of a large drum, having two endrims united by steel or other bars. suitable for cutters, arranged parallel with the shaft and pitched slightly out of the radial lines, between which are followers which receile and permit the cutters to settle into the earth to fill the spaces between them, and are then forced out to discharge the earth after it has been carried up by the wheel against a scraper following in the rear, and serving as a guide to preventthe discharge, until the earth has been carried to the proper point to be delivered to an elevating and spouting apparatus, which the invention

ENVELOPES .- F. W. Eberman, West Salem, Ill. - This invention consists in making the flap, which is folded over on the body part in sealing, of two thicknesses, either by folding the edges of the flap, (intended for the pur-pose) over on itself, or by pasting other narrow strips thereon, and arrangstrip of the outer edge free to be taken hold of by the thumb and finger for

BISCUIT PANS .- J. C. Milligan, Brooklyn, N. Y .- This invention relates to an improved mode of uniting small biscuit pans together in clusters, and consists in providing the said pans with horizontal flanges around the top, and joining them together in rows, lapping the flanges and riveting them, joining two or more rows together in right lines, in both directions. or in zigzag lines, as may be preferred. The invention also consists in binding the whole together by wires or other bars, extending around or along the sides of the clusters, at the outer edges of the outer pans, and turning the edges of the flanges over them.

STEAM CUT-OFF.-H. Lombard, San Francisco, Cal.-This invention consists of a hollow conical or tapered valve, receiving the steam at one end, and delivering it at one side to ports in a circular tapered seat, leading to the cylinder, and exhausting through the other side from the same ports. and at the end opposite the receiving end, which valve is provided with a central auxiliary valve connected with the governor, and operating to vary the opening of the live steam passage; also to separate the passage of the said valve longitudinally to form the live steam and exhaust passages.

PLOWS.-W.R. Pool, Havanna, Ala.-This invention relates to an improved method of fastening plows detachably to the stocks, for the purpose of changing them for plows or shares of different shapes and kinds for differ-

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On appeal to Commissioner of Patents. On application for Reissue. On application for Extension of Patent On granting the Extension.	20
On application for Reissue	30
On application for Extension of Patent	50
On granting the Extension	50
On alling a Disclaimer	10
On an application for Design (three and a half years)	10
On an application for Design (three and a nail years)	J.U
On an application for Design (seven years)	Ιà
On an application for Design (fourteen years)	30
In addition to which there are some small revenue stamp taxes. Residen	ts
of Canada and Nova Scotia pay \$500 on application.	
Or community and recording pay took on approximation.	

96,534.-Mode of Securing Type in Forms.-Samuel Anderson and T. J. Folan, Stapleton. N. Y. 96.535.—DOUBLE-ACTING PRESS FOR "BLANKING" AND

FORMING UP" SHEET METAL.—John Annear and Welphia. Pa. eliphia, Pa. 96,536.—Portable Fence.—Albert Armitage, Phelps town-

ship, and J. H. Olmsted, Arcadia, N. Y.
96,537.—APPARATUS FOR SHAPING EARTHENWARE.—J. H.
Baddeley, Greensborough, Pa.
96,538.—DETACHABLE BOOT AND SHOE HEEL.—C. W. Bailey,

Boston, Mass.
96,539.—GAS HEATER.—John Bannihr, Hempstead, N. Y.
96,540.—DITCHING MACHINE.—Henry Benett, Linden, Cal.
96,541.—STEAM TRAP.—Samuel Bonser, Dover, N. H. 96,542.—RAILWAY CAR BRAKE.—M. S. Borthwick, Montana

10wa. 96,543.—Organ-Stop Handle.—Wm. Boyrer, New York city. 96,544.—Fastening for Buttons.—Edward Brady, Philadel-

96,545.—FAUCET-CONNECTION.—T. H. Brady, New Britain, 96,546.—SEED PLANTER.—James Campbell (assignor to himself and William Campbell), Harrison, Ohio.
96,547.—WATER ELEVATOR.—G. W. Carpenter, Butler, Ind.
96,548.—CHAIR.—Jefferson Chase, Orange, Mass.

96,549,-Hound Machine.-H. W. Clapp, Northampton,

96,550.—Kite.—Samuel Clark, New York city. 96,551.—HINGE FOR A DOOR OR WINDOW FRAME OF A STOVE.

—T. J. Coulston, Springville, assignor to E. S. Shantz, and Joseph Johnson, Royer's Ford, Pa.
96,552.—BOILER-TUBE CLEANER.—P. H. Coyle, Newark, N. J.

96,553.—JACQUARD MECHANISM FOR LOOMS.—E. K. Davis, New York city, assignor to Duckworth & Sons, Pittsfield, Mass. 96,554.—ELECTRO-MAGNET.—W. E. Davis, Jersey City, N. J.

96,555.—LATERAL OR DIVERGING CONNECTION FOR CEMENT WATER PIPES.—Edwin Dayton, Meriden, Conn.
96,556.—CARDING MACHINE.—James Dempster and Henry Holcroft, Media, Pa.
96,557.—STREET CAR STARTER.—T. S. E. Dixon (assignor to humself and W. H. Payne), Janesville, Wis.
96,558.—COFFEE-POT.—Johnson Dodge, New Orleans, La.
106,559.—Hogg Bridge—William Donoghue and F. L. Charl.

96,559.—Hose Bridge.—William Donoghue and F. L. Charl-

ton, Philadelphia, Pa.
96,560.—BALANCE SLIDE-VALVE.—David Dorman, Wheatland Furnace, Pa., assignor to himself and Thomas Johnston. 96,561.—FENCE.—J. G. Downer, Auburn, N. Y. 96,562.—COTTON CULTIVATOR.—R. I. Draughon, Claiborne

96,563.—HARNESS PAD.—Charles Drew, Newark, N. J.
96,564.—LOOM FOR WEAVING TAPE, ETC.—James Duckworth
(assignor to Duckworth & Sons), Pittsfield, Mass.
96,565.—APPARATUS FOR GENERATING AND CARBURETING
GASS.—C. F. Dunderdale, New York city.
96,566.—ENVELOPE.—F. W. Eberman, West Salem, Ill.
96,567.—PRINTING TELEGRAPH APPARATUS.—T. A. Edison
(assignor to S. S. Laws), New York city.
96,568.—CAPSTAN.—Jacob Edson, Boston, Mass.
96,569.—BRIDGE.—Samuel Ensign, New Franklin, Ohio.
66,570.—LOOM FOR WEAVING PILE FABRICS.—LeviFerguson,
Lowell, Mass.

Lowell, Mass. 96,571.—EAR OF WOODEN BUCKETS.—L. A. Fleming, New York city. Antedated Nov. 1, 1869.
96,572.—MANUFACTURING SHOVELS.—John Fox, New York

96.573.—WATER-WHEEL.—J. G. Fredenburr and W. V. An-

drews, Newcastle, Cal. 96,574.—FLY NET.—John Frymire, Orangeville, Pa

96,574.—FLY NET.—John Frymire, Orangevine, Fa.
96,575.—Coulter for Plows.—Conrad Furst, Chicago, Ill.
96,576.—HORSE HAY RAKE.—Horatio Gale, Albion, Mich.
96,577.—PRINTING PRESS.—Merritt Gally, Rye, assignor to
Allen Carpenter, Rochester, N. Y.
96,579.—PRINTING PRESS.—Merritt Gally, Rye, assignor to
Allen Carpenter, Rochester, N. Y.
96,579.—PRINTING PRESS.—Merritt Gally, Rye, assignor to
Allen Carpenter, Rochester, N. Y.
96,579.—Orange Garden, Falton, N. Y.
Antedeted Name

Allen Carpenter, Rochester, N. Y.
96,580.—VISE.—O. H. Gardner, Fulton, N. Y. Antedated Nov.
1, 1869.
96,581.—HEAD BRACE FOR COFFINS.—Joseph Gawler, Wash-

105.552.—MACHINE FOR BRANCHING ARTIFICIAL FLOWERS.—
96.553.—MACHINE FOR BRANCHING ARTIFICIAL FLOWERS.—
Ambrose Giraudat, New York city.
96.583.—MANURE HOOK OR DRAG.—Henry Gross, Middletown, Pa. Antedated Oct. 26, 1869.
96.584.—BUTTER TUB.—J. M. Hale, Georgia Plains, Vt. Antedat Nov. 1, 1860. tedated Nov. 1. 1869.

tedated Nov. 1, 1869, 96,585.—PIPE COUPLING.—J. M. Hale, Georgia Plains, Vt. 95,586.—CORN PLANTER.—J. A. Hamrick, Parnassus, Va. 96,587.—MANUFACTURE OF ARTIFICIAL AND PRESERVATION OF NATURAL FLOWERS.—E. S. Harris, Philadelphia, Pa.

96,588.—STOVE GRATE.—David Hathaway, Troy, N. Y.

96,589.—SLED.—R. H. Hawkins, Akron, Ohio, assignor to himself and T. H. Dodge, Worcester, Mass. 96,590.—BEER COOLER.—August Hitscherich, Milwaukee,

Wis.
96,591.—DIAMOND HOLDERS FOR ENGRAVING PRINTERS ROLLERS.—John Hope (assignor to Hope & Co.), Providence, R. I.
96,592.—WATER WHEEL.—Franklin Hoyt, Montpelier, Vt.
96,593.—GANG PLOW.—James B. Hunter, Ashley, Ill.
90,594.—Punching and Shearing Machine.—William H. Ivens and Wm. E. Brooke, Trenton, N. J.
196,595.—Explosive Projectile.— John Jobson, Derby, England.
96,596.—SAW SWAGE.—Nelson Johnson, Jasper, N. Y.
196,596.—PRINCIL CASE.—J. A. Kommis, Naw Orleans, La

96,597.—PENCIL CASE.—J. A. Kemmis, New Orleans La. 96,598.—FOUNTAIN PEN.—J. Gardner Kenyon, Ferndale,

96,599.—Toilet Bedstead.—George V. Leicester, Boston,

96,600.—METAL-ROLLING APPARATUS. — John Lippincott, Pittsburgh, Pa. 96,601.—Rotary Steam Valve.—H. Lombard, San Francis-

co, Cal. 96,602.—CORN HARVESTER.—Charles B. Maclay, Delavan, Ill.

96,602.—CORN HARVESTER.—CHRITES D. MACKAY, DELAVARI, J. 96,603.—PADDLE WHEEL.—James Mahony, Newport, R. I. 96,604.—CHURN.—C. J. Miller, Jr., Richmond, Ky. 96,605.—BISCUIT PAN.—John C. Milligan, Brooklyn, N. Y. 96,606.—HARVESTER.—Robert Morris, Salem, Ind.

96,607.—STEAM RADIATOR.—James O. Morse, Englewood, N. J., and Gardner D. Hiscox, Brooklyn, N. Y. 96,608.—GOVERNOR FOR STEAM AND OTHER ENGINERY.—M. Murphy, Charlotte, N. C. 96,609.—STRAW CUTTER.—Harrison Ogborn, Richmond, Ind. 96,610.—WHIFFLETREE.—Anson W. Payne, Maine, N. Y. 96,611.—THRASHING MACHINE.—William H. Perry, Ripley, Obio.

Ohlo.

96,612.—Rock-drilling Machine.—George B. Phillips (assignor to A. M. Cernell & Co.), Poughkeepsie, N. Y.

96,613.—HEAT RADIATOR.—S. Montgomery Pike, Cincinnati, Ohio. Antedated October 23, 1869. 96,614.—PLOW—Wm. R. Pool, Havanna, Ala.

96,615.-Mode of Transmitting Motion.-Nelson Read, Jewett City, Conn. 96,616.—WINDOW-SASH FASTENING.—Samuel Reed. Rising

Sun, Md. 96,617.—BOILER TUBE CLEANER.—John E. Regan, Chicago, 96,618.--TAP COCK.-Claude Renard, Michel Perret, and Jules

96,624.—LATCH.—George A. Seaver, New York city.
96,625.—Weeding Hook.—Thomas J. Secor and Charles E. Shumway, Phelps, N.Y. Antelated October 26, 1869. 96,626.—OIL CAN.—Franklin Skinner, Cleveland, Ohio.

96,627.—Door Knob.—Thomas J. Sloan, Bronxville, N. Y. Antedated October 30, 1869.
96,628.—RAILWAY-RAIL SPLICE.—Jasper Snell and John M. Crosland, Pottsville, Pa. 96,629.—Endless-chain Water Wheel.—H. S. Stewart,

Treka, Cal. 96,630.—GRAIN CLEANER.—Jacob Stroop, Joliet, Ill. 96,631.—WIND WHEEL.—Isaac H. Sutton, Coon Rapids

96,632.—MANUFACTURE OF WATCH CASES.—Chas. L. Thiery

96,632.—MANUFACTURE OF WATCH CASES.—Chas. L. Thiery Boeton, Mass.
96,633.—PROCESS AND APPARATUS FOR CONVERTING CASTRON INTO STEEL.—Alois Thoma, New York city.
96,634.—ENAMEL OR GLAZE FOR POTTERY, BRICK, TILES ETC.—Wm. S. Thomas, Carbon Clift, Ill.
96,635.—WHEEL FOR SELF-MOVING CARRIAGES.—Robert William Thompson, Edinburgh, Great Britain. Patented in England April 21, 1868.
96,636.—TRACTION ENGINE.—George N. Tibbles, Hudson City. N. J. City, N. J.

96,637.—SIGNAL LANTERN.—David Todd, Detroit, Mich. 96,638.—MACHINE FOR SHAPING BOOT AND SHOE SOLES.— s. D. Tripp, Lynn, Mass.

REISSUES.

96,639.—Device for Molding Soles of Boots and Shoes. 96,702.—Book Holder.—G. P. Johnson, Webster's Grove, 96,758.—Knife Guard.—T. T. Woodward (assignor to T. B. -S. D. Tripp, Lynn, Mass. 96,640.—DISTILLING ALCOHOLIC LIQUORS.—S. F. Van Choate, 96,641.—CABLE AND TESTING POST FOR SUBTERRANEAN TELEGRAPHS.—Silvanus Frederick Van Choate, Boston, Mass. 96,642.—KNIFE CLEANER.—Wm. Vine, Norwalk, Conn. 96,643.—CRANK FOR HARVESTERS.—Hiram L. Wanzer, Lanes-96,643.—CRANK FOR HARVESTERS.—Hiram L. Wanzer, Lanesville, Conn.
96,644.—WINDOW FRAME.—Otis Ward, Sunderland, Vt.
96,645.—LAMP BURNER.—Wm. Westlake, Chicago, Ill.
96,646.—MANGLE.—James B. Westwick, Galena, Ill.
96,647.—HAY ELEVATOR.—E. L. Yancy, Batavia, N. Y.
96,648.—CRANK AXLE FOR VELOCIPEDES.—McClintock Young, Frederick, Md.
96,649.—APPARATUS FOR CARBONIZING PEAT.—John Adams, Rochester, N. Y.
96,650.—Compound Veneer and Ornamental Covering For Articles.—Robert A. Adams, New York city.
96,651.—Sash Lock.—P. A. Altmaeir, Harrisburg, Pa.
96,653.—CENTERING TOOL.—Williston I. Alvord, Bridgeport, Conn. 96,654.—INDIA-RUBBER PACKINO.—A. C. Andrews (assignor to The Water Proof Sole Company), New Haven, Conn. 96,655.—COMPOSITION PANEL FOR DOORS.—Russell B. Anerews, Poland, Me. 96,656.—CARRIAGE WHEEL.—Simeon Atha, West Liberty, Ohio. 96,657.—MOTIVE POWER.—Albert M. Bacon, Boston, Mass. 96,658.—GREEN CORN SHELLER.—Volney Barker, Otisfield, 96,659.—WOOD-TURNING LATHE.—A. T. Barnes and N. M. Barnes (assignors to themselves and Tiffin Agricultural Works), Tiffin, Ohio.

96,660.—HARVESTER.—Samuel D. Bates, Lewisburg, Pa. 96,661.—PROCESS FOR COLORING MUSLIN, PAPER, ETC.— Frederick Beck, New York city. 96,663.—WAGON SEAT.—Wm. Beers, Milan, Ohio. 96,663.—CALORIC STREET ROLLER.—M. J. Bendall, New York city. 96,664.—LAMP.—Newton Benedict, Washington, D. C. 96,665.—CORSET SPRING.—A. Bennett, New York city. 96,666.—Gas Rance.—A. L. Bgoart, New York city. 96,666.—GAS RANGE.—A. L. Bgoart, New York city.
96,667.—CORN PLOW.—W. H. Bott, York, Pa.
96,668.—BEE HOUSE.—D. Burbank, Lexington, Ky.
96,669.—JEWELRY BOX.—L. L. Burdon, Providence, R. I.
96,670.—COUPLING FOR VEHICLES.—Upson Bushnell, Cleveland, Onio. Antecated Oct. 27, 1899.
96,671.—CARDING ENGINE.—John Butterworth and Jas. Butterworth, Trenton, N. J.
96,672.—FLOATING DOCK.—Jas. Campbell, Founders' Court, London England. Clinton county, Ind. 96,676.—Shuttle for Looms.—George Crompton, Worces. ter, Mass. 96,677.—Shuttle for Looms.—George Crompton, Worces ter, Mass. 96,678.—Sash Holder.—R. M. Dalbey, Springfield, Ohio. 96,679.—Slaw or Cabbage Cutter.—D. F. Dietrich, Noblesville, Ind. 96,680.—PLOW.—H. B. Durfee, Decatur, Ill. 96,681.—AUTOMATIC ELECTRICAL SWITCH FOR TELEGRAPH APPARATUS.—T. A. Edison, New York city.

96,682.—Hose Pipe.—Jacob Edson, Boston, Mass.

96,683.—Sadiron.—T. G. Eiswald, Providence, R. I.

96,684.—Device for Bending Railroad Rails.—G. D. Emerson, Calumet, Mich. 96,685.—CORSET STEEL.—John L. Fitzpatrick, Waterbury, -Spring Bed Bottom.-Julius Fox, Abion, Mich 96,687.—PAPER BOSOM.—E. P. Furlong, Portland, Me. 96,688.—Composition for Manufacture of School Slates. -G. B. Garland, Gardiner, Me. 96,689.—FASTENING FOR BUTTONS.—Benendikt Geiger and Herman Wocher (assignors to themselves and J. J. C. Smith), Philadelphia, Pa. Antedated Nov. 4, 1869. phia, Pa. Antegates Nov. 2, 1005. 96,690.—Martingale Ring.—W. F. Gilbert, Birmingham, Conn. 96,691.—Photography.—Frederick Glessner (assignor to himself and John Stanton), Cincinnati, Ohio. 96,692.—Bøbein Winder for Sewine Machine.—Thos. Hall, Brooklyn, N. Y. 96,693.—CHURN DASHER.—M. A. Hamilton, Detroit, Mich. 96,694.—Pushing Jack for Railroads.—Jesse Hamme, 96,695.—MACHINE FOR BENDING BAG FRAMES.—Geo. Havell, Newark, N. J. Antedated Nov. 1, 1869.
96,696.—WASHING MACHINE.—Chas. Hedges and C. S. Strayer, Bloomington, Ill.
96,697.—SAWING MACHINE.—N. F. Hersh, Round Hill, Pa.
96,698.—FIRE ESCAPE.—John Heuermann, Davenport, Iowa. 96,699.—UPSET, PUNCH, SHEARS, AND SAW-GUMMING DEVICE.

S. D. Hicks (assignor to himself and J. C. Wilcox), New London, 96,700.—Tool for Opening Boxes.—L. D. Howard, St. Johns-

96,705.—DETACHING HURSES FROM CARRIAGES.—E. I. Colles, Shell Mound, Miss.
96,704.—MACHINE FOR SUPPLYING AIR TO CARBURETERS.—Patrick Kelley, Dayton, Onio.
96,705.—PRESSURE GAGE.—Henry J. H. King, Glasgow, Great Britain.
96,706.—SPRING BED BOTTOM.—P. W. Kniskern, Fort Smith, Ark., assignor to himself and J.S. Tilton, Springfield, Mo. 96,707.—Street Lamp.—J. H. Kramer and Alois Burger, New York city.

96,708.—ROCKING HORSE.—Gustav Lautenschlager (assignor to himself and Alexander S. Paterson), Cincinnati, Ohio. Antedated Oct. 29, 1869.

96,709.—Apparatus for Warming and Cooling Apart-96,710.—APPARATUS FOR WARMING AND COOLING APA:
MENTS.—W. A. Lighthall, New York city.
96,710.—FIRE LADDER.—Albert Lotz, Franklin, Tenn.
96,711.—ASH PAN.—C. H. Low, Cleveland, Ohio.
96,712.—BEEHIVE.—G. W. Lowry, Lavansville, Pa.
96,713.—SEWING MACHINE.—Lucius Lyon, New York city. 96,714.—MACHINE FOR CUTTING OFF THE ENDS OF CIGARS.— John G. Maier and C. W. Schaeffer, Baltimore, Md. Antedated Oct. 29, 1869. 96,715.—CRACKER MACHINE.—Cyrus Marsh, 2d, Natchez, 96,716.—PAD SADDLE.—Robert McClary, Crestline, Ohio 96,717.—PATTERN FOR STOVE CASTINGS.—B. H. Menke, Cincinnati, Ohio. 96,718.—Belt Tightener.—Rufus N. Meriam, Worcester, Mass.
96,719.—FENCE.—Cyrus Milner, Des Moines, Iowa.
96,720.—ANTI-FRICTION Bex.—Joseph L. Parry (assignor to himself and Samuel Zane; assignors to themselves and E. H. Bailey),
Philadelphia, Pa.
Philadelphia, Pa.
Philadelphia, Pa.
Philadelphia, Pa.
Philadelphia, Pa.
Philadelphia, Pa. Philadelphia, Pa. 96,721.—PROCESS FOR PURIFYING PYROLIGNEOUS AND ACETIC ACIDS.—C. C. Parsons, New Yorkcity. Autedated Oct. 27, 1869. 96,722.—RAILWAY CATTLE CAR.—Edward Payne and J. D. Cleghofn, Chicago, Ill. 96,723.—WINDOW SHUTTER.—Eliab Perkins, Fond Du Lac, 96,724.—EXCAVATOR.—A. E. Pierce, Gilroy, Cal. 96,725.—DISH DRAINER.—H. F. Pond, Franklin, Mass. 96,726.—FAUCET ATTACHMENT OR CASK STOPPER.—Chas. Raggio Memphis, Tenn. 96,727.—ELEVATED RAILWAY.—William H. Rand, Brook 191.N.Y. 96,728.—Machine for Rolling Plane Irons.—A. R. Reynolds, Auburn, N. Y.
96,729.—ROTARY STEAM ENGINE.—Frank Rhind, Brooklyn,
N. Y. Antecated Nov. 3, 1869.
96,730.—LATHE CHUCK.—John Rich, Painesville, Ohio. 96,731.—WAGON STANDARD.—Ceo. Richards, Richland Center, Wis. Antedated Oct. 30, 1869.
96,732.—CAR COUPLING.—J. N. Robbins, Goshen, Ohio.
196,733.—SULKY CULTIVATOR.—Richard B. Robbins, Adrian, London, England.

96,673.—INKSTAND.—W. E. Carlile, New York city.
96,674.—Saw Teeth.—Edward Colson, Fort Wayne, Ind.
96,675.—WEATHER STRIP.—G. W. Cretors and Enos Hoover,
96,674.—Apparatus for Raising Sunken Vessels.—W. D. Robinson, Buffalo, N. Y. 96,735.—SUBMARINE ROCK-DRILLING MACHINE.—S. Frank-96,735.—SUBMARINE ROCK-DRILLING MACHINE.—S. Franklin Schoonmaker, New York city. Antelated Nov. 3, 1869,
96,736.—GRINDING OR HULLING PLATE FOR GRINDING OR
HULLING MILLS.—Henry Shaw, Cincinnati, Ohio.
96,737.—SHIELD FOR ARMS OF RAILWAY CAR SEATS.—O. L.
Smith, Providence, R. 1.
96,738.—COMPOSITION FOR PREVENTING RADIATION AND CONDUCTION OF HEAT,—James Spence, Newcastle-upon-Tyne, Great Britain, assignor to John Chalmers, New York city. 96,739.—Hoe.—Spencer Springstead, Westchester, N. Y. 96,740.—Weeding Implement.—S.Springstead, Westchester, 96,741.—HAY TEDDER.—Joseph A. Talpey, Somerville, Mass. 96,742.—APPARATUS FOR CLIPPING HORSES AND OTHER ASS.
96,742.—APPARATUS FOR CLIPPING HORSES AND OTHER ASS.
Dec. 2,1868.
96,743.—STOVE GRATE.—Charles Truesdale (assignor to him self and Wm. Resor & Co.), Cincinnati, Ohio. 96,744.—Animal Trap.—J. L. Tusten, Winona, assignor to Mrs. E. S. Tusten, Carrollton, Miss. 96,745.—Whip Socket.—James Twamley, New York city. 96,746.—MFCHANICAL MOVEMENT.—A. Van Guysling, West Albany, N. Y. 96,747.—VALVE PROTECTOR.—Joseph E. Watts, Lawrence 96,748.—Pencil Sharpener.—W. N. Weeden, Boston, Mass. assignor to George Merritt, New York city.

96,749.—CAR COUPLING.—D. G. Whitmore, Bridgewater, assignor to himself and Osborn Wilson, Monterey, Va. 96,750.—BED BOTTOM.—George Widdicomb, Grand Rapids, -Firearm.-Jacob Widmer, Newark, N. J. 96,752.—CENTRIFUGAL MACHINE FOR DRAINING SUGAR.—
Hyman Augustine Wilder, Millville, assignor to G. L. Squier, Buffalo,
N.Y.
WINDOW SCREEN AND BLIND.—Benj. J. Williams, Philadelphia, Pa.

96,754.—ADJUSTABLE WINDOW SCREEN.—Benj. J. Williams,
Philadelphia, Pa.

96,755. REDUCING ORES.—C. D. Williams and W. H. Nobles, 756.—MACHINE FOR GRINDING CORRUGATED KNIVES.-I. B. Wilson, New York city. 96,756 J. B. Wilson, New York city.

96,757.—PLOW AND CULTIVATOR COMB.—C. J. Woods and J. A. Phillips, Centreville, Ind. 96,701.—Sash Holder.—Joshua Howland, Ashland, Ohio.

Smith Manufacturing Co.), Ansonia, Conn. 96,759.—COMBINED BAG HOLDER AND SCALE.—Wm. Zim-96,703.—DETACHING HORSES FROM CARRIAGES.—E. P. Jones, 96,760. Pump. Otto Zwietusch, Milwaukee, Wis. 84,681.—FRICTION CLUTCH PULLEY.—Dated Dec. 8, 1868; reissue 3,713.—A. B. Clemons, Ansonia, Conn.
78,427.—RING FOR SPINNING MACHINES.—Dated June 2, 1868; reissue 3,714.—George Draper and W. F. Draper, Hopedale, Mass., assignees of W. T. Carrell.
94,096.—DRAWER OR TRAY.—Dated August 24, 1869; reissue 3,715.—Maurice Fitzgibbons, New York city, for himself and R. S. Jennings, assignee of M. Fitzgibbons.
12,791.—MANG PLOW.—Dated May 1, 1855; extended seven years; reissue 3,716.—T. J. Hall, Bryan, Texas.
46,437.—MECHANISM FOR CONVERTING ROTARY MOTION years; reissue 3,110.—

46,437.—MECHANISM FOR CONVERTIME
INTO OSCILLATING MOTION.—Dated Feb. 7, 1865; reissue 3,111.—
Hornig, Chicago, Ill.

62,342.—TOOL FOR MANUFACTURING PAPER BAGS.—Dated Feb. 26, 1867; reissue 3,718.—E. J. Howlett, Philadelphia, Pa., assignee of himself and Susan Kirk.

20,042.—HARVESTER CUTTER GRINDER.—Dated August 13,

Keeling, Amwell, Ohio.

SPINDLES.—Dated on himself and Susan Kirk.

33,048.—HARVESTER CUTTER GRINDER.—Dated August 13,

1861; reissue 3,719.—E. F. Keeling, Amwell, Ohio.

38,406.—ATTACHING KNOBS TO THEIR SPINDLES.—Dated
May 5, 1863; reissue 1,707, dated June 21, 1864; reissue 3,720.—E. Parker,
New Britain, Comi. 77,542.—WATER METER.—Dated May 5, 1868; reissue 3,721. -Thomas Parsons, Brookline, Mass., assignee of Gerard Sickles. 65,607.—BREECH-LOADING FIREARM.—Dated June 11, 1867; reissue 3562, dated July 20,1869; reissue 3,722.—B. S. Roberts, United States Army. 62,729.—LIFTING HANDLE FOR COFFINS, ETC.—Dated March 12, 1867; reisage 3,723.—Sargeut & Co., New Haven, Conn., assignees of 1867; reissue 3,723.-rmort Bradford. 79,905.—Machinery for Making Wire Heddles.—Dated July 1,1868; reissue 3,724.—E. T. Hertle and Richard Thompson, New York city. York city.

22,572.—SPECTACLE FRAME.—Dated Jan. 11, 1859; reissue 3,725.—Albert Lorsch, Memphis, Tenn., assignee of T. Noel.

74,555.—SAFETY ATTACHMENT FOR UMBRELLAS.—Dated February 18, 1868: reissue 3,726.—Edmund Wright, John Wright, Joseph Wright, and John Noble, Philadelphia, Pa., and J. H. Filson, New York city, assignees of J. A. Lieb and E. W. Crane. 58,962.—STEAM SAFETY VALVE.—Dated Oct. 16, 1866; patented in England Jan. 21, 1864; reissue 3,727.—E. H. Ashcroft, Boston, Mass., assignee of William Naylor. 3,742.—LEG AND TREADLE OF A SEWING MACHINE.—Charles Greiff, New York city, assignee to Wilcox & Gibbs Sewing Machine Company. Company. 3,743.—Printers' Type Case Stand.—N. C. Hawks, Milwaukee, Wis. 3,744.—DRAWER PULL.—E. J. Steele (assignor to P. & F. Corbin), New Britain, 3,745.—ELEVATION -ELEVATOR BUCKET.—J. Storms and H. Dorer, Buffalo, 3,746.—Bridle Bit.—J. B. Hoover, New York city. 3,747.—TRADE MARK.—David Neumann, New York city.
3,748.—Convex Lidof A Dish or Tureen, etc.—Thomas Young, Philadelphia, Pa.

3,749.—LETTER Box Cover.—Charles William Zaremba,
Chicago, Ill.

EXTENSIONS.

LOOM.—J. O. Leach, of Ballston Spa, N. Y.—Letters Patent No. 13,724, dated Oct. 30, 1855.

LOOM.—J. O. Leach, of Ballston Spa, N. Y.—Petters Patent No. 13,724, dated July 8, 1856. Additional improvement No. 147.

LOOM.—J. O. Leach, of Ballston Spa, N. Y.—Letters Patent No. 13,724, dated March 3, 1857. Additional improvement No. 159.

LOCK.—Sarah A. Holmes, administratrix of R. G. Holmes, deceased, and W. H. Butler, New York city.—Letters Patent No. 13,722, dated Oct. 30, 1855.

POLICEMAN'S RATTLE.—Joseph McCord, of Philadelphia, Pa.—Letters Patent No. 13,823, dated Nov. 20, 1855.

DESIGNS.

EXTENSIONS.

Inventions Patented in England by Americans.

[Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS

2,916.—FORM OF WHEEL FOR PROPELLING SHIPS, AND APPLICABLE ALSO TO PUMPS FOR RAISING OR FORCING WATER.—C. T. Finlayson, Albany, Ore-gon, and A. C. Loud, San Francisco, Cal. October 7, 1869. 2,989.-Nail Making Machine.-F. Davidson, Richmond, Va. Octobe 9

2,945.—INDICATOR FOR STEAM BOILERS.—G. B. Massey, New York city October 9, 1869. 2,957.-PERMANENT WAY OF RAILWAYS.-G. P. Rose, Elmira, N. Y. Oct 11, 1869.
3,065.-BELT JOINTS.-P. Murray, Quebec, Ontario. October 12, 1869.

3,005.—SEWING MACHINE.—A. Porter, Rochester, N. Y. Oct. 15, 1869 3,022.—Apparatus for Heating and Delivering Metal Bars.—S. A Darrach, Newburgh, N. Y. October 16, 1869.

3,040.—Sacking and Frames for Bedsteads and Couches.—G. C. Perkins, Hartford, Conn. Oct. 18, 1869. 3,041.—NUTS FOR BOLTS.—R. Pratt, Worcester, Mass. Oct. 18, 1869

3,043.—HEATING APPARATUS.—S. A. Hill and C. F. Thumm, Oil City, Pa. October 19, 1869.

3,058.—Purifying Metals.—Edward Brady, Philadelphia, Pa. October 20, 1869.

3.061.—Preserving Animal or Vegetable Substances from Decay.— N. Herraray Obes, Montevideo, Uruguay, S. A. Oct. 20, 1869.

3,106.—Machinery for Manufacturing Brushes.—B. Lavary, New Haven, Conn. Oct. 26, 1869.

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