### Recent American and Loreign Latents.

Under this heading we shall publish weekly notes of some of the more prom inent home and foreion patents.

APPARATUS FOR FORCING WATER .- James M. Rucker, Forrest Depot, Va.-This invention consists in the combination of a subterranean reservoir, so situated that it may receive water from the surrounding earth, with a pipe for introducing air under pressure into the upper part of the reservoir, a pump for supplying such air and putting the requisite pressure upon the same, and with a second pipe for conducting the water forced out part is made of wood to allow the nailing on of planks, etc. the reservoir by the pressure of the introduced air to the spot where it is needed.

Hoisting Jack .- Frank Hollenberry, Frizellburgh, Md.-This invention consists of a stationary upright frame provided with a centrally vertical sliding bar, which is raised and lowered by means of two levers, one of which serves to hold the bar at the hightto which it had been raised, while the other is taking a fresh hold, both levers operating upon the bar through the medium of clamps which bite the bar, one when pressure or weight is applied to the bar and the other when pressure is applied to the lever.

MACHINE FOR CUTTING SLATS FOR WINDOW BLINDS .- John W. Helder, Shannon, Md. - This invention has for its object to cut from a piece of wood of any dimensions a splint or slat of the proper width and thickness, such slat passing off through the stock in the same way that shavings are conducted away in an ordinary plane.

SHEAVE BLOCK .- Thos. H. Rice, Baltimore, Md.-This invention consists of friction rollers, mounted in boxes, which are placed in both the inner sides of a pulley block in such manner that the rollers project inward beyoud the surfaces of the sides, so as to prevent the sheaves from coming in contact with the block, and wearing the same away.

TILE-CUTTING MACHINE.-Oscar F. Monfort, Dearborn, Mich.-This in vention relates to improvements in machines for cutting the tile as it issues from the tile machine in continuous form into short sections, and consists in the application to the carrying table between two endless belts of a fine wire or steel-plate cutter, stretched between an arm and a shaft, by which the arm is revolved so as to be revolved around the shaft and forced through the tile while moving along, the cutter being arranged to move with the tile, while cutting, and back again after cutting, and the arm which supports the swinging end of the cutter being arranged to pass between the cut sections. The invention also comprises a carrying table, for passing the cut pieces beyond the arm which supports the cutter suspended on the shaft, and held in position by a weight, so that the arm which carries the cutter may pass around it.

RAILROAD SWITCHES. - J. H. Stockton, Thompson, Ga. - This invention re lates to improvements in railroad switches, and consists in the application to the switch rails or the bars, for moving them of ia weight, and suitable levers or gears, and a holding and tripping lever, so that the tripping bar or lever being moved by the wheel of the advancing locomotive will trip the weight and let it fall to close the switch.

MAINSPRING WINDER.-Michael D. Kelly, Cadiz, Ky.-This invention relates to improvements in tools for winding the mainsprings of watches and inserting them in the barrels, and consists in a pair of bars pivoted together at one end by a compass or rule point, and having a semicircular recess at the free ends for the reception of the spring, to be coiled therein hy a winding shaft of any kind, and the said bars are provided with gaging springs to vary the depth of the recesses; also with pins for gaging the recess to receive the spring and for controlling the relation of the winder  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ with the winding shaft. The said bars are also provided with an opening spring and closing screw.

DIAPER PINS .- Isaac W. Stewart, New York city .- This invention relates to improvements in the construction of dianer nins, and consists in an improved mode of constructing the shield and attaching it to the pin.

PRESSES .- G. W. Swinebroad, Bolivar, Tenn .- This invention relates to mprovements in hay, cotton, and other presses, and consists in operating the follower by means of levers, links, gripping blocks, and vertical bars, the gripping blocks working on the vertical bars.

WATCHMAKERS' TOOL .- Michael D. Kelly, Cadiz, Ky .- This invention relates to improvements in tools for watchmakers' and repairers' use, for holding the watch plates and other articles, also for holding the tools with which the work is done in all operations now commonly done in a lathe, such as drilling, milling, jewel setting, freeing, gaging, pinion centering, uprighting, and the like. The said improved tool is also applicable for the uses of an anvil.

MACHINE FOR TURNING AXLETREES .- William H. Heffley, Rochester Ind .- This invention has for its object to construct a machine for turning the ends of axletrees so that the same will correspond exactly with the pindles or thimbles into which they are to be fitted. The invention consists chiefly in providing a mechanism, whereby the inner form of the thimble is exactly transferred to the outer side of the axle, that is to say a set of levers whose ends are pressed against the innerface of the thimble control the cutters which turn the axle.

TRUSS PADS.—Dr. S. S. Ritter, Philadelphia, Pa.—This invention consists in a new method of manufacturing pads for trusses, whereby the time and expense of the same are materially reduced as compared with that attend ing the ordinary method.

SPRING WAGON SEAT.-G. W. Diller, Odell, Ill.-The object of this invention is to furnish an improved device for attaching springs of wagon seats to wagon boxes or bodies, whereby the strain upon the springs and box shall be greatly lessened and also other obvious advantages obtained.

FENCE.-William Bartlett, Little Hocking, Ohio.-This invention relates to a zigzag or worm fence, and consists in posts planted at an inclination all leading inward or toward the vertical plane cutting centrally length wise of the fence for the purpose of rendering the fence firmer than as though the posts were upright.

CORN HUSKER-S. L. Bligh, Sandy Lake, Pa. - The object of this invention is to construct an instrument by means of which the husking of corn can be accomplished in an easy and expeditious manner.

HAIR TRIGGER ATTACHMENT TO FIRE-ARMS .- Joseph Deutz, San Antonio Texas.-This invention relates to a new hair trigger attachment which is applicable to fire-arms of all kinds, and of such simple construction that it will be reliable and durable.

BARBER'S FURNITURE .- Otto Stoelker, Montgomery, Ala .- This invention relates to a new apparatus which is to be set up in barber shops with an object of economizing time and labor, and preventing waste of material.

MOLDING CUTTER HEAD .- Darius Stevens, Danbury, Conn .- This invention has for its object to furnish an improved cutter head for holding the cutters for forming moldings, which shall be simple in construction, convenent in use, and will hold the cutters securely.

FAN BLOWER.-John Ericsson, New York city.-This invention relates to a new multiplying fan blower of that class in which a series of wings are rotated between a series of diaphragms for compressing the air by centrifugal force, and utilizing it in the compressed state for suitable purposes. The invention consists chiefly in the use of a rotary case and stationary shaft instead of the rotary shaft and stationary cases heretofore employed. The necessity of constructing the case in sections, so as to enable the introduction of the several wings that are mounted upon the shaft, is thus overcome and the case may be made in one single piece, and consequently much cheaper than the ordinary blower now in use. The amount of rotating surface gained by making the case revolve adds also considerably to the efficiency of the machine.

CAR COUPLING .- J. H. Johnson, Dresden, Mo.-The object of this invention is to provide a coupling for railroad cars whereby the inconvenient links and the necessity of handling the same can be dispensed with. The be varied as it descends in the process of cutting the ditch: and secondly invention consists in making the coupling boxes or main and saw heads serve the purposes of links, so that those of two cars can be locked together bymeans of a horizontal coupling pin dropped in from above

LATH SAWING MACHINE.-J. J. Knowlton, Philadelphia, Pa.-This invention relates to a new construction of machine for sawing laths, pickets etc., and consists in the application of vertically adjustable guides, which hold the sawed pieces and prevent them from springing or twisting on the saws. The invention consists also in setting the feed rollers at an angle,  $\it i.~e.$ , slightly oblique, so that they will crowd the stuffagainst the stationary guide or fence, and thereby the requisite straight guidance will be ob-

FENCE POST .- O. L. Larkin, Otto, N. Y .- This invention has for its object to reduce the expense and increase the durability of fence posts, and consists in making the foot or lower part of each post of metal, while the upper

DRAIN AND WATER-PIPE MACHINE.-John W. Stockwell, Portland, Me. -This invention has for its object to furnish a simple and convenient machine for forming drain and water pipes, which shall be so constructed and arranged as to pack the material uniformly throughout the length of the pipe.

GUIDE FOR CIRCULAR SAWS .- Alexander Middlebrook, Glasgow, Mo. This invention relates to a new guide for circular saws, which is so constructed that the pins can be simultaneously moved in the same direction without requiring to be directly handled. The hands of attendants will thereby be kept from dangerous contact with the saw.

STEAM GENERATOR .- Joseph A. Miller. New York city.-The object of this invention is to construct a steam generator, which will insure a thorough circulation of the water, to expose the same to all the heating surfaces, and in which the steam will be effectually separated from all water that may arise with it into the upper steam passage. The invention consists in the application to a vertical or inclined water and steam chamber of a series of continuous circulating pipes, of which each enters the chamber with both ends. Each pipe receives water at the lower, and discharges steam at the upper end, and the steam is therefore produced by the circulation of the water through the said pipes.

COFFEE MILL.-F. C. Richer. Gilmer, Texas.-The object of this invention is to simplify the construction of upright coffee grinders, so that the same can be made cheaper and stronger than heretofore. The invention consists in constructing the entire mill of three pieces, the grinder being one, while the case or shell is made of two parts.

HAY LOADER.-William H. Gray, Ashfield, Mass.-This invention relates a new and useful improvement in machines for loading hay, whereby that laborious operation is performed by horse power, and in the most expeditious manner.

SELF-ACTING COMPRESSION FAUCET .- Edward Noble, North Haven Conn.-This invention relates to a new and useful improvement in faucets, and consists in an arrangement whereby the faucet valve is closed by the pressure of the fluid, and opened by means of a lever and inclined plane.

PORTABLE GAS-PIPE VISE.-Thomas Marshall, Paterson, N. J.-This invention has for its object to furnish an improved portable vise for holding gas pipes, while being cut off; or having screw threads cut upon their ends, and which shall be so constructed that the workman can convenient ly carry it in his bag, and which may be readily attached to a bench, table or other support.

VINE CUTTER OR TRIMMER.-H. W. White, Joppa Village, Mass.-This invention has for its object to furnish an improved implement for cutting or trimming the runners from strawberry vines, planted in hills, which shall be so constructed as to cut off all the runners from the hill at a single operation, and which shall at the same time be simple in construction, ef fective in operation, and conveniently operated.

SLIDE CHUCKFOR LATHES .- C. F. Stackpole, Woburn, Mass .- This invention has for its object to furnish an improved slide chuck for lathes, designed more particularly for holding cranks while being turned, but equally applicable for holding other work, and which shall be simple in construction, and easily adjusted.

SEPARATOR ATTACHMENT FOR THRASHING MACHINES.-Moses A. Keller, Littlestown, Pa.-This invention relates to timprovements in grain separating and winnowing apparatus, and consists in a straw carrier, composed of long bars, carrying teeth and short bars, mounted near each  $\ end\ to\ crank$ shafts, which move them up and down, and forward and back, over an ascending table, composed of transverse slats or bars with spaces between, made adjustable to vary the spaces, which let the grain and chaff through to an endless carrier, which takes it up to the hopper of the winnower, arranged under the case of the carrier. The said case and the case contain ing the straw-carrying attachment, are made in two parts, and arranged for detaching the carrying apparatus to use the winnower alone. The inven tion also comprises a regulating apparatus for the winnower, to open or close the air passages, and a straw-carrying attachment. It also comprises certain improvements in driving gear for working a secondary strav carrier.

AXLE GAGE.-Rollin C. Kelly, Brandon, Wis. - This invention relate to a new and useful improvement in apparatus for obtaining the true bevel for the arms of the axles of wheeled vehicles.

STEAM BOILER .- D. A. Morris. New York city .- This invention relates to new and important improvements in steam boilers, whereby they are made much more safe, durable, and effective than boilers of ordinary constructions tion.

MACHINE FOR MAKING MATCH SPLINTS .- Denslow Burhaus, Burlington Iowa.—This invention relates to a new and useful improvement in machines for making splints for lucifer matches, whereby that operation is greatly facilitated.

Pouncing Machine.-John Rosenkranz, Boston, Mass.-This invention relates to a new and useful improvement for machines for pouncing hats whereby the labor is greatly lessened and the operation is performed in the most thorough and expeditious manner.

BEDSTEAD FASTENING .- P. Maulding and John U. Fraley, Marshall, Texas. -This invention relates to a new and useful improvement in mode of fastening the rails to the posts of bedsteads, whereby many of the objections to the ordinary bedstead fastening are obviated.

TURNING AND SCREW-CUTTING LATHES .- Philip H. Pitts, Waverly, Mo.-This invention relates to improvements in turning and screw-cutting lathes, and consists in a lathese arranged that hy shifting some of the parts it may be readily adjusted either for turning or cutting screw threads on bolts.

STEAM PUMPING ENGINE.-Thomas E. Blunt, Brookfield, Ohio.-This invention relates to a new and useful improvement in steam steam pumping engines, and consists in exhausting the steam from the engines into the discharge pipe of the pump, thereby making a condenser of the discharge, and materially increasing the efficiency of the engine.

SLIDING DOOR FOR STREET CARS .- Daniel R. Hart, St. Louis, Mo.-This in vention has for its object to furnish an improved sliding door for that class vention has for its object to furnish an improved shaing according to that class

11.
of street cars known as the fare-box car, and which has heretofore been 106,355.—HAY LOADER.—W. H. Gray, Ashfield, Mass. made with a swinging door and covered step, so to render said cars more convenient in use, both for driver and passengers.

SPRING RED BOTTOM.-Chas. T. Baade, Brooklyn, N. Y .- This invention relates to improvements in the construction and arrangement of spring-bed bottoms in which long wood slats or springs are used in combination for the head and center of the hottom, the foot ends of the wood springs heigh arranged to rest on a wood bolster or cross-piece oft he frame, and the head ends being bent and suitably shaped to be used in substitution to the stuffed bolsters sometimes used.

DITCHING PLOW .- S. S. Wood, Brooklyn, N. Y .- This invention relates to new and useful improvements in plows for cutting ditches for laying drain tile, draining off water, or other purposes, and consists, firstly, in a device for adjusting the beam vertically, so that the pitch of the plow may in an adjustable branch handle, on the standard handle, by means of which the attendant is enabled to guide and control the plow, as it descends, while walking on the surface of the ground.

### Official List of Latents.

## Issued by the United States Patent Office

FOR THE WEEK ENDING August 14, 1870. Reported Officially for the Scientific American

SCHEDULE OF PATENT OFFICE FEES

106,302.—LAMP BURNER. — Benjamin F. Adams, Boston Mass. 106,303.—Lamp Burner. — Benjamin Franklin Adams

Boston, Mass.

106.304.—EQUALIZING THE MAINSPRING OF TIME-PIECES.—J'P. Adams, Ipswich, Mass.

106.305.—CUTTING APPARATUS FOR HARVESTERS.—Henry C Aydelott. Carthage, Ind.

106.306.—HARNESS-OPERATING MECHANISM FOR LOOMS.—
Lohn Achworth North Andover Mass.

John Ashworth, North Andover, Mass. 106,307.—Sewing Machine.—M. M. Barnes, North Adams, Mass. 106,308.—Stone-Sawing Machine.—Charles Bateman, Baltimore, Md. 106,309.—Top Plate of Cooking Stove.—Milton Bennet,

Dayton, Ohio.

106,310.—CHISEL FOR CUTTING GAINS.—Hiram Bigelow, skownegan, Me. 106,311.—HAND CORN HUSKER.—S. L. Bligh, Sandy Lake,

106,312.—Steam Pumping Engine.—T. E. Blunt, Brookfield,  $106,\!313.\mathrm{--Compound}$  for Fertilizer.—Gustave Bourgate,

New York city. 106,314.—FOOT MEASURE.—John C. F. Bremser, St. Louis, 106,315.—HINGE.—J. D. Brown, Madisonville, Ohio.

106,316.—Spring Bed Bottom.—C. T. Baade, Brooklyn,

106,317.—Device for Leveling Billiard and other TABLES, RTG.—B. W. Bull, New York city.

106,318.—TABLE.—Ernst Brucker, Old Tappan, N. J.

106,319.—Machine for Making Match Splints.—Denslow

Burbaus, Burlington, Iowa.
106,320.—COMBINED DRILL AND SEEDING MACHINE.—J. E. Buxton, Owattona, Minn. Antelated July 2, 1870.
106,321.—PADDING FOR HARNESS.—James Cormac and Alex

Stobbs, Hector, N. Y. 106,322.—MANUFACTURE OF RESIN SOAP.—D. B. Chapman,

New London. Conn. 106,323.—TABLE KNIFE.—Matthew Chapman, Greenfield, Mass. 106,324.—Protecting Safes and Vault's from Burglars.

—C. T. Chester, Englewood, N. J.

106,325.—POST - OFFICE CABINET FOR SUNDAY - SCHOOL
AND OTHER ROOMS.—Wm. M. Clark and Alexander Clark, Pittsburgh, 106,326.—Well Bucket.—Alvens J. Clemens, Aberdeen,

Miss. 106,327.—ROOFING FELT.—W. B. Coates (assignorforone half his right to Joseph Leeds), Philadelphia, Pa. Antedated August 4, 1870. 106,328.—Garter.—Charles Coester, Jr., and Jas. L. Moore,

Bridgeport, Conn. 106,329.—Straw Cutter. — Samuel Colahan, Cleveland,

106,330.—Approach Gate.—S. H. Cole, East Enterprise, Ind. 106,331.—PADDLE WHEEL.—R. H. Connelly, Philadelphia,

106,332.—Stretcher for Picture Frame.—J. D. Crocker, Norwich, Conn. 106,333.—COMPOUND FOR CURE OF COUGHS, ETC.—John

Cushions, Wellington, Ohio. 106,334.—LOOM.—H. D. Davis, North Andover, Mass.

106,335.—Sheave.—H. D. Davis, North Andover, Mass.

106,336.—Horse Hay Rake.—S. L. Denney, Christiana, Pa. Antelated August 5, 1870.

106,337.—Gun Lock.—Joseph Deutz, San Antonio, Texas.

106,338.—Spring Seat for Vehicles.—G. W. Diller, Odell

106,339.—PITMAN CONNECTION FOR HARVESTERS.—Joseph Dixon and M. B. Sampson, Eddyville, Iowa. 106,340.—EXTENSION TABLE SLIDE.—William Donoghue, Philadelphia, Pa. 106,341.—Hame for Harness.—Wm. Duncan, Spring Hill,

Ind. 106,342.—Harvester Rake.—Wm. T. Eastes, Summitville,

106,343.—Invalid Chair and Lounge.—William T. Eastes Summitville, Ind. 106,344.—Plow.—Isaac Eastwood, Lanark, Ill.

106,345.—Recording Pressure Gage.—Jarvis B. Edson, Brooklyn, N. Y. 6 346.—India-rubber Shoe.—Lewis Elliott, Jr., and George H. Fowler (assignors to L. Candee & Company), New Haven Conn.

106,347.—Manufacture of Wrought and Puddled Iron. -William Ennis, Philadelphia, Pa.

106,348.—FAN BLOWER.—John Ericsson, New York city. 106,349.—Bench Vise.—G. M. Evans, Pittsburgh, Pa.

106,350.—Raisin Seeder.—H. G. Fiske (assignor to Geo. L Taylor and Dwight Holland), Springfield, Mass. 106,351.—HINGE.—Charles Gaylord, Washington, D. C.

106,352.—OVEN.—D. J. George, Arcade, Ind. 106,353.—TABLE-LEAF SUPPORTER.—George L. Gerard, New

Haven, Conn. 106,354.—CULTIVATOR.—John L. Graham, Bentley Station,

106,356.—Buckle with Button-Hole Attachment.—B. J Greely, Boston, Mass. 106,357.—APPARATUS FOR RAKING AND BINDING GRAIN.—

T. K. Grimth, Redstone, Pa. Antedated August 4, 1870.
106,358.—Steering Apparatus.—Charles Godfrey Gumpel, No. 49 Leicester Square, London, England. Patented in England Nov 2, 1889.

106,359.—Machine for Preparing Apples for the Manu FACTURE OF CIDER.—G. B. Hamblin, Willimantic, Conn. 106,360.—GEARING AND SELF-ADJUSTING SHAFT.—George B.

Hamlin, Willmantic. Conn.

106,361.—Wheel Hub.—J. B. Hards, Chirago, Ill.

106,362.—Door for Street Cars.—Daniel R. Hart,St. Louis

Mo. 106,363.—LAMP BURNER.—H. W. Hayden (assignor to Holmes, Booth & Haydens), Waterbury, Conn.

106,364.—MACHINE FOR TURNING AXLE TREES.—William H.
Heffley (assignor to himself and David Barb), Rochester, Ind.

106,365.—MANUFACTURE OF IRON AND STEEL. -James Hen-

Ibos. Paris, France. 106,367.—RAILWAY CAR COUPLING.—J. H. Johnson, Dresden, 106,368.—KEY HOLE GUARD.—J. H. Jones, Binghamton, 106.369.—Egg Carrier.—E. E. Joseff, St. Louis, Mo. 106,370.— EGG CARRIER.—E. E. JOSEH, St. LOUIS, MO. 106,370.— SEPARATOR ATTACHMENT TO THRASHING MACHINES.—M. A. Keller, Littlestown, Pa. 106,371.— WATCH MAKING TOOL.—M. D. Kelly, Cadiz, Ky. 106,372.—Device for Winding Mainsprings of Watches. M. D. Keily, Cadiz, Ky. M. D. Keily, Cadiz, Ky.

106.373.—AXLE GAGE.—R. C. Kelly, Brandon, Wis.

106.374.—LATH MACHINE.—J. J. Knowlton (assignor to himself and W. H. Burr), Philadelphia, Pa.

106.375.—FENCE POST.—O. L. Larkin, Otto, N. Y.

106.376.—HARROW AND CULTIVATOR.—John Lerch, Uhlersville Pa 106,377.—BEE HIVE.—Volney Leonard, Springfield, Pa. 106,378.—RAILWAY CARRIAGE.—A. R. Locke, Boston, Mass. 106,379.—CARRIAGE JACK.—David Marshall, Northville, Mich. 106,380.—PORTABLE GAS-PIPE VISE.—Thomas Marshall, Paterson, N. J.

106,381.—Corset Spring.—F. W. Marston, Philadelphia, Pa.

106,382.—Bedstead Fastening.—Pres. Maulding and J. U. 106,383.—GALVANIC BATTERY.—E. D. McCracken, New York 106,384.—Paint Brush.—Alvid McDonald and J. M. White, Washington, Ill. 106,385.—Horse Hay Rake.—G. M. L. McMillen, Dayton, Ohio.

106,386. — Mosquito-Net Holder. — Charles Messenger, Cleveland, Ohio.

106,387. — Cuide For Circular Saw.—Alexander Middle-brook, Glasgow, Mo., assignor to himselfand J. B. Ruthvin.

106,388. — Steam Generator.—J. A. Miller, New York city.

106,389. — Carbureting Apparatus. — Joseph Millward, Favetteville. N. Y. Fayetteville, N. Y. 106,390.—Tile Cutting Machine.—O. F. Monfort, Dearborn, 106,391.—Veneering Press.—John More, New York city. 106,392.—STEAM GENERATOR. D. A. Morris, New York city. 106,393.—Box.—John Nelson, Rockford, Ill. 106,394.—Self-Closing Compression Faucet.—Edward Noble, North Haven, Conn.

106,395.—FANNING MILL.—Harrison Ogborn, Richmond, assignor to Samuel Watson, Lewisville, Ind.

106,395.—PIANO ACTION.—C. F. Oliver, Lynn, assignor to Nathaniel Cummings, Boston, Mass.

106,397.—GROUND PULVERIZER.—E. A. Olleman, Mooresville, Ind.

106,398.—HAND STAMP.—W. E. Osborn, Brooklyn, N. Y.

106,399.—CAR COUPLING.—W. R. Patton (assignor for one-half his right to Denison Tisdale), Des Moines, Iowa.

106,400.—tavernor for STEAM ENGINE.—A. J. Pevey (assumer for three-fourths of his right to G. F. Pottle), Boston, Mass.

106,401.—REFRIGERATOR.—Eliab Perkins, Fond du Lac, 106,402.—Box for Bluing, etc.—A. F. Pickens, New York 106,403.—School Desk.—J. F. Piehl, Richmond, Ind. 106,404.—LATHE.—P. H. Pitts, Waverly, Mo. 106,405.—RAMROD STOP.—S. W. Porter, Springfield, Mass. 106,406.—WAGON BRAKE.—Asahel Quimby, Salem, Mass. 105,407.—COFFEE MILL.—F. C. Richer, Gilmer, Texas. 106,408.—PORTABLE IRON DERRICK.—Samuel Rider (assignor to nimself, S. R. Griffith, and A. W. Cox), oil City, Pa.
106,409.—POUNCING MACHINE.—John Rosenkranz, Boston, 106.410.—Stove Pipe Damper.—W. F. Rossman, Hudson 106,411.—FARM GATE.—C. W. Saladee, St. Catharines, Canada. 106,412.—Railway Car Brake.—E. W. Sandford, Brooklyn, 106,413.—PARLOR GRINDSTONE.—J. M. Simpson, Oshkosh 106,414.—Washer and Boiler.—John Slater, Norwich, N. Y. 106,415.—TATTING SHUTTLE.—C. H. Smith, Brooklyn, N. Y. assignor to himself and T. D. Day, Bergen Point, N. J. 106,416.—CURTAIN FIXTURE.—R. I. Smith, deceased, Wolcotville, Com.; Elisha Turner, executor. 106,417.—COTTON AND HAY PRESS.—W. M. Smith, Augusta, 106,418.—ELECTRO-MAGNET.—W. W. Smith, Cincinnation 106,419.—Machine for Making Chain-Links.—J. H. Sny der, Troy, N. Y. 106,420.—SLIDE CHUCK FOR LATHES.—C. F. Stackpole, Woburn, Mass.
106,421.—CUTTER-HEAD FOR PLANING MACHINE.—Darius Stevens, Danbury, Conn. 106,422.—DIAPER PIN.—I. W. Stewart. New York city. 106,423.—RAILWAY SWITCH.—J. H. Stockton, Thompson, Ga. 106,424.—WA'TER PIPE MACHINE.—J. W. Stockwell, Portland, Maine. 106,425.—BARBERS' FURNITURE.—Otto Stoelker, Montgom ery, Ala. 106,436.—Clasp for Lightning Rods.—Richard Street, Al. bany, N. Y. 106,427.—Press for Hay, Cotton, etc.—G. W. Swinebroad, Bolivar, Tenn.

106,428.—Beverage, or "Champagne' Mead."—A. S. Taylor, San Francisco, Cal.

106,429.—Gear for Carpet-Sweeping Machines.—G. F 106,429.—GEAR FOR CARPET-SWEEPING MACHINES.—G. F TAYLOR, New York city.
106,430.—DREDGE BOX.—A. F. Tripp, Buffalo, N. Y.
106,431.—SAW-FILING MACHINE.—William Tucker, Fiskedale, Mass., assignor to himself and P. A. Saell, Pittsburg, Pa. I
106,432.—REVERSIBLE CENTER PINION FOR WATCHES.—Almon Twing, Waltham, Mass.
106,433.—PUMP.—Henry Van Keuren, Jersey City, N. J.
106,434.—RAILWAY.—Horace S. Weaver, Freeport, Pa.
106,435.—BASE-BURNING STOVE.—A. G. Webster (assignor to himself and G. T. Scudder), Troy, N. Y. to himself and G. T. Scudder), Troy, N. Y. 106,436.—CORN HUSKER.—Dwight F. Welsh, Bucyrus, Ohio 106,437.—VINE CUTTER AND TRIMMER.—H. W. White, Joppa illage, Mass 106.438.—SAW-JACK.—Abel Whitlock, Danbury, Conn. 106,439.— MACHINERY FOR WORKING HIDES, SCOURING LEATHER, ETC.—T. R. Williams, Salem, jassignor to Chester Guild, Jr., Boston, Mass.
106,440.—PRESS FOR BAILING BROOM CORN.—W. J. Wilson, Coles county, Ill. Antedated July 30, 1870. 106,441.—ROTARY STEAM PLOW.—J. T. Wilson, Rochester, 106,442.—Stove or Furnace Grate.—G. A. Wing, Albany, 106,443.—DITCHING PLOW.—Stephen Sidney Wood, Brooklyn, 106,444.—HAY SPREADER.—Gilbert I. Wooster, Plymouth, 106.445.—PORTABLE BATH SEAT.—Allen P. Young (assignor for one half his right to Albert H. Spencer), Providence, R.1. 106,446.—QUILTING-FRAME HOLDER.—Nicholas Young, Parma Mich. 106,447.—Wood Pavement.—Andy M. Adams, Washington D.C. 106.448.—Manufacture of Glue. — William Adamson, Philadelphia, Pa.

106,449.—MANUFACTURE OF WHEELS.—E. A. Archibald, Methuen, Mass.

106,450.—MANUFACTURE OF POCKET-BOOKS.—James C. Arms, Northampton, Mass.

106.451.—MANUFACTURING ENVELOPES.—James Ball, New

106,452.—EJECTOR AND STEAM CONDENSER.—Andrew Bar-

York city, assignor to himself and Samuel Raynor & Co.

106,366.—MANUFACTURE OF BOOT AND SHOE SOLES.—Eugene | 106,453.—Churn Dasher.—Henry F. Bartlett, La Grange, 106,454.—Automatic Lubricating Sleeve.—S. R. Bartlett Chicago, Il.
106,455.—FENCE.—William Bartlett, Little Hocking, Ohio.
106,456.—Mode of Attaching Sleigh-Bells to Straps. |
W. E. Barton, East Hampton, Conn. 106,457.—COOKING APPARATUS.—Henry C. Berry, Wauseon, Ohio.
106,458.—Machine for Cutting off Shafts and Pipes and for Cutting Screw Threads.—George Blake, Whitby, Canada.
106,459.—Last for Machine-Sewed Turned Shoes.—L. R. 106.460.—DINING TABLE.—Minor P. Boyd, Unionville, S. C. 106,461.—Toy Toad.—G. E. Bringman, Baltimore, Md. 106,462.—Bread Toaster.—Heman P. Brooks, Waterbury, Conn. 106,463.—Dentists' Chair.—William M. Butler, Louisville, 100 404.—COMBINED SHOVEL AND DUNGFORK.—Jesse Carpenter, Niconza, Ind. 106,465.—PRESERVATION OF MEAT AND OTHER ARTICLES OF FOOD.—Ferdinand Cassel, Cologne, Prussia.

106,466.—MACHINE FOR SPINNING FLAX, HEMP, ETC.—H. A. Chapin. Bridgeport, Conn., assignor to William Sparks Thomson, New York. 106 464.—Combined Shovel and Dungfork.—Jesse Car 106 467.—Wrench.—Sylvanus Chapman, Charlestown, Mass. 106,468.—BLOCK FOR CARPET PRINTING.—Thomas Crossly Bridgeport, Conn.
106,469—Axle Box.—David Dalzell, South Egremont, Mass.
106,470.—Axle for Vehicles.—David Dalzell, South Egremont, Mass.

106,471.—RAILWAY CAR COUPLING.—Jonathan L. Devol and Atwell L. Peadro, Parkersburg. West Va. Antedated August 4, 1870.

106,472.—PERMUTATION LOCK.—Charles Diebold and Jacob, Obernesser (assignors to Chas. Diebold and Jacob Kienzie), Cincinnati, Ohio. 106,473.—VEGETABLE KNIFE.—Fred. Durand and Wm. F. 106,474.—MEDICAL COMPOUND FOR THE CURE OF GRAVEL.—
T. G. Eiswald, Providence, R. I.
106,475.—WRENCH.—Henry Fessler and Robert V. Jones (assignors to themselves and J. D. Graben, Canton, Ohio.
106,476.—BRUSH FOR CLEANING TUMBLERS.—Adolph Fischer, New York city.
106,477.—LOOM FOR WEAVING RATTAN.—S. L. Fitts (assignor to G. C. Winchester), Ashburnham, Mass.
106,478.—CULTIVATOR.—Julius Gerber, Rockford, Ill.
106,479.—COMPOSITION TO BE USED IN DYEING.—Franz Graudner. Evansville, Ind. Graupner, Evansville, Ind.

106,480.—RAILWAY SWITCH.—James T. Guthrie and Louis Pausch, Leesburg, Ohio.

106,481.—RUFFLING ATTACHMENT FOR SEWING MACHINES.
—H. M. Hall, New York city.

106,482.—STALK AND KINDLING-WOOD CUTTER.—George B. Hauslin, Williamantic, Conn. 106,483.—Horse Power.—George B. Hamlin, Williamantic, 106.484.—FRUIT DRYER.—Henry Henley, Shoals, Ind. Ante-106,484.—FRUIT DRIEK.—Heart Market August 4, 1870.

106,485.—HOISTING JACK.—Frank Hollenberry (assignor to himself and John C. Frizzell), Frizzellburg, Md.

106,486.—JOURNAL BOX.—John Hughes, New Berne, N. C. 106,487.—Coupling for Wire Rigging.—Wm. C. Ireland, 100,487.—COUP: ING FOR WIRE RIGGING.—Wm: C. Ireland, Boston, Mass.
106,488.—Shoe.—Joseph L. Joyce, New Haven, Conn.
106,489.—HEMMING AND FELLING DEVICE FOR SEWING Machines.—Jacob Karr, Washington, D. C.
106,490.—BRICK MACHINE.—John Keller, Paduca, Ky.
106,491.—Centrifugal Sucar-Draining Machine.—Hugh W. Lafferty and Robert Lafferty, Gloucester, N. J. Antedated August 5, 1870.

106,490. W. Savers M. Control of the Control o 106,492.—Washing Machine.—John L. Larose, Leavenworth, 106,493.—Electro-magnetic Motor.—L. T. Lindsey, Jackson, Tenn. 106,494.—COMBINATION OF LABEL-HOLDER AND HANDLE.-Henry Manneck, New York city.

106,495.—SPRING FOR PISTON PACKING.—David Maydole, Norwich, N.Y.

106,496.—HANDLE FOR CASKET.—Alexander McGuire, Winchester, Conn. 106.497.—STEAM ENGINE.—Hermann Mohr, New York city. 106,498.—FLEXIBLE SHAFT.—James B. Morrison, St. Louis 106,499.—Knitting Machine.—Edward Morse, Winchendon, Mass., assignor to Hinkley Knitting Machine Co. 106,500.—Seeder and Fertilizer Combined.—W. B. Myers. Hampton, Pa. 106.501.—NAIL.—Andrew Patterson (assignor to John Dean), Worcester, Mass. 106,502.—FIRE GRATE.—Merritt Peckham, Utica, N. Y. 106,503.—BASE-BURNING STOVE.—Merritt Peckham, Utica 106,504.—Tobacco Box or Drum,—John Potter, Quincy, 106,505.—Horse-power. — Tapley B. Pyron, Springfield, 106,506.—DRIPPING PAN.—Adam Reid, Buffalo, N. Y. 106,507.—Sheave Block.—T. H. Rice. Baltimore, Md. 106,508.—Manufacture of Truss Pads.—S. S. Ritter, Phila delphia, Pa. Antedated August 10, 1870. 5,509.—IRONING TABLE.—J. H. Ruff, Thomas Run Post office, Md. 106,510.—Grindstone Journal Box.—J. B. Sargent, New Haven, Conn. 106.511.—Mortising Machine.—G. T. Savary, Newburyport, Mass. 106,512.—Propelling Apparatus.— Cornelius Schilling New York city. 106,513.—HARVESTER RAKE.—Jacobs W. Schuckers, Philadelphia, Pa. 106,514.—Towing Hook for Canal Boats.—L. R. Shipman, Bloomsburg, Pa. 106,515.—Spark Arrester.—Jas. Smith, Altoona, Pa. 106,516.—Wash Boiler.—Oscar F. Stedman, Westfield, 106,517.—FIRE EXTINGUISHER.—Thomas Tripp, Chicago, Ill. 106,518.—COMPOUND FOR EXTINGUISHING FIRE.—W. P. Van Deursen, Cincinnati, Ohio.
106,519.—COMBINED LATCH AND LOCK FOR GATES.—H. R. Van Eps, Peoria, III.
106,520.—VEGETABLE CUTTER.—Franz Wagner, New York city. 106,521.—Stove Grate.—R. Ward, Edinburgh, Ind. 106,522.—Vapor Burner.—Thomas Ward, Columbus, Ohio. 106,523.-MOTIVE POWER.-William Medd Watson, Tonica, 111. 106,524.—Sadiron.—William Webster, Washington, D. C. 106,525.—Steam Water Elevator.—H. M. Wightman, Boston, Mass. 106,526.—Thread Cutter for Sewing Machines.—C. J. Wood, Brewerton, N. Y. 106,527.—WATER-PIPE SUPPORT.—C. D. Wo druff, Toledo, Ohio. 106,528.—Ventilator for Stovepipes.—C. D. Woodruff, Toledo, Ohio. 106,529.—VELOCIPEDE.—Chas. Wyndham, Southover Grange, near Lewes, England.

106,530.—APPARATUS FOR RECTIFYING ALCOHOLIC LIQUORS.

-C. L. Fleischmann, Cincinnati, Ohio.

> 4,098.—STOVEPIPE THIMBLE.—T. K. Anderson, Hornellsville, N. Y.-Patent No. 41,592, dated Feb. 16. 1864.
> 4,099.—MACHINE FOR HUSKING CORN.—L. A. Aspinwall, Albany, N. Y.-Patent No. 101,809, dated April 12, 1870. 4,100.—CAPSTAN AND WINDLASSES.—David N. B. Coffin, Jr., Newton, and Benjamin Woodward Somerville. Mass, assignees, by mesne assignments, of David N. B. Coffin, Jr.—Patent No. 59,959, dated Nov. 27, 1866. 01.—SAW MILL.—Alexander McCreight, Tranquility, O.—Patent No. 82,970, dated Oct. 13, 1868.

4,102.—CHILLS FOR CASTING CAR WHEELS.—Wm. Wilming. ton, Toledo, Ohio.—Patent No. 85,046, dated December 15, 1868

### DESIGNS.

4,293.—JOURNAL BOX.—P. P. Child, St. Louis, Mo. 4.294.—CARPET PATTERN.—John Dornan, Philadelphia, Pa. 4.295.—Shade for Gas or Lamp Burner.—John Letchworth (assignor to Hartell & Letchworth), Philadelphia, Pa. 4,296.—Hand Stamp.—J. F. Pages, San Francisco, Cal. 4,297.—Table Caster.—Daniel Sherwood and G. D. Dudley,

### NEW BOOKS AND PUBLICATIONS.

#### THE SUNBURST

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Is the title of anew literary journal, edited by our talented young friend William F. McNamara. Its design is to furnish a journal of entertainment and instruction to Irish families-something elevating in its tendencies and teachings. The first number is a good one. It goes in for temperance, and eschews politics.

### APPLICATIONS FOR THE EXTENSION OF PATENTS.

MELODEON .- El Dora Louis, New York city, has petitioned for an extension of the above patent. Day of hearing Nov. 2, 1870.

ADJUSTABLE SEAT FOR CARRIAGES .- George Cook and David Cook, New Haven, Conn., has applied for an extension of the above patent. Day of hearing Jan. 18. 1871

#### Inventions Patented in England by Americans. [Compiled from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

1,987 .- APPARATUS FOR REDUCING WOOD, METAL, AND OTHER HARD MATERIAL TO FIXED PATTERNS.—F. Baldwin, West Brattleboro, Vt. July 14, 1870. 1,988.—Counting Registers.—W. H. McNary, Brooklyn, N. Y. July 14, 1870.

1,990.—SPOOL MACHINE.—J. F. C. Rider, ——, N. H., and E. P. Brownell—, R. I. July 14, 1870.

2,000.—Machinery for Molding Clay, etc., into Drain Pipes and other Articles.—P. S. Justice, PhiladelphiaPa. July 15, 1870. 2.080.-Roadways, etc.-H. Hughes, San Francisco, California. July 15, 1870.

2,050.—Basters for Sewine Machines.—F. T. Grimes, Liberty, Mo. July 20, 1870. 2,052.-Ovens.-Hosea Ball, New York city. July 20, 1870.

2,055.—RAILWAY CARRIAGE WHEELS.—A. F. Cooper, San Francisco, Cal. July 21, 1870.

2,097.- CANOPIES.-A. M. Rodgers, Brooklyn, N. Y. July 26, 1870.

2,101.-Manufacturing and Molding Solid Collodion.-J. S. Hyatt and J. W. Hyatt, Albany, N.Y. July 26, 1870.

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