



SCROLL SAWING MACHINE.—David R. Williams, Sr., Paris, Ky.—This invention relates to an improved mode of combining guide rods and a bearing plate with a saw cross head, so that the cross head will not have the friction of the bearing plate, except when pressed against it by the work: and it also consists in providing a clamp, which holds the saw, with an adjustable pin that will afford a rest thereto when the width is lessened by wear or sharpening.

CORN PLANTER.—George G. J. Millar, Lockbourne, Ohio.—This invention has for its object to furnish an improved corn planter which may be adjusted to plant the rows of hills at any desired distance apart, and to drop any desired number of kernels to a hill. The dropping cylinders are so placed as to receive the seed from the hoppers and discharge it upon the ground, and are attached to the outer ends of a rod or shaft which is made in parts sliding upon each other, so that its length may be extended or contracted as the machine is adjusted to plant the rows of hills wider apart or closer together. By means of suitable appliances the driver can operate the dropping cylinders and drop the seed with his foot or by hand. The driver's seat is adjustably supported from the platform, so that it may be moved back or forward, to enable the driver to balance the machine with his weight, thus relieving the horses' necks. Other mechanism allows the planter to be raised from the ground for convenience in turning or passing from place to place. The machine may be adjusted to plant the seeds at any desired depth in the ground. The covering plates are secured by a single belt, so that they may be set back or forward, according to the amount of soil desired to be drawn over the seed. Cutters are provided, designed to cut off any stalks or other rubbish that may be upon the ground, and which might affect the proper operation of the plows.

FENCE.—William T. Willie, Independence, Texas.—It is economically important to the farmer that the rails composing the fence be removed, and for which he substitutes another, should be fully utilized on the spot. Hence the inventor proposes setting the posts diagonally across the fence alternately, in opposite directions, which brings the lower or base portions of every successive pair of posts much nearer each other than they would otherwise be. This renders it practicable to utilize the short rails for the bottom and longer rails for the top portion of the panel.

WASH BOILER.—Wilson C. Berger, Bethel, Pa.—This invention consists of a secondary or false bottom, adapted to fit inside that of the sheet metal boiler snugly, with the legs to hold it about three inches above the permanent bottom, which said false bottom has three parallel rows of holes, through it vertically, said rows being in the direction of its long axis; and over the middle row a long narrow space is inclosed by two perforated plates, rising as high as the top of the boiler, and joined together at the top and ends, so that water heated in the space below the false bottom will be forced up in the said inclosed space, and out through the perforated sides among the clothes, and down to the heating space again, through the outside row of holes in the false bottom, so as to act upon the clothes very efficiently.

KNIFE SHARPENER.—Jonathan Quipp, Buffalo, N. Y.—This invention furnishes convenient means for sharpening knives; and it consists simply in an emery roller, supported on a suitable frame, with a journal or pivot at each end. Stands or ears are attached to the bed plate, through which the journals of the roller pass. The roller is made of wood or of any suitable material, and is covered with emery or equivalent material, the same as emery wheels; or it may be made of a composition of emery or sand and other material. The sharpener may be placed upon the dining table, and is intended to take the place of the ordinary steel sharpener.

BEE HIVE.—Amos R. Moulton, Fall Branch, Tenn.—This invention relates to an improvement in bee hives which shall be of such a construction as to enable every portion of the same to be opened or unfolded with the greatest facility for the purpose of inspection, removal of honey and refuse matter, etc.

CAR COUPLING.—James Broadley, of Bradford, Eng.—The mechanical arrangements comprising this invention consist of a sliding shaft or bar, working in suitable bearings secured to the ends of the carriage or vehicle at a position somewhat above the usual coupling chain arrangement, which can be left attached to the carriage or vehicle, and can be made use of when two carriages are to be coupled, one of which is not provided with the coupling arrangement. This sliding shaft or bar has a bolt connected thereto, which bolt is made to work in an orifice provided for in the sides of a socket or guides secured to the carriage or vehicle. A slotted link is also secured to the carriage of vehicle, to which it is attached by a joint, so that it may be lifted up out of the way and secured by a catch on the sliding shaft when a carriage or vehicle unprovided with these arrangements is to be coupled in the ordinary way. The coupling slotted link is, when two carriages or vehicles are brought together for coupling, down in its ordinary position, and is inserted in the sockets or guides above mentioned by simply bringing the two carriages or vehicles together, and then the sliding shaft can be actuated so as to couple the carriages by handling its end from the side of the carriage without going between the carriages, and the uncoupling can be effected by a similar though reverse action. If thought desirable, lever arrangements might, it is obvious, be adopted, to enable the guard or attendant to work these arrangements without getting down from his place.

SAFETY SWITCH FASTENING.—William B. Sloan and Edward H. Sweetser, Hamburg, Iowa.—The invention consists in a railroad switch fastening, constructed with spring jaws which clamp the annular recess of a bolt passed therethrough and require to be separated by a key before the bolt can be removed.

FOLDING PAIL.—Ransom Sabin, Benona, Mich.—This invention consists in a combined water pail or bucket and feed bag, formed of a waterproof flexible cloth or rubber cylindrical body, and a sheet metal bottom. It is capable of use in drawing water from a well, may be set over a flame, can be folded flat so as to be placed under carriage cushions or otherwise conveniently packed away, and is withal very light as well as strong, durable and cheap.

LATHES FOR TURNING BENT STICKS.—Thomas Ott, of South Green Township, Pa., assignor to himself and Nathan Houck, of same place.—This invention has for its object to produce a simple apparatus for turning the hooks at the ends of umbrella sticks and other bent sticks; and consists in an annular chuck carrying a cutter at its narrow inner edge, and hollowed at the faces to be as thin as possible along the inner edge. An annular chuck or block made of wood or metal is slotted out to receive a knife whose cutting edge projects beyond the inner periphery of the chuck. The knife is preferably slotted, to be adjustable as its edge wears. The faces of the annular chuck are hollowed to make it as thin as possible in the middle. Being thin in the middle, the chuck permits the stick to be held at such varying angles as to allow its entire bent portion to be turned to uniform thickness.

LAMP HEATER FOR NURSERY FLASK.—Seymour Hughes, of Jersey City N. J.—This invention relates to a new apparatus for heating the contents of nursery flasks and similar vessels; and consists in the use of a portable water heater containing a lamp, flues, and a platform for the support of the flask. The latter can be placed within the heated water to have its contents gradually and gently warmed without exposing the flask to injury or wasting heat. The invention also consists in providing the flue of the water heater with a transparent section so that it may also serve as a lamp. This is a very neat and useful invention, one of the small kind adapted for general use which usually produce to the patentee quick sales at good profits.

HARROW.—Horatio N. Swift, Matteawan, N. Y.—Heretofore the connection between the sections of the well known flexible harrow has been made by means of round rings through the three eyes, which approach each other, but it has been found that the sections, when connected by a ring in this manner, were liable to catch and clog in turning the harrow, and cause much trouble in releasing and straightening out the same. To remedy this difficulty, instead of the round ring, a triangular connecting link is employed composed of a single piece of metal, but with a separate ring for each eye. By this means the eyes of the sections are separated, so that in turning or twisting the harrow will not cramp, but assume its natural position without aid from the driver. These triangular links are used only for the interior connections, the outer angles of the sections being connected by common links and chains.

LAND ROLLER.—Halloway W. Mathews, Frenchtown, N. J.—The invention consists in providing a roller frame with four pendent bearings, each vertically slotted, and all the corresponding parts of said slots being in the same horizontal plane, so that the journals of each end of a roll can freely play up and down, and so that the weight of frame and driver will, when on a level, be equally distributed over the several journals, but will be concentrated upon any clod over which either end of either roll may pass.

[OFFICIAL.]

Index of Inventions

For which Letters Patent of the United States were granted

FOR THE WEEK ENDING AUGUST 27, 1872, AND EACH BEARING THAT DATE.

Table listing various inventions and their patent numbers, such as Acid for hardening stone, Alloy or bell metal, Anthracene, Auger, Barrel, Basket, Bed bottom, Bed bottom, spring, Bedstead, Beehive, Bell call, Belt shifter, Belts, Berth, Billiard cue, Blacking, Boiler, Bolt cutter, Bolt for sashes, Boot and shoe heel, Boot and shoe sole, Bridge, Bridle, Brush and mop holder, Camera, Car coupling, Carriage seat fastener, Chair, Chest, Chill plate and flask, Churn, Cloth cutting machine, Cock, Collar, Compass, Compound for polishing, Cows from kicking, Cream strainer, Cuff, Cultivator, Dental plugger, Dryer, Electro-magnet, Electrotype plate, Elevator, Engine, Excavator, Fence, Fining machine, Fork, Fountain, Fruit box, Furnace, Gas retort, Gas extinguisher, Gate, Gilding and ornamenting leather, Grain scourer, Hame tug, Hammer, Harness clamp, Harrow, Harvester, Heater for curling tongs, Hogs, Horses, Iron and steel, Knitting machine, Ladder, Lamp, Lamp shade, Lock, Locomotive balloon, Logs, Loom, Masts, Masticator, Mat, Matches, Medical compound, Metal machine, Molding, Mortising chisel, Movement, Muzzle, Oils, Organ action, Organ, Oven, Pan, Paper pulp, Paper cutting machine, Pavements, Pipe and nozzle, Planter, Plow, Plow, Plow, Plow, Plow, Plow, Plow, Plow.

Table listing various inventions and their patent numbers, such as Printing, Pump, Pyrometer, Rack, Saddle, Sap bucket, Sash holder, Sash holder, Saw set, Saw mill, Sawing machine, Scrapper, Scrubber and scraper, Seat, Sewing machine, Sewing machines, Sewing machines, Shackle, Signaling apparatus, Silk winding machine, Soda fountain, Spark arrester, Spark arrester and consumer for locomotives, Spinning and twisting, Spinning machines, Staples, Staves, Stone, Stone, Straw cutter, Straw cutter, Stump extractor, Telegraph apparatus, Telegraph circuits, Telegraph key, Telegraph printing, Telegraph pole, Telegraph paper, Telegraph relay, Telegraph, magnet, Thill coupling, Thill coupling, Tiles, Tobacco hanger, Transplanter, Truss, Valve and cut off, Valve indicator, Valve, steam governor, Valve, water pressure check, Vehicles, Ventilator, Wagon, Wagon standard, Wardrobe, Washing machine, Washing machine, Washing machine, Water wheel gates, Water pipes, Well tube, Well point, Wheel traction, Whiffletree, Whiffletrees, Whip, Wire fabric.

DESIGNS PATENTED.

Table listing designs patented, such as CAMPAIGN SHIRT, OTTOMAN, CARPETS, SHAWL, CARPET, MUFF COVERING.

TRADE MARKS REGISTERED.

Table listing trade marks registered, such as SPOOL THREAD, POMATUM, DRUGS, MOLASSES, STRUP, MOLASSES, FANCY GOODS.

SCHEDULE OF PATENT FEES:

Table listing patent fees: On each caveat, On filing each application for a Patent (seventeen years), On issuing each original Patent, On appeal to Examiners-in-Chief, On appeal to Commissioner of Patents, On application for Reissue, On application for Extension of Patent, On granting the Extension, On filing a Disclaimer, On an application for Design (three and a half years), On an application for Design (seven years), On an application for Design (fourteen years).

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APPLICATIONS FOR EXTENSIONS.

Applications have been duly filed, and are now pending, for the extension of the following Letters Patent. Hearings upon the respective applications are appointed for the days hereinafter mentioned: 22,185.—PRESERVATION OF FLESH FOR FOOD.—N. B. Marsh, Nov. 13, 1872. 22,197.—HOOP SKIRT.—S. Peabody, Nov. 13, 1872. 22,674.—TRUSS SPRING.—J. W. Riggs, Jan. 2, 1873.

EXTENSIONS GRANTED.

Table listing extensions granted, such as 21,233.—CARPET SWEEPER.—H. H. Herrick. 21,306.—HILLSIDE FLOW.—H. S. Akids. 21,311.—SEOURING PLANE IRONS TO STOCKS.—L. Bailey. 21,324.—SUN SHADE.—A. G. Davis. 21,329.—SENDING AND RECEIVING TELEGRAPH MESSAGES.—M. G. Farmer. 21,352.—RAILROAD CAR SEAT.—C. M. Mann. 21,367.—STRAW CARRIER.—F. W. Robinson. 21,372.—FARE BOX.—J. B. Slawson. 21,381.—BRACELET.—F. M. Sweet.