

Recent American and Foreign Patents.

Improved End Gate for Vehicles.

John C. Hawker, Pana, Ill.—This is a convenient fastening for the end boards of wagons. Plates are riveted to the side boards, which hook under and support the bottom board.

Apparatus for Removing Oils from Animal and Vegetable Substances.

George N. Phelps, Brooklyn, N. Y., assignor to himself and Conrad Braker, Jr., New York city.—This is an improved apparatus for removing oils, fats, resins, etc., from solid material, by treating it with bisulphide of carbon or other suitable solvent.

Improved Car Coupling.

Morris E. Bromeling, Leroy, Minn.—The drawhead has two cavities for coupling links, separated by a vertical slide piece. One cavity is larger than the other, and is arranged with tapering mouth for the entering of the rear end of the coupling link.

Improved Hay Tedder.

James Taylor, De Kalb Junction, N. Y.—A rod passes through a coil formed in wire teeth near their forward ends, and serves as a fulcrum to said teeth. The teeth are kept in proper relative position upon said rod by tubular washers.

Improved Stamping Mill and Furnace for Roasting Ores.

Pentecost J. Mitchell, Salt Lake City, Utah Ter., assignor to himself and Joseph E. Gay, New York city.—This stamp is made in any of the known forms used in stamp mills. In the shaft are toothed racks, between which is an adjustable clutch, which receives a cam secured upon a revolving shaft.

Improved Pump.

Samuel H. Warner, Darbyville, O.—This invention consists of a double acting pump with two cylinders and alternating plungers, of which each plunger slides in a narrower tube or telescope, while its piston forms, with the tube and outer cylinder, a varying space, in which a constant body of water acts, by a communicating pipe of the pump cylinders.

Improved Plow.

John W. Thomas, Silver Springs, Tenn.—This invention relates to the combination of pivoted blocks or rollers and cross bars or plates for connecting the plow beams and standards, whereby the plows are allowed movement in any direction, one relative to the other.

Improved Mainspring Attachment.

James C. Edwards, Binghamton, N. Y.—This is an eccentric notch in the face of the arbor of the barrel to which the mainspring of a watch is connected, the notch being as deep as the thickness of the spring.

Improved Foot Mat.

Theodore W. Ellis, Macon, Ga.—This invention consists in a number of parallel bars, either of wood or metal, confined by iron bolts or rope, and securing the necessary filling for a mat.

Improved Cotton Bale Tie.

William C. Banks, Como Depot, Miss.—This invention consists in the combination of a band and buckle, the former crimped near one end and the latter having a tongue bent below the plane of its side piece to form an improved tie.

Improved Stove.

M. G. C. Church, Parkersburgh, W. Va.—This invention relates to and consists in means whereby a heating stove may be made to economize fuel and supply heat by radiation, reflection, and convection in a more thorough and effectual manner than has been heretofore used.

Improved Copying Press.

Phlander S. Abbott, Bowling Green, O.—This invention relates to copying presses, and contemplates the manufacture of an article that will be less expensive and may be brought within the reach of persons in the smallest business and of ordinary private individuals.

Improved Waterproofing Compound.

A. C. McKnight, Philadelphia, Pa.—The basic or primary compound consists of iodine, wheat starch, alum, oil, and soda. This is combined with a preparation known as acetate of alumina.

Improved Medical Compound.

J. P. Dyer, Lynchburgh, Va.—This compound is a salve for application to sores, ulcers, cancers, tumors, etc., composed of red oak bark, saraparilla, belladonna, hyocyanus, honey, spirits turpentine, camphor, beeswax, and beef or mutton suet.

Improved Type Distributing Machine.

John A. Reynolds, Danville, Pa.—This invention relates to that class of machines which are used for distributing into appropriate cases the type that has been printed from, and is a new and improved arrangement for doing the same, by which the operator is enabled to effect said distribution by simply reading his matter and operating appropriate keys.

Improved Can for Oil, etc.

Francis E. Josel, Freeport, Ill.—This invention consists of a spout, turning in a socket of the body of the can, both being provided with corresponding apertures, through which the oil is discharged when both are brought into connection with the interior of the can.

Improved Slate Frame.

Joseph W. Cremin, New York city.—The common method of holding the slate by one corner of the frame, and pressing the opposite diagonal corner against the breast or stomach, the inventor has found, by thirty years' experience, to be very injurious to young children.

Improved Combined Work and Spool Holder.

William W. Tunis, Easton, Md.—This invention relates to that class of devices which are intended to facilitate the holding of ladies' work, so that it may be gradually and intermittently moved in an easy and convenient manner.

Improved Ruffler for Sewing Machines.

John Irvine, Ickesburgh, Pa.—This invention is an improvement on the class of rufflers in which motion is derived from the needle post, and the feed may be changed or adjusted while the machine is in operation without interrupting the work.

Improved Ice Plow and Ram Attachment for Vessels.

D. Conrad Grant, Houghton, Mich.—The ram is constructed with a pointed, inclined, or rounded front prow, and is bifurcated to fit exactly the shape of the stem of the vessel, extending backward along the same. The whole attachment is easily adjusted from the deck of the boat.

Improved Machine for Nailing Shoe Soles.

Elton F. Richardson, Reading, Mass.—This invention has for its object to furnish an improved machine for nailing shoe soles and heels, and for various other similar purposes, with a continuous wire driven into the article to be nailed before being cut off.

Improved Wagon Jack.

James S. Rowland, Seneca, Ohio.—This implement consists of a base, an upright bar and an inclined bar connecting the two. To the last and above the standard is pivoted a lever; to the same and below the standard is pivoted another bar. The ends of the lever and the bar last mentioned are pivoted to a notched bar.

Improved Lamp Pendant.

William M. Underhill, Oconto, Wis.—This invention consists of a piece of wire bent in triangular form, with the base bent up in the form of two sides of a triangle toward the apex, at which point there is a little notch to hold the pendant when suspended for use.

Improved Sewing Machine.

Johannes Bühr, Hamburg, Germany.—The object of this invention is to provide for family and other purposes a sewing machine which allows the direct use of the common spools without requiring the spooling of the thread on the bobbin, performing the work with equal exactness and dispatch.

Improved Wheel for Vehicles.

Oliver Lundin, Richland, Iowa.—By suitable construction, by screwing up a band nut, disks will be pressed against the ends of the spokes, securely clamping them in place.

Improved Horse-Detaching Device.

William Rosenbaum, Cheyenne, Wyoming Ter.—This is a device for detaching horses at any moment from carriages, buggies, wagons, reapers mowers, or other vehicles, so that not only the individuals, but also the vehicles, are protected against injury from runaway or vicious animals.

Improved Liquid Vent.

Hiram W. Love and James Talley, Jr., Kansas City, Mo.—This invention relates to means by which air may be readily introduced into a barrel, keg, or vessel of liquid, in order to counterbalance the air pressure at the outlet, and thus admit a free flow of liquid from the vessel.

Improved Derrick.

Charles Roberts, Mattoon, Ill.—This invention consists of an inclined sweep mounted on a frame pivoted on the top of the post, and also pivoted to said post at or about its middle, and braced in a simple and efficient way, so that the weight may be raised higher than the post, and the sweep may revolve entirely around the latter.

Improved Sink Trap.

George Miller, Johnston, R. I., assignor to himself, Henry Miller, and Alfred B. Irons, same place.—This invention consists of revolving scrapers in the trap for stirring up the sediment to be carried away by the water. The scrapers are turned by a thumb bit above the strainer, and are fixed on the lower edge of the inverted cup of the trap.

Improved Drawers.

Emil Weil, New York city.—The object of this invention is to furnish for general underwear drawers which fit not only more completely to the body, but keep also the stomach warmer by taking the place of the abdominal band. This end is effected by extension flaps, which form, when applied, a double layer over the stomach.

Improved Compound for Sizing Cotton Yarn.

Henry Wegmann, New York city, assignor to H. Wegman & Co., same place.—This is an improved compound for sizing cotton yarn, consisting of tallow, soft soap, rosin, vitriol, iron, and onions. This compound is designed to be added to twenty-five or seventy-five pounds of starch, or fifty to one hundred pounds of flour, the rosin, vitriol, onions, and tallow being boiled till rendered sufficiently liquid to mix freely with the other matters.

Improved Harvester.

John Werner, Jr., Prairie du Sac, Wis.—This invention consists of a binder's platform and tables, attached to a tongue frame, which is pivoted on the wheel frame at or near the axis of the main wheel. There is also an adjusting lever, connecting the wheel frame and the tongue frame, for adjusting the wheel frame to tilt the cutters up or down, for cutting high or low, without tilting the platform and tables out of their proper level.

Improved Composition for Artificial Stone.

Luke W. Osborn, Youngstown, Ohio.—This is an improved artificial stone, cast in slabs or blocks of any required size and shape for laying sidewalk walks, for the foundation of iron fences, for well covers, door steps, drain tile, sewer pipe, and other purposes: which will not crumble or wear through, as imperfect blocks cannot be transported and laid: which has a light gray color upon its surface to prevent it from absorbing the sun's rays and being softened; and which may be made of different colors or may have patterns or figures of different colors upon its surface.

Improved Chimney Top.

William Hervey Connor, Muscatine, Iowa.—This invention is a conical current-guiding chimney cap, on which is placed the vane, provided with an arc strap, perforated at several points to allow the obliquity of said cap to be changed, according to the draft required.

Improved Glass Bottle.

Thomas P. Spencer, New York city.—This invention consists of a glass bottle for perfumery, made in the form of the bust of the human figure, with certain modifications of the shoulders in form and dimensions of the same and other parts, as compared with a true bust, to adapt it to a shape that is practicable to produce in glass by blowing it in molds.

Improved Plow.

Julius Hartmann, Jefferson County, Ky.—This plow may be used to open a trench or furrow, or for cultivating certain kinds of crops. By turning the share either to the right or the left, it will cause a change in the position of the wings, so that one of them will lie parallel with the beam, and the other stand at a large angle to it, corresponding respectively to the position of the land side and mold board in the ordinary plow.

Improved Oil Can Faucet.

Frank Spinning, Stellacoom, Wash. Ter.—This invention consists of a detachable faucet for oil cans, to be used for drawing oil from the commercial cans now commonly used for packing the oil for market. The object is to enable the faucet to be shifted readily from an empty can to a full one and save a special faucet for each can.

Extracting Silver, Gold, and other Metals from their Ores.

James Douglas, Jr., Quebec, Canada, Thomas S. Hunt, Boston, Mass., and James O. Stuart, Georgetown, Col. Ter.—Copper pyrites is mixed with iron pyrites, in such quantities as will result in the most thorough extraction of silver. The ground ore is then calcined with common salt in a suitable furnace, as is usual in the chlorination of silver ores.

Improved Middlings Purifier.

William H. Todd and Ephraim C. Keyser, Utica, Miss., Md.—This invention relates to the purification of middlings in a more convenient, thorough and perfect manner than has been usual heretofore, or possible by the machinery employed for that purpose.