

Recent American and Foreign Patents.

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

STAVE EQUALIZER.—Elijah P. Spaulding, of Murfreesborough, Tenn.—A pair of circular saws, preferably mounted on the same arbor, are placed as far apart as the required length of the staves to be cut.

WARPING MILL.—John W. Fries, of Salem, N. C.—This invention has for its object to so arrange the heck of a warping mill that the yarn wound upon the warp cylinder will not become entangled while being dyed or prepared after its removal from the mill.

ROTATING READING TABLE.—Thomas Cartwright, of New York city.—This invention has for its object to furnish an improved rotating reading table or book support for attachment to circular and octagonal tables that are supported upon a pedestal, and it consists in the rotating arm, adjustable rod, and gas pipe provided with plugs or stopcocks at its ends, stationary or jointed gas burners, and an adjustable book rest, in combination with each other and the pedestal of a table.

HAND CORN SHELLER.—Julius O. Frazer, of Worthington, Ind.—This invention has for its object to furnish an improved hand corn sheller. The base of the sheller is a board, plank, or block, six inches, more or less, in length and breadth, and one inch, more or less, in thickness.

WOOD SCREW.—John S. Armstrong, of St. John, Canada.—This invention consists in a screw provided with a nick widening from the center toward the circumference, to allow the edge of driver to be pressed up and wedged tightly near the center.

COTTON PLANTER.—Henry A. Ridley, Jacksonport, Ark.—This invention has for its object to furnish an improved seed planter, designed especially for planting cotton seed. To the rear end of the beam is attached the body of the planter, which is made somewhat in the shape of the hull of a ship, to adapt it to press open the furrow to receive the seed.

WASHING FLUID.—Martha A. Sanderson, Fremont, Mich.—The object of this invention is to provide efficient means for lessening the labor of washing clothes, and it consists in a fluid composed of alcohol, camphor gup, aqua ammonia, and a second mixture of hot rain water, sal-nitre, borax and saleratus.

RUDDER.—Richard H. Thomas, Kid's Grove, near Stoke-on-Trent, England.—This invention consists of a rudder of two blades, arranged side by side, one on each side of the axis, and distant from each other so as to allow a solid flow of water between them, being connected at top by a horizontal bar or disk to the axis or shaft.

APPARATUS FOR CHARGING BLAST FURNACES.—William A. Miles, Salisbury, Conn.—This invention relates to improvements in the mechanism for charging blast furnaces, and more particularly to the charger for which the United States letters patent No. 130,652 were granted, the 20th day of August, 1872.

RAILROAD RAIL JOINTS.—John McLean Staughton, Riverton, Ky.—This invention has for its object to furnish an improved rail joint, which shall be so constructed as to hold the ends of the adjacent rails level, so that one cannot rise above the other, so that the two ends cannot sink down at an angle with the body of the rails, and which will give the joint greater strength and equal flexibility with the other parts of the rails.

NAIL MACHINE.—Henry Reese, Baltimore, Md.—The invention consists in drawing the end of a heated rod into a round pointed blank between two surfaces that move in reverse directions and with the same velocity; in then shaping said blank with dies; and in a peculiar mode of applying the brushes, shockspring and raised edges on the drawing faces.

HOSE PROTECTOR.—Isaac P. Maxwell, Baltimore, Md.—The invention consists in forming a hose jumper in three readily detachable sections.

STAVE JOINTER AND CROZING MACHINE.—John McGrew, Ravenswood, West Va.—The invention consists in arranging one or more pairs of angle shaped knives to reciprocate over a bearing roll upon which the hoop is fed intermittently, for the purpose of notching the hoop and allowing it to take the bulge necessary in barrels. Secondly, the invention consists in a peculiar mode of intermittently moving the roll, feeding forward the hoop, and then holding it while the said notches are cut.

COMBINED LADDER AND SCAFFOLD.—Robert L. Upchurch, Pana, Ill.—The invention consists in constructing an article adapted to use by painters, carpenters, and others as a scaffold, and to be employed at the sides of walls and corners to serve as an ordinary step ladder when folded, and as a fruit ladder when reversed.

TURBINE REACTION WATER WHEEL.—John McGrew, Ravenswood, West Va.—The invention consists in combining with the inner chute of a turbine wheel a series of peculiarly constructed buckets that by their relation to the discharge apertures utilize all the pressure of the water. Secondly, it consists also in providing the chute ring with a vertical circular flange by which great steadiness and uniformity of motion is secured to the wheel. Thirdly, it consists also in placing a gate on the inside of the chute and adjusting it by a reciprocating slide on the outside, whereby the quantity of water admitted may be nicely and easily graduated.

KNIFE SCOURER.—Frank O. Harvey, Kansas City, Mo.—The invention consists in making a knife scourer of a trough, a stationary pad block, and a hinged and handled pad block; whereby the labor of scouring is sensibly lessened, while the rapidity of its performance is greatly increased.

PIPE MOLDING MACHINE.—Dennis Long, Louisville, Ky.—The invention consists in the application to molding machines of a movable table resting on a foundation plate and provided with one or more seats for the flasks and patterns; in the peculiar form of pattern, which is enlarged at both ends as compared with the turned off intermediate portion; and in the construction of movable seats for the end of pattern and flask.

SPARK ARRESTER AND SMOKE CONSUMER FOR PASSENGER LOCOMOTIVES.—Wm. Martien, Baltimore, Md.—The invention consists in arresting the smoke, sparks, and cinders at the top of smoke stack and forcing them by an air draft from front of locomotive down a tube, and into a chamber where the cinders are stopped, while the smoke is carried around and emptied into fire box.

SPARK ARRESTER AND SMOKE CONSUMER FOR FREIGHT LOCOMOTIVES.—Wm. Martien, Baltimore, Md.—The invention relates to that special class of locomotives which are used for freight cars, and consists in combining with a hooded smoke stack a bibranch pipe through which are forced the cinders, sparks and smoke, the two former into cinder boxes prepared to receive them and the latter into the fire box.

DRIVING GLOVE.—Edwin V. Whitaker, Gloversville, N. Y.—The invention relates to a new article of manufacture, which is to be used in driving or riding horses or other animals, and which consists of a mitt having the four fingers covered in pairs so that one of the reins will pass as usual between said pairs, while two fingers being in each pocket or envelope will cooperate in keeping one another warm.

AUTOMATIC FEEDING LAMP.—Dr. Samuel K. Jackson, Norfolk, Va.—The invention consists in automatically maintaining the desired oil level in a beacon lamp by means of hydrostatic pressure applied so as to take advantage of the different specific gravities of oil and water, and so as to cause the water to feed itself and take up the space gradually vacated by the oil. This lamp furnishes a continuous light by night and day for a long period without requiring any attendant to trim or replenish it.

BUTTON.—Spencer B. Lane, Waterbury, Conn.—The invention consists in forming the perforated head of a button with lips and the shank with a bifurcation, by which they may be connected. The upper end of the shank is forked, to enter with its prongs two apertures in the head of the button or stud.

WASHING MACHINE.—Edmund E. Flint, Tonawanda, N. Y.—This invention relates to a washing machine. The suds box of the washing machine is of semi-cylindrical shape, of wood or other material, and supported on standards. The rubber is segmental, the rubbing surface being formed by diamond shaped slats or rods.

PITMAN CONNECTION FOR HARVESTERS.—William Ferris, Pleasant Plain, Ohio.—This invention has for its object to furnish an improved device for connecting the sickle bar and pitman in reapers and mowers, taking up the play beneath the knife bar and pitman, enabling the wear to be conveniently taken up, and which will greatly diminish the wear and lessen the draft of the machine.

FLY TRAP.—Addison M. Chapel and James G. Hubbard, Pittsfield, Mass.—This invention has for its object to furnish an improved fly trap. It consists of a cylinder caused to revolve by clockwork mechanism, and which is covered with fly bait. On alighting thereon, the flies are carried into a semi-circular cavity, from which they are by suitable means prevented from escaping.

INDIA INK SLAB.—Julius Speyer, Terre Haute, Ind.—This invention has for its object to furnish an improved slab, designed chiefly for the use of draftsmen in grinding India ink sticks, and for holding the liquid ink and preserving it from evaporation. It consists in forming a grinding surface and an ink well in the upper side of the slab or block, and a chamber in the under side of the same, in which the stick may be deposited when not in use.

BOTTLE PACKER.—Robert T. Penick, St. Joseph, Mo.—This invention has for its object to furnish an improved device for packing bottles and packages of bottles in sawdust, short shavings, rice husks, etc., and which shall correctly and uniformly regulate the space between the bottles, and between the bottles and the sides of the box in which the bottles are to be packed.

[OFFICIAL.]

Index of Inventions

For which Letters Patent of the United States were granted.

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

SCHEDULE OF PATENT FEES: On each Caveat... \$10 On each Trade-Mark... \$25 On filing each application for a Patent (seventy years)... \$15 On issuing each original Patent... \$20 On appeal to Examiners-in-Chief... \$10 On appeal to Commissioner of Patents... \$20 On application for Reissue... \$30 On application for Extension of Patent... \$50 On granting the Extension... \$50 On filing a Disclaimer... \$10 On an application for Design (three and a half years)... \$10 On an application for Design (seven years)... \$15 On an application for Design (fourteen years)... \$30

Table listing various inventions and their patent numbers. Includes items like Bake pan, Bale tie, Bed bottom, Bee hive, Billiard table, Bird cage, Bird cages, Boom saddle, Boot crimp, Boot and shoe burnisher, Boot soles, Box, Bracelet, Brick machine, Bricks, Brush, Buckle, Burner, Button hook, Can opener, Canal boats, Car coupling, Car door, Card rack, Cards, Carriage, Carriage clips, Carriage spring heads, Chains, Chairs, Churn, Clamp and wrench, Clothes washer, Corn sheller, Corn and cob mill, Corpse, Cover for coal holes, Cullinary vessels, Cultivator, Cutter head, Deodorizing oils, Disinfecting compound, Distilling hydrocarbons, Door, Dredge box, Dredger, Drilling machine, Drum, Egg carrier, Elevator, Feather renovator, Feeding canal, Fence, Fire arm, Fire shovel, Fireproof building, Fly trap, Folding chair, Fork, Fruit preserving apparatus, Fruit, Furnace, Furnace hot air, Furnace slag, Gas, Gear wheels, Gimlet, Girder, Glove, Grain dryer, Grain drill, Grain apparatus, Graining machine, Grate, Hair roll, Harness, Harness trimmings, Harrow, Harvester, Harvester pitman connection, Harvester cutters, Harvester cutters, sharpening bench, Harvester binder's attachment, Hatchet, Hinge, Hoisting machine, Horseshoe sharpener, Inkstand, Insect destroyer, Iron into steel, Ironing table, Jack, Journal box, Knife and fork cleaner, Ladder and scaffold, Land roller, Lantern, Lap board, Lathe for turning metal, Lathe for turning spools, Leather dressing, Lemon squeezer, Letter box attachment for doors, Locomotive engine, Loom, Loom for weaving blinds, Loom picking mechanism, Lubricator, Manure for transportation, Mattocks, Meat stuffer, Medical compound.