

**HORSESHOE.**—George Copeland, Denver, Colorado.—This invention relates to improvements in horseshoes and the nails for fastening them on the hoofs of the animals, and consists in making the nails with large, double, conical, or pyramidal heads, and the shoes with counter-sunk sockets, or other enlargements around the holes for the reception of the parts of the enlargements of the heads, with which the smaller parts of the nails are joined, all arranged so that the enlarged heads of the nails shall serve as the calks of the shoe, the said heads being made of either iron or steel, and hardened or not, as preferred.

**CRUPPER FASTENER.**—Wm. R. Wing, Newark, Ohio.—This invention relates to a new and improved fastener for crupper straps, to be used in substitution of the buckles and straps now used. The invention consists of a pair of cylindrical metal fastenings with one flattened side, one for each end of the strap to be connected, and a correspondingly shaped ring fitted to slide on the said fastenings, one of which has a T-headed projection at the end, and the other is fitted to receive and hold it when turned a quarter of a revolution of the entering, which brings the flattened sides in line, so that the slide may be adjusted to confine them in this position.

**COAL SCUTTLE.**—S. J. Anderson, Cazenovia, N. Y.—The object of this invention is to provide a coal scuttle or hod for general use which shall be more useful and convenient than they are when constructed in the ordinary manner, and it consists in a loose bottom so arranged that the coal is discharged from the bottom of the scuttle or hod instead of from the top.

**VENEER FORMER.**—L. A. Johnson, New York city.—This invention relates to a new and useful improvement in the method of bending and forming veneers for fitting legs of billiard tables, pianos, and for other purposes, and consists in the method of heating the veneer, and thereby rendering it pliable, so that it may be made to assume the desired form.

**DITCHING PLOW.**—I. S. Sheets, Troy, Ohio.—This invention has for its object to improve the construction of the ditching plow, patented by the same inventor February 10, 1869, so as to make it more simple in construction, more effective in operation, and more conveniently adjusted as the ditch increases in depth.

**HORSE POWER.**—P. W. Clark, Oblong, N. Y.—This invention has for its object to furnish an improved horse power designed more especially for use in cases where it is desired that the direction of the draft may be changed or shifted without stopping or changing the direction of the power.

**CORD CATCH.**—C. C. Moore, New York city.—This invention has for its object to furnish an improved cord-catch, designed especially for holding the cord of window shades, and which shall be equally applicable for holding other cords, such as picture cords, cords for tying up packages, and various other purposes.

**DISTILLING APPARATUS.**—J. M. Weyand, St. Louis, Mo.—The object of this invention is to facilitate the generating, dephlegmatizing, aromatizing, and refrigerating of alcoholic vapors, and to thereby simplify and economize the process of distillation. The main feature of the present invention is to so construct the apparatus that steam and mash are made to pass in opposite directions through the same compartments, the steam taking up, and the mash giving off alcohol during such passage. By this method the temperatures can be so completely regulated, that spirits of the requisite grade can be produced with great exactness. The invention consists also in a novel construction and arrangement of the generating compartment, in which the mash is absolutely mingled with steam and brought in contact with heated surfaces, to evaporate all its alcoholic contents.

**ELASTIC TIP FOR CHAIRS.**—S. Van Patten, Albany, N. Y.—This invention relates to a new elastic attachment to the ends of chair legs, which has for its object to deaden the noise of removing the chair, and to protect the floor or carpet upon which the same may be placed.

**GASOLINE BURNER.**—Franklin Gould, Paterson, N. J.—This invention relates to a new burner for producing light from gas prepared from gasoline, or other hydro-carbon liquid. The invention has for its object to so construct the burner that it will by its heat produce its own gas from the liquid which it consumes.

**PRUNING HOOK.**—Andrew Downer, Hammondsville, Ohio.—The object of this invention is to provide an efficient instrument for pruning trees, hedges, vines, or briars, and it consists in a pruning hook, and in a saw combined therewith.

**WASHING AND WRINGING MACHINE.**—J. B. Wakeman and A. R. Field, Hampden, N. Y.—This invention relates to combined washers and wringers, and consists in certain improvements thereon specified in the claim of the invention.

**DUST RING FOR WATCH MOVEMENTS.**—J. H. Flint, South Bend, Ind.—This invention relates to improvements in the construction and arrangement of dust rings for watch movements. It consists in the arrangement for fastening the ends at the joint by the movement screw, and the manner of fitting it between the plates, and against the pillars, and to the recess in the upper plate under the barrel bridge.

**STUMP EXTRACTOR.**—G. L. Howland and Wm. M. Howland, Topsham, Me.—This invention relates to improvements in machines for pulling stumps or lifting heavy weights, and consists in a combination of a portable frame of a vibrating, guiding frame, a hoisting bar, a pair of gripe paws, operating levers and adjusting springs, the latter for shifting the action of the paws to cause them to raise or lower the bar.

**COMPENSATING LET-OFF FOR LOOMS.**—John Day, Paterson, N. J.—This invention relates to improvements in let-off motions for looms, and consists in the application in addition to the ordinary warp-roll of an auxiliary roll, mounted on a vertically sliding and weighted frame, under which the warp is carried from the warp-roll to another guiding roll, which together with the warp-roll are elevated in a vertical extension of the loom frame, so that the weight of the auxiliary roll frame and weight is suspended in the right of the warp, which passes over another guide roll in the plane of the first, and down under a third guide roll, and thence through the sley to the work beam. Previous to passing under the final guide roll the warp passes through a sley, or reel, for guiding it evenly on the said roll.

**NEEDLE CASE.**—Wm. Avery and Albert Fenton, Redditch, England.—This invention relates to improvements in that class of needle cases in which the needle packet is caused to rise up above the top of the needle case, when open, to admit of obtaining a needle therefrom more easily, and it consists in effecting the raising of the packet by the raising of the cap of the case, which is hinged at one side of the top of the case, by providing the said cap with a cranked projection extending downward into the case, and jointed to the side of the packet by a connecting link, or other suitable connection.

**BUNG.**—David Leichtstaedt, Brooklyn, N. Y., and R. Pentlidge, New York city.—This invention relates to improvements in bungs for barrels, casks, and the like, and consists in a deep bush, screw threaded, and with a collar on the exterior, for screwing down into and upon the side of the cask, and having a smooth, conical interior surface, extending from the bottom upward and a suitable distance, with an annular recess at the top, above which an annular internal groove is formed by a flange at the top of the bush, into which through radial notches a bridge tree which carries a tightening screw with a plug at the lower end, is inserted, and secured by turning the ends away from the notches, under the flange, so as to screw the plug down upon the shoulder above the conical hole of the bush.

**TIN TUBING MACHINE.**—J. N. Adams, Chillicothe, Mo.—This invention relates to an improved machine for bending sheets of tin into tubing, lapping the edges and the ends of the sections, and holding them for soldering, and it consists of a sectional tubular shell, capable of expanding and contracting, and having a slot along one side for the admission of the tin to the interior, wherein is a mandrel, divided longitudinally, and capable of receiving and pinching the edges of the tin, to hold and draw it in while the said mandrel is turned, and winds the tin around it, after which the opposed edges are held opposite the slot in the shell for soldering, and pressed together by a hinged presser attached to the shell and projecting through the slot. The section thus formed is then shoved along on the mandrel, so that the next sheet bent up will be lapped on the end of it.

**TAILORS' SCALE.**—W. G. Cummins, Civil District No. 10, Tenn.—This invention relates to improvements in scales for measuring and laying out the several parts of men's clothes for cutting, whereby it is designed to provide a simple arrangement of the same, adapted to all the parts of the different garments under a system that may be easily learned and used by persons little skilled in the art.

**TABLES.**—Asa Forrest, Moingona, Iowa.—This invention relates to improvements in apparatus for supporting the fall leaves of tables, and consists in the application of jointed braces pivoted at one end to the lower edge of the rail, or other part of the table, and at the other to the under side of the fall, near the outer or lower edge, and so arranged that when the fall is raised to the horizontal position, the joint of the brace may be turned above the right line between the end pivots, and retain the position, by reason of the tendency of the weight of the fall to prevent the braces assuming the right line, which they must do before folding down. The tendency of the weight to force the joint upward, and of the two parts to fold down the other way, is counteracted by the arrangement of the arms, so that the joint will strike the under side of the table.

**TIN GUTTER MACHINE.**—J. N. Adams, Chillicothe, Mo.—This invention relates to improvements in machines for making tin gutters, and consists of a sheet metal cylinder, of the same radius as the gutter to be formed, provided with guides by which the previously bent up sheets of tin are confined to it while being shoved along from end to end for soldering, and also provided with a socket for supporting it while in use on a "canale mold stake," a tool in common use in tinners' shops.

**STRAW CUTTER.**—Julius Ambrun, Leavenworth, Kansas.—This invention has for its object to simplify the connection between the two reciprocating frames which hold the cutters, and to provide an effective automatic feed apparatus, which will not operate while the straw is being cut, but only when the cutters are moved apart.

**PLANING CHUCK.**—Augustus Newell and William Pim, Chicago, Ill.—This invention relates to a new "chuck," or "vise," to be used on a lathe, or planer, its chief object being to hold the work perfectly true. The invention consists in the arrangement and combination of the leading screw and swivel bed, with a T-bolt, a movable jaw, all parts operating so that the article to be planed cannot be upset, but will be held perfectly true.

**MACHINE FOR PRINTING SPOOLS.**—G. Hall, Jr., South Wilmington, Conn., and G. W. Averell, New York city.—This invention relates to a new and useful improvement in a machine for printing or labeling spools for holding thread, or other material of like nature, and consists in the use of a series of dies, and in connection therewith the several mechanisms for producing the movements necessary to accomplish the object in view; the main object being to print both ends of the spool directly upon the wood while the spool is passing through the machine.

**ROPE CLAMP FOR SETTING RIGGING.**—Slaight and Androvatt, Prince's Bay, N. Y.—This invention has for its object to provide an instrument for clamping and holding ropes for hoisting different kinds of articles, or for stretching or applying such ropes to the sides of ships, or other places, without requiring knots to be tied or eyes formed in such ropes.

**HEMP BRAKE.**—George Hymel, Paris, Ky.—The object of this invention is to provide a simple, durable, and effective machine for braking and cleaning hemp.

**STREET MOISTENING COMPOUND.**—Moritz Marcus, New York city.—This invention has for its object the production of a substance by which the paved streets in cities and towns can be kept clean, and whereby the air in such streets will be purified, and greater health insured.

**SAWSSET.**—Erastus Y. Clark, New York city.—This invention relates to new and useful improvements in sawsets, whereby they are made more perfect, and consequently more useful than they have hitherto been.

**GANG PLOW.**—J. W. Sursa, San Leandro, Cal.—This invention relates to new and useful improvements in gang plows, whereby they are made more effective and convenient than such plows have hitherto been.

**SHAFT AND POLE COUPLING FOR CARRIAGES, ETC.**—Charles C. Dudley and Jacob Gulden, Key Port, N. J.—This invention relates to a new device for facilitating the ready removal and application of wagon and carriage poles, with an object of leaving the clip undisturbed.

**ADJUSTABLE AWNING FRAME.**—Louis Yenne, New York city.—This invention relates to a new awning frame, so constructed that it can readily be expanded or folded together, with a view of preserving the awning and all the material connected therewith.

**BORING APPARATUS.**—Thomas St. John, Dunbar, Pa.—This invention relates to a new and useful improvement in an apparatus for boring soapstone or ores, or similar material in the process of mining, whereby the operation of getting out the softer kinds of stone and ores is greatly facilitated.

**PLOW GRINDER AND POLISHER.**—Michael Devault, Charleston, Ill.—This invention has for its object to furnish a simple and convenient machine for grinding and polishing plows, which shall be so constructed and arranged as to support and hold the plow securely, and in such a way that it may be moved about and adjusted to the stone or wheel quickly and accurately.

**RUDDER.**—Capt. W. C. Law, New York city, now residing at Ningpo, China.—This invention has for its object to improve the construction and manner of hanging rudders for ships, boats, and other vessels, so as to make them more easily shipped, less liable to be accidentally unshipped, and so that they will serve as a center board for sail boats.

**OFFICE REGISTER, OR DAILY, HOURLY, AND MONTHLY DIRECTORY.**—Henry Rentchler, Belleville, Ill.—This invention has for its object to furnish an improved device, simple in construction and convenient in use, for enabling business men and others to keep their memoranda of matters and things to be attended to, in such a shape that they can see at a glance what they have to attend to, what engagements to keep, etc., for each day of the month, and for any hour of the day.

**VENTILATORS FOR WINDOWS, ETC.**—William C. Betts, Brooklyn, N. Y.—This invention has for its object to furnish a simple, convenient, and detachable ventilator for attachment to openings in the windows, doors, or walls of a room, to remove the impure air, and introduce fresh air in such a way that no injurious currents will be established, and which may be adjusted to adapt it to different conditions of the atmosphere.

**STRENGTHENING JOINTS OF RAILS OF RAILWAYS.**—C. E. Spooner, Bron-y-Garth, Port Maoc, and George A. Huddart, Brynkir, Wales, Great Britain.—This invention relates to improvements in the mode of strengthening the joints of the rails of railways. The abutting ends of the rails, whether they be double-headed or formed with a flat base, it is proposed to clip between two plates suitably shaped to embrace the web and the foot or lower head of the rail, and of such depth that when applied they will extend vertically a sufficient distance below the rail to form a girder or stiff rib, and admit of being secured by spring clamps.

**FELLY BENDING MACHINE.**—W. D. Williams, Raleigh, N. C.—This invention relates to improvements in machines for bending felles, and consists in a fixed curved block with a curved extension hinged at each end, and provided with holding devices, a confining strap of steel or iron and operating levers, arranged for attaching the timber and bending it up into a semicircle.

**FEED MOTION FOR SEWING MACHINES.**—Wm. Cooney, Bridgeport, Conn.—The object of this invention is to arrange the feed arms in those machines used for sewing tubular articles, and also in other machines, so as to feed, not only longitudinally or transversely of the said cylinders, but at any angle between the two directions, or it may be in any direction whatever within a circle; also to arrange them to move vertically in the rising and falling movements through the slotted feed plates when moving up to and away from the work.

**Caveats** are desirable if an inventor is not fully prepared to apply for a patent. A caveat affords protection for one year against the issue of a patent to another for the same invention. Patent Office fee on filing a caveat, \$10. Agency charge for preparing and filing the documents from \$10 to \$12. Address MUNN & CO., 37 Park Row, New York.

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