No. 722,582. PATENTED MAR. 10, 1903.

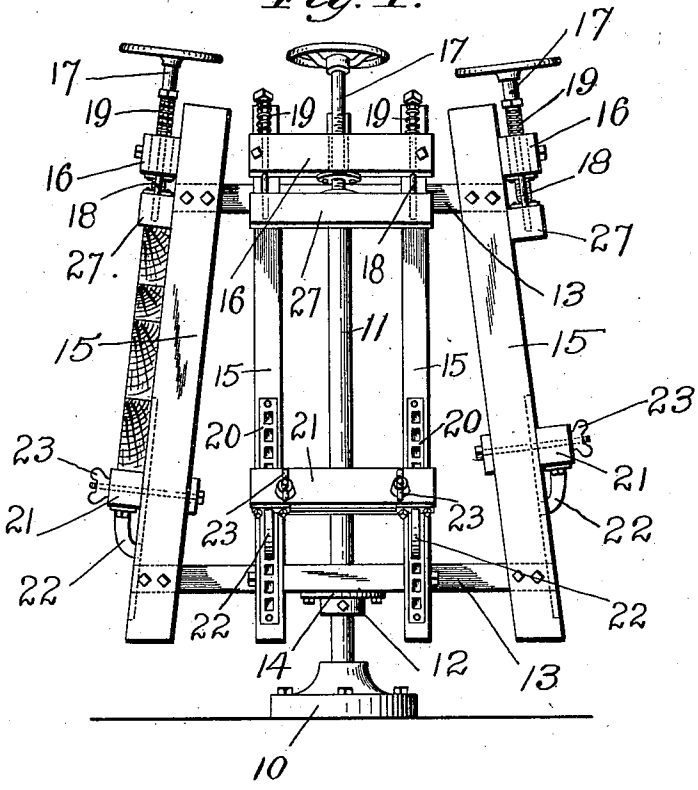
J. B. HOUGH & C. H. GARY.

REVOLVING PRESS.

APPLICATION FILED MAY 7, 1902.

NO MODEL.

Fig. 1.



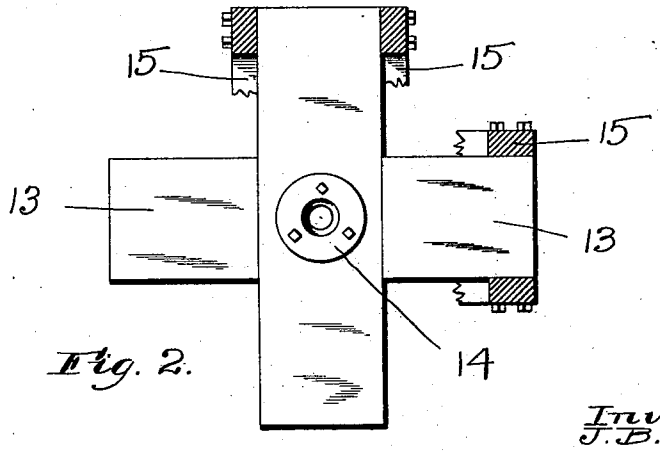


Fig. 2.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN B. HOUGH AND CHARLES H. GARY, OF ERVING, MASSACHUSETTS, ASSIGNORS TO THEMSELVES, AND WILLIAM N. WASHBURN, OF GREENFIELD, MASSACHUSETTS.

REVOLVING PRESS.

SPECIFICATION forming part of Letters Patent No. 722,582, dated March 10, 1903.

Application filed May 7, 1902. Serial No. 106,281. (No model.)

To all whom it may concern:

Be it known that we, JOHN B. HOUGH and CHARLES H. GARY, citizens of the United States, residing at Erving, in the county of Franklin and State of Massachusetts, have invented a new and useful Revolving Press, of which the following is a specification.

This invention relates to that class of presses or clamps which are employed for setting up or gluing wooden strips together.

The especial object of our invention is to provide a strong, simple, and inexpensive form of press-frame which carries a number of substantially upward presses or clamps, which may be successively brought into position to be used.

To this end our invention consists of the revolving-press frame and of the combinations of parts therein, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a side view of a revolving press constructed according to our invention, and Fig. 2 is a bottom plan view of the lower cross-pieces.

In putting up the stock for manufacturing a large number of wooden articles—such, for example, as chair-seats—it has heretofore been customary to employ hand-clamps for gluing or setting together the pieces from which each chair-seat is to be made. In practice this has required repeated handlings of the stock and a considerable waste of time and labor.

The especial object of our present invention is to provide a revolving-press frame which is pivotally supported and has a number of clamping devices or presses, which may be successively brought into position to be used as the frame is turned.

In the use of an apparatus constructed according to our invention the stock will not have to be handled or lifted bodily after having been put in place in the press, and under some conditions the stock which has been glued up may be removed from the presses as the same are successively brought into position, so as to permit a continuous use of the press-frame, although, if preferred, the stock may be left in the frame to set as long as may be required after the press-frame has been filled.

Referring to the accompanying drawings for a detail description of a revolving press constructed according to our invention, 10 designates the base-plate or center piece, which may be bolted or screwed to the floor, if desired. Extending up from the base-plate 10 is a shaft 11. Journaled on the shaft 11 are two sets of cross-pieces 13. The lower set of cross-pieces 13 is provided with a bearing-plate 14, resting upon a collar 12, which is fastened on the shaft 11.

Bolted onto the ends of the cross-pieces 13 are side pieces 15. The side pieces 15 form parts of substantially upright presses. In practice the side pieces 15 are preferably slightly inclined toward the central shaft 11 to facilitate the placing of the stock in position in the presses. This inclination, however, is comparatively slight, and in speaking of our presses as "upright," we intend to distinguish them from the ordinary horizontal presses, but do not mean to signify that the presses are necessarily exactly vertical.

Bolted onto the side pieces 15 are the fixed pieces 16, and threaded through a nut in each of the pieces 16 is a clamping-screw 17, having a hand-wheel at its upper end. At its lower end the clamping-screw 17 engages a wearing-plate carried by the movable clamp-jaw 27, which is guided up and down by guide-rods 18 and is normally held in its raised position by springs 19, coiled on the guide-rods 18.

Near their lower ends the side pieces 15 are provided with racks or ratchet-plates 20 for receiving the ends of arms 22, extending down from the lower clamp-jaws 21. The lower clamp-jaws 21 may be set to different relative positions and may be fastened in place by wing-nuts 23, threaded onto clamping-bolts, as shown.

In the use of a revolving press as thus constructed the lower clamp-jaws may be first set to position and the stock or pieces to be glued together may be placed in the presses or clamps as the same are successively turned

into position to be filled. In practice we have found that by the use of this construction the stock may be removed from the clamps as fast as it is again brought around to its starting-place, although in some cases it may be preferable to let the press stand for some little time after it is filled in order to let the glue set or harden, if required.

We are aware that changes may be made in the construction of our revolving press by those who are skilled in the art without departing from the scope of our invention as expressed in the claims. We do not wish, therefore, to be limited to the construction we have herein shown and described; but

What we do claim, and desire to secure by Letters Patent of the United States, is—

1. In an apparatus of the class described, the combination of a support, and a revolving frame pivoted on the support, and having a plurality of substantially upright presses, each having a lower jaw which may be fastened in different positions, and a spring-supported upper jaw with means for operating the same, said presses being arranged to be successively brought into position to be used.

2. In an apparatus of the class described, the combination of a support, an upright shaft, and a framework pivoted on said shaft comprising upper and lower sets of cross-pieces, and inclined side bars connecting the cross-pieces, ratchet frames or racks carried by the side pieces, lower clamp-jaws having lugs for engaging the rack-frames, and means for holding the lower clamp-jaws in place, spring-supported upper clamp-jaws, and a screw and hand-wheel for operating each of the upper clamping-jaws, said parts being arranged so that the presses may be successively brought into position to be used.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

JOHN B. HOUGH.
CHARLES H. GARY.

Witnesses:
HARRY N. BLACKMER,
CLARENCE K. TURNER.