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J. H. Groves. Press

No. 122,458.

Patented Jan. 2, 1872.

Fig. 2.

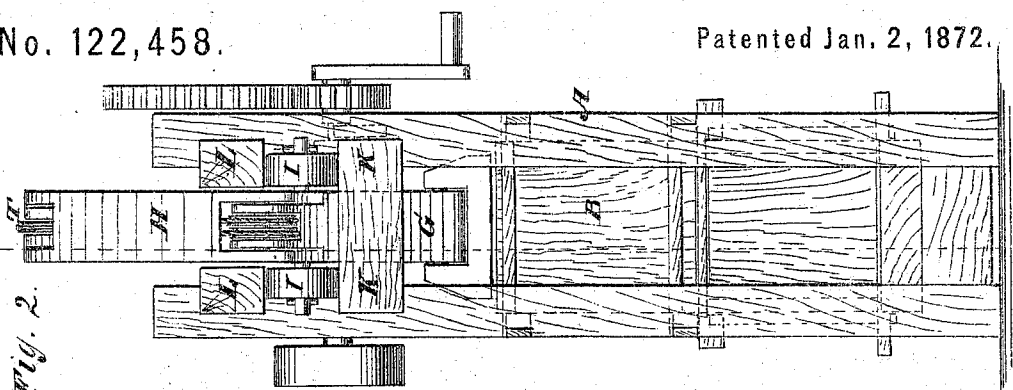
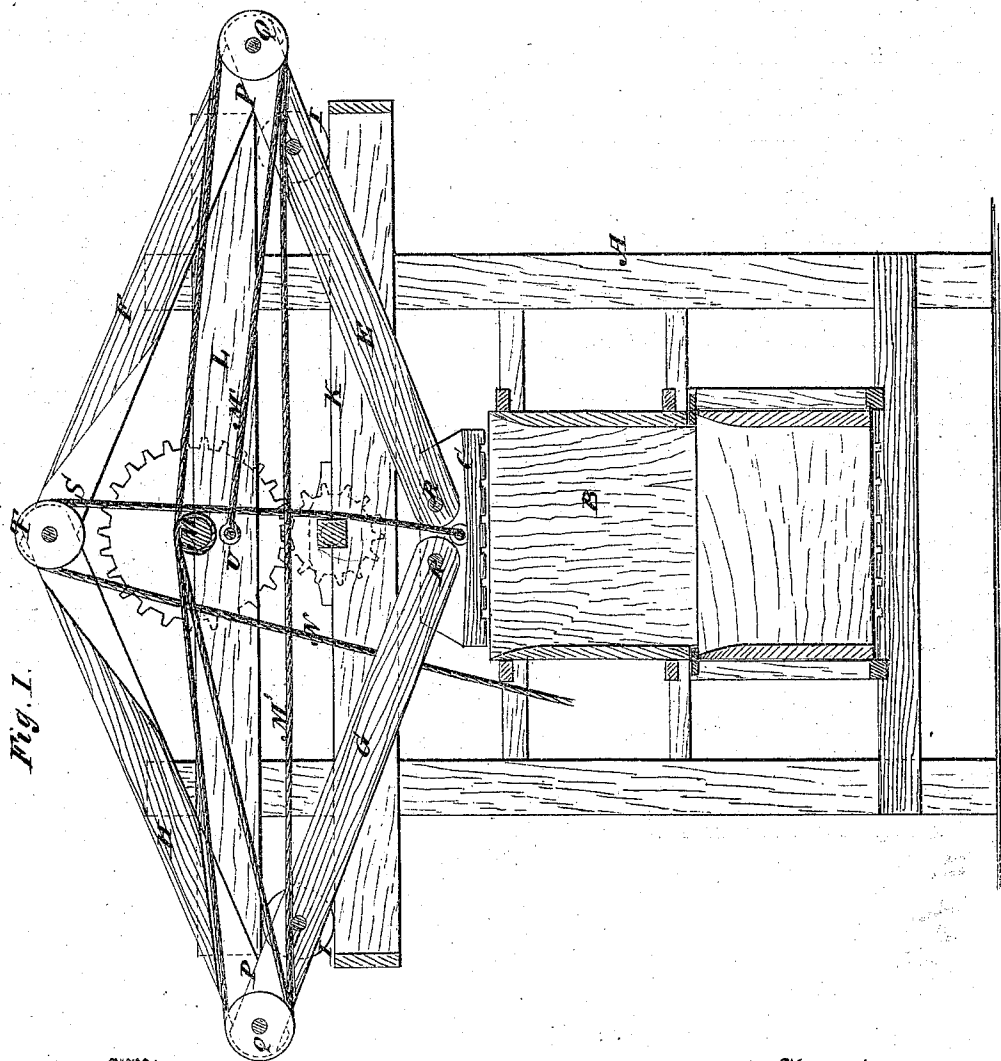


Fig. 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN H. GROVES, OF GREENWOOD, MISSISSIPPI.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 122,458, dated January 2, 1872.

To all whom it may concern:

Be it known that I, JOHN H. GROVES, of Greenwood, in the county of Leflore and State of Mississippi, have invented a new and Improved Cotton-Press; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention consists in the improvement of presses, as hereinafter fully described and subsequently pointed out in the claim.

Figure 1 is a sectional elevation of the improved press; and Fig. 2 is a side elevation.

Similar letters of reference indicate corresponding parts.

A is the vertical frame of the press; B, the box or case; C, the follower; E and F, one of the pairs of arms; G and H, the other pair; I, the rollers controlling the arms as they are moved forward and back; K and L, horizontal bars on the upper part of the frame, one above another, forming the ways for the said rollers. M is a windlass; and M' and N, cords for working the said bars. The bars of each pair are jointed to each other at P, and provided with a roller, Q', at the said joints. Each pair is jointed to the follower at R and together at S, where another wheel or roller, T, is mounted. The windlass is mounted on one pair of the horizontal bars, say the upper ones, L, and it may have a power-wheel on the other bars gearing with it for driving it; or the crank or pulley may be placed on its axle.

The rope M' is attached to the frame, say at U, passes over the pulley Q at the right hand, thence to and around roller Q' at the left, thence back over the one at the right, thence over the one at the left again, and thence to the windlass, as shown, being passed around and fastened to it, so that by turning said windlass to the right the rope will be wound on and joints P brought toward each other, by which the follower will be forced down with great power. For withdrawing the follower the windlass is turned back to the left to unwind rope M, and the rope N connected to the follower is pulled down over pulley T, which moves the joints P back and raises the follower very quickly. The follower is also forced down quickly, and the effect of the power on the cotton increases as the resistance increases by reason of the shifting of the leverage in favor of the power due to this arrangement of toggle-jointed arms.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The arrangement of the levers E G, pivoted to the follower C, and the levers F H, provided with the pulleys Q Q' T between the knuckle-joints and the windlass mechanism M M' N, all constructed substantially as and for the purposes set forth.

JOHN H. GROVES.

Witnesses:

A. J. LOCKE,
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