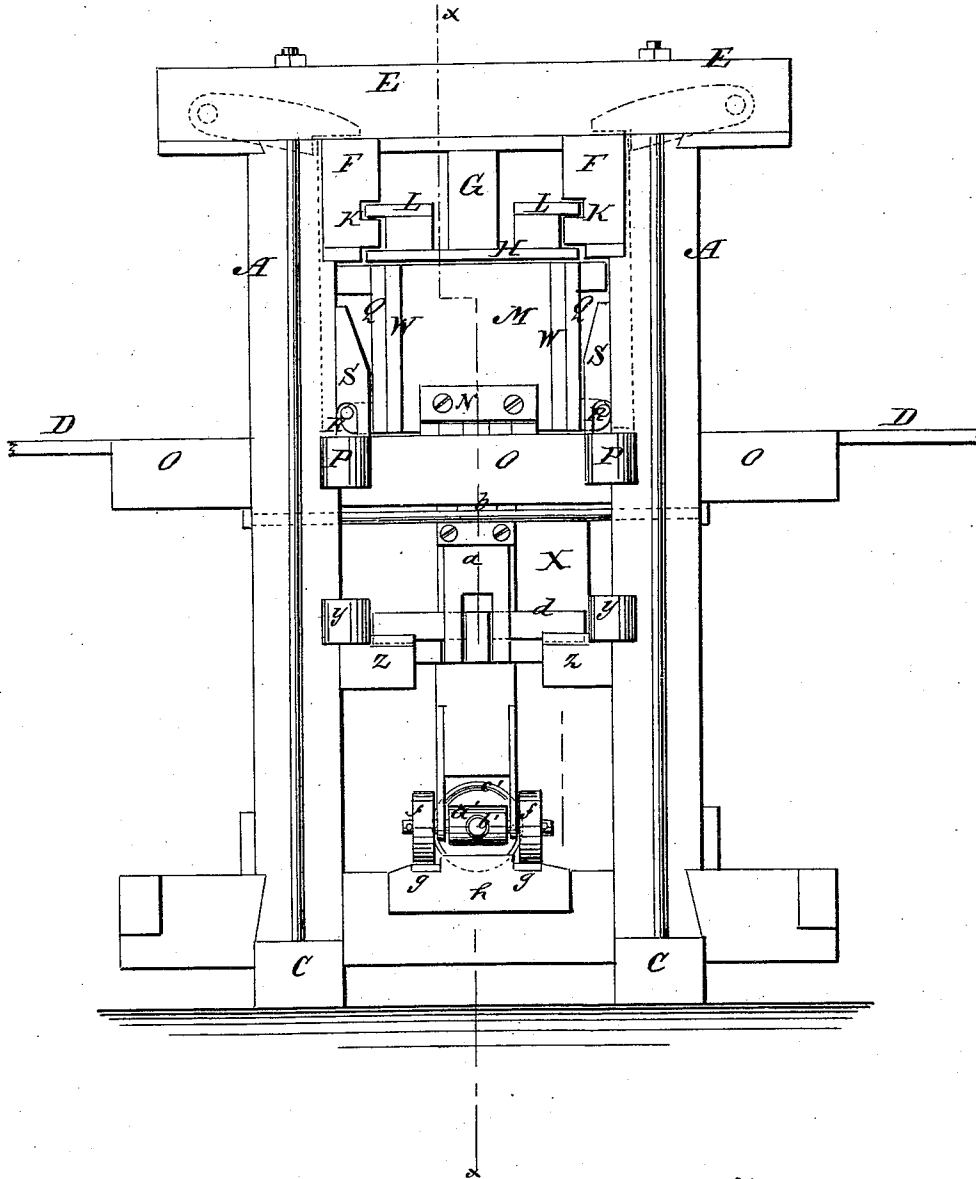


W. A. SALMON.
Cotton-Presses.

No. 153,496.

Patented July 28, 1874.

Fig. 1.



Witnesses:

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Sedgwick*

Inventor:

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Wm. H. H.
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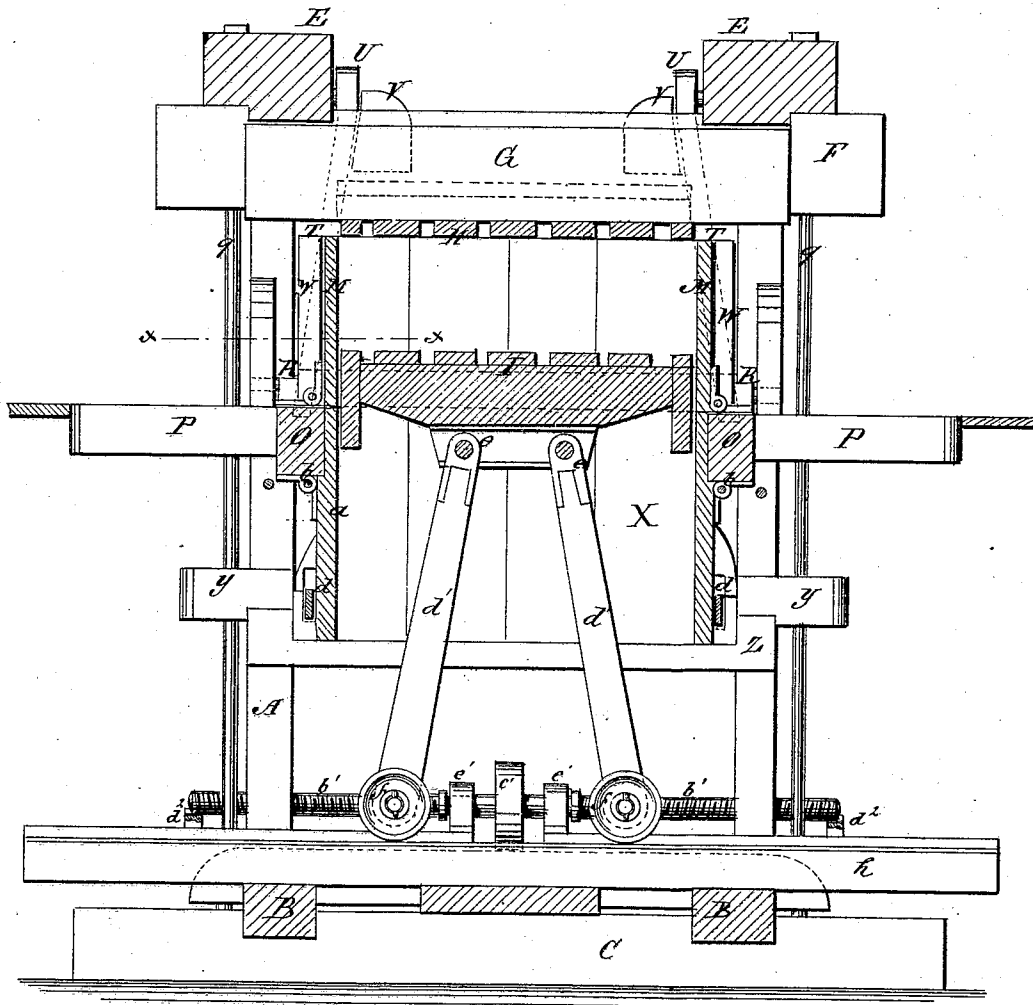
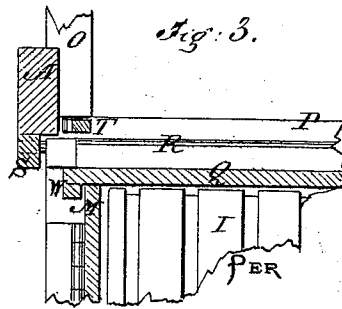


Fig. 3.



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UNITED STATES PATENT OFFICE

WILLIAM A. SALMON, OF MARSHALL, TEXAS.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. **153,496**, dated July 28, 1874; application filed March 22, 1873.

To all whom it may concern:

Be it known that I, WILLIAM A. SALMON, of Marshall, in the county of Harrison and State of Texas, have invented a new and Improved Cotton-Press, of which the following is a specification:

The invention consists in the improvement of cotton-presses, as hereinafter fully described, and pointed out in the claims.

Figure 1 is a side elevation of my improved press. Fig. 2 is a sectional elevation taken on the line *x x* of Fig. 1, and Fig. 3 is a partial horizontal section taken on the line *y y* of Fig. 2.

Similar letters of reference indicate corresponding parts.

A represents the four posts of a strong vertical frame, extending upward from the platform B upon the sills C high enough to stand upon the ground or floor of the story below the lint-room and extend through the floor D far enough to have that portion of the case which contains the bale, when pressed, above said floor. At the top, said posts have strong caps E, connecting each two crosswise, or in the shortest diameter of the frame; and under these, extending at right angles to them, and between the posts, are arranged the three strong timbers F, F, and G, for holding the head H of the press, and sustaining it against the action of the follower I, which works up from below into the case. This head H, together with the middle beam G, slides over the top of the press-case to close it, and away to open it, being supported under the beams F in grooves K, in which plates L (attached to it) are fitted. The end boards M of the upper portion of the case are hinged at N to a strong frame, O P, arranged within the posts A level with the floor D, and the side boards Q are pivoted on a roller, R, lying on a beam, P, with the ends extending along the insides of the posts A, to confine the side Q at the lower ends when closed up. These rollers have a small journal at each end, confined by the buttons S, to keep said rollers in position. These sides are fastened, when closed up, by the bars T and buttons U, the said bars entering notches in the beam P at the lower ends, and being locked against the beam F, between the caps E and blocks V, at the upper ends. The end boards or doors M are confined, when closed, by the cleats W on the ends of the sides Q. The lower permanent

sides X of the press are attached to the frame O P and the beams Y Z, and a door, *a*, is provided in each narrow side, and hinged thereto at the top, as shown at *b*, under the beam O, and provided with a latch, *d*, at the lower end to fasten it closed. These doors are provided to be opened shortly after the press is set in motion to make room for the bars *d'*, by which the follower is forced up, which said bars are pivoted to the under side of the follower at *e*, and rest at their lower ends on rollers *f*, which rest in the tracks or ways *g* in the upper side of the beam *h*, which lies on the platform B under the center and in the direction of the longest diameter of the press-case, and on which said bars are carried by said rollers away from the center or vertical line between them, one each side, till said bars come down to a horizontal line, or nearly so, to let the follower down, and they are connected to the axles *a'* of the rollers, through which a right-and-left-threaded screw-shaft, *b'*, works to move the said bars forward and back, the said shaft being turned first one way and then the other by a belt from any competent driving-power working on the pulley *c'*. This shaft is supported in strong bearings *e'* each side of the pulley, and on rests *d''* at the outer ends. The bed-sills C and the caps E are connected by the tie-rods *g*, by which the ends of the frame are connected together very strongly to resist the great stress upon it in the lengthwise direction when the follower is forced up.

The screw by which the follower is worked will hold it in any position, in case the machine has to be stopped during the progress of the work. It affords a very cheap and simple means of working the follower.

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

1. The press-box provided with a sliding top, H, hinged side doors W, and end doors M, the latter being secured in a closed position by the end cleats Q of the side doors, as herein shown and described.

2. The pivoted latches S, rollers R, journaled therein, and the boards Q, combined in the manner described, to allow the rollers and boards to be removed by opening the latches.

WILLIAM A. SALMON.

Witnesses:

J. P. LYNCH,
T. E. COLEMAN.