2 Sheets--Sheet 1.

W. H. TAPPEY, A. STEEL & C. J. BEASLEY.

Cotton and Hay Press.

No. 164,608. Patented June 15, 1875.

Fig. 1.

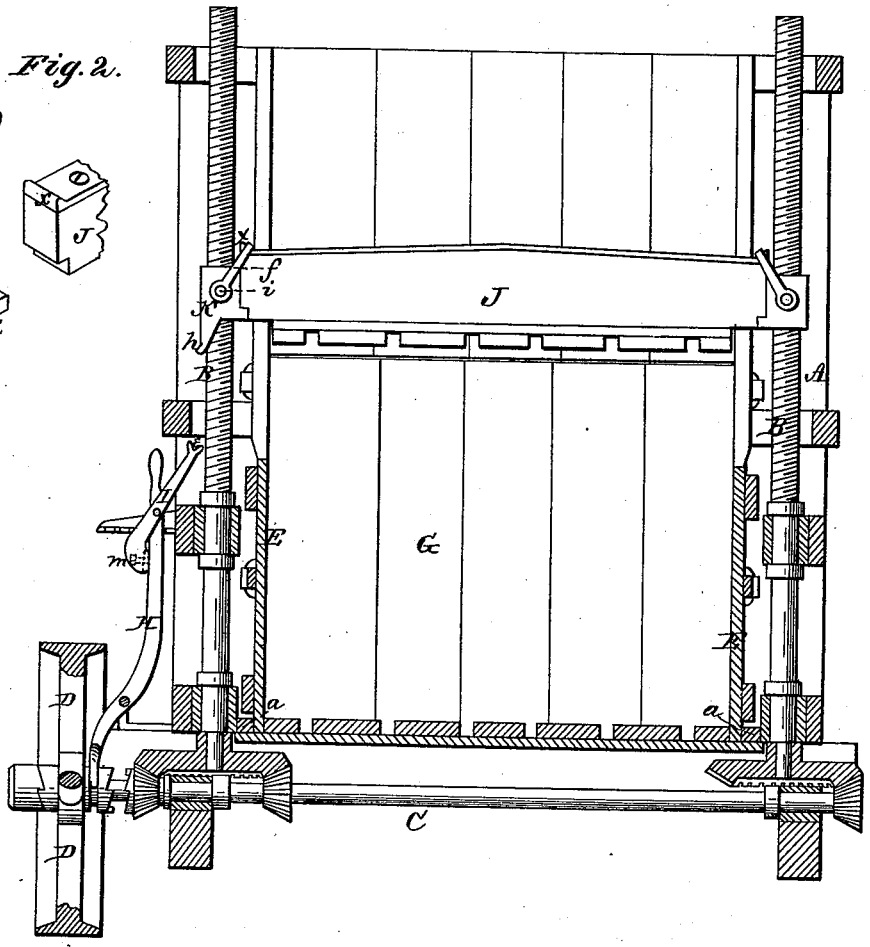
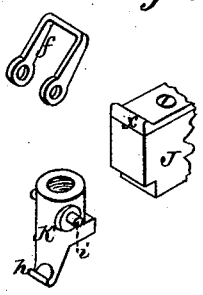


Fig. 2.



WITNESSES

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2 Sheets--Sheet 2.

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Fig. 3.

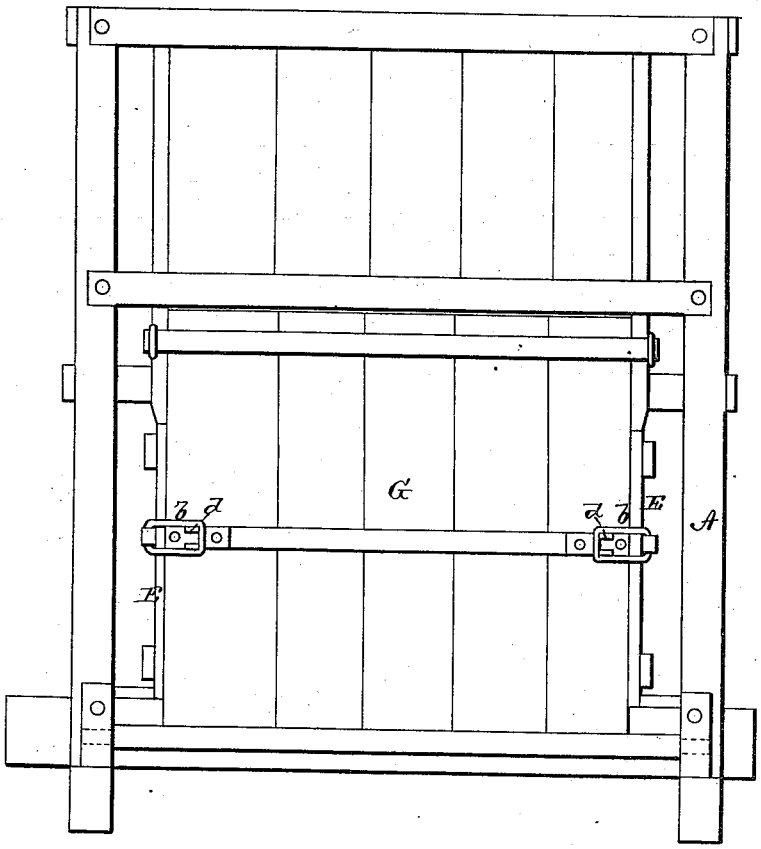
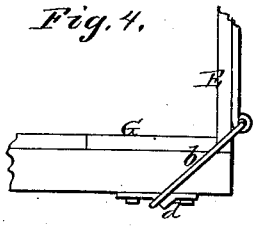


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM H. TAPPEY, ALEXANDER STEEL, AND CHARLES J. BEASLEY, OF PETERSBURG, VIRGINIA; SAID BEASLEY ASSIGNOR TO SAID TAPPEY AND STEEL.

IMPROVEMENT IN COTTON AND HAY PRESSES.

Specification forming part of Letters Patent No. **164,608**, dated June 15, 1875; application filed April 17, 1875.

To all whom it may concern:

Be it known that we, WILLIAM H. TAPPEY, ALEXANDER STEEL, and CHARLES J. BEASLEY, of Petersburg, in the county of Dinwiddie, and in the State of Virginia, have invented certain new and useful Improvements in Cotton and Hay Presses; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

Our invention is intended as an improvement in the cotton and hay press for which Letters Patent No. 113,246 were granted to C. J. Beasley, April 4, 1871; and the nature of our invention consists in a mechanism for shifting the stop-lever, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a longitudinal vertical section of the Beasley press embodying our improvements. Fig. 2 shows the means for connecting the follower to the movable nuts. Fig. 3 is a side elevation of the improved press. Fig. 4 shows the connection between the end and side doors.

A represents the frame of the press. B B are the upright screws, connected by gearing with the driving-shaft C, on which is the shifting band-pulley D, having its hub provided with clutches for adapting it to engage with collars on each side thereof fixed on the shaft, all as described in the patent above referred to. That portion of the end casing or box of the press immediately opposite the end of the bale is made in a separate piece or door, E, the lower end of which is held in place by a cross-bar, *a*, in the frame, while the upper end is clamped to the side door G by a link or strap, *b*. One end of this link is attached to the end door E, the link passing across the corner at an angle of about forty-five degrees, and the other end passing over a suitable projection, *d*, on the bar of the side door G. These straps or links being at all four of the corners, and the pressure against all four of the doors, it is evident that the straps or links will hold all the doors in position. When the doors are to be removed, the ends of the links *b* are removed from the projections *d*, which at once puts the doors at liberty. H represents the shifting-lever, on which is pivoted a finger, I. The outer end of this finger is made heavy enough to overbalance the inner or upper end, which will cause it to stand in the position shown in Fig. 1. The upper end of the finger I is forked, as shown at *e*. J is the follower, attached to the nuts K K on the screws B B by means of links *f*, which turn on projections *i* on the nuts, the upper ends passing over suitable projections *x* on the follower. These straps or links may be turned back off of the projections *x*, to disconnect the follower for removal to fill the case. When the follower has arrived near the bottom, a projection, *h*, on the nut K on that side will strike in the fork *e* of the finger I, and, as the nut moves in a straight line, force the lever H outward, disconnecting the inner clutch of the band-pulley D, and stopping the motion of the follower. Through the lower end of the finger I is passed a set-screw, *m*, the point of which touches the lever H, and thus serves to set the finger to the required position.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent is—

The combination, with the shifting-lever H, of the finger I, pivoted thereto and forked at its upper end, and the projection *h*, formed on the nut K, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 8th day of April, 1875.

WILLIAM H. TAPPEY.
ALEXANDER STEEL.
CHARLES J. BEASLEY.

Witnesses:
WM. C. LUMSDEN,
WM. ALEXANDER,
D. A. WEINGER.