

(No Model.)

E. C. WORTHEN.
HAY AND COTTON PRESS.

No. 287,750.

Patented Oct. 30, 1883.

Fig. 1.

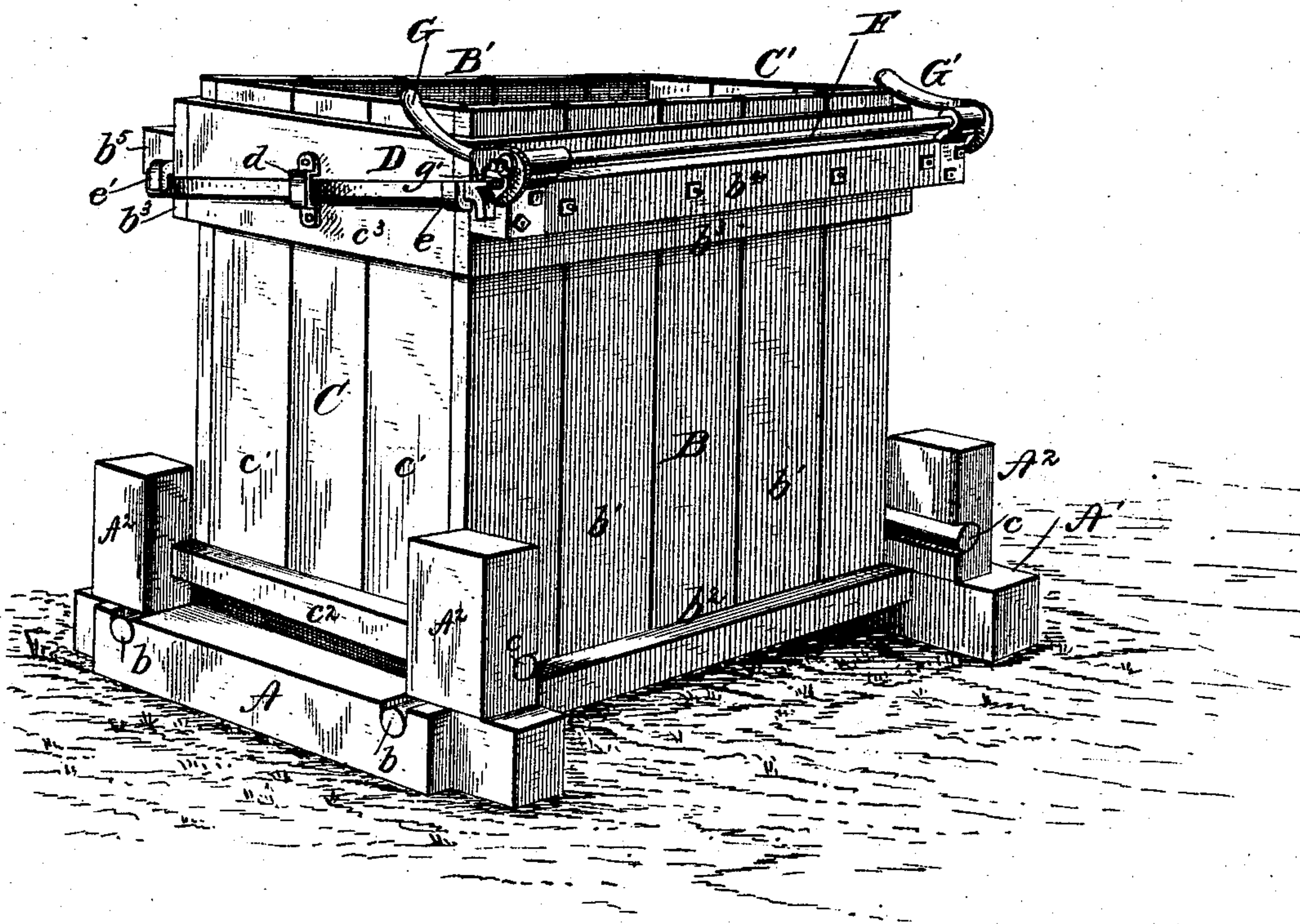
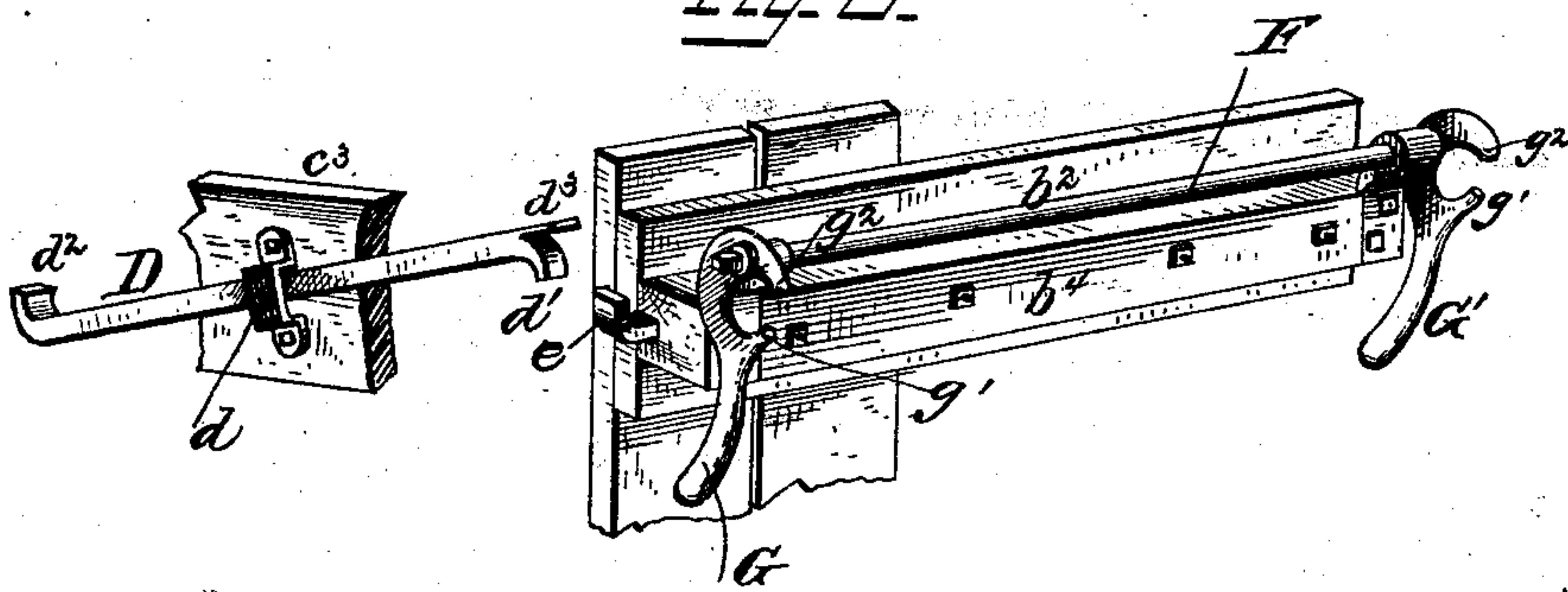


Fig. 2.



WITNESSES
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EDGAR C. WORTHEN, OF CHARLOTTE, NORTH CAROLINA, ASSIGNOR TO
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HAY AND COTTON PRESS.

SPECIFICATION forming part of Letters Patent No. 287,750, dated October 30, 1883.

Application filed September 22, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDGAR C. WORTHEN, of Charlotte, county of Mecklenburg, State of North Carolina, have invented a new and useful Improvement in Hay and Cotton Presses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to the means for securing the sides or doors of the baling-chamber, whereby they are adapted to be released for opening the chamber and freeing the bale by the operation by the attendant of a single lever; and it consists in the combination, with a baling-chamber in which the vertical walls or sides are made in the form of pivoted or hinged doors, of centrally-pivoted latch-bars, suitable retaining-hooks, and a lever or levers connected with a rock-shaft, whereby the latch-bars can be simultaneously rocked or vibrated for releasing or securing the doors by the operation of a single lever, as hereinafter explained.

In the accompanying drawings, Figure 1 is a perspective view of the baling-chamber of a hay or cotton press with my improvements applied, showing the doors closed and fastened; and Fig. 2 is a detail perspective view, showing one of the pivoted latch-bars and retaining-hooks, and the rock-shaft and its levers for actuating the latch-bars, whether for releasing or securing the same.

The press, aside from the features herein-after specifically described, may be of any usual or preferred construction, and it will therefore not be described further than is necessary to an understanding of my improvements.

A A' represent portions of the press-frame, the same being transverse or horizontal frame-bars uniting the corner posts or uprights of the frame, and in suitable bearing-sockets in which the shafts or pivots b of the side doors, B and B', are mounted, as shown, and A² are corner posts or extensions of the upright corner frame-timbers, reaching above the bars A and A', and in which the shafts or pivots c of the end doors, C and C', have their bearings, as shown. These doors may be made in any usual or preferred way, but are shown as com-

posed of upright boards or strips b' and c' , secured at their lower ends to the inner faces of the horizontal bars b^2 c^2 , the ends of which extend beyond the upright boards and are rounded to form the journals or pivots b and c of the doors. The upper ends of the strips b' and c' are secured, respectively, to transverse bars b^3 and c^3 , and to the latter in suitable brackets, d , arranged at or near the center of their length, are pivoted the latch-bars D, one at each end or side of the press, only one, however, being shown in the drawings. To the ends of the bars b^3 on the doors B and B', or to supplemental stiffening-bars b^4 and b^5 , rigidly secured to the bars b^3 , are secured retaining-hooks e e' , the former open from above and the latter from below, to adapt them to receive and engage the ends of the centrally-pivoted bars D, and which are provided with hooks or hooked ends d' and d^2 , the former projecting downward and the latter upward in hook form, to adapt them to engage and retain the hooks e and e' in a manner that will be readily understood from an inspection of the drawings. By this arrangement, when the latch-bars are engaged with the hooks e and e' , both the end and the front and rear doors will be held closed, and the release of said latch-bars, by vibrating them on their central pivots, serves to simultaneously release all the doors.

In suitable bearing-brackets, f , on the bar b^4 or b^5 is mounted a rock-shaft, F, provided at its ends with cam-levers G and G', adapted to engage with spurs d^3 on the adjacent ends of the latch-bars D. These cam-levers are forked or provided with arms or spurs g and g' on its cam-shaped or pivoted end, the spur d^3 on the latch-bar passing between said arms when the doors are closed. The arms or spurs g , when the doors are closed and fastened by the latch-bars, rest upon said bars or spurs d^3 , and serve to prevent accidental displacement of the latch-bars; but by rocking the shaft F outward through either of the levers G or G', the arms or spurs g are made to act upon the lower faces of the spurs d^3 , for rocking the latch-bars D on their central pivots, until they are freed from their retaining-hooks e and e' , when the doors will all be released and free to rock on their shafts or pivots for opening the baling-chamber and releasing the bale.

Having now described my invention, I claim as new—

1. The combination, with the doors of a baling-press, of the centrally-pivoted latch-bar, the retaining-hooks, and means for actuating said latch-bar for engaging the same with or disengaging it from the retaining-hooks, substantially as described.

2. The combination, in a baling-press provided with side or end and front and rear doors, of the centrally-pivoted latch-bars, the retaining-hooks, and the rock-shaft, with its forks or levers for actuating said latch-bars, substantially as described.

3. The combination, in a baling-press, of the hinged doors B and B', C and C', the centrally-pivoted latch-bars D, with the hooked ends, the retaining-hooks *e* and *e'*, the rock-shaft F, and the levers G and G', arranged and operating substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand this 21st day of September, A. D. 1883.

E. C. WORTHEN.

Witnesses:

W. E. PICKARD,
E. MORGAN.