H. D. COLEMAN.

Baling-Press.

No. 205,056. **Patented June 18, 1878.**

Fig. 3

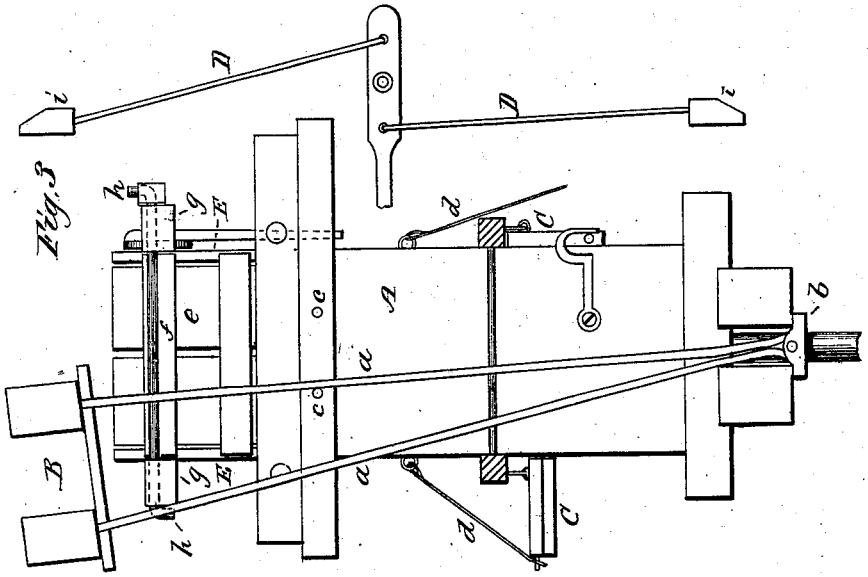

Fig. 2.

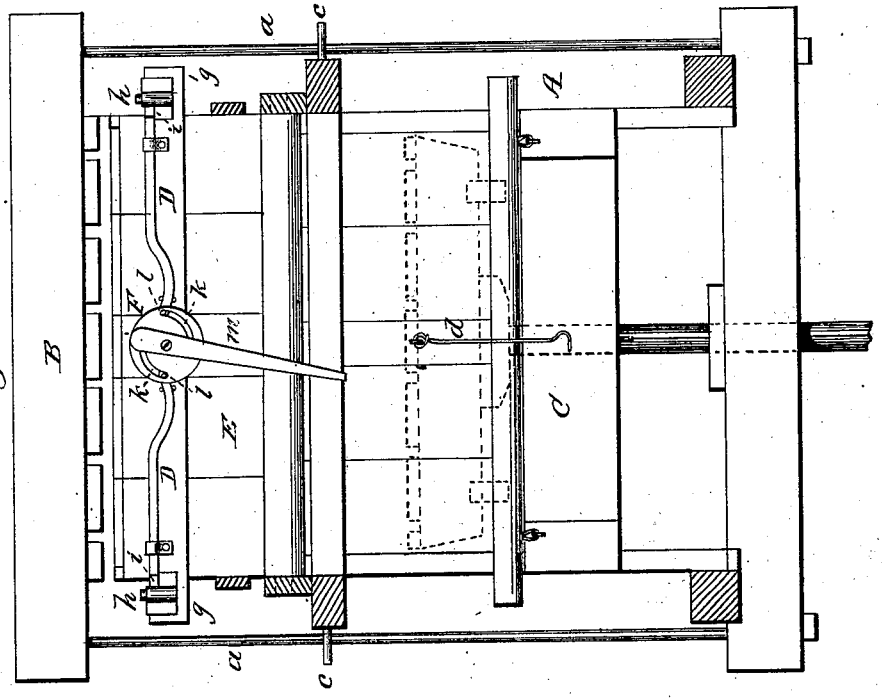

Fig. 1.

WITNESSES

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H. DUDLEY COLEMAN, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. **205,056**, dated June 18, 1878; application filed February 27, 1878.

To all whom it may concern:

Be it known that I, H. DUDLEY COLEMAN, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and valuable Improvement in Baling-Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of my invention. Fig. 2 is an end view of the same. Fig. 3 is a modification of the locking and unlocking device.

This invention has for its object to facilitate the operation, as far as possible, of certain parts in that class or presses for baling cotton, hay, &c.; and consists in providing means whereby the side and end doors of the press are simultaneously locked or unlocked, as will be hereinafter described.

In the accompanying drawings, A represents the frame or body of the press, the top of which is covered by a suitable platen, B, connected to the bottom of the frame or body by rods *a*, arranged in pairs upon each side thereof, said rods meeting at their lower ends, and being pivoted to the blocks *b*. If desired, however, a continuous rod may be used upon each side of the frame or body, of sufficient length to allow of its being bent to form a bifurcated truss, as illustrated in Fig. 2 of the drawings. By this arrangement the platen B may be readily shifted to either side when the press is being filled, the movement of the rods being limited by stops *c*, against which the rods strike. To the sides of the frame or body A are hinged doors C, which may be held open at right angles, or nearly so, to the frame or body by hooked rods *d* or other suitable means, the purpose of which is to facilitate the ready placing of the bagging upon the bottom follower.

The upper end doors *e* are secured in place to the body or frame A by horizontal rods *f* fitting in grooves in the cross-beams *g*. The ends *h* of these rods are bent at right angles thereto and in opposite directions to each other, so that, when placed within the grooves, the said crooked ends of the rods on one side of the press will bear against the sides of the beams *g*, while the other ends, which are bent upward, or in a reverse direction to the opposite ends, project out from the side of the beam, to receive between them and said beam the wedge-shaped ends *i* of the sliding bolts D. These bolts are operated to lock or unlock the doors E, which are pivoted or hinged to the sides of the frame or body A, and allow the end doors E to be secured to or removed from the frame or body, the bolts D being operated by a disk, F, formed with inclined slots *k*, which receive pins *l* upon the inner ends of the bolts.

By this construction both the ends of the doors E can be locked or unlocked simultaneously by moving in the proper direction the disk F by the handle *m* secured thereto. By moving the handle in one direction, the inclined slots in the disk will, through the medium of the pins *l* secured to the bolts, force the latter outward and the wedge-shaped ends *i* between the upturned ends of the rods *f* and side of the beam, thereby securely holding the rods *f* against the end doors *e*, to retain them in place, and also locking both the side doors E.

When it is required to unlock or release the doors, the disk F is moved by the handle *m* in the opposite direction, drawing the bolts D inward and the ends *i* from between the turned-up ends of the rods and side of the beam, thus unlocking and releasing both ends of the doors E at once or simultaneously, which also releases the end doors *e*. This simultaneous unlocking both ends of the doors has been found of great importance, as when one end alone was released or unlocked the great pressure within the box upon the door would strain and rack it until the opposite end was released, and in many instances injure the door.

Although I have described the above means of locking and unlocking the doors, I do not, however, wish to be understood as confining myself to the precise construction shown, as various other devices may be employed to accomplish the same end, viz., simultaneously unlocking the ends of the side door—as, for example, in place of the disk a hand-lever may be used, working upon a pivot, and the inner ends of the bolts secured to the lever above and below the pivotal point, which, in effect,

will be a substantial equivalent, accomplishing the same desired result. Therefore it will be understood that any particular form of locking device or unlocking device, or mechanism by which the bolts are operated, is not considered essential to the successful operation; and my invention is equally applicable to the lower doors of that class of presses which pack down.

Having now fully described the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The means, substantially as herein described, for simultaneously locking or unlocking the ends of the door of a baling-press, for the purpose set forth.

2. The means, substantially as herein specified, for locking or unlocking the ends of the door of a baling-press, consisting of clamping-rods and the means for locking or unlocking said rods, for the purpose set forth.

3. The means, substantially as herein described, for locking or unlocking the doors of a baling-press, consisting of bent rods and sliding bolts for securing or releasing said rods, for the purpose specified.

4. The means, substantially as herein described, for locking or unlocking the doors of a baling-press, which consists of bent rods or clamping-bars, in combination with sliding bolts operated by a slotted plate, for the purpose set forth.

5. The herein-described means for locking the doors of a baling-press—the combination, with clamping-rods having their ends bent in opposite directions and at right angles, of sliding bolts having pins or projections upon their inner ends fitting within inclined slots in a disk or plate, by which said bolts are operated, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

H. DUDLEY COLEMAN.

Attest:

P. ALEONAND,

D. I. DOWERS.