

JOEL S. COOK.

Improvement in Baling Presses.

No. 121,087.

Patented Nov. 21, 1871.

Fig. 1.

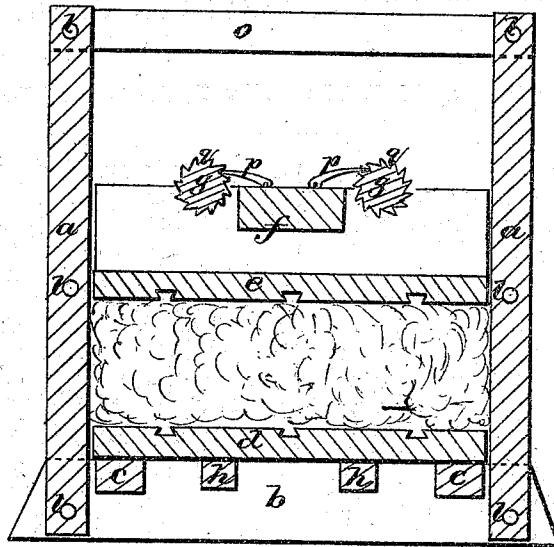


Fig. 3.

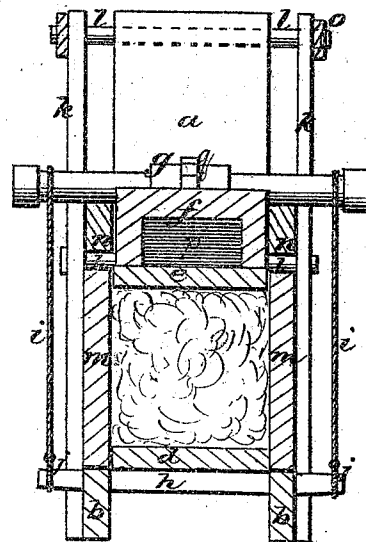
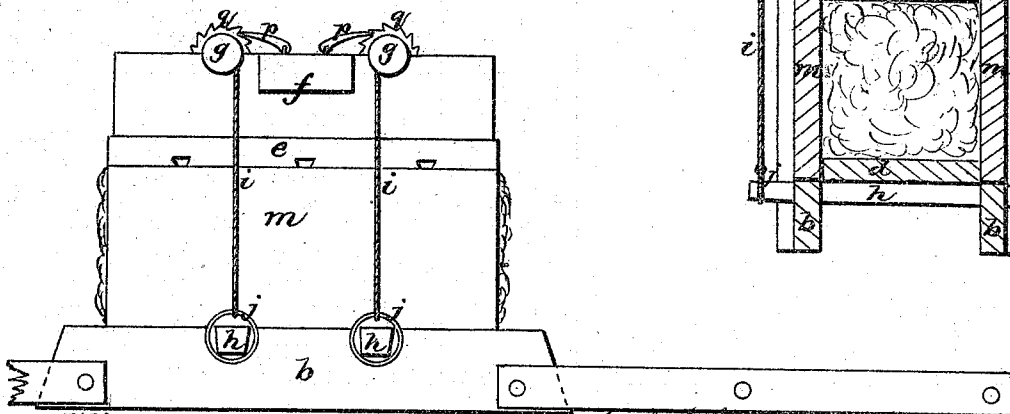


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOEL S. COOK, OF WEST GROTON, MASSACHUSETTS.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. 121,087, dated November 21, 1871.

To all whom it may concern:

Be it known that I, JOEL S. COOK, of West Groton, Middlesex county, Massachusetts, have invented an Improved Hop and Hay-Press, of which the following is a specification:

This invention relates to hand-presses in which a chair or frame rests upon the follower and a pair of windlasses lie upon the chair, said windlasses being connected by chains with joists running crosswise of the press, beneath the box, both the joists and the followers projecting at their ends beyond the sides of the box so as to give room for the attachment of the chains, to the end that, by turning the windlasses, they may be made to take up the chains, thus forcing the followers downward in the box, and consequently compressing the charge.

Referring to the drawing, Figure 1 is a longitudinal sectional elevation of the press closed; Fig. 2, a side elevation of the same open; and Fig. 3, a transverse vertical section.

a are the ends of the press-box. *b* are the sills, between which the lower ends of the pieces *a* are pivoted in such a manner that they may be turned downward to the floor. *c* are cross-pieces framed into the sills. *d* is the unattached bottom of the press-box resting on the cross-pieces. *e* is the unattached top of the press-box, in other words the follower. *f* is the chair resting on the follower. *g* are the windlasses, placed in grooves running crosswise of the chair. *h* are the joists, located in grooves in the sills *b* beneath the bottom *d*. *i* are the chains, connected at their upper ends directly to the windlasses *g*, and at their lower ends with rings *j*, which inclose the joists *h*. *k* are strips placed opposite the edges of the end pieces *a*, outside the sills *b*, and connected with the end pieces by means of transverse bolts *l*. *m* are lower side-boards of the press-box, resting on the sills *b*. *n* are the upper side-boards, resting on the lower ones. *o* are side braces connecting the tops of the strips *k*. *p* are pawls pivoted to the chair *f*, and engaging with ratchets *q* fixed on the windlasses *g*.

Suppose the box to be made up, the charge in,

and the follower, chair, and windlasses in place. Let the windlasses be turned by means of levers in the usual manner, observing to turn each windlass toward the adjacent end piece. This will cause the chair to depress the follower, and, when the windlasses strike the upper side-boards *n*, these should be removed by drawing them endwise between either of the end pieces *a* and its appurtenant strips *k*. By the time the windlasses reach the lower side-boards the pressure of the follower upon the charge will have become sufficient. The pawls *p* hold all that has been gained. Then the braces *o* should be disconnected at one end from the strips *k* and the end pieces *a* turned backward. Next draw out the lower side-boards *m*, when the bale will be entirely exposed, except at its upper and lower sides, and can be easily bound in whatever manner desired, after which the pawls *p* should be disengaged from the ratchets *q*, the windlasses, chair, and follower taken off from the bale, and the latter removed from the press. Finally, the end pieces should be turned up perpendicular and fastened by means of the braces *o*, and the side-boards replaced, when the press is ready to be recharged.

The bolts *l* can be withdrawn or replaced in a moment's time, and the press as readily taken apart and put together. The press need not contain more than one hundred and fifty feet of lumber, is so simple that any farmer can easily construct it, is sufficiently light to be transported on a wheelbarrow by one man, and need not cost over sixteen dollars.

I claim as my invention—

1. The combination of the windlasses *g*, chair *f*, follower *e*, bottom *d*, joists *h*, and chains *i*, constructed and arranged to operate as specified.
2. The press-box herein described, consisting of the pivoted end pieces *a*, strips *k*, braces *o*, sills *b*, cross-pieces *c*, and side-boards *m n*, constructed as described.

Witnesses:

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