

(No Model.)

2 Sheets—Sheet 1.

A. JARRARD.

BALING PRESS.

No. 385,355.

Patented July 3, 1888.

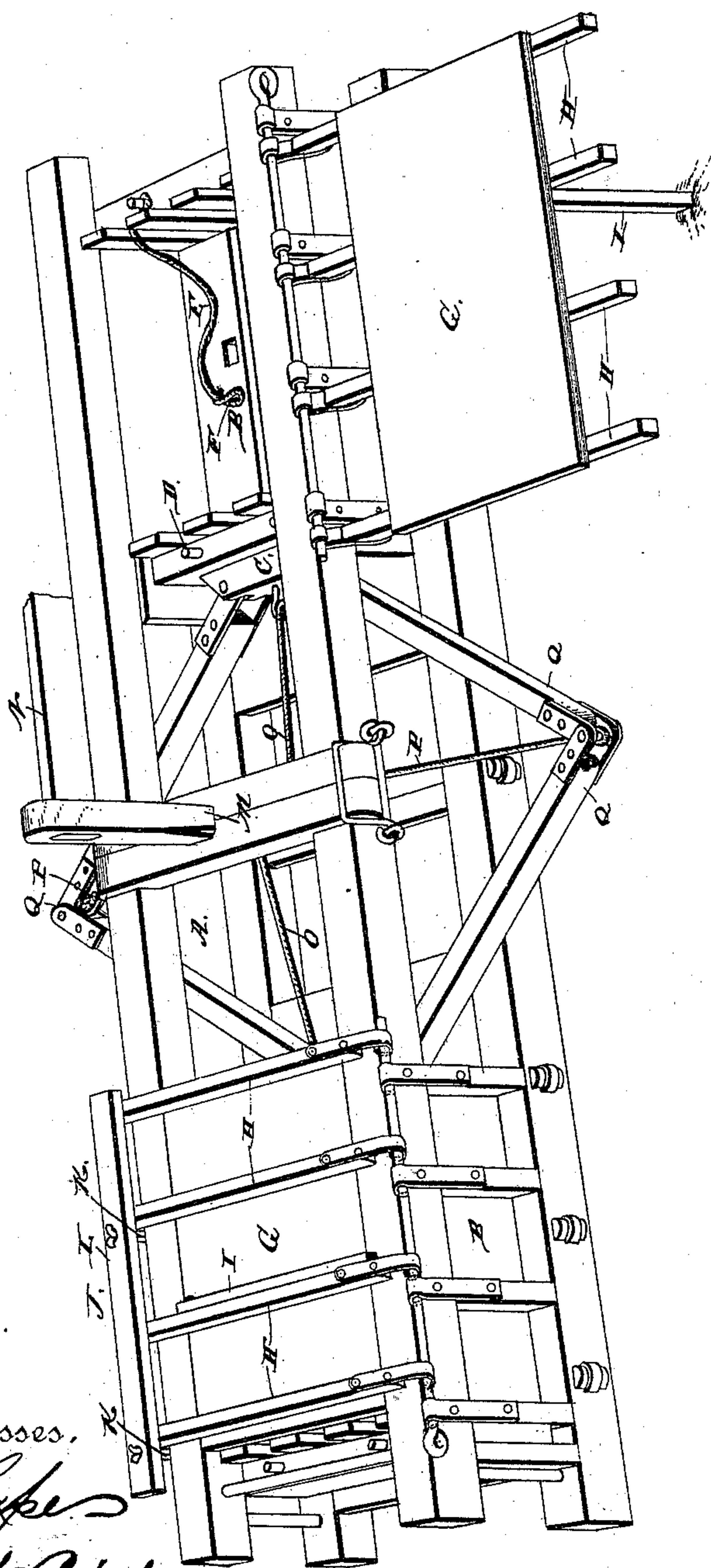


Fig. 1.

Witnesses.

Geo. H. H. H.

R. W. Bishop.

Inventor.

A. Jarrard.

by *C. M. Howells*
Attorneys.

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2 Sheets—Sheet 2.

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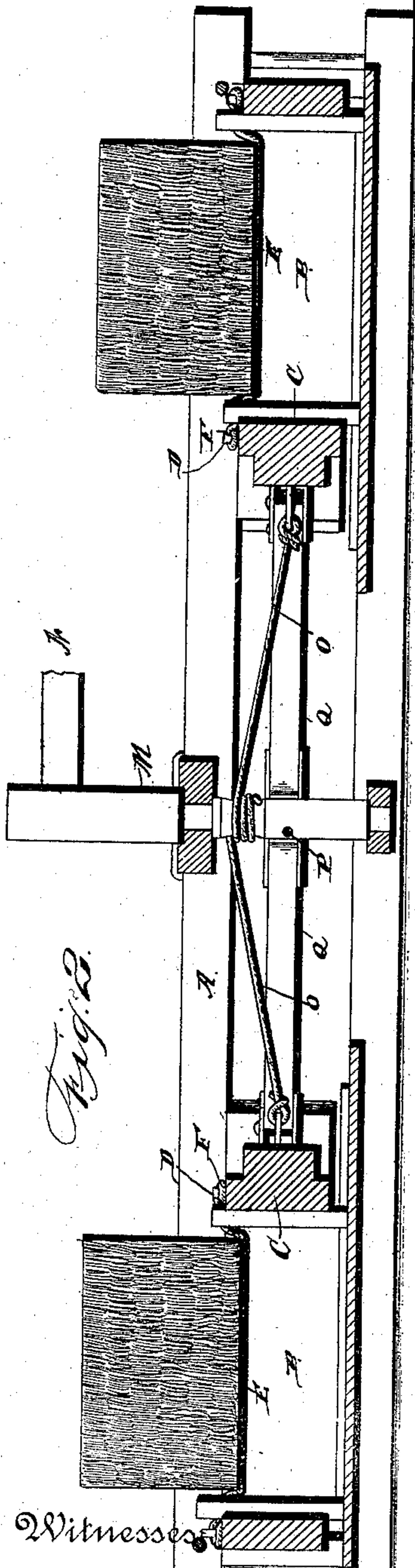


Fig. 2.

Witnesses

Geo. Thompson
O. W. Bishop.

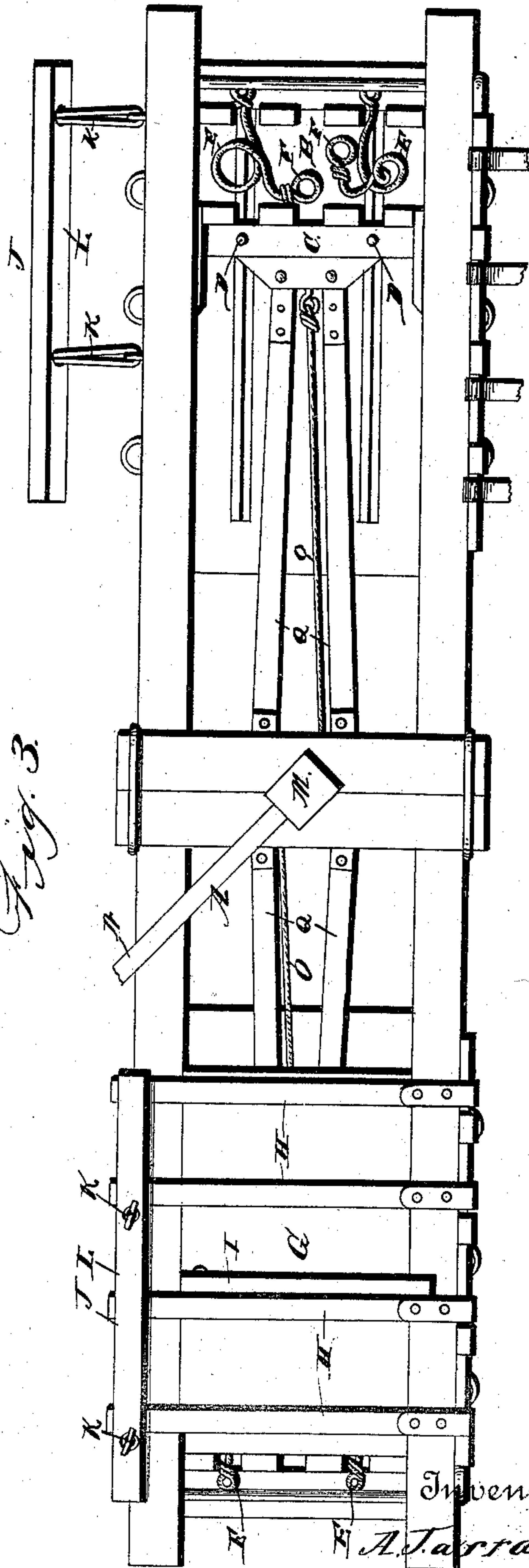


Fig. 3.

Inventor,

A. Jarrard.

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UNITED STATES PATENT OFFICE.

ABRAM JARRARD, OF WOBURN, ILLINOIS.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 385,355, dated July 3, 1888.

Application filed March 19, 1888. Serial No. 267,708. (No model.)

To all whom it may concern:

Be it known that I, ABRAM JARRARD, a citizen of the United States, residing at Woburn, in the county of Bond and State of Illinois, have invented a new and useful Improvement in Baling-Presses, of which the following is a specification.

My invention relates to improvements in baling-presses; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, which fully illustrate my invention, Figure 1 is a perspective view of my improved hay-press, one of the press-boxes being shown closed and the other open. Fig. 2 is a longitudinal section showing the plungers withdrawn and bales of hay raised in position for removal, and Fig. 3 is a plan view.

Referring to the drawings by letter, A designates the frame-work of my improved press, having a press-box, B, at each end and a central open space between said press-boxes. The outer ends of the press-boxes are closed, as shown, and the inner ends of the same are formed by the plungers C. These plungers are provided at their upper edges with the vertical pins or hooks D, the purpose of which will be presently set forth.

E designates ropes or cables which are secured permanently at one end to the closed end of the press-box, their outer free ends lying normally on the floor of the press-box and provided with loops F, which are adapted to engage the pins D, as will be more fully referred to hereinafter.

To the top of the press-box, at one side thereof, I hinge the doors G G, which are adapted to close entirely over the press-boxes. They are provided with the transverse bars H H, the ends of which project past the side of the frame-work opposite the side where the doors are hinged. To one of these transverse bars I pivot a prop or stop-bar, I, which is adapted to support the doors in a horizontal position when they are opened, as shown. To the side of the frame-work opposite the side to which the doors are hinged I secure the latches J, which consist of the links K and the locking-bar L. The links K are pivoted at their lower ends to the side of the frame-work and at their upper ends to the locking-

bar, which is adapted to be swung up over the projecting ends of the transverse bars H and held against the same by the links, as clearly shown in Fig. 1.

In the central open space of the frame-work I mount the windlass M, to the upper end of which I secure a sweep, N. To this windlass I secure the ends of four cables, O P, the cables O running longitudinally of the press and having their free ends secured to the plungers, and the cables P running transversely of the press and having their outer ends secured to the jointed levers Q, extending between the plungers.

In operation the hay is placed in the press-boxes and the doors closed, as will be understood. The windlass is then operated so as to draw upon the lateral cables P, and thereby straighten the jointed levers, as will be readily understood upon reference to Fig. 3. The plungers are thus forced inward and the hay compressed into bales. The windlass is then turned in the reverse direction, drawing on the longitudinal cables O, and thereby withdrawing the plungers and bending the jointed levers. Before withdrawing the plungers, however, the ropes E are engaged over the pins D and the doors are opened. Thus when the plungers are withdrawn the said ropes are straightened and the bale raised into position to be rolled over onto the door.

It will be understood, of course, that the bales must be tied before the plungers are withdrawn, and this is accomplished in the usual manner, the tie-wires being laid across and in the press-boxes before the hay is placed therein and carried against the same when it is compressed, as will be readily understood by any one skilled in the art.

It will be seen that I have provided a very simple and efficient device by which the hay can be rapidly and thoroughly baled, and its advantages will be readily appreciated.

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

1. The combination of the press-boxes having the closed outer ends, the plungers moving therein and carrying the pins D on their upper sides, and the ropes E, secured permanently to the closed ends of the press-boxes and having

the loops F on their free ends adapted to engage the pins D, whereby, when the plunger is withdrawn, the bale will be raised, as set forth.

- 5 2. The combination of the frame-work having the press-boxes at its ends, the plungers working in the press-boxes, the jointed levers extending between the plungers and connected thereto, the windlass erected centrally in the
10 frame-work, the cables O, secured to the wind-

lass and the plungers, and the cables P, secured to the windlass and the joints of the levers, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses. 15

ABRAM JARRARD.

Witnesses:

C. KERSHNER,
S. L. JONES.