(No Model.)

H. C. HALL.

BALING PRESS.

No. 420,536. Patented Feb. 4, 1890.

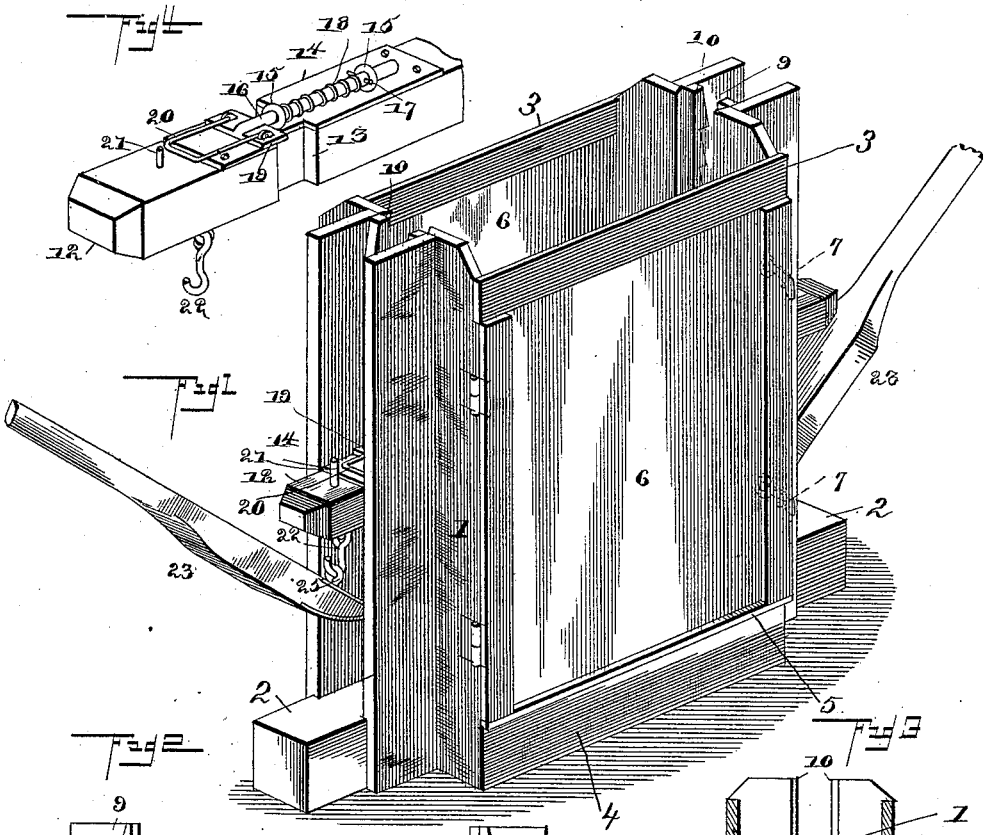

Fig. 1.

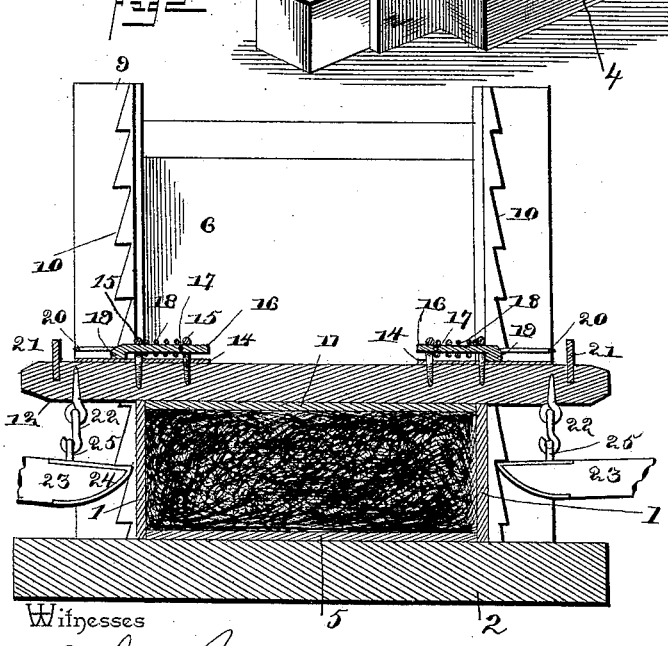

Fig. 2.

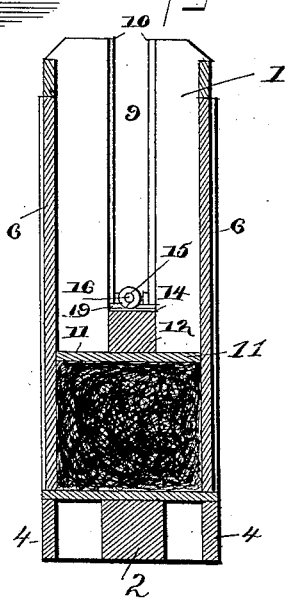

Fig. 3.

Witnesses

John Imrie

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UNITED STATES PATENT OFFICE.

HENRY C. HALL, OF AUGUSTA, GEORGIA.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 420,536, dated February 4, 1890.

Application filed October 2, 1889. Serial No. 325,740. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. HALL, a citizen of the United States, residing at Augusta, in the county of Richmond and State of Georgia, have invented a new and useful Baling-Press, of which the following is a specification.

This invention relates to baling-presses; and it has for its object to construct a machine of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of my improved baling-press. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a vertical transverse sectional view. Fig. 4 is a perspective detail view of the follower-bar.

Like numerals of reference indicate like parts in all the figures of the drawings.

The press-box of my improved baling-press is composed of the end pieces 1 1, which are suitably attached to a transverse sill 2, and the upper and lower ends of which are connected by the cross-pieces 3 and 4, upon which latter the floor 5 is secured.

To each of the end pieces 1 is hinged a door 6, which when closed may be retained in position by means of hooks 7, attached pivotally to the other end piece.

The end pieces 1 1 of the press-box are provided with central vertical slots 9, at the edges of which are arranged the rack-bars 10 10.

A head-block or follower 11 is arranged to slide vertically in the press-box, and above the said head-block, with its ends projecting through the slots 9, is arranged a vertically-sliding bar 12, the sides of which have recesses or notches 13 to engage the sides of the slots and to guide the said bar in its vertical movement. The bar 12 may be made of wood, and it is provided on its top at its bearing-points with metallic re-enforcing plates 14 and upwardly-extending eyes 15, forming bearings for the sliding bolts 16, having transverse pins 17, between which and the outer bearing-eyes springs 18 are coiled upon the said bolts, which are thereby forced in an inward direction. The outer ends of the bolts are provided with cross-pieces 19, adapted to engage the ratchet-bars 10, and thereby retain the follower-bar in any position to which it may be forced downwardly in the press-box. The cross-pieces 19 are provided with pivoted links 20, adapted to engage pins or hooks 21, extending upwardly from the ends of the follower-bar, and thereby temporarily hold the cross-pieces or catches out of engagement with the ratchet-bars 10.

The follower-bar is provided on its under side near each end with a pivoted hook 22, to which may be attached the operating-lever 23, the inner end of which is beveled, as shown at 24, and shod with metal to adapt it to engage the ratchet-bars 10. Said levers are also provided with eyes 25, which engage the pivoted hooks of the follower-bar.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. By disengaging the cross-pieces 19 at the inner ends of the slide-bolts upon the follower-bar from the rack-bars and placing the links 20 in engagement with the pins or hooks 21 the said follower-bar and the head-block may be readily removed from the press. The material to be pressed is then placed in the press-box. The follower block and bar are then restored and the sliding catches placed in engagement with the rack-bars. The operating-levers are then adjusted in position, and may then be either simultaneously or alternately manipulated so as to force the head-block in a downward direction and compress the contents of the box. When the material contained in the box has been sufficiently compressed, the doors may be opened and the bale be tied in the usual manner, after which the head-block and follower-bar may be detached and the bale removed previous to a repetition of the operation.

I claim as my invention and desire to secure by Letters Patent—

The combination, with the press-box having the vertical slotted ends and the ratchet-bars secured thereto, of the head-block, the follower-bar having longitudinally-sliding bolts provided with cross-pieces at their outer

ends, springs to force the said bolts in an inward direction, links pivoted to the cross-pieces of the bolts, and upwardly-extending pins to engage the said links, and the hooks pivoted to the under sides of the projecting outer ends of the follower-bar, and the operating-levers having eyes to engage the said hooks and beveled ends to engage the ratchet-bars, substantially as set forth.

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

HENRY C. HALL.

Witnesses:
I. M. AUSTIN,
ALBERT F. AUSTIN.