

No. 695,109.

Patented Mar. 11, 1902.

S. B. MOORE & W. TATUM.
HAY PRESS.

(Application filed Aug. 28, 1901.)

(No Model.)

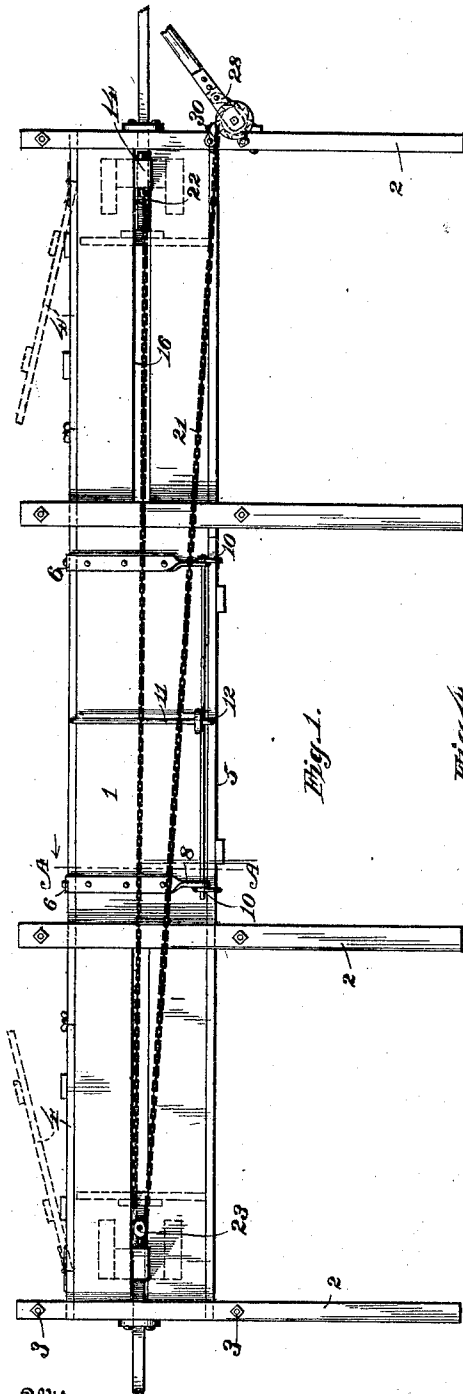


Fig. 1.

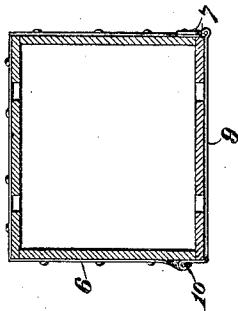


Fig. 4.

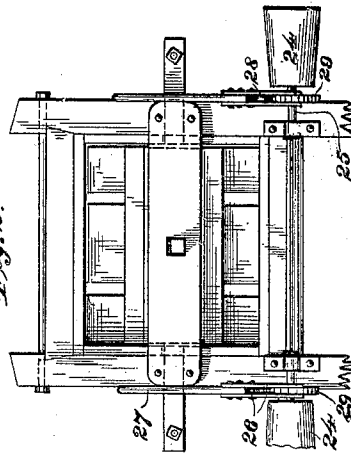


Fig. 2.

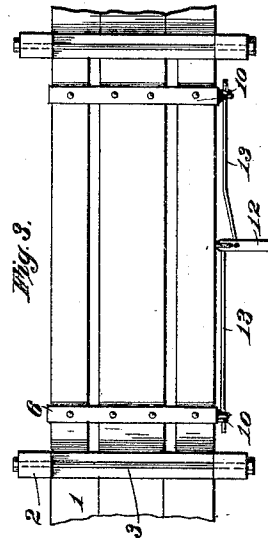


Fig. 3.

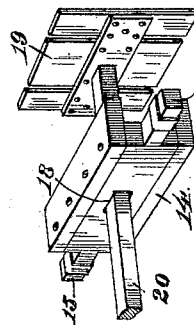


Fig. 5.

Witnesses

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SAMUEL B. MOORE AND WATSON TATUM, OF WATERVALLEY, MISSISSIPPI,
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HAY-PRESS.

SPECIFICATION forming part of Letters Patent No. 695,109, dated March 11, 1902.

Application filed August 28, 1901. Serial No. 73,582. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL B. MOORE and WATSON TATUM, citizens of the United States, and residents of Watervalley, in the county of Yalobusha and State of Mississippi, have invented certain new and useful Improvements in Hay-Presses, of which the following is a specification.

In the drawings, Figure 1 is a side elevation of a hay-press embodying our invention. Fig. 2 is an end view of the same, parts broken away. Fig. 3 is a top plan view of a portion of the machine. Fig. 4 is a transverse section of the same on the line A A, Fig. 1. Fig. 5 is a detail perspective view of the follower.

1 represents the main frame or box of the machine, constructed of suitable material and supported upon standards 2, said standards being connected across top and bottom of the baling-box by means of the bolts 3.

4 represents doors or openings in the top of the box at each end. (Shown open in the dotted lines in Fig. 1.)

5 is a door formed in the bottom of the baling-box, formed directly in the center of the machine.

6 represents bands of iron or other suitable material suitably secured around the sides and top of the center portion of the baling-box, one end of each of said bands being provided with a suitable loop 7, while the other end of each band is twisted, as at 8, and provided with a suitable perforation.

9 represents bands secured to the door 5, the rear ends of which are secured in the loop 7 of the bands 6, whereby a hinged joint is formed between the two, while the forward end of the band or strip 9 is bent up at right angles on one side of the machine and provided with a suitable loop 10, as seen in Figs. 1 and 4.

11 is a rod secured to one side of the box in the center of the machine, upon which is pivoted a lever 12, said lever having suitable openings or perforations on each side of its pivot-bar, in which are secured, respectively, the ends of the locking-rods 13, the outer ends of the locking-rods 13 being adapted to pass through the perforations in the ends of the

band 6 and the loop on the end of the band 9, whereby the door 5 in the bottom of the baling-chamber is locked in closed position.

14 is the main follower-block, provided with laterally-projecting arms 15, which extend through the slot 16, formed in the sides of the baling-box, said follower-block being provided with a rectangular opening 18.

19 is a supplemental follower or backing block, to which is secured the operating-handle 20, said handle being adapted to be operated by hand and to slide within the rectangular opening formed in the follower-block 14, as will clearly be seen in Fig. 5.

21 is a chain, one end of which is secured to one of the main follower-blocks by means of a suitable hook 22, while the chain is secured to the arms of the other main follower-block by means of a pulley 23, through which said chain passes, while the other ends of the chain are secured firmly to winding-drums 24, said winding-drums being mounted upon the shaft 25, extending across one end of the machine.

26 represents plates loosely mounted upon the shaft 25, and 27 is an operating lever or handle firmly secured by suitable bolts between the upper ends of said plates, and 28 is a dog or pawl pivotally mounted between said plates 26.

29 represents ratchet-wheels keyed to the shaft 25 on each side of the machine between the plates 26, with which the pawl 28 engages.

30 is a pawl pivoted to the frame of the machine in such position that it is adapted to engage with the ratchet-wheels 29, as best seen in Fig. 1.

The operation of the machine is as follows: The doors 4 are opened and hay is introduced in quantities ranging from one to four pounds, as may be desired, and the supplemental follower-block 19 is forced toward the central part of the machine, which forms the main compression-chamber, by means of the handles 20, passing through the rectangular opening 18 in the main follower-blocks. This gives a preliminary compression of the hay, and the operation is repeated until a sufficient quantity of the hay has been introduced to

form the size of the bale desired, whereupon the doors are locked down and the main follower-blocks 14, together with the supplemental follower-blocks 19, are forced toward the center of the machine by means of the handles 27, which are operated up and down, thereby through the dog or pawl 28 and ratchet-wheels 29 revolving the chains 24 and winding the chain upon the drums, thus forcing both follower-blocks against the hay with a positive and powerful pressure and compressing the same into a bale. The shaft 25 is locked against the backward movement by means of the pawl 30, engaging the ratchet-wheels 29. As soon as the bale is compressed and suitably tied with the usual wire the lever 12 is rocked, thereby disengaging the rods 13 from the ends of the bands 6 and 9, thus permitting the door 5 to swing downward upon its hinge, whereupon the bale is free to drop out of the machine to the ground.

What we claim, and desire to secure by Letters Patent, is—

1. In a baling-press, the combination with two main followers slidably mounted in each end of the press and supplemental followers connected to but movably independent of the main followers, of a block-and-tackle connection between the two main followers and a winding-drum.

2. A baling-press comprising the end chambers having openings in the tops thereof, a central baling-chamber having a hinged bottom in combination with the main followers mounted in the end chambers and supplemental followers connected with, but movably independent of the main followers and the means for operating the main followers.

The foregoing specification signed this 26th day of August, 1901.

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Witnesses:

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