

No. 695,764.

Patented Mar. 18, 1902.

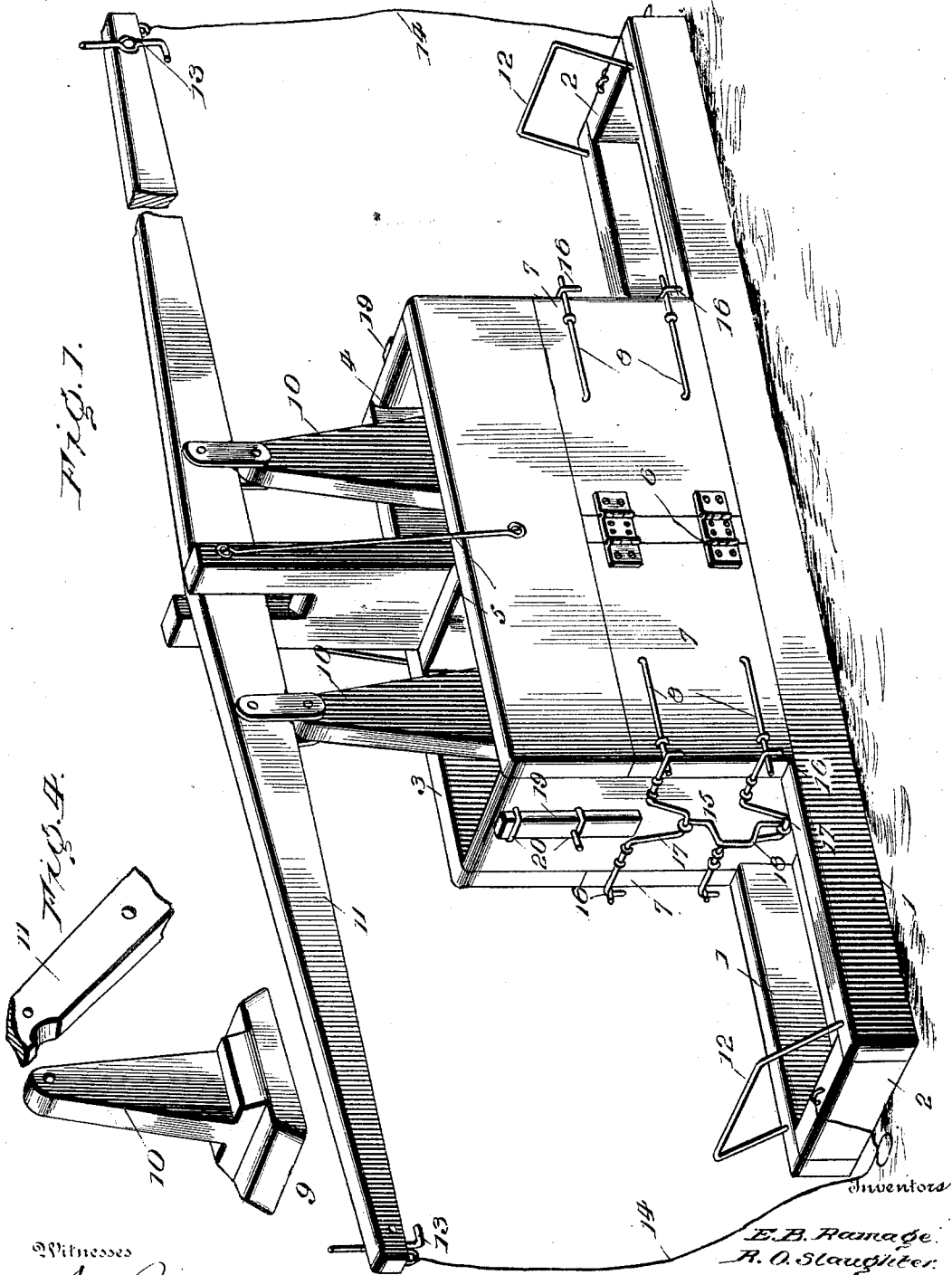
E. B. RAMAGE & R. O. SLAUGHTER.

HAY PRESS.

(Application filed Dec. 26, 1901.)

2 Sheets—Sheet 1.

(No Model.)



Witnesses

John D. Davis
John Robb

By

R. A. Ramey

Attorneys.

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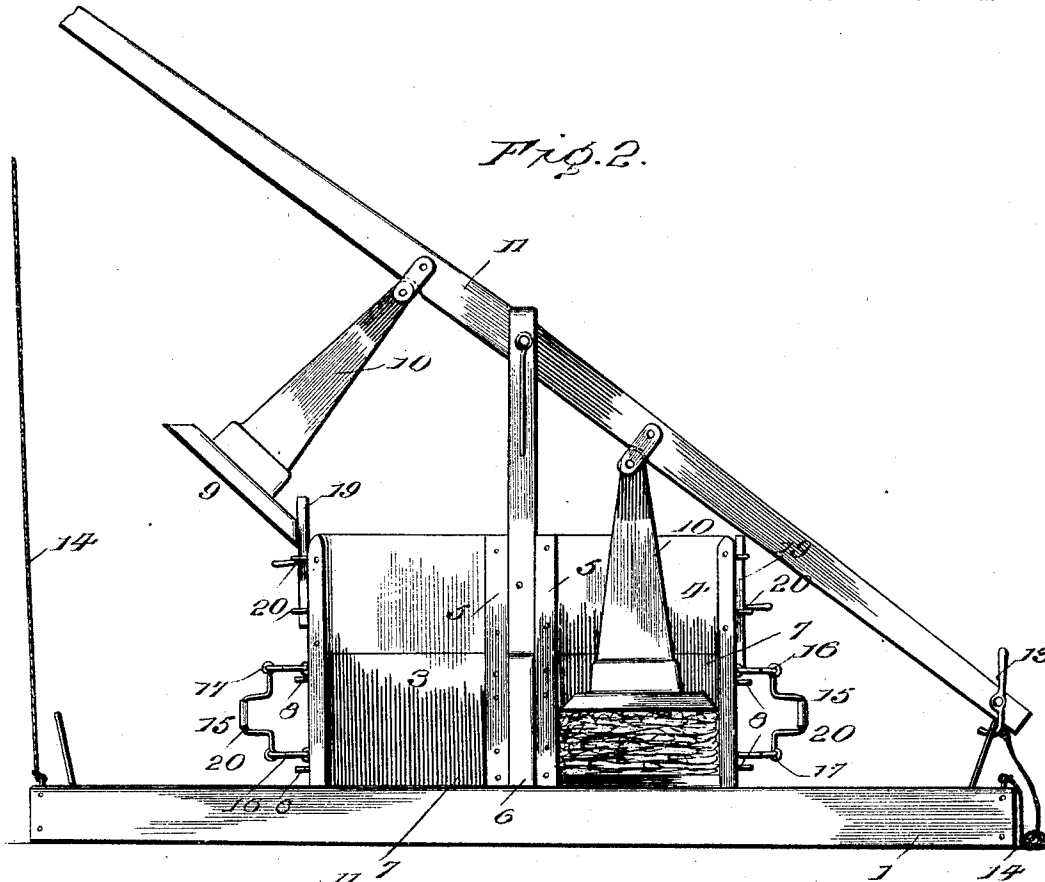
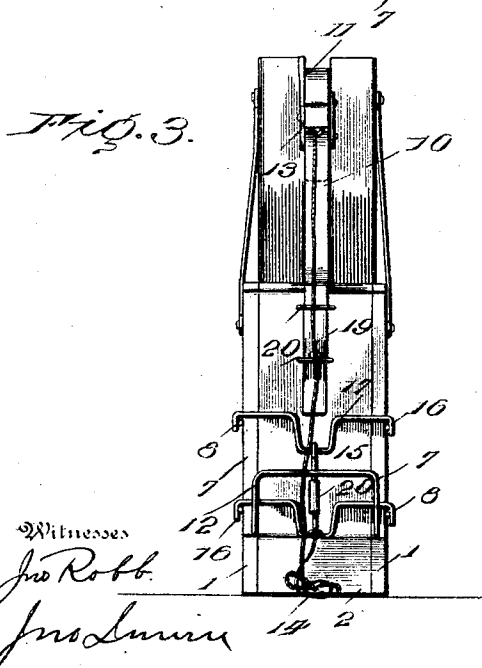
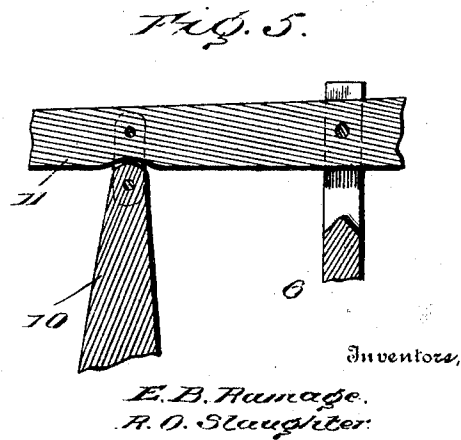
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2 Sheets—Sheet 2.



Inventors,

E. B. Ramage,
R. O. Slaughter.

By
R. A. Ramey, atty.

UNITED STATES PATENT OFFICE.

ELIAS B. RAMAGE AND RICHARD O. SLAUGHTER, OF FIVEPOINTS,
ALABAMA.

HAY-PRESS.

SPECIFICATION forming part of Letters Patent No. 695,764, dated March 18, 1902.

Application filed December 26, 1901. Serial No. 87,283. (No model.)

To all whom it may concern:

Be it known that we, ELIAS B. RAMAGE and RICHARD O. SLAUGHTER, citizens of the United States, residing at Fivepoints, in the county of Chambers and State of Alabama, have invented certain new and useful Improvements in Hay-Presses; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to presses of the type embodying two baling-chambers and plungers for coöperation therewith, the commodity being compressed in one chamber and the other chamber being cleared of the bale previously formed and receiving a charge, the purpose being economy of time, labor, and force.

The primary object of this invention is to improve the general construction of the type of presses aforesaid, whereby their efficiency, durability, and capability of manipulation are enhanced and the press made more desirable.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a press embodying the invention. Fig. 2 is a side elevation, the near wall and doors being omitted. Fig. 3 is an end view. Fig. 4 is a perspective view of the plunger. Fig. 5 is a detail section of the upper part of the plunger and the walking-beam.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The baling-chambers are mounted centrally upon a base, which in the present instance comprises longitudinal sills 1 and terminal cross-pieces 2. The baling-chambers 3 and 4

are separated by spaced boards 5, between which is secured an upright 6. Access is had to the baling-chambers by means of doors 7, which are preferably hinged to the lower portion of the upright 6 and have projecting portions 8 for engagement by means of locking means, hereinafter to be more particularly described. A plunger 9 is provided for each baling-chamber and is connected, by means of links 10, with the walking-beam 11, which is fulcrumed midway of its ends to the upright 6. As the walking-beam is oscillated one of the plungers is pressed into the baling-chamber and the other withdrawn. The end of the walking-beam depressed is secured by any convenient means, and, as shown, a bail 12 is provided at each end of the base, and a pivoted catch 13 is provided at each end of the walking-beam for engagement with the bail to hold the depressed end of the walking-beam lowered until after the bale has been bound and in condition for removal from the press. A cord or chain 14 is attached to each end of the walking-beam and is adapted to be pulled upon to bring the uppermost end of the beam within convenient reach when imparting the initial movement to the plunger for compressing the hay or other commodity.

Each baling-chamber is provided with side doors, which swing outward at the ends remote from the upright 6, and the projecting parts 8 are terminal portions of rods or bars secured to the side doors. Rocking rods or bars 15 are journaled to the outer ends of the baling-chambers and have their end portions bent, as shown at 16, for engagement with the door projections 8 to hold the latter closed. Each rod or bar 15 is provided intermediate of its ends with a crank portion 17 to form an operating part for turning the parts 15 in their bearings. A tie-rod 18 connects the crank portions 17 of coöperating rods or bars 15, and this tie-rod is deflected intermediate of its ends to form a handle for convenience in operation of the locking means. The tie-rod 18 enables both rods or bars 15 to be simultaneously operated to withdraw or engage the bent ends 16 with the projections 8.

The plunger elevated is swung to one side to admit of charging the baling-chamber, and

it has been found expedient to provide means for positively holding the plunger aside. As shown, a bar 19 is slidably mounted in keepers 20, attached to the upper portion of the end walls of the baling-chambers, so as to be moved upward across the inner end of the plunger and hold it when swung to one side, as shown most clearly in Fig. 2. Each of the bars 19 is provided with a pin or finger-grip 21, operable between the keepers 20, for working the slide-bars and holding them against vertical displacement. When the plunger is swung aside, the bar 19 for coöperation therewith is moved upward, and upon releasing the plunger it swings back against the said bar and holds it in place. After the baling-chamber has been charged and all is in readiness for compression of the charge the plunger is moved away from the bar 19, which falls by its own weight, thereby permitting the plunger to swing into position for entering the baling-chamber when pulling down upon the uppermost end of the walking-beam. After the charge has been compressed the end of the walking-beam depressed is secured

by the catch 13 or other means until the bale is bound, after which the walking-beam is released and the bale removed, and by this time the other baling-chamber is in readiness for compression of the charge which in the meantime has been applied thereto.

Having thus described the invention, what is claimed as new is—

In a press, a baling-chamber, doors closing opposite sides of said baling-chamber, a series of rocking rods or bars having their end portions bent to engage with both doors and hold them closed, each rocking bar or rod having a crank portion, and a tie-rod connecting the crank portions of the rocking rods or bars and provided with a handle whereby said rods or bars are simultaneously locked, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ELIAS B. RAMAGE. [L. S.]
RICHARD O. SLAUGHTER. [L. S.]

Witnesses:

W. H. GOLDEN,
J. J. COAP.