

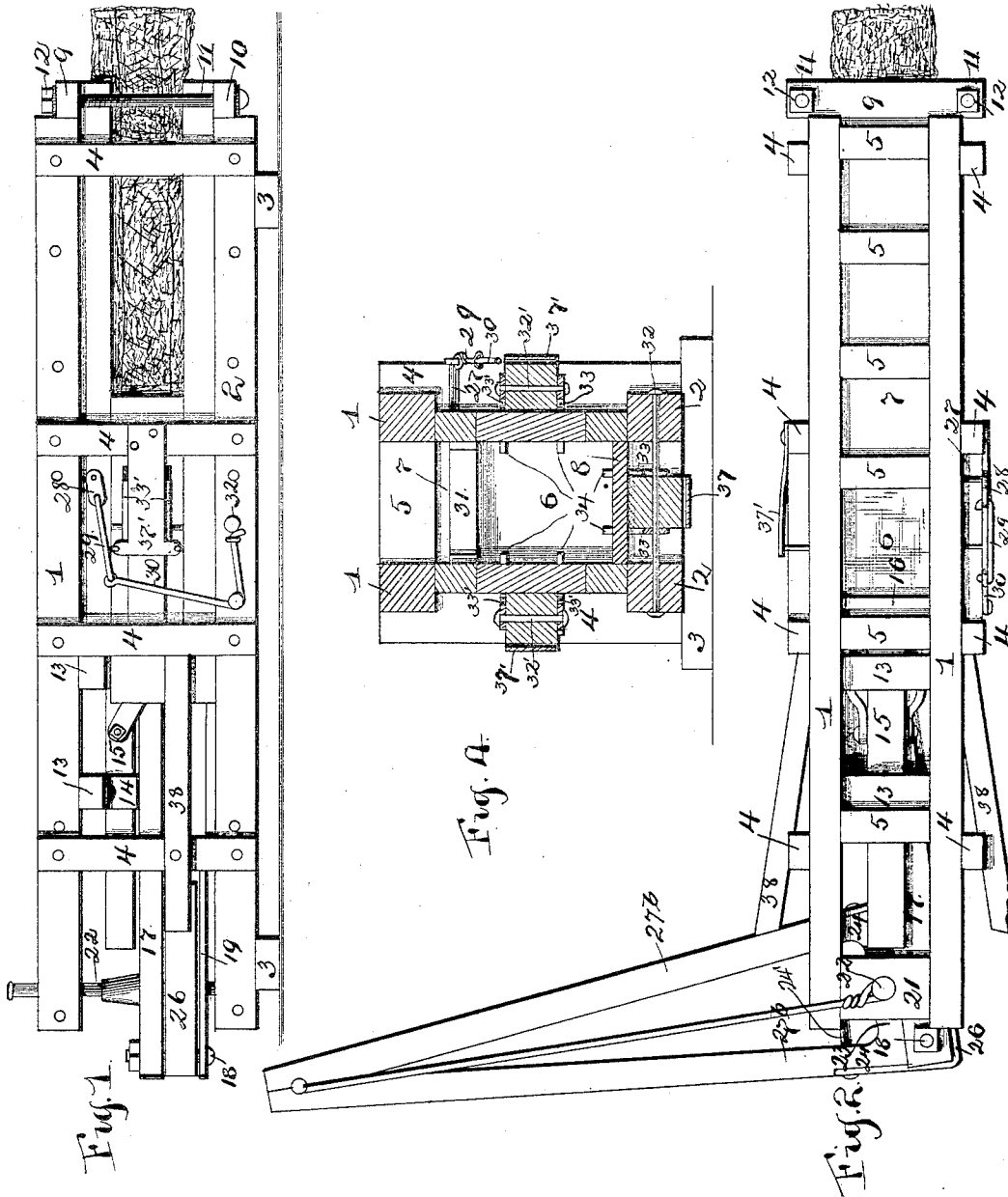
(No Model.)

2 Sheets—Sheet 1.

J. H. PICKETT.
BALING PRESS.

No. 461,044.

Patented Oct. 13, 1891.



Witnesses

H. G. Sutz

Wm. Bagger

By his Attorneys,

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Inventor

John H. Pickett

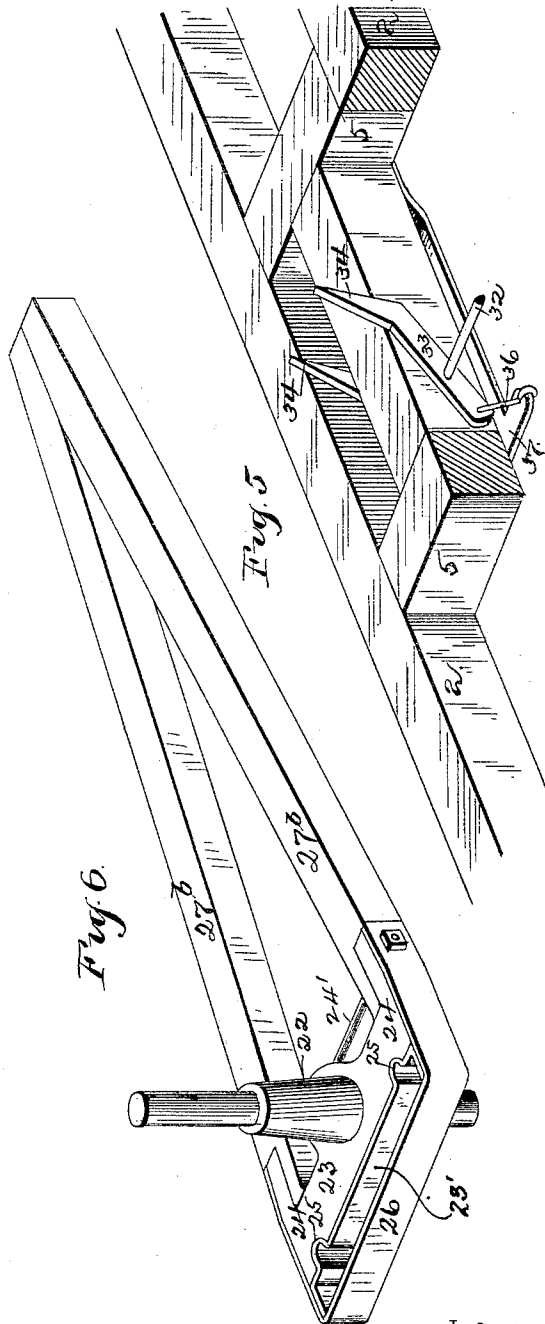
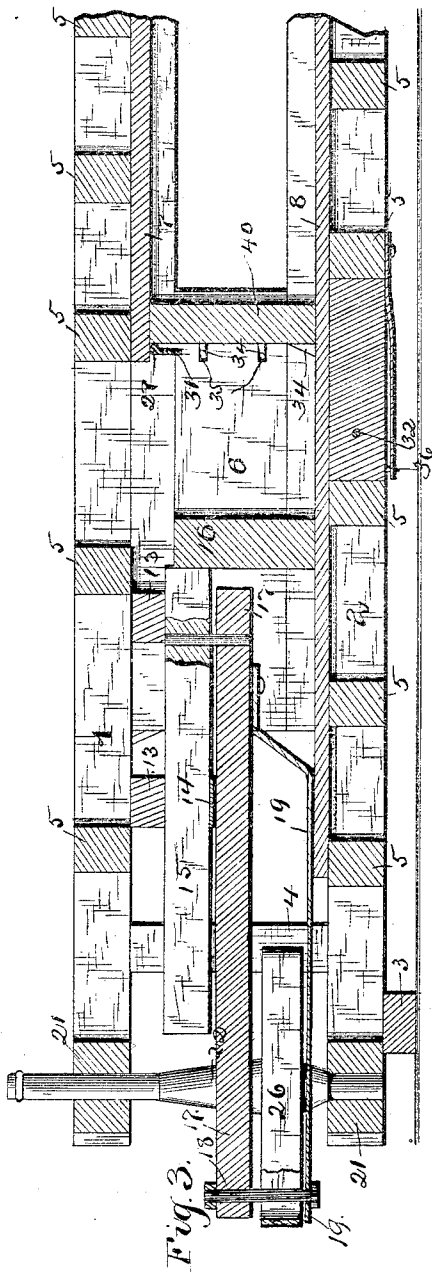
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Inventor

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UNITED STATES PATENT OFFICE.

JOHN H. PICKETT, OF ANNAPOLIS, INDIANA.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 461,044, dated October 13, 1891.

Application filed December 3, 1890. Serial No. 373,457. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. PICKETT, a citizen of the United States, residing at Annapolis, in the county of Parke and State of Indiana, 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 device of this class for baling hay and similar material which shall be simple of construction and easily operated.

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 claims.

In the drawings hereto annexed, Figure 1 is a side elevation of a press constructed in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a vertical sectional view of a portion of the machine. Fig. 4 is a transverse sectional view to illustrate the construction and arrangement of the detents. Fig. 5 is a detail view of one of the bottom detents. Fig. 6 is a detail view illustrating the construction of the operating-lever.

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

The frame of my improved press is composed of the longitudinal parallel top beams 1 1 and bottom beams 2 2, which latter are supported upon sills 3, and all of which are connected by means of suitable vertical braces 4 and transverse braces 5. The press box or chamber 6 is constructed between the frame-beams at the rear ends of the latter, and the top and bottom 7 and 8 of said press-box are extended beyond the rear ends of the frame-beams and are provided with the cross-bars 9 and 10, the projecting ends of which are connected by means of bolts 11, having nuts 12, by tightening which the top and bottom of the press-box may be caused to bear with any desired degree of tension upon the bale that is being formed, thus retarding the exit of the same from the press and enabling sufficient pressure to be exerted upon the following bales.

The front ends of the frame-beams 1 1 of the press-box are connected by cross-pieces 13, the under sides of which are provided with

bearings 14 for a reciprocating bar 15, the rear end of which carries the follower 16. The under side of the sliding bar 15 is pivotally connected with one end of the pitman 17, the opposite outer end of which has a vertical bolt 18, whereby it is connected with the outer end of a strap 19, the inner end of which is bent upwardly and secured to the under side of the pitman.

The extreme front end of the frame is provided with cross-pieces 21, affording bearings for a vertical shaft 22, upon which is mounted a casting consisting of a cross-bar 23, the outer ends of which are provided with arms 24, projecting from its outer or front side, and its body with notches or recesses 25, said notches being formed in the inner or rear side of the said casting and preferably provided with a wear-plate 23'. A strap 26 stands across the face of the casting 23 and the inner ends of the arms 24, and the arms 27^b, constituting the sweep or operating lever, are suitably bolted to the outer ends of the arms 24, the bolt 24' passing through the arms 24 and the sweep-arms 27^b, as seen in Fig. 6. In this manner an operating-lever of great strength and durability may be constructed at a moderate expense. The bolt 18 at the outer end of the pitman extends through the slot formed between the strap 26 and the body of the casting 23 or its wear-plate 23', thus connecting the said pitman with the operating-lever.

The front end of the press-box 6 is open at the top for the admission of the material which is to be pressed, and the sides of the press-box are provided in rear of the said opening with bearings for a rock-shaft 27, one end of which is provided with a crank 28, connected by a rod 29 with one end of a spring 30, which is suitably attached to the outside of the press-box. The rock-shaft 27 is provided within the press-box with a depending plate 31, forming a detent, which, while it will readily yield to pressure in a rearward direction of the plunger and of the hay that is being compressed, will prevent the hay from moving forwardly in the press-box.

The sides of the frame are provided below the bottom of the press-box with a transverse shaft 32, upon which is pivotally mounted a pair of plates 33, the rear ends of which have upwardly-extending inclined teeth or spikes

34, that extend through slots 35 in the bottom of the press-box. The front ends of the plates 33 are connected by rods or links 36 with a suitable spring 37, whereby they are
 5 drawn in a downward direction, thus throwing the rearwardly-inclined spikes at the rear ends of said plates upward through the slots in the bottom of the press-box. These devices
 10 also act as detents, which, while they will yield to the pressure of the hay and plunger in a rearward direction, will prevent the hay from passing forward into the feed-compartment of the press-box. Detents, as 33', are also
 15 pivoted on shafts 32' and actuated by springs 37'.

Arms or brackets 38 are attached to the side of the frame to limit the movement of the sweep or operating lever.

20 The operation and advantages of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The team is hitched to the outer end of the sweep or operating lever, and an oscillating movement is
 25 imparted to the latter. When the lever is at the end of its stroke, the plunger will rebound and the bolt 18 at the outer end of the pitman 17 will engage the notch 25, which is at the
 30 outer end of the slot between the casting 23 and the strap 26, which slot is at the time in a longitudinal position with relation to the press. The lever is then moved in the opposite
 35 direction, thus causing the pitman 17 to force the plunger in a rearward direction in the press-box, in the feed-chamber of which a bunch of hay has previously been placed. This bunch is thus forced rearwardly in the
 40 press-box and past the spring-actuated detents until the lever reaches the end of its stroke, when the bolt 18 will become disengaged from the notch 25, and the plunger will rebound, as before, actuated by the expansive
 45 force of the hay, thus restoring the press to a position for a repetition of the operation. When a sufficient quantity of hay has been placed in the press to form a bale, a follower-block 40 of ordinary construction is inter-

posed prior to the formation of the next bale, and the first bale may then be tied prior to 50 its being ejected from the press.

The press, it will be observed, is a continuous one, and bales of any desired size may be formed in continuous succession.

The construction of the press is simple, in- 55 expensive, and it is not liable to get out of order.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States— 60

1. In a baling-press, the combination, with the frame having a press-box, the plunger, the pitman pivotally connected thereto, the strap secured at its inner end to the pitman and standing below the same, and a vertical 65 bolt connecting the outer ends of said strap and pitman, of a vertical shaft journaled in said frame and a sweep mounted on said shaft, the sweep comprising a casting having notches in one face near its ends and arms projecting 70 from its other face at its ends, sweep-arms standing inside those on the casting, a strap across the notched face of said casting, leaving a slot in which said vertical bolt works, the ends of said strap standing against the 75 outer faces of the casting-arms, and a transverse bolt through the strap ends and all of said arms, as set forth.

2. In a baling-press, the combination, with the frame having a press-box, the plunger, the 80 pitman pivotally connected thereto, the strap secured at its inner end to the pitman and standing below the same, and a vertical bolt connecting the outer ends of said strap and pitman, of a vertical shaft journaled in said 85 frame and a sweep mounted on said shaft and having in its head a transverse slot with notches near its ends for said vertical bolt, as set forth.

In testimony that I claim the foregoing as 90 my own I have hereto affixed my signature in presence of two witnesses.

JOHN H. PICKETT.

Witnesses:

JOSEPH C. VICKORY,
 JACOB M. GOSHORN.