

(No Model.)

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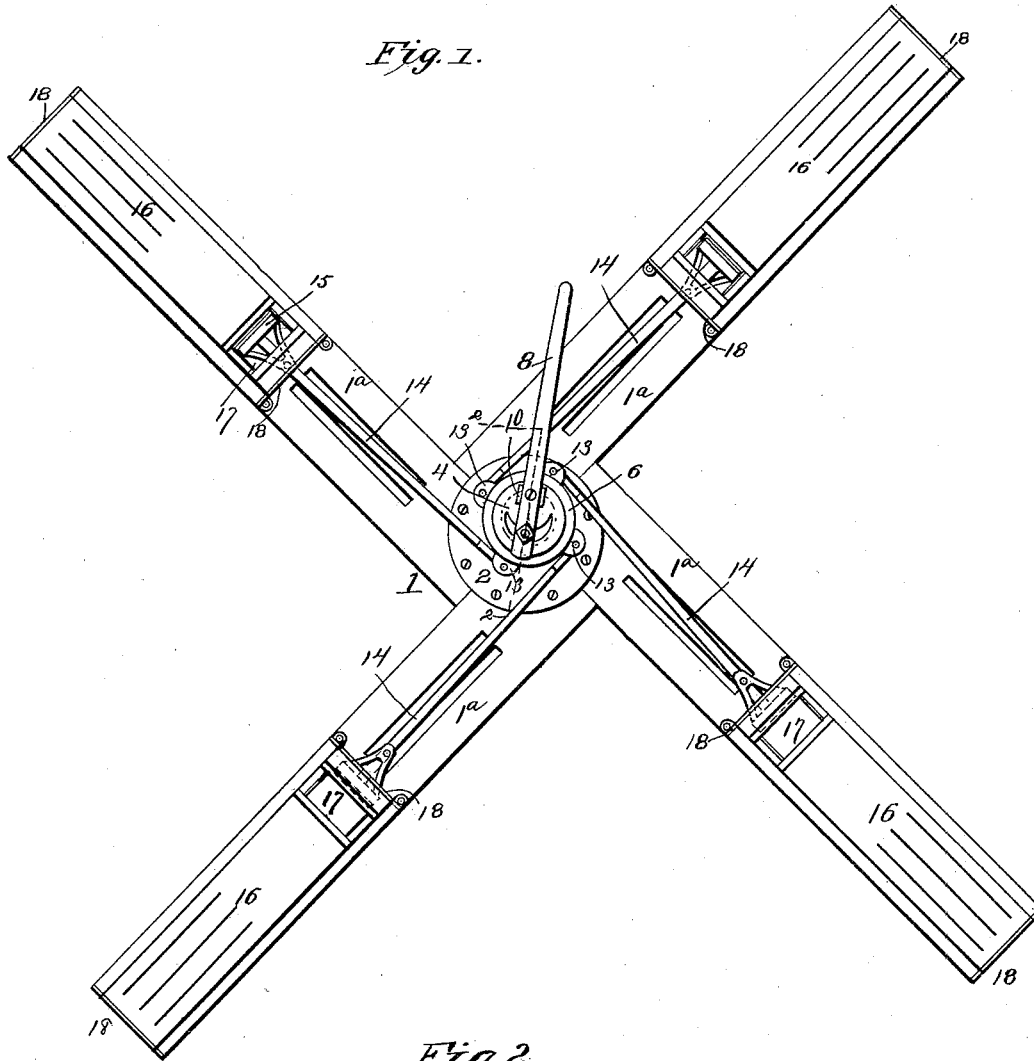
W. A. MAYO.

PLUNGER OPERATING MEANS FOR HAY PRESSES.

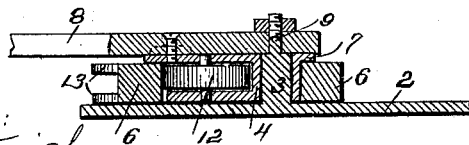
No. 417,877.

Patented Dec. 24, 1889.

*Fig. 1.*



*Fig. 2.*



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(No Model.)

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Fig. 3.

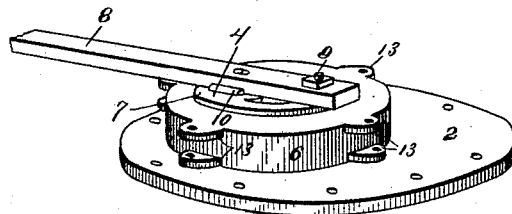


Fig. 4.

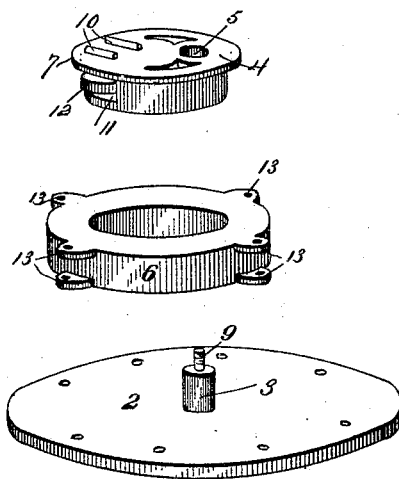
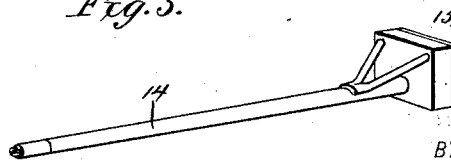


Fig. 5.



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# UNITED STATES PATENT OFFICE.

WILLIAM A. MAYO, OF PARIS, TEXAS, ASSIGNOR TO FRED A. MABEE AND  
PITSER M. CHISUM, OF SAME PLACE.

## PLUNGER-OPERATING MEANS FOR HAY-PRESSES.

**SPECIFICATION** forming part of Letters Patent No. 417,877, dated December 24, 1889.

Application filed September 26, 1889. Serial No. 325,222. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. MAYO, of Paris, in the county of Lamar and State of Texas, have invented a new and useful Improvement in Plunger-Operating Means for Hay-Presses, of which the following is a specification.

My invention consists in a new and improved horse-power, which will operate four or less hay-presses by the movement of one operating-lever, and which can be used for a great variety of other purposes, and my invention will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a plan view of my improvement as applied to a baling-press. Fig. 2 is a detail sectional view on line 2 2, Fig. 1. Fig. 3 is a detail perspective view of my improvement. Fig. 4 is a detail view of several parts detached, and Fig. 5 is a detail view of the follower.

The same numerals of reference indicate corresponding parts in all the figures.

Referring to the several parts by their numerals, 1 indicates the wooden frame on which my new and improved power, and also the four hay-presses which in Fig. 1 it is shown operating, is mounted. Upon the center of this frame is bolted a metal disk 2, having a central bearing-pivot 3. Upon this pivot 3 is mounted an eccentric 4, the pivot 3 passing through an open aperture 5 near the edge of the eccentric. This eccentric is placed in a collar or ring 6, a horizontal flange 7 at the upper edge of the eccentric fitting over the inner edge of the ring and preventing it from rising in operation.

Upon the eccentric 4 is secured the inner end of the operating-lever 8, the end of which is formed with an aperture to adapt it to fit on the end of the bearing-pivot 3 of the disk 2, on which it is held by a screw-bolt 9 and a nut on said bolt. The lever then passes between and is bolted between lugs 10 on top of the eccentric, which brace the lever. The eccentric 4 is formed at the side opposite the aperture 5 with a horizontal recess 11, in which is pivoted a small anti-friction wheel 12, which projects slightly from the recess 11, so as to bear against the inner side of the collar 6, and

thus greatly lessen the friction of the working parts. The collar 6 is formed with the four opposite pairs of ears 13, although it may, when desired, be made with a greater or less number.

Between the ears 13 of the collar are pivoted the inner ends of pitmen 14, upon the outer ends of which followers 15 are secured, as shown.

Upon the outer part of the four longitudinally-slotted timbers 1<sup>a</sup> of the frame 1 are mounted four hay-press boxes 16, in the inner ends of which the follower-blocks 15 work. Each of the said press-boxes has a top opening 17 near its inner end for the reception of the hay to be baled.

The press is braced at each end with a metal frame 18 and is lined with metal to prevent wear.

It will be seen that when the outer end of the lever 8 is moved back and forth by the horse or other power attached to it in the arc of a circle the collar 6 as it is turned by the eccentric 4 will work all four of the pitmen 14 and their followers 15 out and in, so that the hay will be uniformly pressed by the followers 15 in all four of the hay-presses at the same time by the movement of the one operating-lever 8.

It will be seen that my invention is strong and comparatively simple in construction, that four hay-presses (or a less number when desired) can be operated at once by the one machine, that by my invention power can be applied in four different directions at once by the one machine, and that it can be applied to all kinds of presses and to many other devices, while the weight and friction are greatly reduced.

My device or motor can be run by steam instead of horse power by connecting suitable spur-gear to the eccentric, as will be readily understood.

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

1. In plunger-operating means for hay-presses, the combination of a pivoted eccentric having an operating-lever 8 secured to it, a collar encircling said eccentric and formed with the ears 13, and the pitmen 14, having

their inner ends pivoted between the ears 13, substantially as set forth.

2. The combination of the disk 2, having the central bearing-pivot 3, the eccentric having the side aperture 5, the upper edge flange, and the horizontal recess 11, and the pivoted anti-friction wheel 12, the operating-lever 8, the collar 6, formed with the ears 13, and the pitmen 14, having their inner ends pivoted between the ears 13, substantially as set forth.

3. The combination of the frame 1, the four hay-press boxes secured upon the ends of said frame, the disk 2, secured upon the center of

the frame and having the central bearing-pivot 3, the eccentric having the upper edge flange and the pivoted anti-friction wheel 12, the operating-lever, the collar 6, formed with the ears 13, and the pitmen pivoted at their inner ends in the collar-ears and having the follower-blocks at their outer ends, substantially as set forth.

WILLIAM A. MAYO.

Witnesses:

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