

(No Model.)

W. J. PERKINS.

BALING PRESS.

No. 315,062.

Patented Apr. 7, 1885.

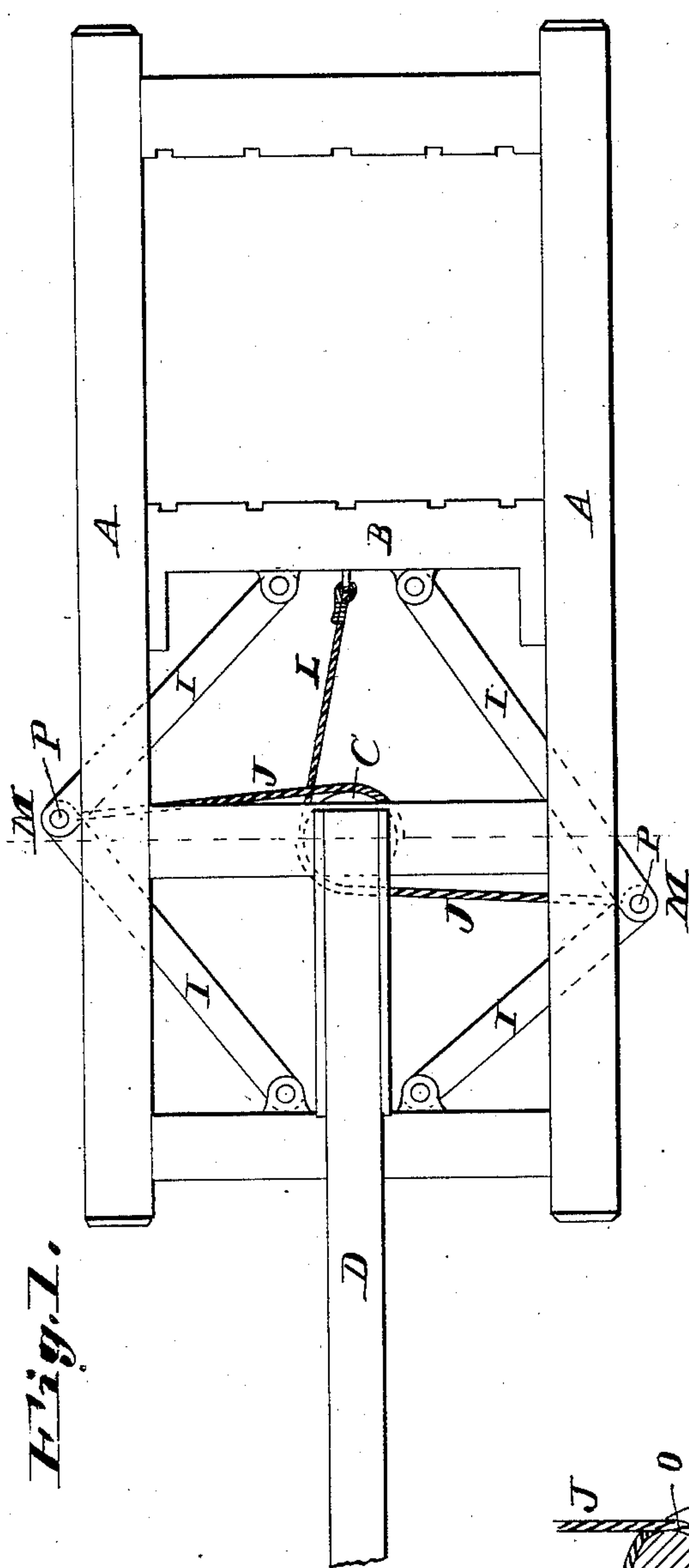


Fig. 1.

Fig. 2.

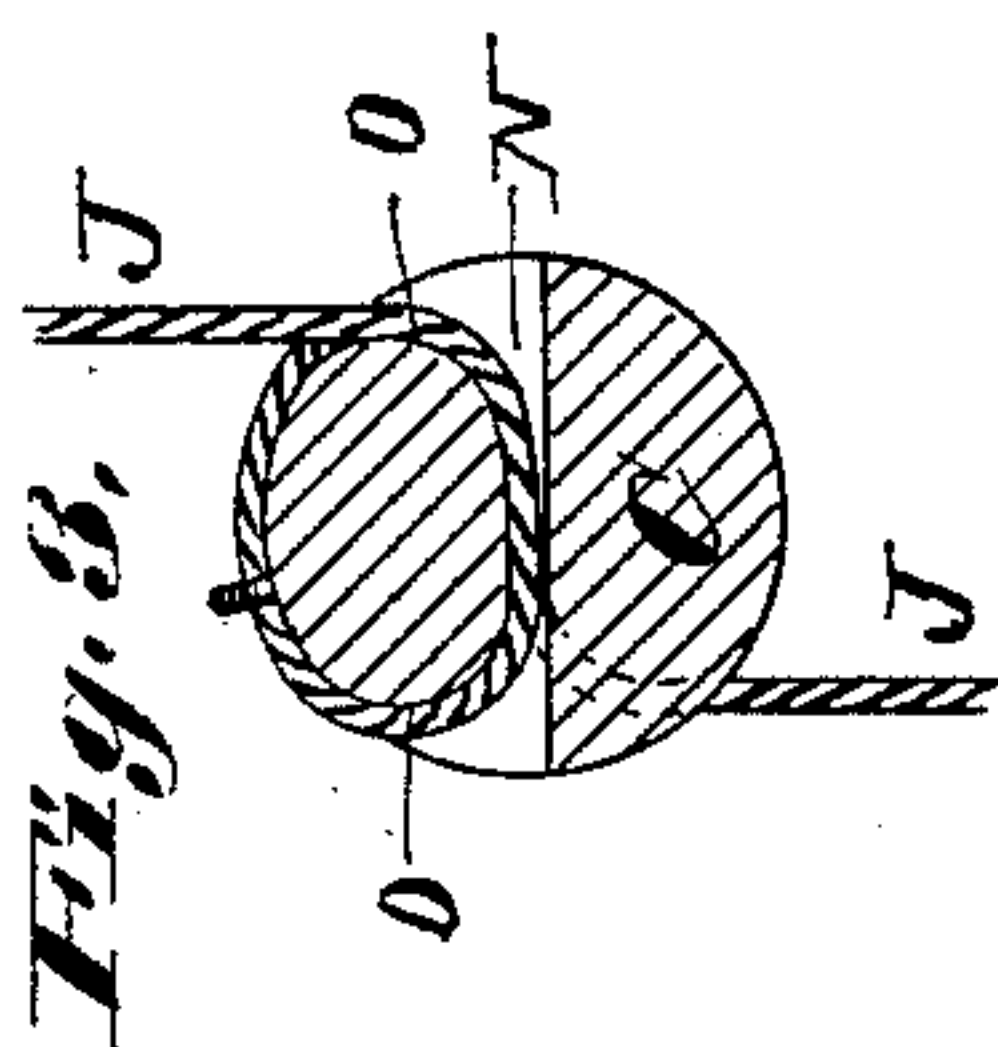
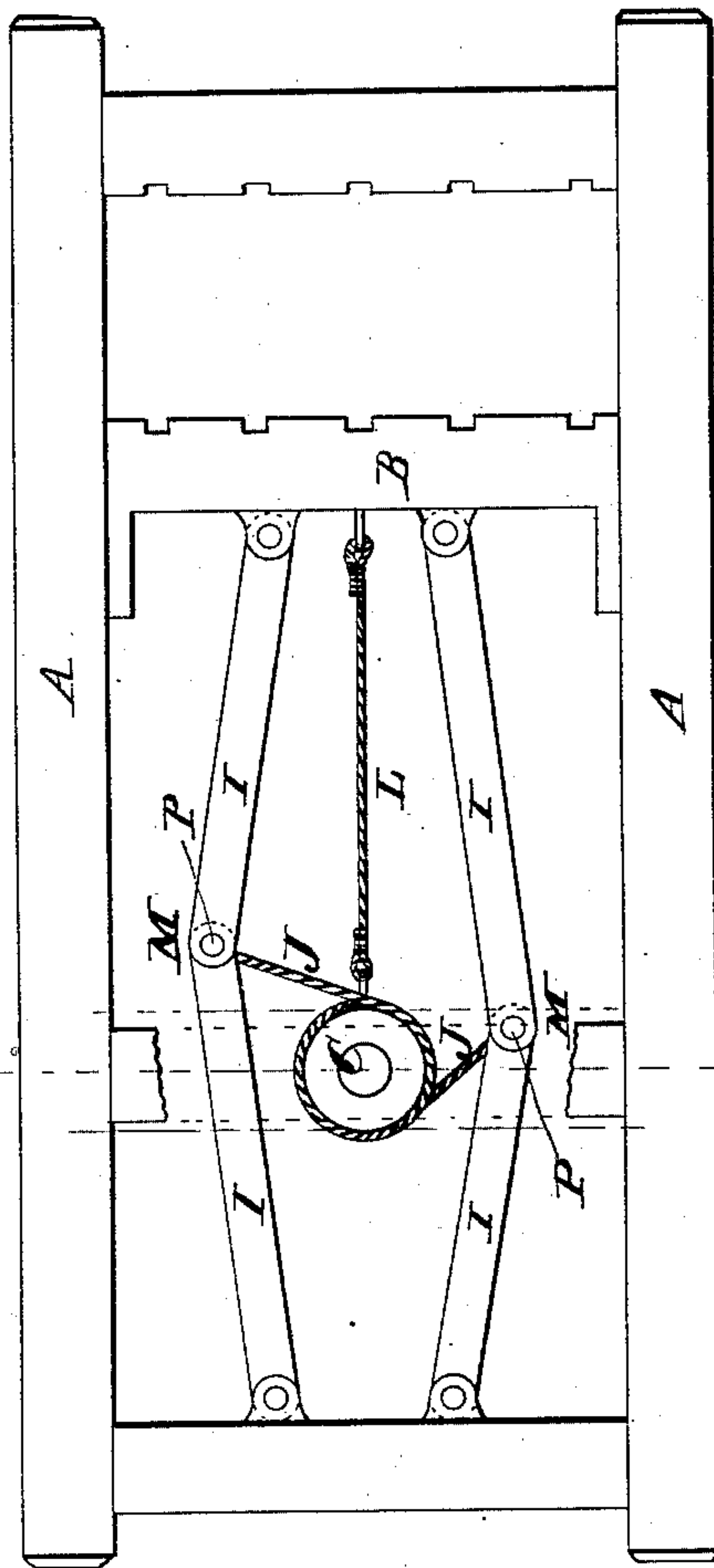


Fig. 3.

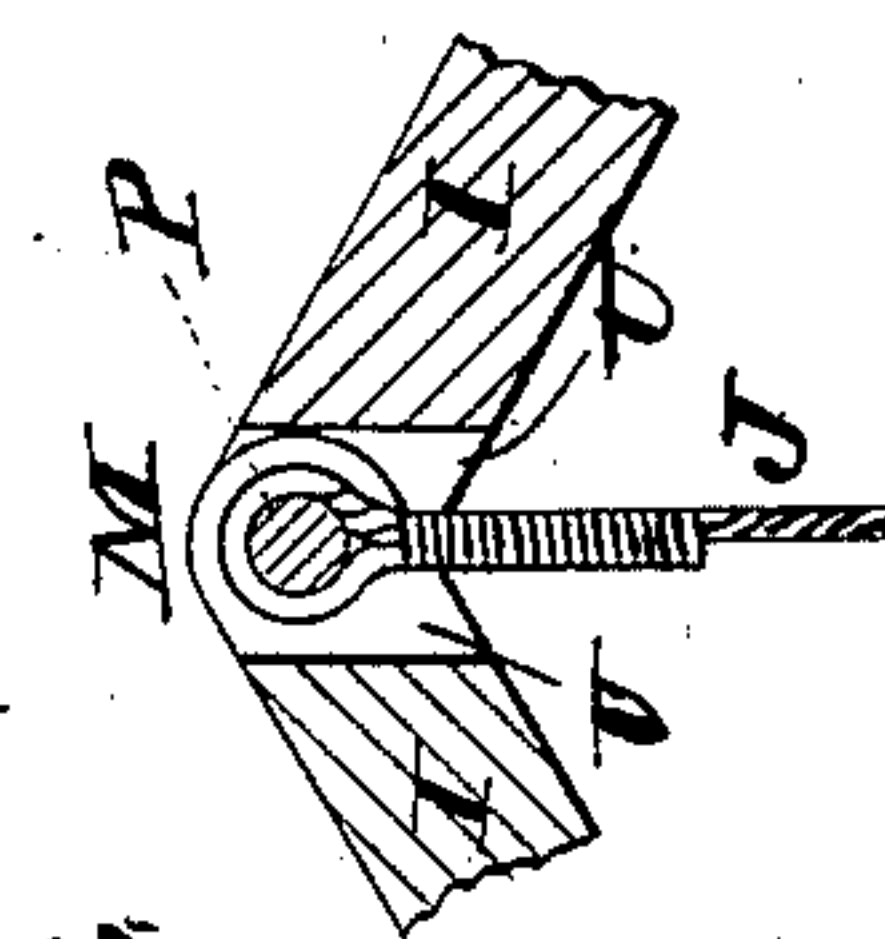


Fig. 4.

Attest:
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UNITED STATES PATENT OFFICE.

WILLIAM J. PERKINS, OF ELLIOTTSTOWN, ASSIGNOR OF TWO-THIRDS TO
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BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 315,062, dated April 7, 1885.

Application filed December 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. PERKINS, of Elliottstown, in the county of Effingham and State of Illinois, have invented a certain new and useful Improvement in Baling-Presses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figures 1 and 2 are top views, Fig. 1 showing the platen and lever in their normal position, and Fig. 2 showing them forced forward to press the hay, cotton, or whatever it may be. Fig. 3 is a transverse section of the drum or capstan, illustrating the manner of securing the lever ropes or cables thereto. Fig. 4 is a detail section of one pair of the levers, illustrating the manner of securing them together and the ropes or cables thereto.

My invention relates to a press intended more particularly for baling hay; but it may be used for baling cotton, &c.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, A represents the frame of the press; B, the platen; C, the drum or capstan; D, the sweep, (not shown in Fig. 2;) I, toggle-levers connecting the platen with the rear part of the frame; J, ropes or cables connecting the levers with the drum, and L a rope or cable connecting the platen with the drum. I claim novelty and invention in the arrangement of the parts, but not broadly in the parts themselves, for they are old, being shown in the patent to Charles A. Robinson, dated March 21, 1871, and numbered 112,966.

In my improved press the toggle-levers are hinged together at or near in line with the opposite sides of the drum, as shown in Fig. 1, their respective cables passing from their pivot-points M to the side of the drum, with which their hinged points M are in line, the object being to get as direct a pull as possible on the levers and avoid the diagonal pull shown in Fig. 2. This diagonal pull cannot be altogether avoided, but it can to a material extent by thus hinging the toggle-levers in line with the opposite sides of the drum, for it will be readily seen that the points M

will not be as far forward of the drum when the platen has reached the extent of its forward movement as they would were they opposite the center of the drum before the pressing commenced, as in the patent referred to.

The drum has mortises N to receive the lever ropes or cables, and the edges against which the ropes or cables bear are rounded, as shown at O, Fig. 3, so as not to cut the rope or cable. Each rope has a mortise, one being below the other, so that the ropes or cables will not coil one over the other, and a single rope may be used by passing it through one mortise, then half-way around the drum, and through the other mortise.

Each pair of levers are hinged together by pins P, to which the ends of the rope or cable are made fast, (see Fig. 4,) and the ends of the levers are mortised out, as shown at V, Fig. 4, to give room for the ropes or cables to move without binding and being cut as the levers are operated.

The platen is pulled back after being forced forward by the levers by the rope L winding around the drum, as in the patent referred to.

I claim as my invention—

1. In a hay or cotton press, the combination of the frame, platen, toggle-levers connecting the platen to the frame, drum, sweep, and ropes or cables connecting the toggle-levers to the drum, the levers being hinged at M in line with the opposite sides of the drum, substantially as shown and described, for the purpose set forth.

2. In a hay or cotton press, the combination of the frame, platen, toggle-levers connecting the platen to the frame, drum, sweep, ropes or cables connecting the toggle-levers to the drum, and rope or cable connecting the platen to the drum, the levers being hinged at M in line with the opposite sides of the drum, and being mortised out at V to receive the ropes, and the drum having mortises to receive the lever ropes or cables, and rounded at O, substantially as shown and described, for the purpose set forth.

WILLIAM J. PERKINS.

Witnesses:

BELLE PERKINS,
JENNIE PERKINS.