(No Model.)

D. LOSTUTTER.

DEVICE FOR OPERATING BALING PRESSES.

No. 456,703. Patented July 28, 1891.

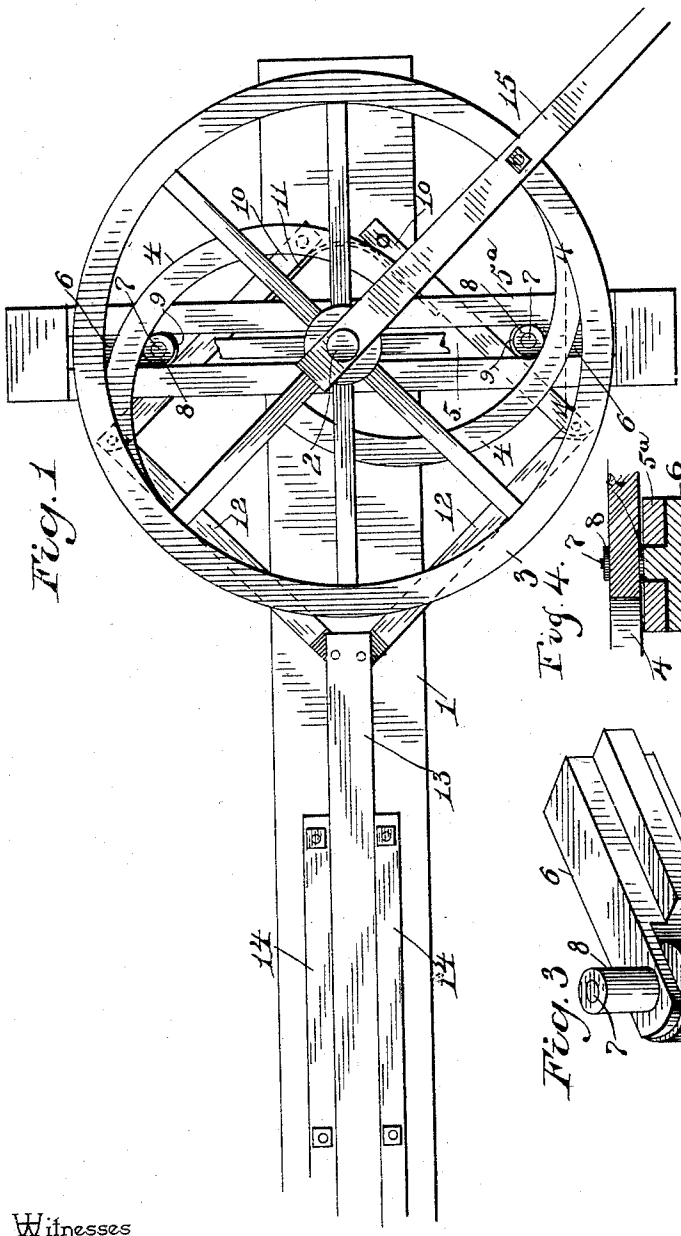


Fig. 1.

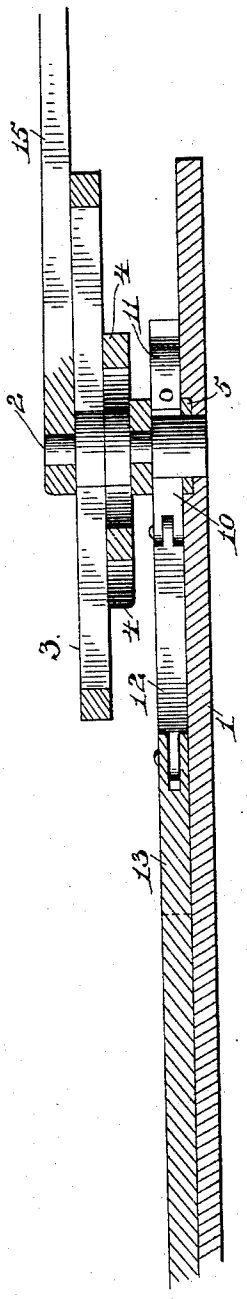


Fig. 2.

Fig. 4.

Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

DAVID LOSTUTTER, OF NORTH'S LANDING, INDIANA, ASSIGNOR OF ONE-HALF TO JOHN W. BUNGER, OF SAME PLACE.

DEVICE FOR OPERATING BALING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 456,703, dated July 28, 1891.

Application filed March 13, 1891. Serial No. 384,903. (No model.)

To all whom it may concern:

Be it known that I, DAVID LOSTUTTER, a citizen of the United States, residing at North's Landing, in the county of Ohio and State of Indiana, have invented a new and useful Device for Operating Baling-Presses, of which the following is a specification.

This invention relates to devices for operating that class of baling-presses which are provided with reciprocating plungers; and it has for its object to provide a device of this class which shall be simple in construction, durable, easily operated, and of such a nature as to furnish the necessary power with the least possible expenditure of initial force.

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 plan view of a device constructed in accordance with my invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a perspective detail view. Fig. 4 is a sectional detail view taken through the cross-piece 5 and slide 6 on the line 4 4 in Fig. 1.

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

1 designates a base-frame, upon which is mounted a vertical shaft 2, forming a bearing for the wheel 3. The latter may be of any suitable construction, and to the under side of the same are secured the curved cams 4 4, which extend from the rim or tire of the wheel in the direction of the center, as will be readily seen in the drawings.

Suitably secured transversely upon the frame 1 and at right angles thereto is the cross-piece 5, having suitable ways or guides, as 5^a, for the slides 6 6. The latter are provided with upwardly-extending pins or studs 7, upon which wheels or rollers 8 may be mounted to engage the cams 4. The inner sides of said blocks or slides may likewise be provided with suitable anti-friction rollers 9.

10 10 designate a pair of levers, which are pivoted upon the base 1 in rear of the cross-bar 5, and said levers are normally forced apart from each other by the action of a suitable spring 11 interposed between them. The free ends of said levers are connected by means of links or connecting-rods 12 with a reciprocating rod 13, which is mounted between suitable guides 14 upon the base 1, and which is in turn to be connected with the plunger of the press which is to be operated. The wheel 3 is provided with a sweep or lever 15, to which the power may be applied.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. When the wheel 3 is rotated, the cams 4 will engage the slides 6 and force them in the direction of each other, causing them to engage the levers 10 10 and to press them together, thus forcing the plunger-rod 15 in a forward direction. When the cams 4 pass out of engagement with the slides, the slides will rebound under the impulse of the spring 11 and levers 10.

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

1. The combination of the horizontally-arranged wheel provided on its under side with curved cams extending from the rim or tire in the direction of the center, the laterally-movable slides adapted to be engaged by said cams, the levers pivoted at one end to the frame and their bodies engaged by said slides, the plunger connected to said levers, and the retracting-spring, substantially as and for the purpose set forth.

2. The combination, with the wheel having the curved cams extending from the rim or tire in the direction of the center, of the laterally-movable slides having anti-friction rollers to engage said cams, the levers pivoted at one end to the frame and their bodies engaged by said rollers, the plunger connected to said levers, and the retracting-spring, substantially as set forth.

3. The combination, with the wheel having the curved cams extending from the rim or tire in the direction of the center, of the laterally-movable slides engaged by said cams and having anti-friction rollers, the levers adapted to be engaged by the rollers on said slides, a spring interposed between said levers, the reciprocating plunger-rod, and the

connecting rods or links, substantially as and for the purpose set forth.

4. The combination of the wheel having the curved cams extending from the rim in the direction of the center, the laterally-movable slides mounted between suitable guides and having upwardly-extending pins carrying anti-friction rollers engaging said cams, other anti-friction rollers in the inner ends of said slides, the levers mounted pivotally between said slides and engaged by the latter rollers, the spring interposed between said levers, the reciprocating plunger-rod, and the connecting rods or links connecting the latter with the free ends of the levers, substantially as and for the purpose set forth.

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

DAVID LOSTUTTER.

Witnesses:
I. M. POWELL,
B. G. NORTH.