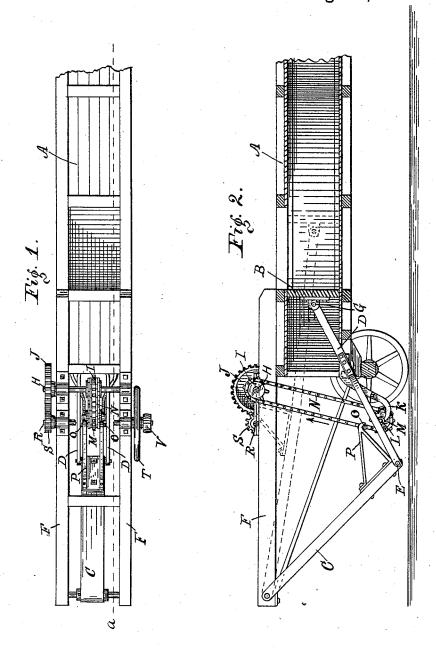
## M. O. REEVES. BALING PRESS.

No. 457,369.

Patented Aug. 11, 1891.



WITNESSES: B.H. Wood V. M. Hood INVENTOR
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## UNITED STATES PATENT OFFICE.

MILTON O. REEVES, OF COLUMBUS, INDIANA.

## BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 457,369, dated August 11, 1891.

Application filed June 1, 1891. Serial No. 394,700. (No model.)

To all whom it may concern:

Be it known that I, MILTON O. REEVES, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented a new and useful Improvement in Baling-Presses, of which the following is a specification.

My invention relates to an improvement in baling-presses of that class in which the fol-10 lower of the press is operated by means of

toggle-joint levers.

The object of my improvement is to provide means whereby the follower may be quickly withdrawn after making its thrust, and remain at rest a considerable time, thus facilitating the "charging" of the press.

The accompanying drawings illustrate my

invention.

Figure 1 is a plan. Fig. 2 is a longitudi-

20 nal section at a, Fig. 1.

In the drawings, A designates the balingchamber of the usual well-known form in socalled "continuous baling-presses."

B is the follower or plunger, arranged to 25 have a reciprocating movement toward and

from the baling-chamber.

C and D are the levers forming a togglejoint, said levers being jointed together at E, C being pivoted at one end to an extension 30 F of the main frame of the press, while D is pivoted at G to the follower. Levers C and D are arranged to swing in a vertical plane, so that the weight of the levers operates to draw the plunger backward and hold it nor-35 mally at the charging end of the machine.

For the purpose of raising levers C and D, and thus forcing the follower B forward and then automatically discharging said levers, so that the follower is quickly returned to its 40 normal position by the force of gravitation,

I employ the following mechanism:

H is a shaft mounted in suitable bearings on the upper part of the main frame. Secured to the shaft H is a driving gear-wheel 45 J and a sprocket-wheel I, arranged between the sides of the main frame. Mounted opposite shaft H on a bracket K, extending from the lower part of the main frame, is a shaft L, carrying a sprocket-wheel M. A chain 50 belt N is mounted on the sprocket-wheels I and M, and one of the links of said chain is provided with projecting lugs O O. The toggle-joint formed by the levers C and D is provided at its knuckle with a hook P, which is

arranged to embrace the sides of the chain 55 belt N, so as to stand in the path of the lugs O when they are passing upward.

The driving gear-wheel J is driven by means of a counter-shaft R, carrying the spur-pinion S, balance-wheel T, and driving-pulley V.

The operation of my device is as follows: The shaft H and chain belt N being driven constantly in one direction, the outer side of the belt moving upward, as indicated by the arrow, and the toggle-joint levers being de- 65 pressed, as indicated in full lines in Fig. 2, the lugs O as they move upward engage the hook P, and the levers are raised, thus pushing the follower forward until the toggle-joint is straightened, as indicated by dotted lines, 70 Fig. 2. On reaching this point the lugs O pass out of engagement with the hook, and the toggle-joint levers fall, thus quickly drawing the follower back to its normal position and allowing it to stand at rest until the 75 lugs O are again brought into engagement with the hook. By this means ample time is allowed for putting a new charge of material into the press.

I claim as my invention—

1. In a baling-press, the combination, with the follower and a pair of levers forming a toggle-joint and arranged to impart a reciprocating movement to the follower, of a chain belt mounted on the main frame and ar-85 ranged to move in a vertical plane thereon, and intermediate connecting mechanism connecting said belt and toggle-joint levers, whereby during the continuous forward movement of the belt the toggle-joint levers are go alternately automatically engaged with and disengaged from the belt, substantially as and for the purpose set forth.

2. In a baling-press, the combination of the baling-chamber, the reciprocating follower 95 mounted therein, the toggle-joint levers connected at one end to the main frame and at the other end to the follower, and provided at the knuckle-joint with a hook, the chain belt mounted in the main frame so as to 100 move in a vertical plane, and provided with lugs arranged to engage said hook, all arranged to co-operate substantially as and for the purpose set forth.

MILTON O. REEVES.

Witnesses:

JOHN JEWELL, CHAS. A. REEVES.