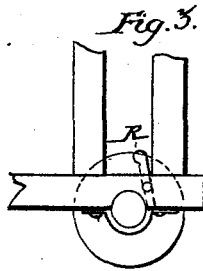
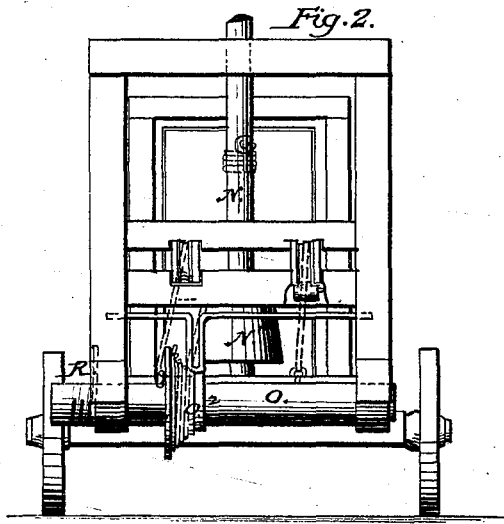
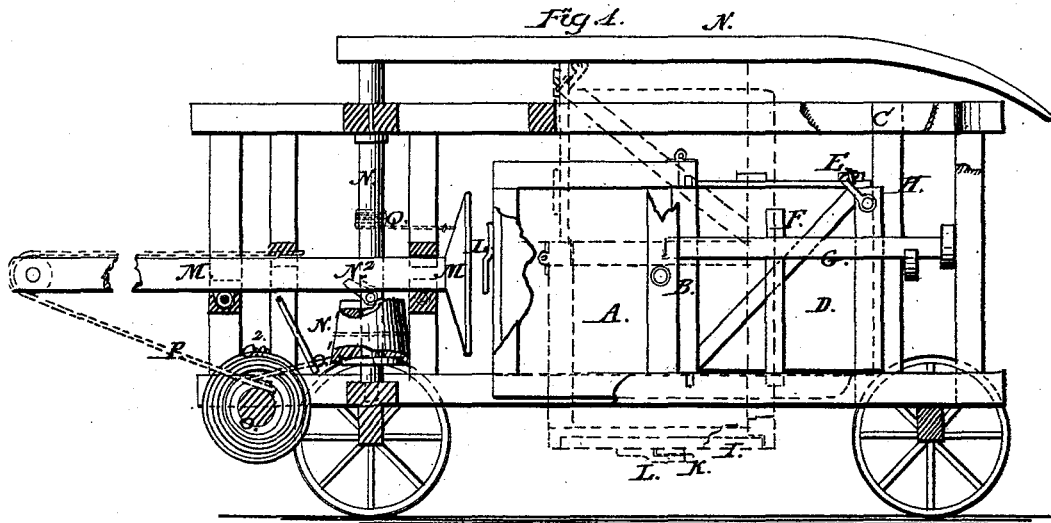


*J. Berkeley,*

*Hay Press.*

*No. 95416.*

*Patented Oct. 5. 1869.*



*Witnesses:*  
*J. Kinchman*  
*Jno. P. Brookes*

*Inventor:*  
*J. Berkeley*  
*per*  
*Wm. Co.*  
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# United States Patent Office.

JOHN BERKELEY, OF WASHINGTON, TEXAS.

Letters Patent No. 95,416, dated October 5, 1869.

## IMPROVEMENT IN HAY AND COTTON-PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN BERKELEY, of Washington, in the county of Washington, and State of Texas, have invented a new and improved Press; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in presses for cotton, hay, and similar substances, designed to provide a portable press, of simple and cheap construction, mounted on wheels, for moving it from place to place, and arranged for adjusting the case in a vertical position for filling, and in a horizontal position for pressing, the follower being also arranged to work in a horizontal position, all as hereinafter more fully specified.

Figure 1 represents a side elevation partly in section;

Figure 2 represents a front-end view; and

Figure 3 represents a detail.

Similar letters of reference indicate corresponding parts.

The packing-box A is mounted upon trunnions at B, upon the portable frame C, for adjusting it to the vertical position for filling, or to the horizontal position for pressing.

It is also provided with doors on each side, to be opened for discharging the finished bale. These doors are held in the closed position while filling the box, by the hooks and staples at E, and while pressing, clamping-bars F G are applied on each side, as clearly shown in fig. 1.

The end of the box, represented at the top in red, in fig. 1, is always open when in that position, and is closed by the vertical bulkhead H, when the box is turned down, and this bulkhead opposes the force of the follower in pressing.

The other end of the box is provided with a detachable end, I, arranged to be secured by a button, K, and catches L, to be applied while filling, and removed for pressing.

M represents the follower, the arms M' of which, are suitably arranged in a horizontal position to cause the follower to move freely into or out of the box, and

for operating the follower, a sweep-shaft, N, supported vertically between the arms M', is provided, having a drum, N<sup>1</sup>, fixed loosely thereon, but capable of being connected thereto for rotation, by a button, N<sup>2</sup>.

From this drum, motion is imparted to a winding-shaft, O, by a cord, O<sup>1</sup>, over a conical drum, O<sup>2</sup>, having a spiral groove wherein the cord works, in a manner to have greater leverage as the pressure increases.

From the shaft O, cords P work over pulleys at the end of the arms M', and they are fastened to the framing.

For drawing the follower back, a cord, Q, is connected to the follower, and to the shaft N, which, when the latter is turned in the direction opposite to that for effecting the pressing, will draw the follower out, the drum N<sup>1</sup> being disconnected from the shaft, so as to work loosely, to allow the cord O<sup>1</sup> to unwind, which, together with the unwinding of the cord P, will be effected by the outward movement of the arms M'.

To cause the cord O<sup>1</sup> to wind properly both on the drums N<sup>1</sup> and O<sup>2</sup>, I have provided a spiral groove, R, on the shaft O, of the same pitch, and in the same direction as the groove in the said drum O<sup>2</sup>; also a guide, R', working in the said spiral groove R, which imparts a longitudinal movement to the shaft, which causes the cord to wind properly thereon.

The bale, after being pressed, is removed through either side, one of the doors D, thereof, being opened previous to changing the position of the case.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

1. The combination of the sweep-shaft N, drum N<sup>1</sup>, shaft O, spirally-grooved drum O<sup>2</sup>, and follower, when arranged substantially as specified.

2. The arrangement of the spirally-grooved drum O<sup>2</sup>, shaft O, and guide R, all substantially as specified.

3. The arrangement of the sweep N, loose drum N<sup>1</sup>, button N<sup>2</sup>, withdrawing-cord Q, and follower M, all as specified.

JOHN BERKELEY.

Witnesses:

C. P. MONROE,

J. R. CLARK.