C. B. Brooks,

Hay Press.

No. 48,151. Patented June 13, 1865.

Fig. 1.

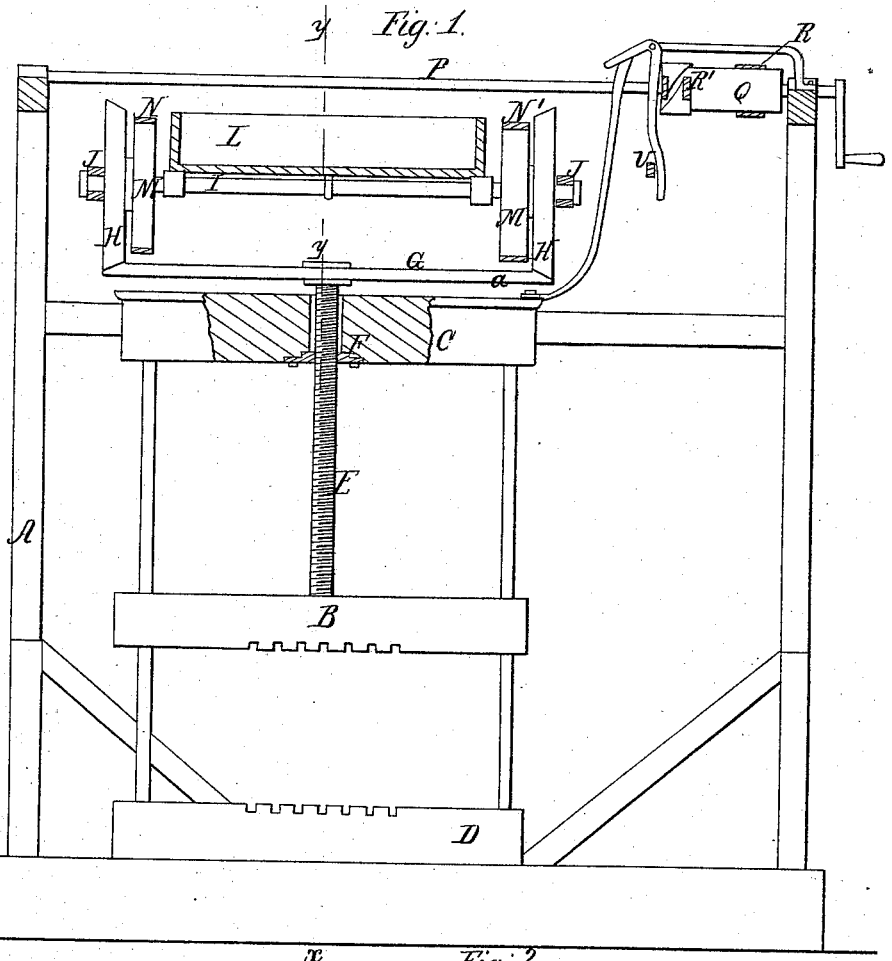
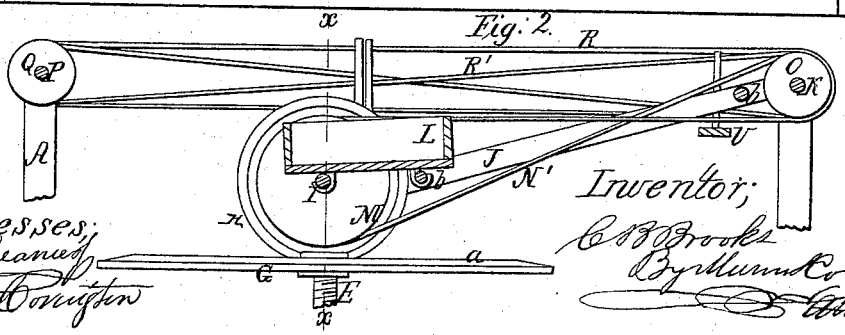


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES B. BROOKS, OF AUBURN, MAINE.

IMPROVEMENT IN BALING-PRESS.

Specification forming part of Letters Patent No. **48,151**, dated June 13, 1865.

To all whom it may concern:

Be it known that I, CHARLES B. BROOKS, of Auburn, in the county of Androscoggin and State of Maine, have invented a new and Improved Baling-Press; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a side section view of the upper part of the same, taken in the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the screw-press for baling purposes; and it consists in a novel manner of operating or applying power to the screw through the medium of friction, as hereinafter fully shown and described, whereby several advantages are obtained over the mode of applying power.

A represents a framing, which may be constructed in any proper manner to support the driving mechanism of the press.

B represents the follower of the press; C, the head-block, and D the base, the article or goods being compressed between B and D.

E is the screw by which the follower is operated, said screw working in a fixed nut, F, in the head-block, and passing up through the latter, and having a wheel, G, keyed or otherwise secured on its upper end. This wheel G has a wide rim, *a*, which is beveled or inclined, and two bevel friction-wheels, H H, bear or rest upon it at opposite sides of its axis or screw E. These friction-wheels H H are placed loosely on a shaft, I, the ends of which are fitted in parallel bars J J, connected by cross-rods *b*. These bars and cross-rods constitute a swinging frame, which works loosely on a shaft, K, on the framing, and the free or disengaged end of said frame is provided with a box, L, to receive any substance to give additional weight and cause the wheels H to bear upon the rim of the wheel G with sufficient pressure to rotate said wheel and operate the screw E. The wheels H H have each a pulley, M, attached, around which belts N N′ pass from pulleys O on shaft K, the belt N′ being crossed, in order to rotate the wheel H, which it drives in a reverse direction to the other wheel, the belt N of which is straight or not crossed.

P is a driving-shaft, placed on the framing A and having a drum Q upon it around which the belts R R′ pass, one of said belts, R′, being crossed, the other being straight or not crossed. These belts R R′ drive the shaft K (one at a time, however,) by passing over a fast pulley on shaft K, the belt that is idle being on a loose pulley, there being one of the latter for each belt R R′. These belts are shifted from their loose pulleys to the fast pulley, and vice versa, by means of a belt-shipper, U, of the usual construction. By this arrangement it will be seen that the screw E may be turned in either direction, and the follower B forced down for compressing articles and raised so as to release the bale when hooped or bound.

The improvement is extremely simple, and admits of the press being quickly operated. There are no parts liable to get out of repair, the device is very compact, and its operation almost noiseless.

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

The wheel G on the upper end of the screw E, in combination with the friction-wheels H H, when the latter are placed in an adjustable loaded frame and rotated in reverse directions from a shaft, K, driven alternately by a straight and cross belt, and all arranged substantially as and for the purpose set forth.

CHARLES B. BROOKS.

Witnesses:
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