

J. E. ALFORD.

Improvement in Presses.

No. 132,229.

Patented Oct. 15, 1872.

Fig 1.

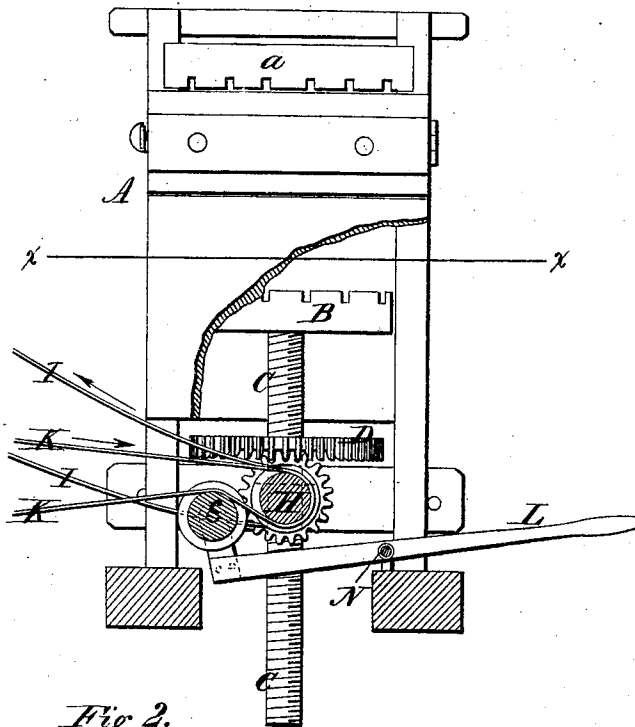
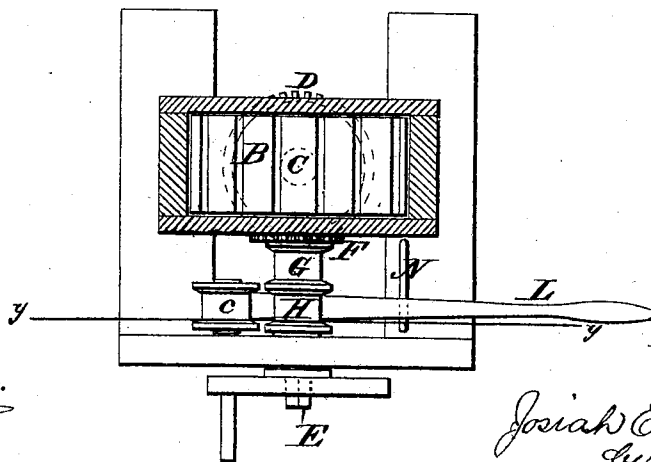


Fig 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JOSIAH E. ALFORD, OF FRANKLINVILLE, NORTH CAROLINA.

## IMPROVEMENT IN PRESSES.

Specification forming part of Letters Patent No. 132,229, dated October 15, 1872.

### *To all whom it may concern:*

Be it known that I, JOSIAH E. ALFORD, of Franklinville, in the county of Franklin and State of North Carolina, have invented certain Improvements in Baling-Presses, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to presses used in baling cotton, hay, &c.; and consists in a novel manner of constructing and operating them, as hereinafter described.

Figure 1 is a side elevation of my press, with the driving-gear taken in section. Fig. 2 is a horizontal section of the press on the line *x x* of Fig. 1.

In constructing my press I build a suitable frame or body, A, having its top provided with a fixed bed or head-block, *a*, and with doors for closing the sides. In the frame or body I mount a movable bed or plunger, B, provided with a rigid screw, C, which screw passes down through the center of a horizontal gear-wheel, D, which latter is supported on solid bearings. In the side of the frame I mount a horizontal shaft, E, provided with a pinion, F, gearing into wheel D, and with two fixed drums or pulleys, G and H, as shown in Fig. 2. From the respective drums or pulleys to the engine, water-wheel, or other motor that may be employed, I extend two belts, I and K, arranged to run in opposite directions, and slack enough to slip on the drums without turning them. In the lower part of the frame I mount a horizontal lever, L, on a rod, N, so that it may be moved sidewise thereon, and on the inner end of the lever, which extends

through under the drums or pulleys, I mount a roller, *c*, as shown.

When operating the press the two belts are allowed to run continuously and loosely until the bed or plunger is to be moved. If the bed is to be raised the lever is moved outward on the rod and its outer end depressed so as to cause the roller *c* to bear against and tighten the outer belt, so that it will drive the drums in the required direction, the other belt of course running loosely in the meantime. As soon as the lever is released it slackens the belt and the drums stop. When the bed is to be lowered the lever is moved inward on the rod, and then its end depressed so as to cause the roller to tighten the inner belt, so that it will revolve the drums backward, or in a direction the reverse of that in which they were turned by belt.

By thus arranging the two drums and belts and the movable tightening-lever I enable the operator to control the operation of the press with great ease and quickness.

Having described my invention, what I claim as new, and desire to secure, is—

The baling-press constructed as described, and provided with the drums G and H, and with the laterally-adjustable lever L having the roller on its end, in combination with the slack belts I and K arranged to run in opposite directions, as and for the purpose set forth.

JOSIAH E. ALFORD.

Witnesses:

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