L. BOUDREAUX.

PRESS.

No. 47,387. Patented Apr. 25, 1865.

Fig. 2.

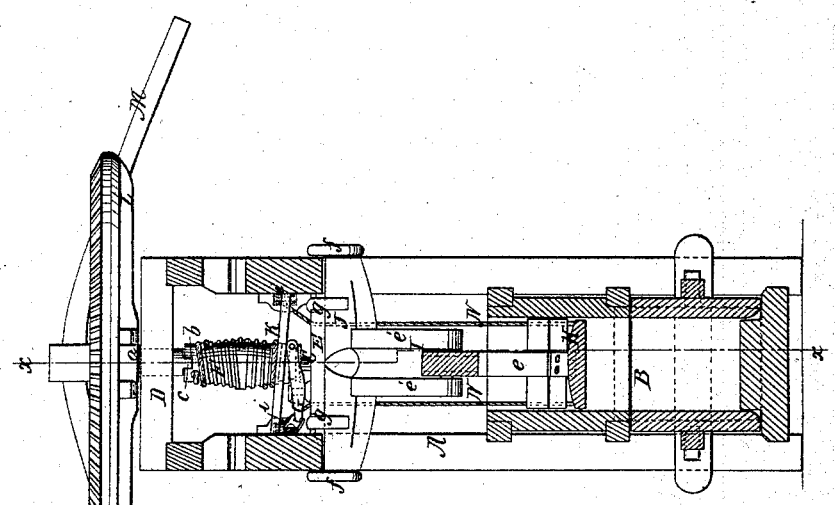
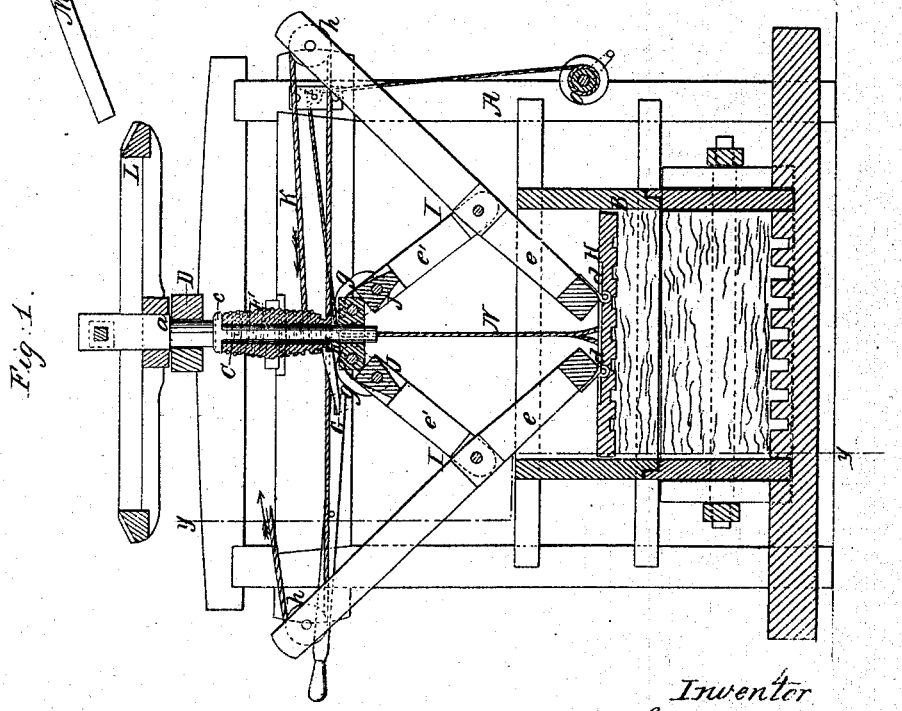


Fig. 1.



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UNITED STATES PATENT OFFICE.

LOUIS BOUDREAUX, OF THIBODAUX, LOUISIANA.

IMPROVEMENT IN PRESSES.

Specification forming part of Letters Patent No. **47,387**, dated April 25, 1865.

To all whom it may concern:

Be it known that I, LOUIS BOUDREAUX, of Thibodaux, in the parish of La Fourche and State of Louisiana, have invented a new and Improved Baling-Press; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2; Fig. 2, a transverse vertical section of the same, taken in the line *y y*, Fig. 1

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to a new and improved press for compressing substances—such as cotton, hay, &c.—for the purpose of baling the same.

The invention consists in the employment or use of toggle-levers, and a windlass arranged in a novel manner, so that the press may be used in either a vertical or a horizontal position, and by any convenient power.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the framing of the press, which may be constructed in any proper manner, so as to be strong and durable; and B is a press-box secured in the lower part of said framing, the press in the drawings being represented in a vertical position. The press-box may be constructed in the usual manner, and therefore does not require a minute's description.

C is a vertical shaft placed in the upper part of the framing A, and having a shoulder, *a*, upon it, which bears or rests upon a cross-bar, D, on the framing, the lower end of said shaft being stopped in a cross-bar, E, some distance below D, as shown in both figures.

On the shaft C there is placed loosely a sleeve or jacket, F, the exterior of which is of bi-conical form. This sleeve or jacket is connected with the shaft C by means of a clutch formed of a recess, *b*, in the upper end of the sleeve or jacket, and a projection, *c*, on the shaft C, the sleeve or collar being moved on said shaft in order that the recess *b* may receive the projection *c* by means of a jointed or elbow lever, G.

H is the follower of the press, which works in the box B, and is connected by hinges or joints *d d* to the lower ends of the arms *e e* of two toggles, I I. The upper ends of the arms *e' e'* of these toggles are connected to cross-heads J J, the ends of which are suspended by links *f* to the ends of the cross-bar E. Each cross-head J has two or more claws, *g*, at its upper edge, which work or project over the edges of E and serve as guides for the arms *e' e'*.

A is a rope, the ends of which are attached, one to the upper and the other to the lower end of the sleeve or jacket F, said rope passing around pulleys *h* in the upper parts of the arms *e e* of the toggles I I. (See Fig. 1.)

On the upper end of the shaft C there is keyed a horizontal wheel, L, having two sweeps, M M, attached to it.

N N are two cords connected to the follower H, and extending upward through the cross-bar E and over pulleys *i i*, down to a windlass, O.

From the above description it will be seen that when the follower H is elevated in the press-box B, and the latter filled with the substance to be compressed, and the shaft C turned with the sleeve or jacket F connected with it, the follower H will be forced down, the rope K being wound up on the sleeve or jacket, and the upper ends of the arms *e e* of the toggles drawn toward each other. The compressed substance is hooped or bound in the usual or any proper manner, the lower part of the press-box being provided with doors, through which the bale is removed. The follower may be raised by turning the windlass O in the proper direction.

This press, when desired, can be used in a horizontal position by having the wheel L beveled and toothed, as shown in the drawings, so that a pinion on a power-shaft may gear into it. The whole arrangement is extremely simple and compact.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

In combination with the toggles I I and beater H, the shaft C and jacket F, so constructed as to be coupled and uncoupled by the lever G, and adapted to permit the rope K to be unwound and the beater to be raised without reversing the motion of the wheel L.

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