C. H. Robinson,

Cotton Press,

No. 45,754, Patented Jan. 3, 1865.

Fig. 3

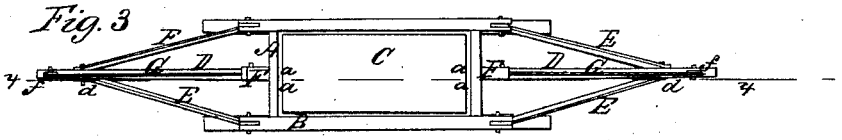


Fig. 2

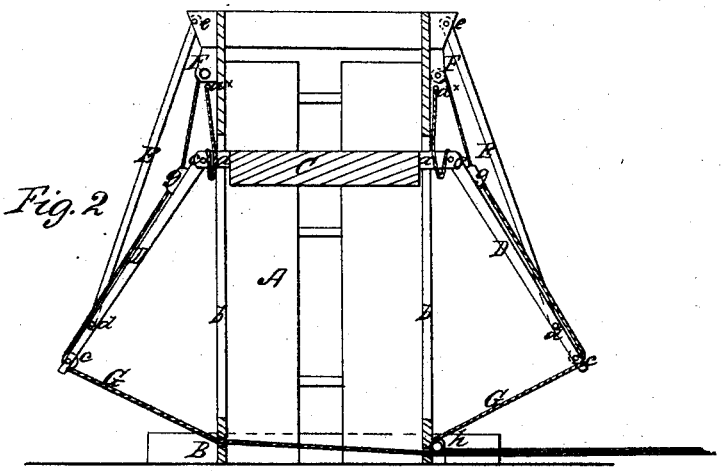
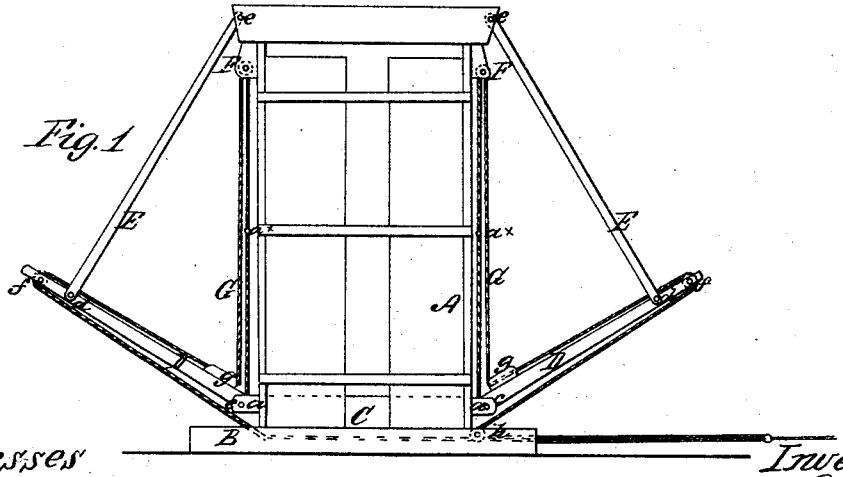


Fig. 1



Witnesses
Thos Tuck
C. L. Topliff

Inventor:
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per Munn & Co.
attys

UNITED STATES PATENT OFFICE.

CHARLES H. ROBINSON, OF BATH, MAINE.

IMPROVEMENT IN PRESSES.

Specification forming part of Letters Patent No. 45,754, dated January 3, 1865.

To all whom it may concern:

Be it known that I, CHARLES H. ROBINSON, of Bath, in the county of Sagadahoc 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 others 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 is a side view of my invention. Fig. 2 is a vertical central section of the same, taken in the line *x x*, Fig. 3. Fig. 3 is a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved press for baling; and it consists in a novel arrangement of levers applied to the follower or platen in such a manner as to render the press very compact, and also very efficient in its operation.

A represents an upright press-box, which is placed within a suitable framing, B, and C is a platen or follower, which is placed within the press-box, and is allowed to work freely up and down therein. The platen or follower is provided at each end with two arms, *a a*, which pass through vertical grooves *b* in the sides of the press-box, and have levers D fitted between them and secured by pivot-bolts *c*. These levers D, near their outer ends, are connected by a pivot-bolt, *d*, with swinging arms E E, the latter being connected to the upper part of the press-box A by pivot-bolts *e*, there being two arms E to each lever D, as shown in Fig. 3.

To the upper part of the press-box A, at each side of it, there is a sheave, F, and over these sheaves ropes G G pass, said ropes also passing around pulleys *f* in the outer parts of the levers D, and through guides *g* at the inner ends of said levers, the inner ends of the ropes being attached to the inner ends of the levers, as shown in Figs. 1 and 2. One of the ropes G passes around a pulley, *h*, at the lower part of the press-box A, and the other passes through the lower part of the same, as shown clearly in Fig. 2, and the two ropes are connected to a windlass, which may be operated by horse-power. When the platen or follower C is down at the bottom of the press-box A, the levers D D have an inclined position upward from the arms *a a*, as shown in Fig. 1, and when power is applied to the ropes G G in the direction indicated by the arrow the platen or follower will be raised, the power being applied directly to the platen or follower, or, in other words, the ropes G lifting it directly without the intervention of the levers. When, however, the platen or follower reaches a certain height, stops $a^{\times}$ on the cords G come in contact with the sheaves F, and the levers D D are then brought into requisition, and a progressive leverage power is obtained just when it is required. (See Fig. 2.) By this arrangement of levers and arms a very portable or compact press is obtained, the platen or follower being allowed to descend to the bottom of the press-box. The ropes G G also lead from the windlass directly to the press or levers, so that the ropes are not liable to twist during the pressing operation.

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

The levers D D, attached to the platen or follower C, in combination with the swinging arms E E and the ropes G G, all being arranged and applied to operate in the manner substantially as and for the purpose herein set forth.

CHAS. H. ROBINSON.

Witnesses:

J. D. ROBINSON,

ISAIAH S. COOMBS.