

E. R. Wallace,

Hay Press.

No. 111,993.

Patented Feb. 21, 1871.

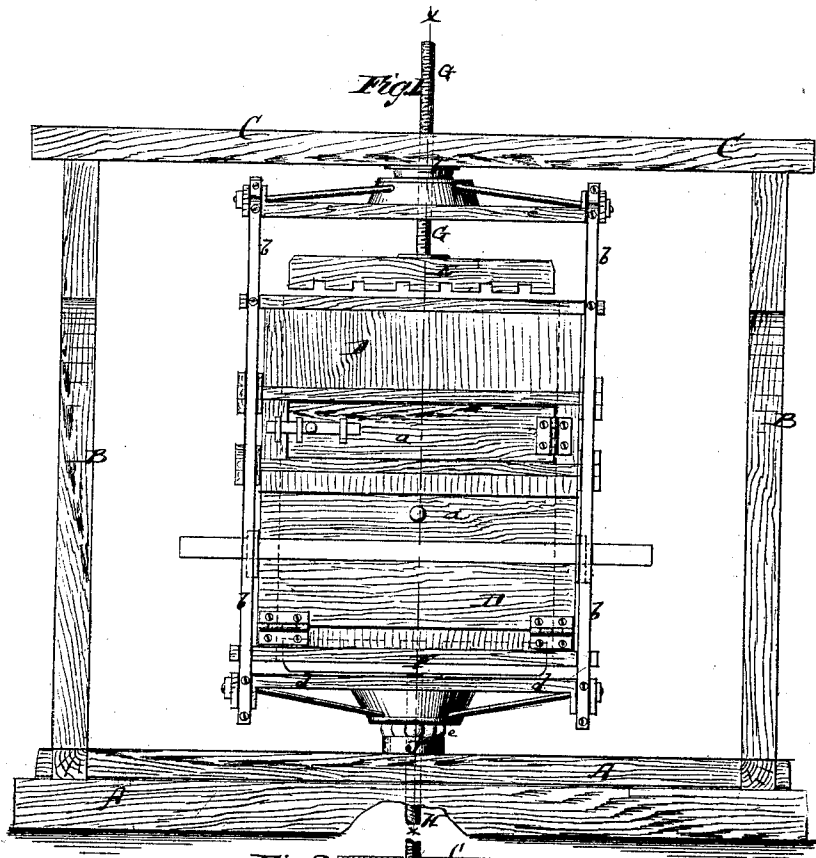
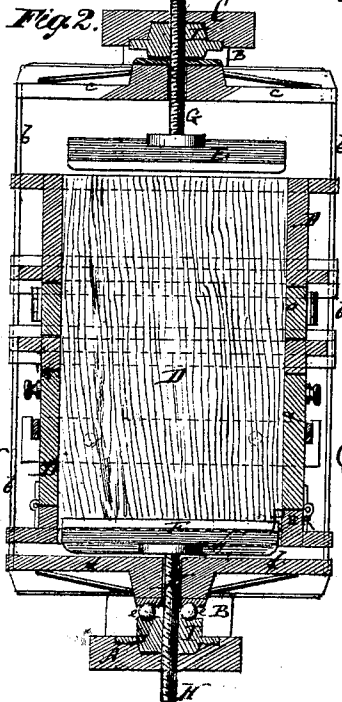


Fig. 2.



Witnesses:

John Becker.
L. S. Spabee

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United States Patent Office.

EDWIN R. WALLACE, OF JONESVILLE, SOUTH CAROLINA.

Letters Patent No. 111,993, dated February 21, 1871.

IMPROVEMENT IN BALING-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, EDWIN R. WALLACE, of Jonesville, in the District of Union and State of South Carolina, 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 drawing forming part of this specification, in which—

Figure 1 represents a side view of my improved baling-press.

Figure 2 is a vertical transverse section of the same, taken on the plane of the line *xz*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new baling-press of that kind in which two followers are used, one above the other, they being secured, respectively, to right and left-hand screws, and moved toward or away from each other by being turned together with the box.

The invention consists in a new combination of parts, as hereinafter more fully described.

A in the drawing represents the bed or bottom support of my improved baling-press.

From its ends project posts B B, which carry a top beam, C, above the press.

D is the baling-box, made of wood or other material, of prismatic form, and open at both ends.

A door, *a*, is provided in each side of the box, at or near the middle of the same.

E is the upper follower of the press.

F, the lower follower.

These followers are, respectively, secured to right and left-hand screws G H, which project through threaded nuts I J, that are fastened in the beams C and A, respectively. The followers are of such proper size as to fit the box in the manner indicated in the drawing.

The box D is, by suitable straps, *b b*, connected with a top plate, *c*, and bottom plate *d*.

The bottom plate *d* rests on balls *e e*, which are placed into an annular groove on top of the lower nut J.

The screw H passes freely through the plate *d*.

The top plate *c* is held against the face of the upper nut I, either directly or by intervening rollers or balls. It is freely traversed by the screw G.

When the two followers are furthest apart the lower will still be in the lower part of the box D, while the upper will be out of the box, as seen in fig. 1, so that it can be turned to open part of the box and allow the insertion from above of the material to be baled. The box is now turned so as to turn both followers with it, and will thereby cause the same to approach each other and compress the material between them.

When the requisite degree of compression has been obtained the rotary motion is arrested and the doors *a* opened for tying the bale. Then the box may be revolved in opposite direction, to slacken the bale and permit its easy removal through the door.

During the revolution of the press and follower the friction is chiefly absorbed by the balls *e*, and in part, also, by the upper friction-surface.

Having thus described my invention,

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

The baling-box D, straps *b*, and plates *c* and *d*, open at both ends, and revolving in frames A B C D, combined, as described, with two followers, rotating on a right and a left screw, for the purpose specified.

EDWIN R. WALLACE.

Witnesses:

JEREMIAH LARKIN,
WM. STERN.