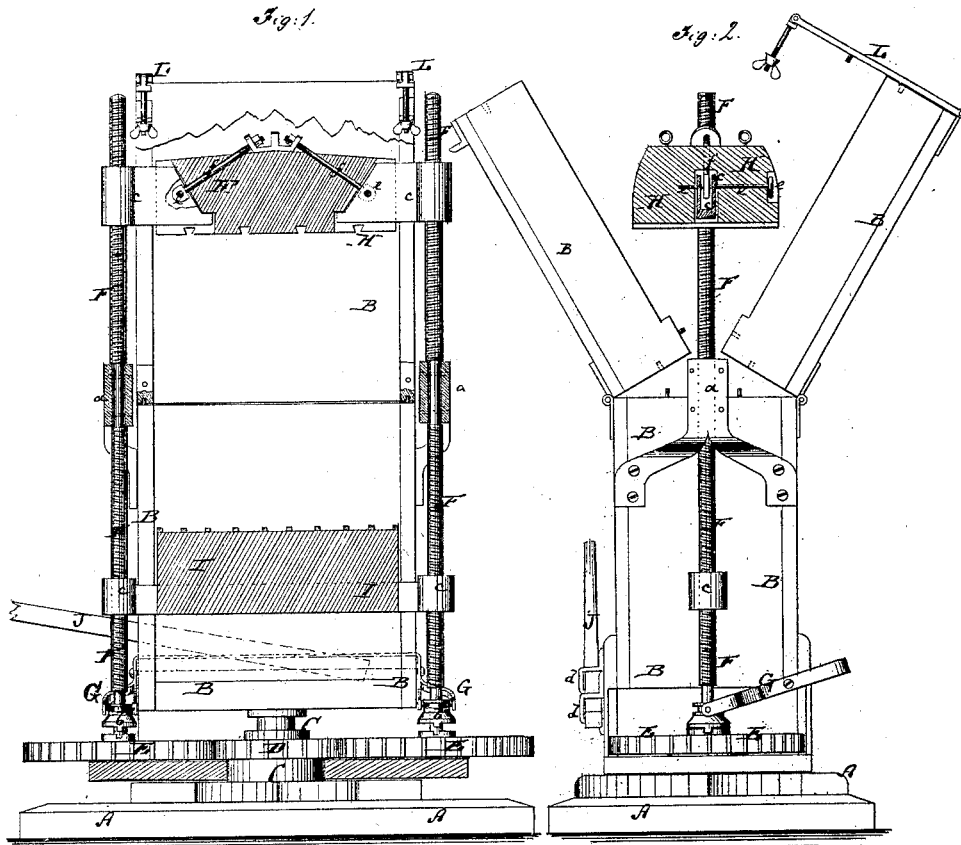


S. BOOTON.
COTTON PRESS.

No. 108,320.

Patented Oct. 18, 1870.



Witnesses:

Chas. Nida.
L. S. Hoare

Inventor:
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United States Patent Office.

SINCLAIR BOOTON, OF SEGUIN, TEXAS.

Letters Patent No. 108,320, dated October 18, 1870.

IMPROVEMENT IN COTTON-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, SINCLAIR BOOTON, of Seguin, in the county of Guadalupe and State of Texas, have invented a new and improved Cotton-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.

Figure 1 represents a vertical longitudinal section of my improved cotton-press.

Figure 2 is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts.

My invention pertains to improvements in hay and cotton-presses, and consists in a certain construction and arrangement of parts, as specified in the claim, and as described in connection with others necessary to make up the practicable and operative machine.

A in the drawing represents the stationary frame or bed on which my improved press is supported.

B is the box or body of the press.

It is supported by a vertical pin or arbor, C, that projects from the frame A into the lower part of the box B, allowing the latter to be revolved on or with said pin.

A stationary toothed wheel, D, is fitted upon the arbor C, its teeth meshing into gear-wheels E E, that are hung upon the lower ends of two vertical screws F F. These screws are arranged on the opposite sides of the press, and are provided with right and left-hand screw-threads, at their respective upper and lower ends.

They are hung in ears *a a*, that project from the press, and can revolve therein.

The toothed wheels E are loose upon the lower parts of the screws, but can be locked thereto by means of clutches *b b*, which are operated by a suitable lever, G.

H and I are the respective upper and lower followers of the press.

They have projecting nuts *c c*, at the ends, that fit through slots in the press, and that are held by the screws, as shown.

The press has projecting loops or sockets *d*, for the reception of levers J, by means of which it may be turned.

When by the lever J the press is revolved on the pivot C, the wheels E E being clutched, the screws will both be revolved by the rolling of the wheels E on D, and will thereby impart vertical motion in opposite directions to the nuts of the two followers respectively. Thus both followers will be simultaneously moved toward each other for pressing, and away from each other for filling the press. By this simultaneous movement much time is saved, as the speed of operation is doubled.

The nuts *c* of the upper follower H are locked to the same by pins *e*, passing transversely through them, and through braces *f*, that may be used on said follower if desired.

The sides of the press may, on the upper part of the same, be hinged, to facilitate filling and emptying, and can be locked, for closing the press, by cross-beams L, or other fastenings.

Having thus described my invention,

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

1. The upper follower H, connected by removable pins *e* with the nuts *c*, substantially as herein shown and described, to be detachable, as specified.

2. The gear-wheels D E E, arbor C, clutches *b*, right and left-hand screws F F, ears *a a*, followers H and I, provided with nuts *c c*, and the braces *f*, all constructed and arranged with reference to the case provided with hinged sides, as shown and described.

The above specification of my invention signed by me this 17th day of August, 1870.

SINCLAIR BOOTON.

Witnesses:

GEO. W. MABEE,
T. B. MOSHER.