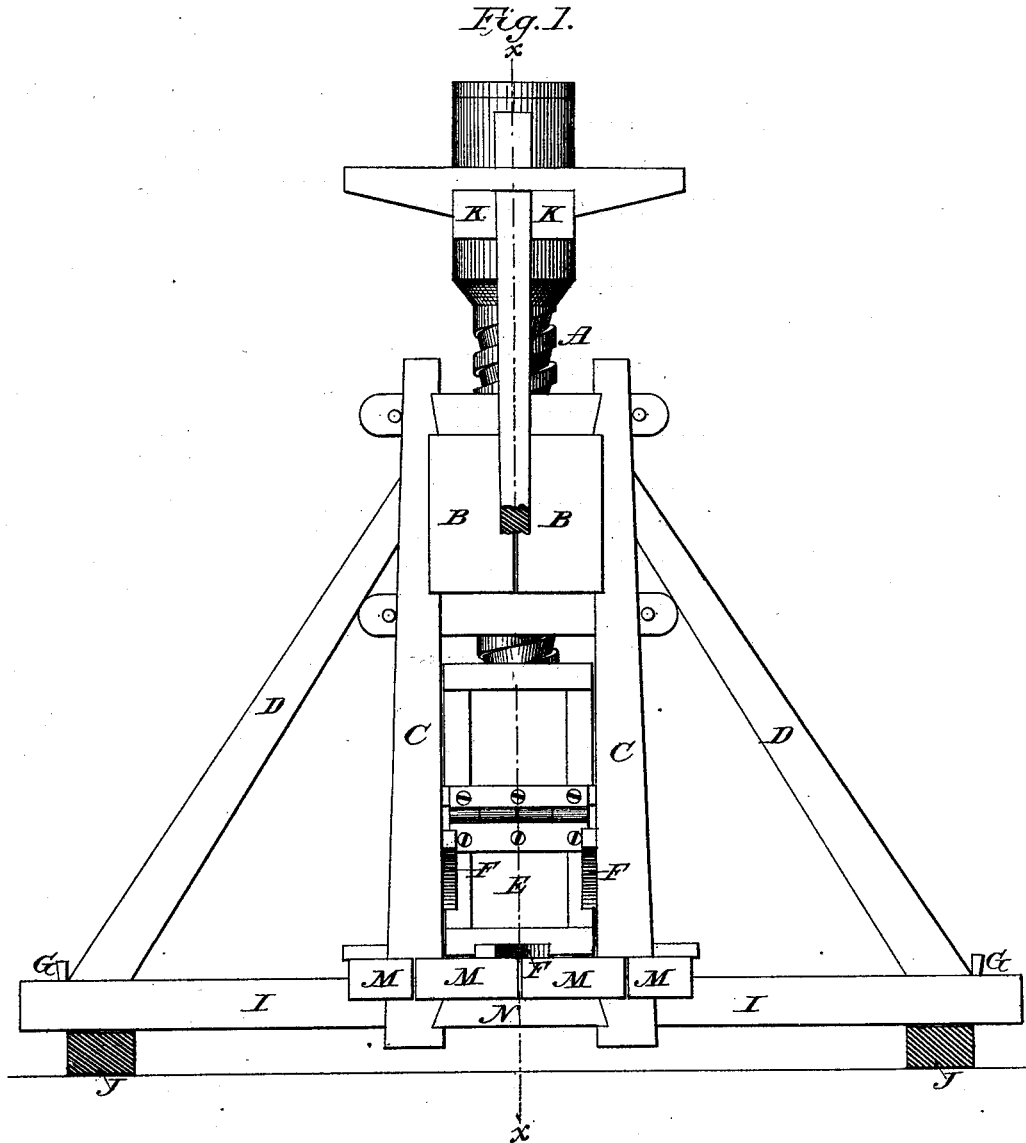


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Cotton-Press.

No. 221,691.

Patented Nov. 18, 1879.



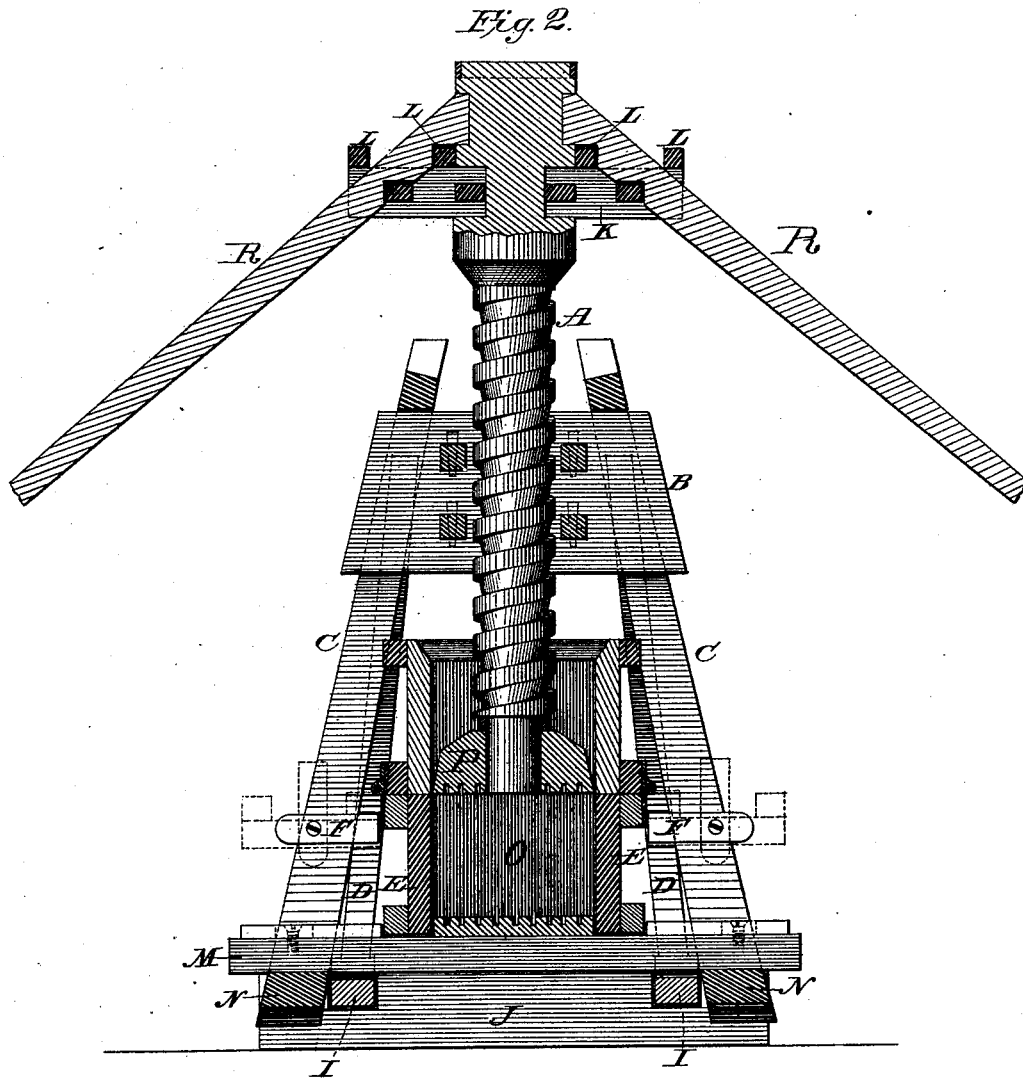
Witnesses:  
J. M. Miller  
L. H. Duntz,

Inventor:  
A. J. Miller

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J. J. McAn

# UNITED STATES PATENT OFFICE.

ANDREW J. MILLER, OF COKESBURY, SOUTH CAROLINA.

## IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. **221,691**, dated November 13, 1879; application filed February 19, 1879.

*To all whom it may concern:*

Be it known that I, ANDREW J. MILLER, of Cokesbury, in the county of Abbeville and State of South Carolina, have invented a new and useful Improvement in Cotton-Presses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, in which—

Figure 1 is an end elevation. Fig. 2 is a side elevation, partly in section, on the line *x*, Fig. 1.

The object of my invention is the construction of a cotton-press which shall not only be of great power and efficiency in operation, but will be simple and cheap in construction and easily worked.

My invention consists, first, in the improved frame-work, also in the clamps for strengthening the screw-pin; and, further, in the construction and arrangement of the operative parts, as fully hereinafter described, and covered by the claims.

In the drawings, A represents the wooden screw by which the press is raised and lowered. That portion of the screw between the threads is tapered or diminished in size at about right angles to the pitch of the threads, thus forming a support for the threads, preventing them from being split or broken off by the heavy and constant strain to which they are subjected in use. This peculiar form of the screw greatly increases its strength.

B represents the nuts through which the screw passes, and in which it works. It is constructed in two sections and has a screw-thread on its interior corresponding to that of the screw A.

The frame which supports the machine is composed of four upright, or nearly upright, posts, C C, which are braced by beams D, supported by the sills I I, and strengthened by the wedges G.

The sills I rest in foundation-sills J J and act as supports to the bed-pieces M. The bed-pieces are further supported by beveled cross-pieces N, which are set into the corner-posts C, and are suspended therefrom.

The whole device is, therefore, suspended, which renders it easy to adjust and level when occasion requires.

O is the cotton-box, which is supported by the bed-pieces M. It is provided with shutters E, which are hinged to allow free access to the interior. The shutters are kept in position by movable buttons F, as shown.

P is the follower.

The upper end of the screw-pin is strengthened by clamps K, which are set therein, and cross-pieces L are provided, which give additional strength, and also serve as a foundation for the roof.

R R represent the hand levers or sweeps by which the screw is operated.

The operation of the press will be readily understood. The cotton is placed in the box O and the follower is brought down upon it by turning the screw, which can be done by two men without the use of horse-power.

The advantages of the device lie in its simplicity and efficiency, the ease with which it can be worked, its great strength, its ready adjustment by reason of its being suspended, making it easy to level it, and the cheapness with which it can be manufactured.

Having thus fully described my invention, I claim—

1. The described frame-work, consisting of foundation-sills J, cross-beams I N, bed-pieces M, corner-posts C, and braces D, as set forth.

2. The combination, with the screw-pin A, of the clamps K and cross-pieces L, substantially as and for the purposes set forth.

3. The cotton-press described, consisting of the screw working in sectional nuts B B, the cotton-box O, having hinged shutters E E and buttons F, the levers R R, clamps K K, and braces L L, a foundation-frame, and the corner-posts C C, by which the press is suspended, all as described and shown.

A. J. MILLER.

Witnesses:

J. M. MILLER,  
L. K. DANZLER.