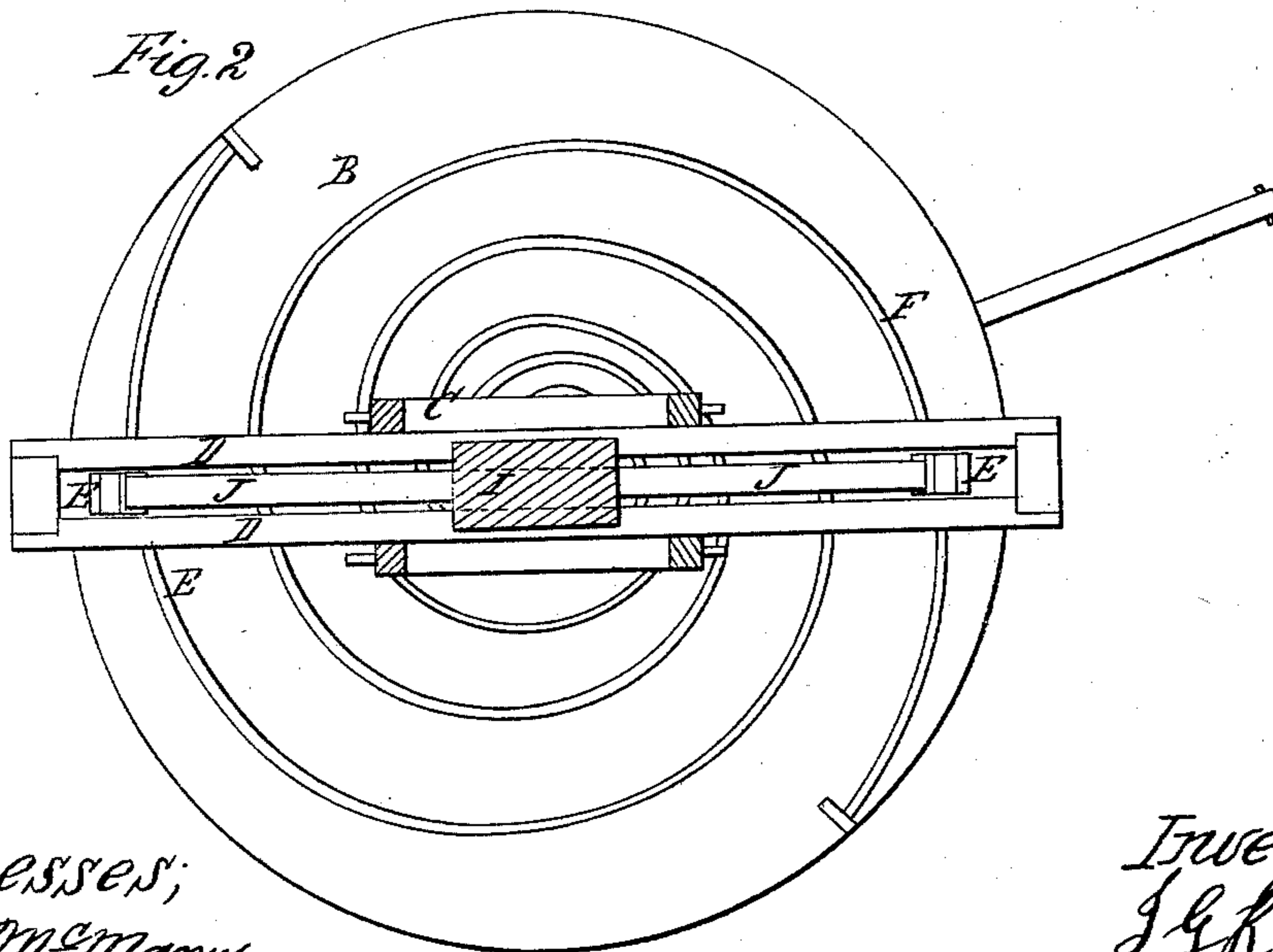
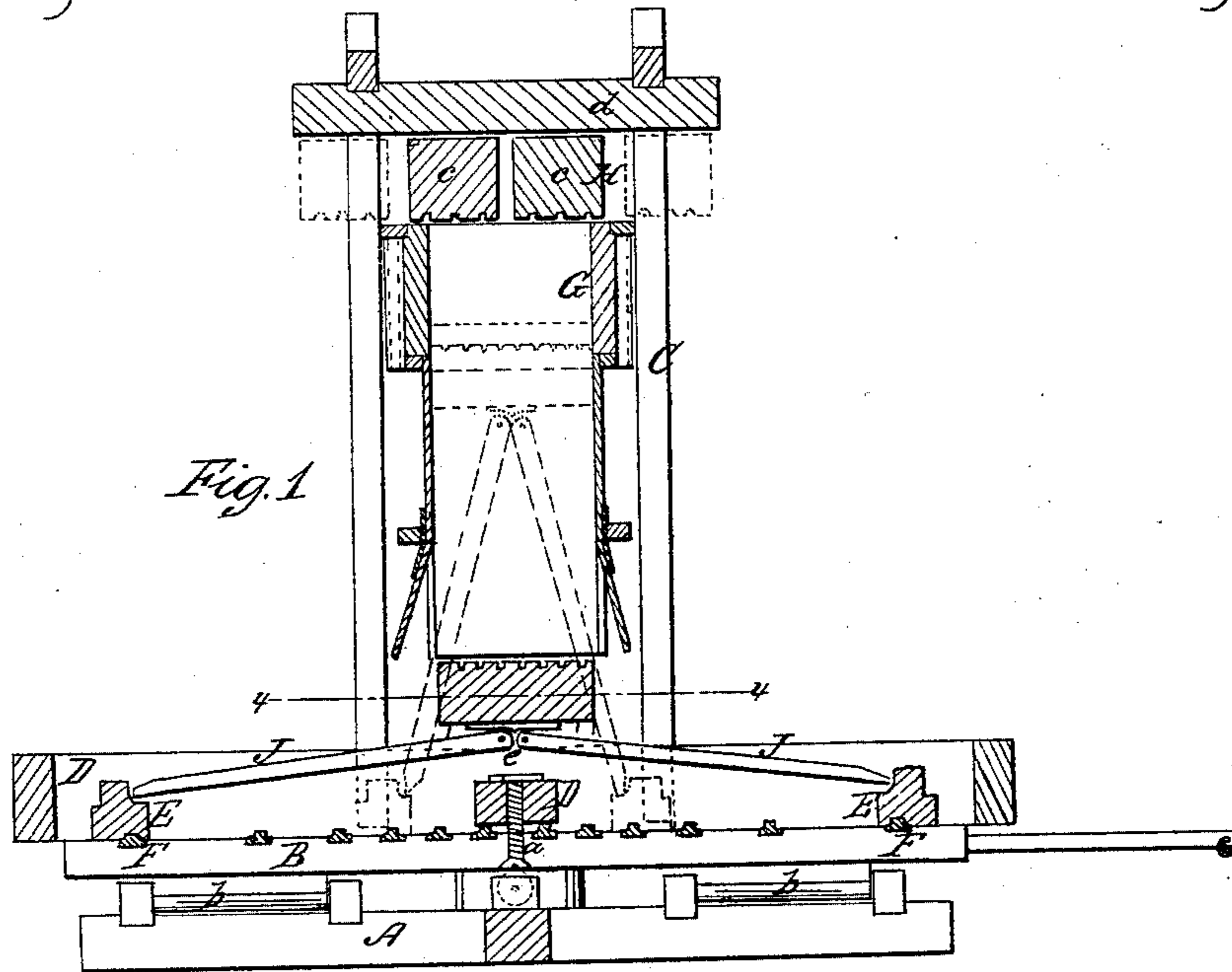


J. G. Roux,

Cotton Press.

N^o 23,397.

Patented Mar. 29, 1859.



Witnesses;
J. L. McManus
Daniel H. Dees

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UNITED STATES PATENT OFFICE.

J. G. ROUX, OF RAYMOND, MISSISSIPPI.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 23,397, dated March 29, 1859.

To all whom it may concern:

Be it known that I, J. G. ROUX, of Raymond, in the county of Hinds and State of Mississippi, have invented a new and Improved Cotton-Press; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical central section of my invention; Fig. 2, a horizontal section of the same, taken in the line *x x*, Fig. 1.

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

This invention consists in operating the follower of the press by means of a rotating platform having helical ledge or flange on its upper surface, and placed below the body of the press, the follower of which has two levers attached to its under side, the lower ends of said levers bearing against blocks which are placed on two helical ledges or rails, and are made to operate the follower when in the act of pressing with a progressive or gradually-increasing power as the platform is rotated.

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

A represents a base on which a circular platform, B, is placed, and secured by a central bolt, *a*, which serves as a center or axis for the platform, the platform resting on friction-rollers *b*, attached to the base.

C is a rectangular frame which rests on a cross-bar, D, into which the bolt *a* passes. In the lower part of the frame C two parallel bars, D D, are secured, said bars extending entirely across the platform B with a suitable space between them, and having in said space two blocks E E, which are fitted on two helical ledges or rails F F on the platform B. The form of these ledges or rails is shown clearly in Fig. 2, and it will be seen that they extend from the periphery to nearly the center of the platform.

In the frame C a press-box, G, is placed, and in the upper part of the frame a press-block, H, is placed, said block being formed of two parts, *c c*, and fitted in a dovetail groove in the under side of a cap-piece, *d*, of the frame C, so as to admit of said block being shoved

directly over the press-box, when the press is in operation, and moved at either side, as shown in red, Fig. 1, when the press-box is to be filled or a bale removed.

I is a follower, which is fitted and allowed to work freely within the press-box G. This follower has two levers, J J, attached by a pivot, *e*, to its under side, and the lower ends of said levers bear against the blocks E E. When the follower I is at its lowest point in the press-box G, the blocks E E are at the outer ends of the helical ledges or rails F F. The cotton or other substance to be compressed is placed in the box G at its top, the block H being moved aside, as before stated, and when the box is filled the two parts composing the block are re-adjusted and power applied to the platform B, which is rotated, and the blocks E E made to approach simultaneously the center of the platform, the follower I rising with a gradually-decreasing speed and a corresponding increasing power, the leverage power of course increasing as the blocks E approach the center of the platform. When the material is fully compressed, it is bound, as usual, the side doors of the press-box being lowered or opened, and the parts *c c* of the block H moved aside to admit of the ready removal of the bale. The movement of the platform B is then reversed, the follower I lowered, and the operation repeated.

I am aware that cams and levers have been arranged in various ways for operating the followers of cotton-presses, and I do not claim, separately or irrespective of the arrangement shown, any of the parts herein described; but,

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The rotating platform B, provided with helical ledges or rails F F, in combination with the blocks E E, placed on the ledges or rails, the levers J J, attached to the follower I, and the stationary press-box G, the whole being arranged to operate as and for the purpose set forth.

J. G. ROUX.

Witnesses:

J. L. McMANUS,
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