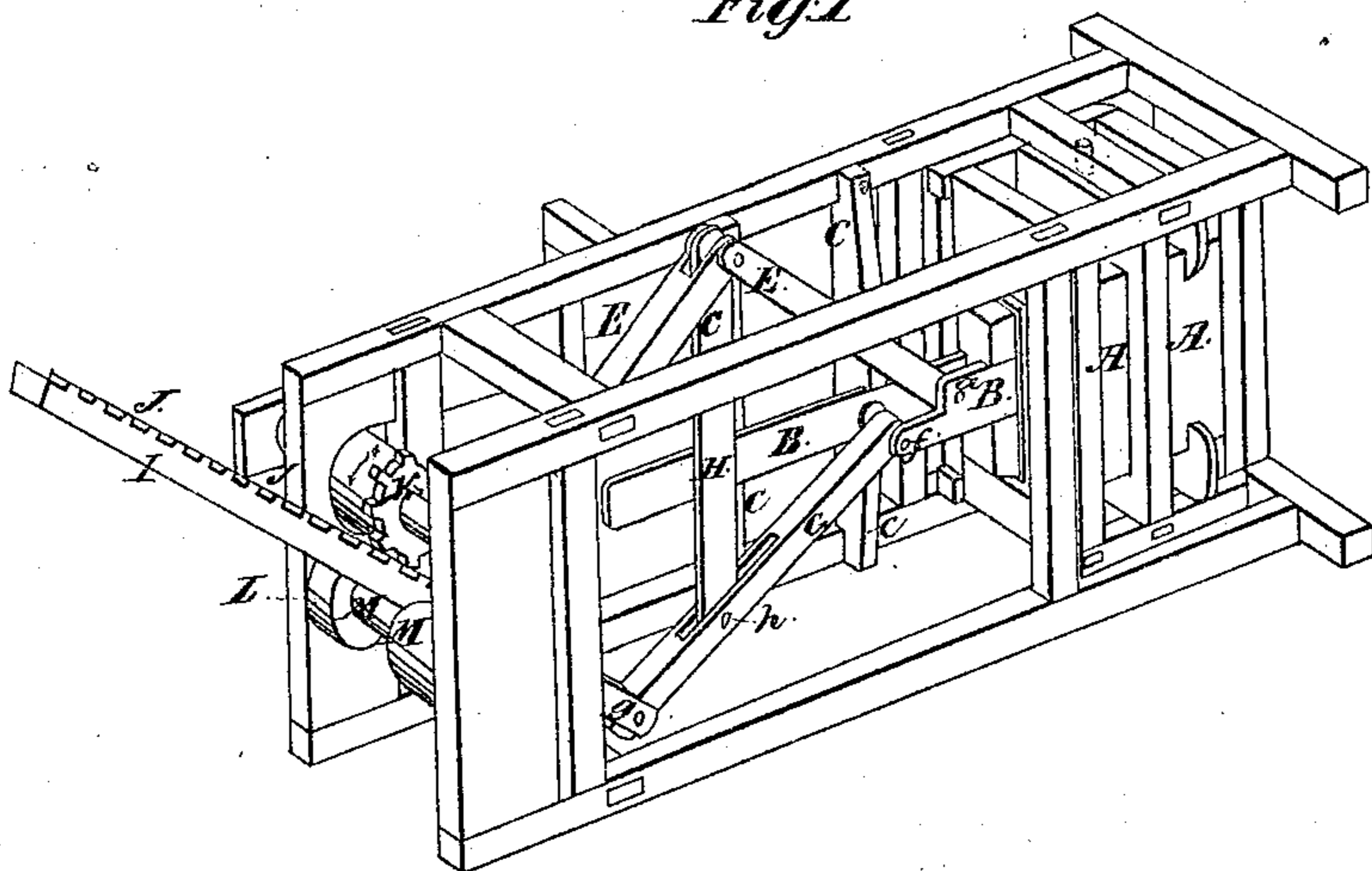


*E. H. Adams,*  
*Cotton Press.*

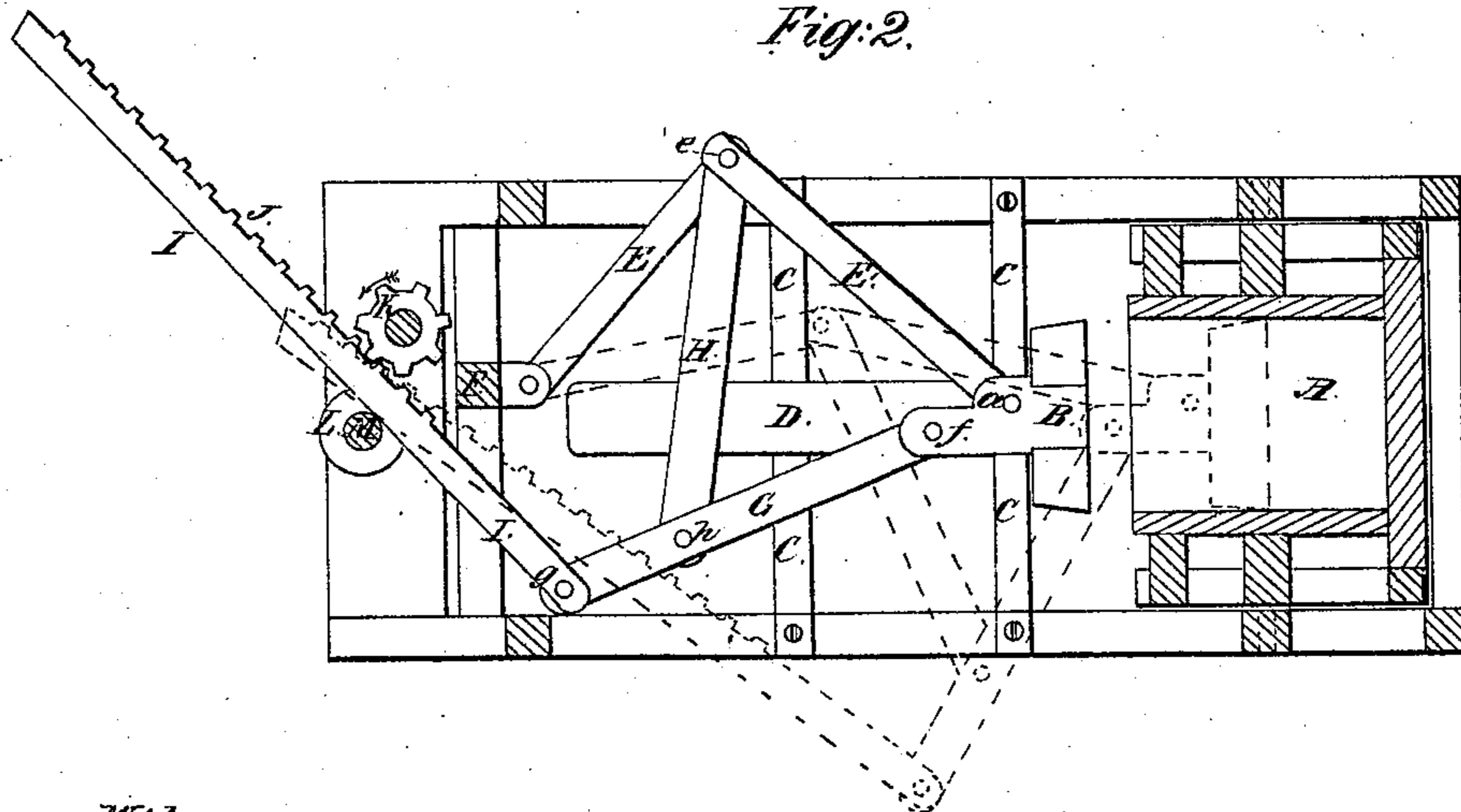
*N<sup>o</sup> 23,995.*

*Patented May 17, 1859.*

*Fig. 1*



*Fig. 2.*



*Witnesses:*

*Gas Lawren*  
*A. Bingham*

*Inventor:*

*Eloha H. Adams*

# UNITED STATES PATENT OFFICE.

ELISHA H. ADAMS, OF TALLADEGA, ALABAMA.

## IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 23,995, dated May 17, 1859.

*To all whom it may concern:*

Be it known that I, ELISHA H. ADAMS, of Talladega, Talladega county, Alabama, 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 thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 exhibits a perspective view of my cotton-press turned on its side, and showing the several parts in position to apply the pressure. Fig. 2 is a horizontal section of the same, exhibiting the parts in two positions.

The nature of my invention consists in a combination of levers, connecting-rod, and guide-rod, for opening the follower-block and guiding it while entering the bale-box, described, represented, and specified as follows:

The bale-box A is constructed similar to those in common use, being swung upon two pivots in either side of the press-frame, and provided with openings for receiving and discharging the cotton. The follower-block B is secured to one end of a flat guide-rod, D, which has its edges beveled so as to keep it confined within dovetail slots in the center of two cross-ties, C C. This rod is operated horizontally by means of levers E E', connected at *a* to the follower-block, and at *b* to a cross-beam, F, and jointed together at *e*. These levers are actuated so as to force the follower-block into the bale-box A with great force by a lever, G, which is pivoted to a projecting arm of the follower-block B at *f*, and extends to *g*, where it is pivoted to a lever, I, pro-

vided with rack-teeth J, meshing into teeth on driving-pinion K. This lever I has its bearing between two collars, L L, on roller M. The ends of the levers E E' are drawn down by a connecting-rod, H, which is pivoted respectively at *e* and *h*.

The operation is as follows: The cotton having been placed in the bale-box, and the sides placed on and clamped in the usual manner, motion is given to the pinions or driving-wheel K in the direction indicated by the arrow. This drives the lever I out and draws down the toggle-levers E E' by means of connecting-rod H, tending to bring them to a straight line. The lever E being held in a stationary bearing at *b*, its other end describes the arc of a circle, while the lever E', being pivoted at *e* to lever E and to the follower-block B, presses the said block with a power equal to the force of the combined system of levers hereinabove described; and when the lever I is pressed out to its fullest extent the parts present the positions shown by red lines in Fig. 2.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of guide-rod D, toggle-levers E E', connecting-rod H, lever G, and rack-lever I, all operating substantially in the manner and for the purposes herein set forth.

ELISHA H. ADAMS.

Witnesses:

JAS. LAWSON,  
A. BINGHAM.