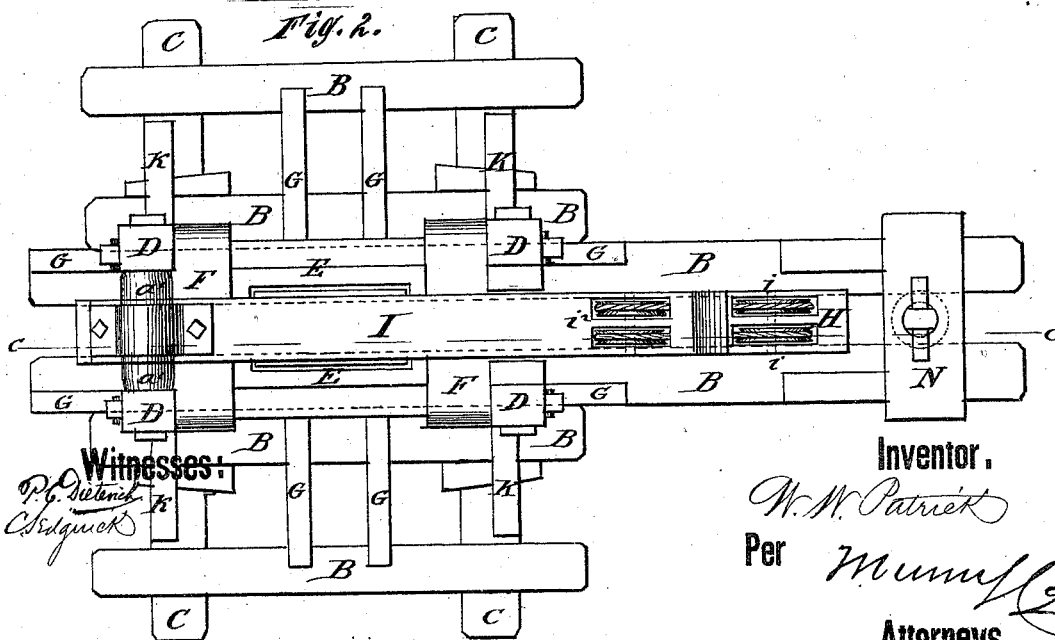
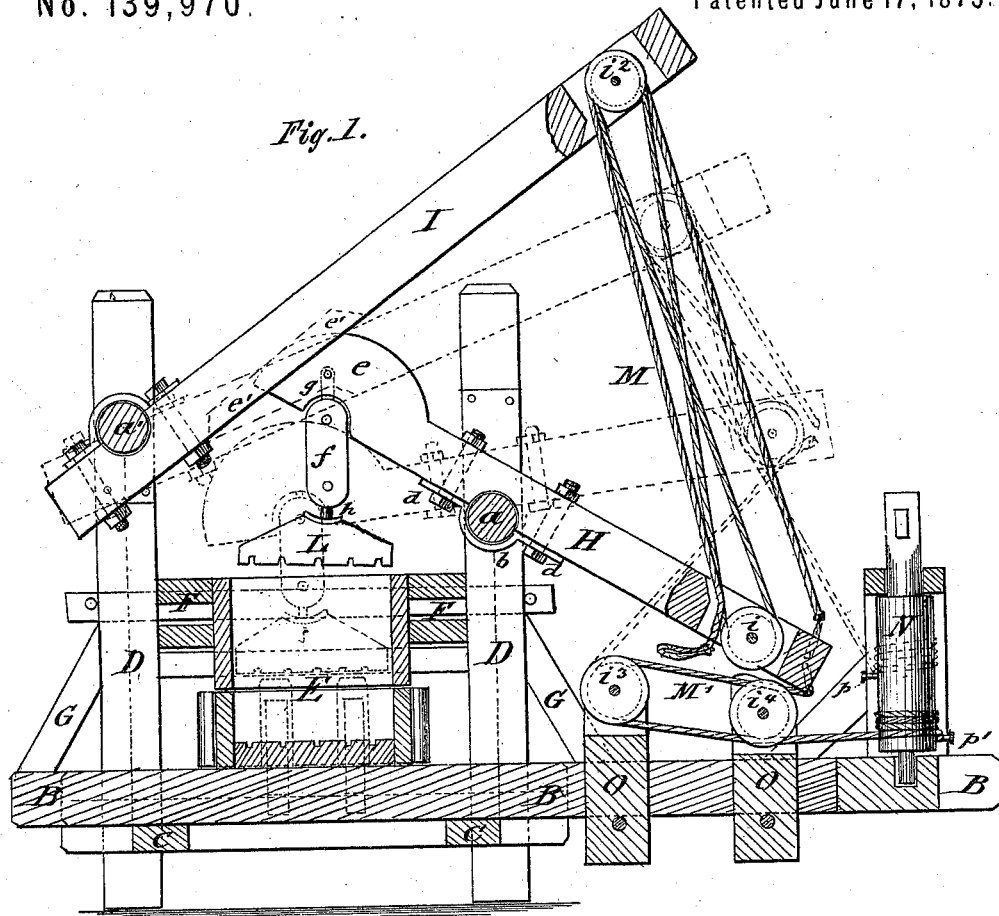


W. W. PATRICK.
Cotton-Presses.

No. 139,970.

Patented June 17, 1873.



UNITED STATES PATENT OFFICE.

WILLIAM W. PATRICK, OF MIDWAY, SOUTH CAROLINA.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. **139,970**, dated June 17, 1873; application filed April 5, 1873.

To all whom it may concern:

Be it known that I, WILLIAM W. PATRICK, of Midway, in the county of Barnwell and State of South Carolina, have invented a new and Improved Cotton-Press, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of my cotton-press on the line *c c*, Fig. 2, and Fig. 2 a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

The object of my invention is to construct, for the use of cotton-growers and others, a powerful press for packing the cotton in bales, which, on account of its plain construction, can be furnished at very moderate price. My invention consists of a frame of strong timbers, carrying the packing-box and a windlass. Two levers are pivoted to the upright posts of the frame, the lower one with semicircular head carrying the pendent follower-block, the upper or king lever pressing on the lower and packing thereby the cotton in the box. By pulleys and ropes at the end of the levers, in connection with the windlass, the power is obtained.

In the drawing, A represents the supporting-frame, constructed of strong bottom timbers B, transverse pieces C, and uprights D. The packing-box E is placed in the center of frame A, and is rigidly connected therewith by box-frame F, supported by inclined braces G. The upright posts D carry the levers H and I, and are strengthened by side braces K. The lower lever H rests, by means of a semicircular recess, on a strong transverse shaft, *a*, being pivoted and secured to it by semicircular band *b*, and bolts *d*. The semicircular head *e* of lever *h* carries at the lower side the pendent arm *f*, which moves in a semicircular recess of head *e*, being pivoted to a bolt, *g*, of the same. To the lower end of arm *f* is applied the follower-block L, connected by bolt *h*, and made to turn freely thereon. The follower L may therefore be turned sidewise after leaving the packing-box, and swung out of the way by bolt *g*, allowing the filling of the box with the cotton. The other end of the lever H has recesses for

two pulleys *i*, for the passing over of the ropes M, connecting with the pulleys *i*³ of lever I and the windlass N. A rope, M', attached to the end of lever H, passes over pulleys *i*³ and *i*⁴, placed into upright blocks O of the main timbers B, to a pin, *p*', at the lower part of the windlass or samson's post. The king-lever I is pivoted to shaft *a*' of the side posts D opposite to those supporting lever H, and is connected to it in similar manner by bolts and band-plate. A groove, *e'*, at the lower side allows the head *e* of lever H to glide freely therein. The end of rope M is connected with pin *p* of the windlass N, and compels the descent of lever I on winding the rope around the windlass. Lever-head *e* descends simultaneously and presses the follower-block L on the cotton in box E, packing the same closely therein. The rope M is then released, and the end of rope M' connected with pin *p*', bringing thereby the end of lever H down and raising lever I. The follower L rises above the box E, is turned across the same, and filled again with cotton, the follower is replaced and the pressing operation repeated. The windlass N has to be placed at a certain distance from the press, so as to get a long and powerful lever, and enabling two boys to pack the cotton easily and compactly.

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

1. The lever H having head *e*, in combination with pendent arm *f*, and follower-block L, to be adjusted substantially as described.
2. Lever I, having groove *e'* for head *e* of lever H, as set forth.
3. The combination of levers H and I by means of pulleys, ropes, and windlass to elevate and depress them, substantially as set forth.
4. The combination, with the shafts *a*, uprights D, box-frame F, and packing-box E, of the lever H *e*, arm *f*, follower-block L, lever I *e'*, and pulleys, ropes, and windlass, substantially as described.

WILLIAM W. PATRICK.

Witnesses:

H. BECKMAN,
GEO. W. MUSE.