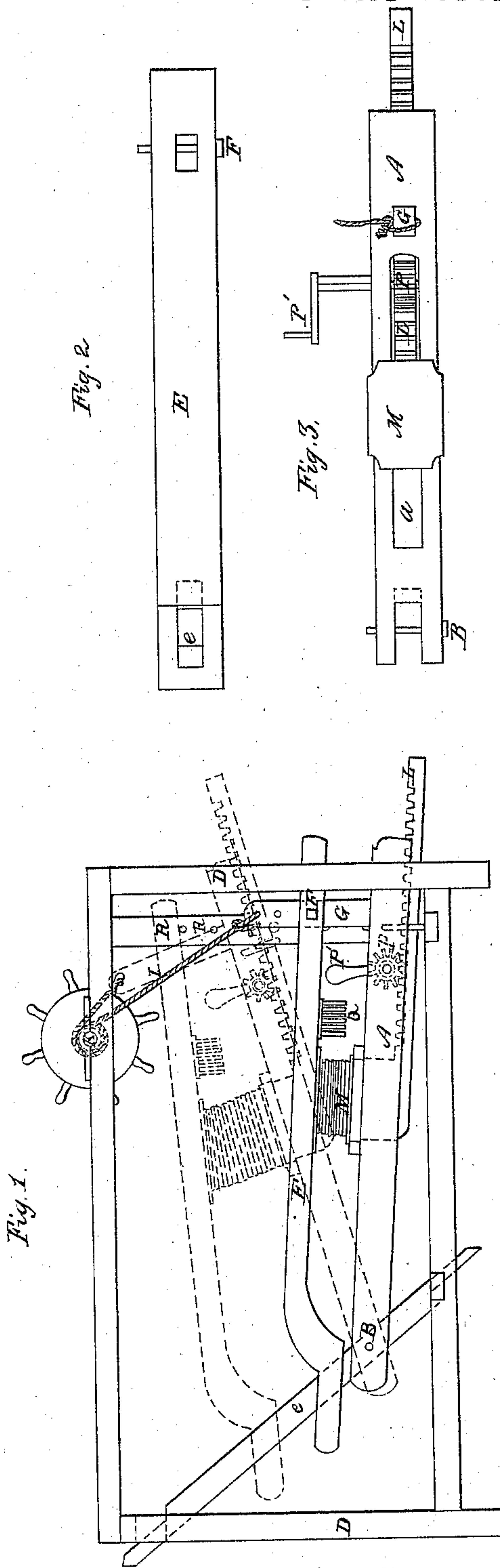


A. Jackson, Cotton Press.

N^o 3637.

Patented June 24, 1844.



UNITED STATES PATENT OFFICE.

AMOS JACKSON, OF LIBERTY, ILLINOIS.

IMPROVEMENT IN PRESSES.

Specification forming part of Letters Patent No. 3,637, dated June 24, 1844.

To all whom it may concern:

Be it known that I, AMOS JACKSON, of near New Liberty, in the county of Adams and State of Illinois, have invented a new and useful Press for Pressing Substances, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a front elevation of the press. Fig. 2 is a top view of the upper lever, E. Fig. 3 is a top view of the lower lever, A.

This press is composed of a weighted lever, A, moving on a fulcrum, B, passed through it, and an inclined timber, C, framed, at an angle of about forty-five degrees with a horizontal plane, into a suitable frame, D, of the requisite size and strength for the purpose of containing the several parts hereinafter described. To this lever there is attached another lever, E, by a joint, F, the connection being effected by means of a sword, G, mortised and tenoned into the top of the lever, and passing through an oblong slot in the upper lever, in the manner of the sword of a cotton or tobacco press, perforated with round apertures for the insertion of a pin, F, which is passed horizontally through the upper lever and said sword, the upper lever turning on said pin near one of its ends. The other end is perforated obliquely with an oblong mortise, e, through which is inserted the inclined timber C, and over whose upper inclined surface said lever slides as the lower lever is raised or lowered. The lower lever is raised at one end by a cord or chain, I, attached to the sword G, and carried around a windlass, K, in the top of the frame. In raising the lower lever the upper one simultaneously rides up over the inclined bar C, and recedes at one end from the lower lever, in the manner of a pair of shears. When the motion of the windlass is reversed, the ends of the levers through which the sword passes descend by their gravity, while the end of the lower lever, A, turns on its fulcrum B in the inclined timber C, and the end of the upper lever next to it slides down over the inclined timber C, its upper inclined surface acting against the end of the oblique mortise therein, causing the upper lever to

approach the lower lever in the manner of shears, without the application of any other power than that which is derived from the weight of the levers in descending.

The substance to be pressed is placed upon the upper side of the lower lever, A, when the levers are raised and blocked up against the under side of the upper lever, or, in other words, placed between the levers in their elevated and extended position; then, the motion of the windlass being reversed and the levers caused to descend, the upper one is made to approach the lower one by the action of the inclined plane or bar C against the inside of the obliquely-mortised part of the upper lever, E. An oblong opening or mortise, a, Fig. 3, is made in the center of the lower lever, A, longitudinally, in which there is placed a sliding rack, L, to which is attached the block M, upon which the article to be pressed is placed, moved back and forth by a pinion, P, on a crank-shaft, P', in the lower lever, for the purpose of changing the position of the article to be pressed between the levers according to the power required. The under side of the upper lever is also provided with points or projections Q, for crushing apples or other substances placed in a tub secured upon the lever A, said projections Q working in said tub. A number of holes are made in a post, R, of the frame D, through which a pin is inserted below the levers when raised for sustaining them in their elevated position while adjusting the substance to be pressed. Should the weight of the levers not be sufficient to effect the desired purpose, weight or power may be applied to the levers at the sword end thereof.

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

The combination of the inclined plane C with the levers A and E, arranged and operated in the manner set forth, for the purpose specified.

AMOS JACKSON.

Witnesses:

WM. P. ELLIOT,
ALBERT E. JOHNSON.