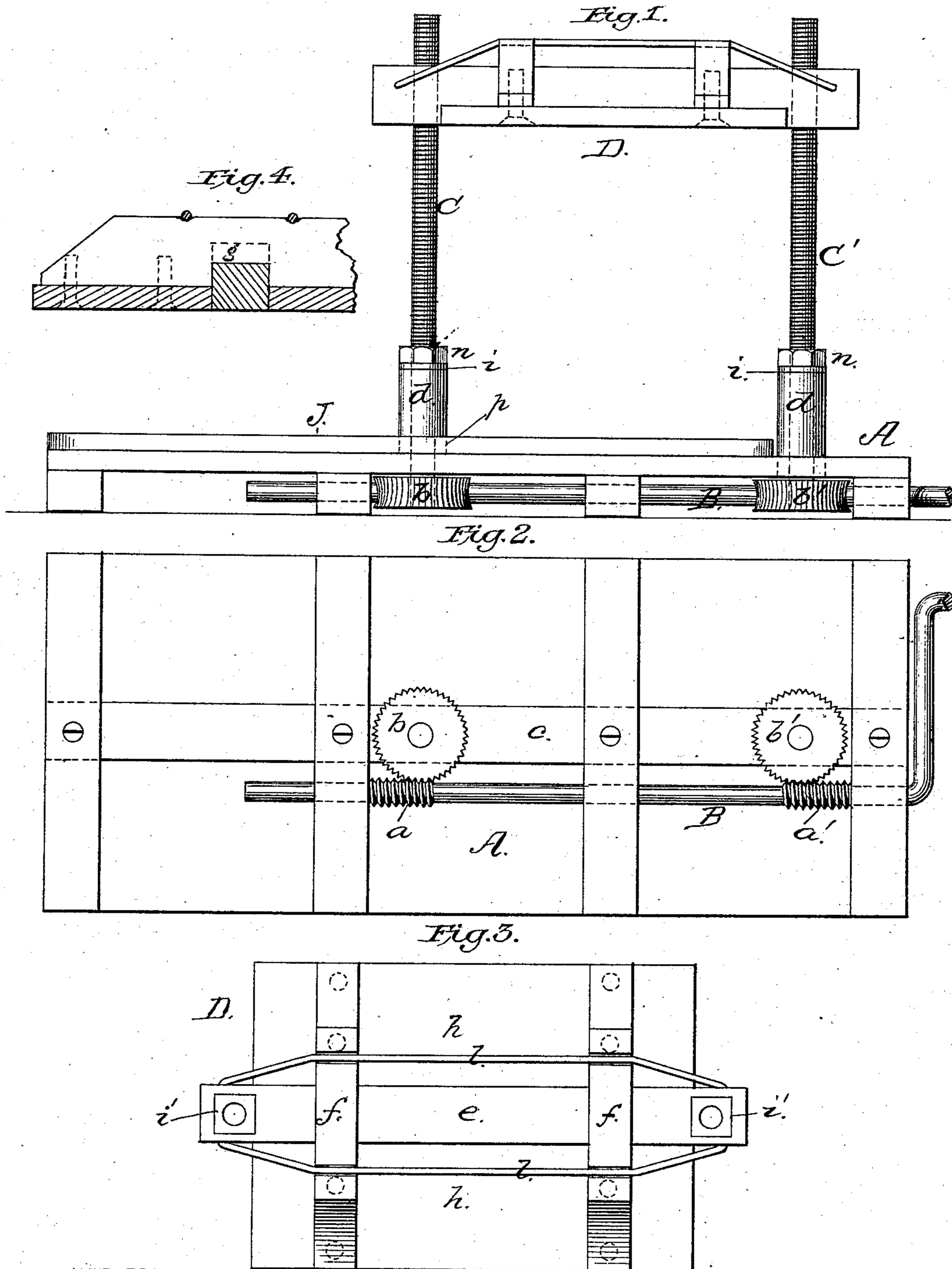


R. E. HAMILTON.  
Press.

No. 225,122.

Patented Mar. 2, 1880.



WITNESSES  
*John A. Lewis*  
*F. J. Davis*

INVENTOR  
*R. E. Hamilton*  
*by E. W. Anderson*  
his ATTORNEY

# UNITED STATES PATENT OFFICE.

RALPH E. HAMILTON, OF ROYAL OAK, MICHIGAN.

## PRESS.

SPECIFICATION forming part of Letters Patent No. 225,122, dated March 2, 1880.

Application filed January 6, 1880.

*To all whom it may concern:*

Be it known that I, RALPH E. HAMILTON, of Royal Oak, in the county of Oakland and State of Michigan, have invented a new and valuable Improvement in Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my improved press. Fig. 2 is a bottom view of the same. Fig. 3 is a top view of the follower, and Fig. 4 is a detail.

This invention has for its object the improvement of machines for expressing cider, pressing cheeses, and other objects; and the nature of the invention consists in the novel construction and arrangement of the press, whereby very useful and desirable advantages are attained, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the base or platform of my improved press, the same being strongly constructed, and, if desired, raised upon suitable legs. B indicates the driving-shaft, arranged in bearings in the sills or cross-beams of the platform, and provided with two spaced worms, *a a'*. These worms mesh into the gear-wheels *b b'*, upon the lower ends of the follower-screws C C', and when the shaft B is rotated impart rotary motion thereto.

The shafts C C' have their bearings in a longitudinal sill, *c*, of the frame, and upright metallic posts *d*, erected on the platform, being maintained against downward displacement by a nut, *n*, applied thereon and bearing against the upper ends of the said posts, as shown in Fig. 1. A washer, *i*, is interposed between the said nuts and the posts to prevent binding and undue friction.

D indicates the follower, composed of the strong central wooden beam, *e*, two or more strong cleats, *f*, at right angles to the beam *e*, and notched upon their under sides at *g* to pass over the said beam, and two or more plates, *h*, secured to the cleats *f* at each side of the beam *e*, with their lower surfaces flush with that of said beam *e*. The plates *h* are shorter than this beam, and are bolted to the cleats, the latter being also bolted to the beam. This

device is strengthened and stiffened by the truss-rods *l l*, secured at one end to beam *e*, extended over and across the cleats *f*, and then rigidly attached to the other end of the beam aforesaid.

*i'* indicates nuts recessed into the ends of beam *e*, and secured in position in any suitable manner. The follower-screws C C' pass through these nuts *i'*, so that when the driving-shaft is actuated the follower will be run up or down, as the case may be. This shaft B may be operated by means of a crank, or by other equivalent means.

Sometimes, if I so elect, the follower-screws may be one right and the other left handed, and instead of the gears and worms I may use bevel-gear.

J indicates a horizontally rotating or vibrating table or platform, the same being of rectangular form, usually with rounded corners. This table has a central perforation, *p*, through which the post *d* projects and extends an equal distance each side of said post. It also rests with the whole length on the platform, one half being under the follower and the other outside of the press.

The object—say a cheese or cheeses to be pressed—is placed on the table under the follower and the latter run down. While the pressure is going on one or more cheeses are placed on the other end of the table, the follower run up, and pressure being finished, the said table is turned about the post end for end, thus bringing the second cheese or cheeses under the follower, and greatly economizing time and labor.

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

The combination, with the platform A, the follower-screws C C', and a mechanism actuating the same simultaneously, of the follower D, consisting of the beam *e*, having nuts *i'* in its ends to receive said screws, the transverse cleats *f*, plates *h*, and truss-rods *l*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

RALPH EDWIN HAMILTON.

Witnesses:

CHARLES N. MARSHALL,  
EDWARD SHUNHITE.