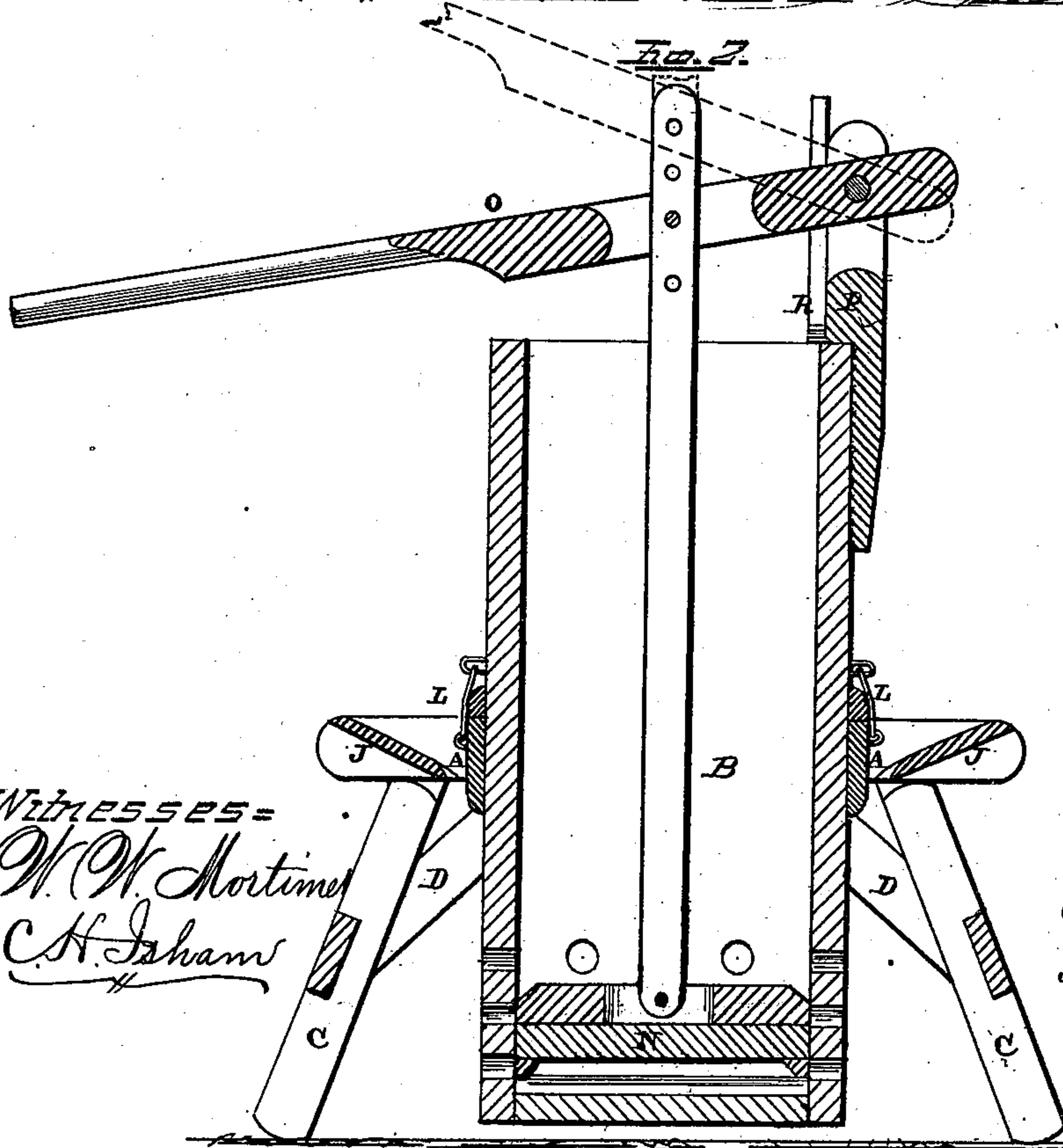
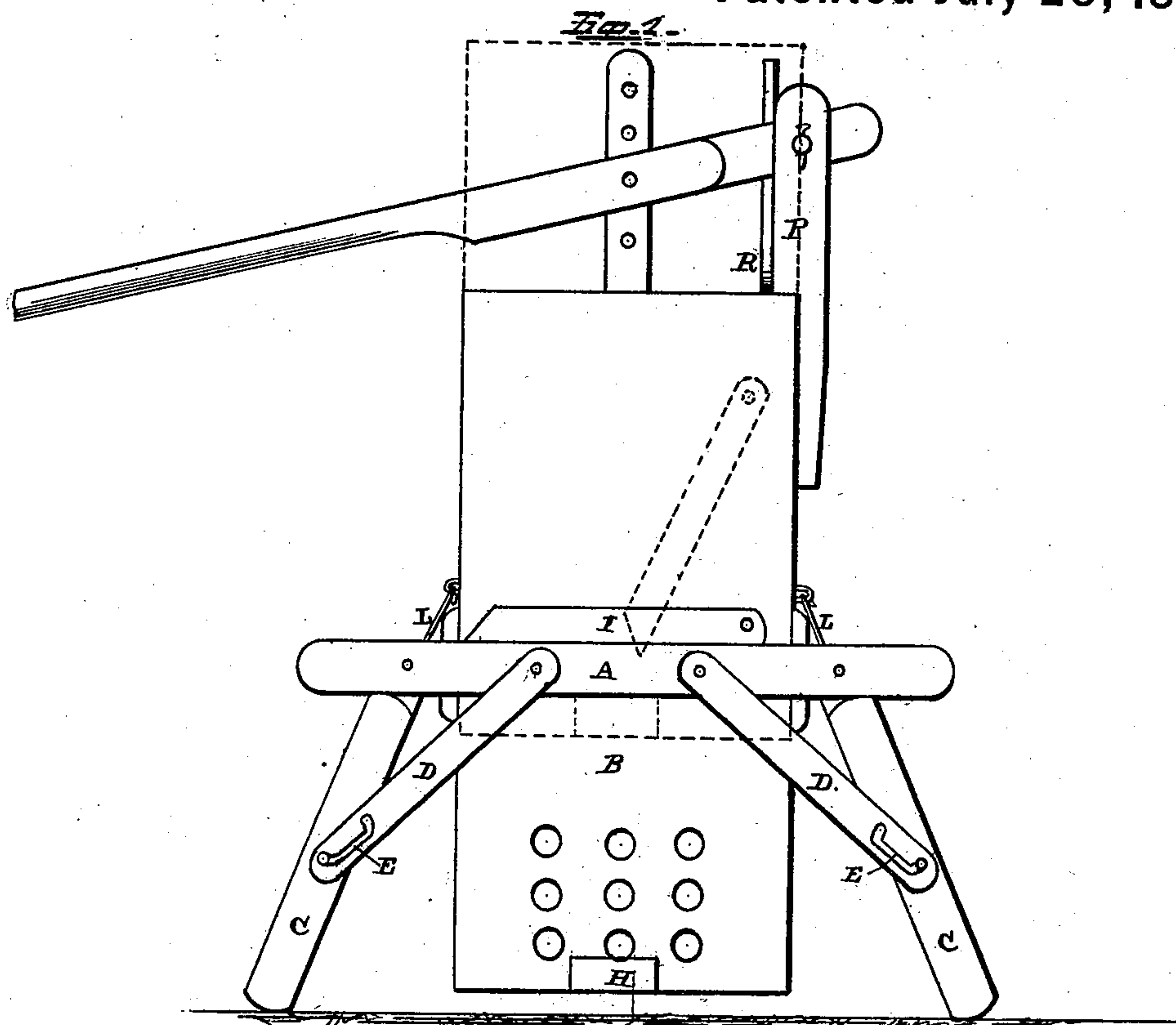


(No Model.)

J. H. WILLIAMS.
Washing Machine.

No. 230,380.

Patented July 20, 1880.



WITNESSES=

W. W. Mortimer
C. H. Isham

Inventor
Jas. H. Williams,
per
F. A. Lehmann,
Att'y.

UNITED STATES PATENT OFFICE.

JAMES H. WILLIAMS, OF NEW MARKET, KENTUCKY.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 230,380, dated July 20, 1880.

Application filed June, 3, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. WILLIAMS, of New Market, in the county of Marion and State of Kentucky, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in washing-machines of that class in which the water is forced back and forth through the clothes by means of a piston; and it consists in the combination of a vertical box having perforations through its sides at the bottom, and a grooved bottom, and in which box the piston is moved up and down by means of a hand-lever, the said box being supported in a frame which is provided with adjustable legs for securing it to tubs of different sizes, as will be more fully described hereinafter.

Figure 1 is a side elevation of my invention. Fig. 2 is a vertical section of the same.

A represents a suitable frame or stand having through its center a large square opening for the lower end of the box B to pass through, and which is supported at a suitable distance above the bottom of the tub by means of the four hinged or pivoted legs, C. Pivoted to the side of this frame are four braces, D, two being placed on each side of the frame, and each one of them having a curved or recessed slot, E, made through its lower end for the bolts or projections which unite the lower ends of these braces to the legs to pass through. These curved slots have each a recess made at both of its ends, and each recess acts as a sort of a lock to catch over the screw or bolt, and thus lock the legs in position. After the frame has been placed over the tub the legs are moved against the side of the tub, and thus hold the machine rigidly in position.

The box B is not secured rigidly in the frame, but can be raised and lowered therein so as to adjust its lower end in relation to the bottom of the tub. This box can be raised upward until the stop H on its lower end strikes against the under side of the frame, and it can

be lowered down through the frame until the pieces I, secured to the sides of the box near its center, strike upon the top of the stand. This box is thus made adjustable, so that it can be raised upward, the dirty water let out of the box, and then the water drawn off from the tub before clean water is poured in. One of these side pieces is only pivoted to the box at one end, and when the box is raised upward its free end drops down and catches in a small notch made in the top of the stand, so as to hold the box in its elevated position. In each end of the stand there is secured an inclined board, J, upon which soap, clothes, or any other articles may be placed. These boards are inclined inward toward the box, so that the water which may splash or run over the top of the box will be caught and conducted back into the tub without any danger of running over on the floor. When the box is in position ready for operation it is locked securely to the stand by means of the hooks L.

Through the lower end of the box B, on each side, are made a number of perforations, through which the water is drawn in and forced out by means of the piston N, which is connected to the operating-lever O. The piston-rod has a number of holes made through its upper end, so that the piston can be adjusted to different quantities of clothes that may be placed in the box. Pivoted to the standard P, in which the lever is pivoted, is a support, R, which is intended to catch under the operating-lever, and thus hold the lever in an elevated position, out of the way while the piston is being removed from and replaced in the box. This piston fits snugly inside of the box, and alternately draws the water into the bottom of the box and then forces it out again, so as to force it through the clothes. The under side of this piston is hollowed out, as shown, and the bottom of the box is grooved over its whole surface. As the water is drawn in with great force through the holes in the bottom of the box it catches under the clothes placed upon this grooved bottom and loosens and raises them upward.

Having thus described my invention, I claim—

1. The combination of a box perforated at its bottom and provided with an operating-

piston with a supporting-stand in which the box can be raised upward above the bottom of the tub, so as to let the water out of the clothes and change the water, substantially as described.

5 2. The combination of the supporting-frame with the vertically-adjustable box perforated at its lower end and provided with an operating-piston, and a pivoted stop to catch upon

the top of the stand and support the box in an elevated position, substantially as specified. 10

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of April, 1880.

JAMES H. WILLIAMS.

Witnesses:

JO. H. ALLEN,

D. J. SCHOOLING.