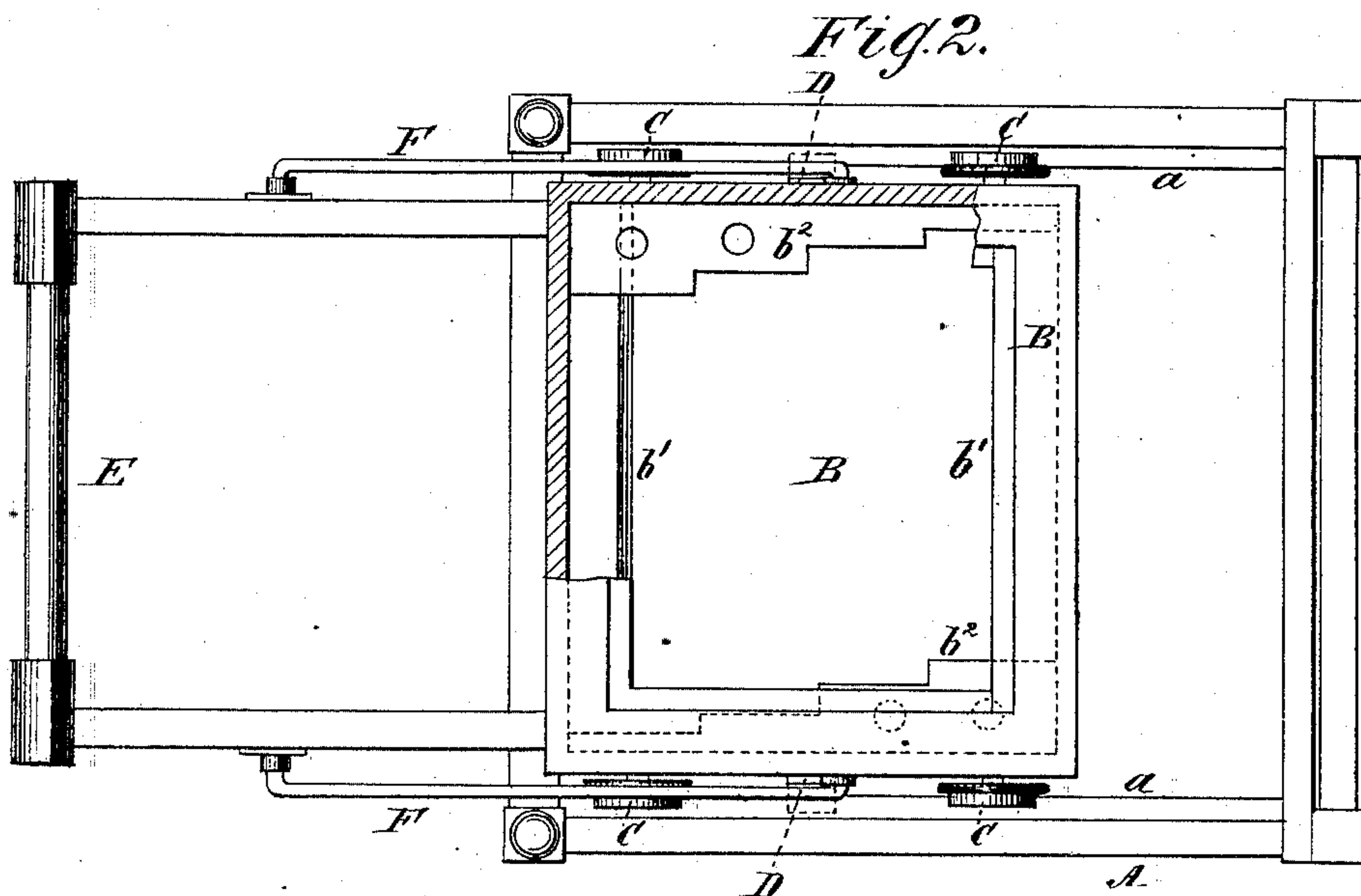
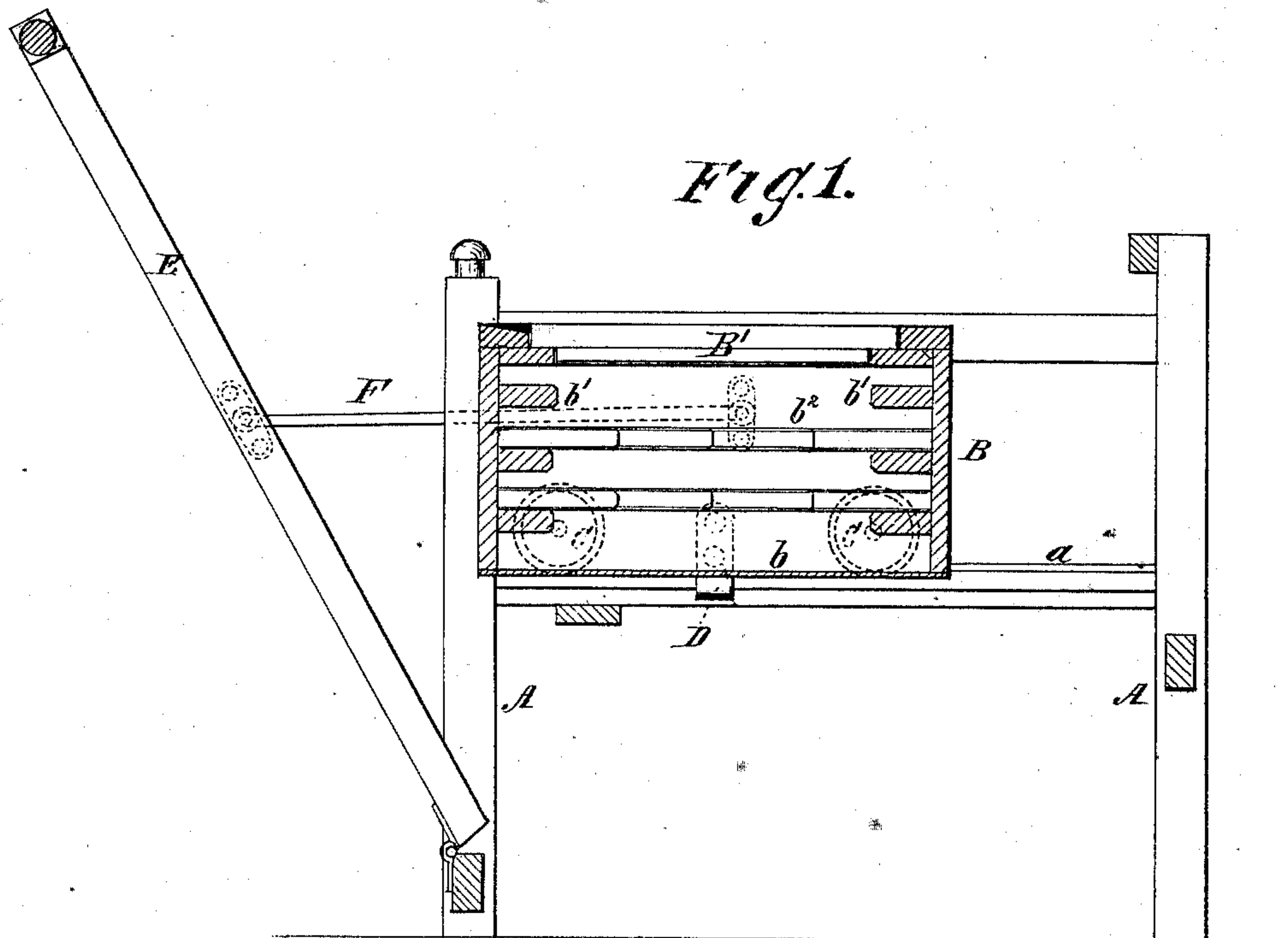


J. S. SHRAWDER.
Washing-Machines.

No. 158,748.

Patented Jan. 12, 1875.



WITNESSES:

G. Matthews
John C. Kemmer

INVENTOR:

John S. Shrawder

BY

Wm. V. B.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN S. SHRAWDER, OF FAIRVIEW VILLAGE, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **158,748**, dated January 12, 1875; application filed November 12, 1874.

To all whom it may concern:

Be it known that I, JOHN S. SHRAWDER, of Fairview Village, in the county of Montgomery and State of Pennsylvania, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a vertical, and Fig. 2 a horizontal longitudinal, section.

The invention relates to means whereby clothes may be washed thoroughly with as little labor as possible, and with a machine that can be sold at a small cost, thus enabling poor persons as well as others to purchase and use them.

A represents a frame, in the side bars of which is formed the track *a a*; and B, the clothes-box, having cover B', and, preferably, a metallic bottom, *b*, front and rear ribs *b¹ b¹*, and reversely-notched as well as opposite rubbers *b² b²*. This box is provided on each side with two wheels, C C, that run on the track *a a*, while the wash-box is prevented from rising by the angle-plates D, one on each side. E is a hand-frame pivoted at the bottom to a

bar of main frame A, and connected with the box by rods F F, pivoted to each.

The operation is as follows: The clothes are inserted within the box B with the usual quantity of water, and the box reciprocated by the operator, who works the hand-frame backward and forward with an oscillating movement. The left rubber on the forward movement will bite on and carry the clothes forward, while on the backward movement the right rubber will bite on them and carry them in the opposite direction, the garments being thus continuously rubbed and carried around the box. It is found in practice to do excellent work and with but little labor, while the machine itself can be manufactured at little expense.

Having thus described my invention, what I claim as new is—

A reciprocating wash-box, B B', having end ribs *b¹ b¹* and side rubbers *b² b²*, the latter reversely notched, and all rigidly attached to the box, as and for the purpose described.

JOHN S. SHRAWDER.

Witnesses:

WILLIAM P. ELLIS,
LEONIDAS STROUP.