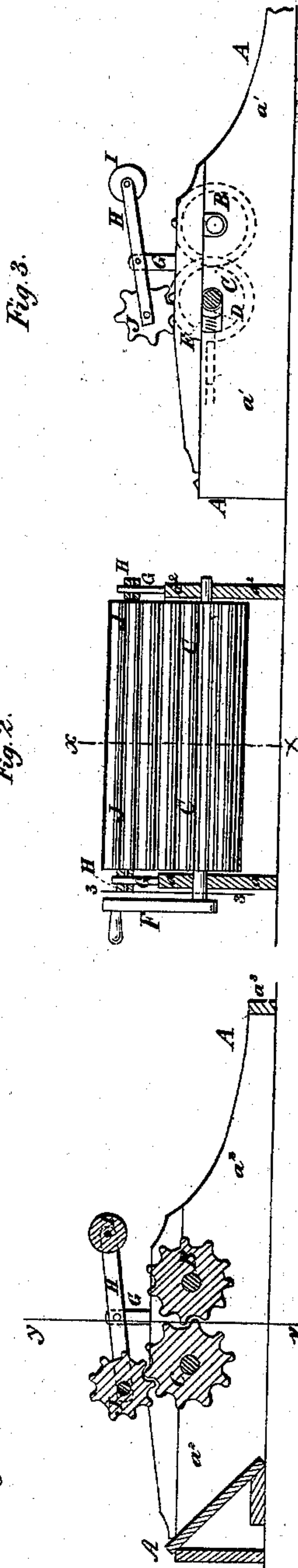


J. Larnhear,
Washing Machine,
N^o 60,018. Patented Nov. 27, 1866.



Witnesses.
H. A. Jackson
Geo. Tusch

Inventor
Jonas Larnhear
 Per *Munroe*
Attorney

United States Patent Office.

IMPROVED WASHING-MACHINE.

JONAS LAMPHEAR, OF PANAMA, NEW YORK.

Letters Patent No. 60,018, dated November 27, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JONAS LAMPHEAR, of Panama, in the county of Chatauqua, and State of New York, have invented a new and useful improvement in Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a longitudinal section of my improved washing-machine, taken through the line *x x*, fig. 2.

Figure 2 is a cross-section of the same, taken through the line *y y*, fig. 1.

Figure 3 is a side view of the same, partly in section, through the line *z z*, fig. 2.

Similar letters of reference indicate like parts.

My invention consists of a washing-machine formed by the combination of the fluted rollers and plain feed-roller with each other and with the frame of the machine, as hereinafter more fully described.

A is the frame of the machine, and should be of about the length and breadth of an ordinary wash-board. B is the lower roller, the face of which is fluted, and the journals of which revolve in bearings in the sides, α^1 and α^2 , of the frame, A. C is a fluted roller, the journals of which revolve in slots formed in the sides, α^1 and α^2 , of the frame, A, as shown in fig. 3. The roller C is enabled to adjust itself to the varying thickness of the clothes passing between the rollers B and C by the upper half, D, of the journal-boxes of the roller C being made movable, and being held to its place against the journals of the said roller C by coiled wire springs E, one of which is shown in fig. 3, which are placed in cavities formed in the sides α^1 and α^2 of the frame A, and press against the said movable part D of the said journal-boxes. The end of one of the journals of the roller C projects beyond the side of the frame A, and to it is attached the crank F, by which the machine is operated. G are supports attached to the edges of the sides of the frame A, directly above the rollers B and C, to the upper ends of which are pivoted the arms H at or near their middle parts. To the lower ends of the arms H is pivoted a feed-roller, I. The surface of this roller is smooth, and it is designed to feed the clothes being washed forward to the rollers B and C, and at the same time to prevent them from coming in contact with the lower side of the roller B and interfering with its operation. J is a fluted roller pivoted to the upper ends of the arms H, and which by its own weight is pressed down upon the roller C, and revolves with it. In using the machine, it is placed in the wash-tub in the manner of an ordinary wash-board, with the end α^3 downward. The clothes to be washed are then spread over the roller I and drawn forward so that they may be taken hold of by the rollers B and C. By turning the crank F they are drawn through between the said rollers B and C till they have passed almost through; then by reversing the motion of the crank they are drawn back, and are then passed back and forth till thoroughly washed; or, if desired, they may be passed at the same time between the three rollers B, C, and J. If the roller J does not by its own weight give sufficient pressure the pressure may be increased by bearing down with the hand upon the upper end of the arms H.

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

The vibrating-frame H, provided with one or more rollers, to operate in combination with the rollers B C, substantially as and for the purposes set forth.

JONAS LAMPHEAR.

Witnesses:

W. SPERRY,
T. H. SOLBY.