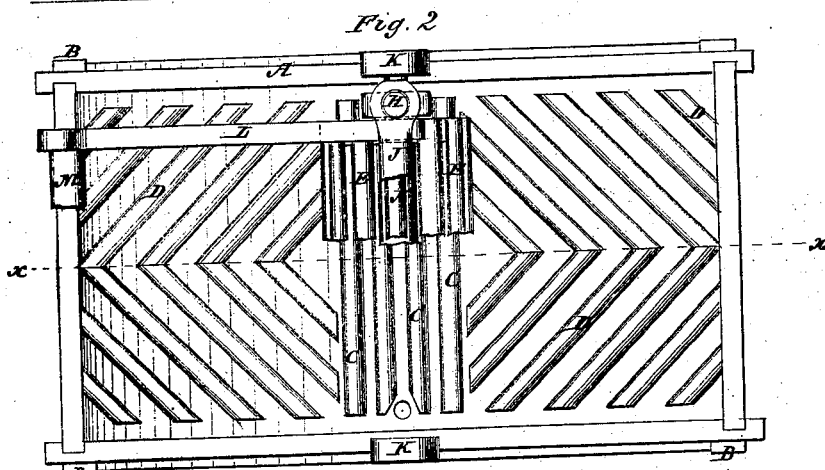
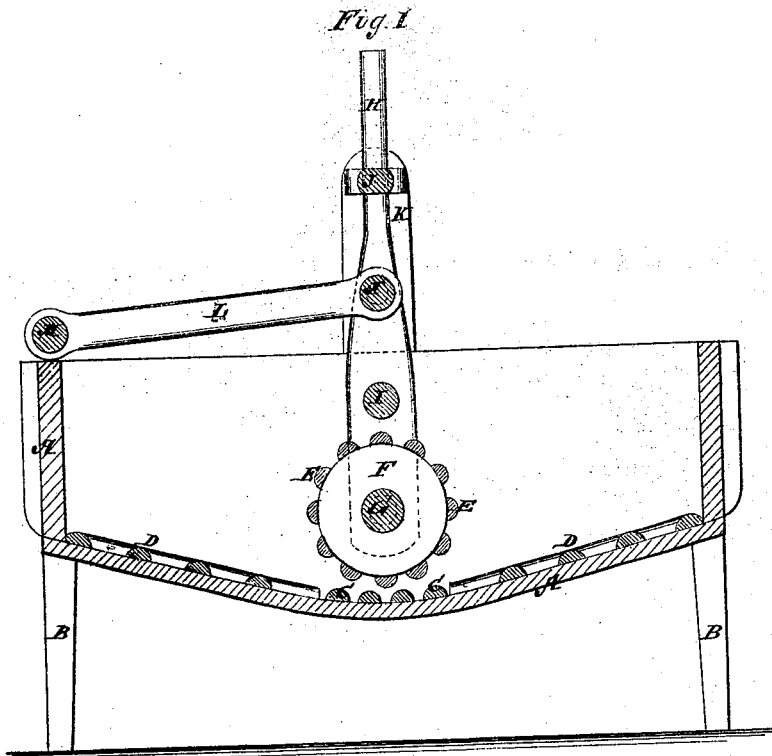


E. Griet,
Washing Machine.
No. 113024. Patented Mar. 28. 1871.



Witnesses:

E. Wolff
Wm H. C. Smith.

Inventor:

Elias Griet.

PER

M. M. C.

Attorneys.

United States Patent Office.

ELIAS CRICK, OF PHILLIPSBURG, NEW JERSEY.

Letters Patent No. 113,024, dated March 28, 1871.

IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ELIAS CRICK, of Phillipsburg, in the county of Wayne and State of New Jersey, 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 part of this specification, in which—

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

Figure 2 is a top view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved washing-machine simple in construction, effective in operation, and easily operated; and

It consists in the construction and arrangement of various parts of the machine, as hereinafter more fully described.

A is the box or tub of the machine, which is supported upon legs B, of such a length as to raise the machine to a convenient height.

The bottom of the box or tub A is made slightly curved, or lower in its middle part than toward its ends.

To the bottom of the tub A are attached cleats C D, which are made half round, or are rounded off upon their upper sides.

The cleats C, four (more or less) in number, extend across the middle part of the tub A.

The cleats D are arranged in V-shape upon both sides of the cleats C, as shown in fig. 2.

The ends of the cleats C D do not extend quite to the sides of the tub A, so that the water can have a free course in flowing down to the discharge-orifice when being drawn off.

E are cleats, half round, or rounded upon their outer sides, which are attached to the edges of two or three disks F, which disks are attached to a shaft, G, the journals of which work in bearings in the lower ends of the bars H, which are connected to each other and held in their proper relative position by the cross-bar I, placed a little above the hollow or open cylindrical rubber E F G.

The upper ends of the bars H pass up through holes in the shaft J, the ends or journals of which work in holes or bearings in the upper ends of the standards K, the lower ends of which are attached to the sides of the box or tub A.

L are bars, the outer ends of which are connected by a round or cross-bar, M, and the inner ends of which are pivoted to or connected with the cross-bar N, the ends of which are attached or pivoted to the swinging bars H, at or near the upper edge of the box or tub A.

In using the machine, the clothes to be washed are placed upon the bottom of the tub or box A, and the open roller E F G is moved back and forth upon them by means of the bars L M, which serve as a handle to the said roller.

The roller E F G is held down upon the clothes by its own weight during its entire movement, the arrangement of the bars H and shaft J allowing it to do this, the said bars H sliding in the holes in the shaft J.

Having thus described my invention,

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

The combination and arrangement, with the box or tub A B, of the cleats C and D, roller E F, bars H, cross-bar I, shaft J, bars L, and cross-bar M, as herein shown and described.

Witnesses:

WM. F. KELLER,
GEO. W. RICE.

ELIAS CRICK.