2 Sheets--Sheet 1.

J. W. HAMPTON.

Washing-Machine.

No. 162,380. Patented April 20, 1875.

Fig 1.

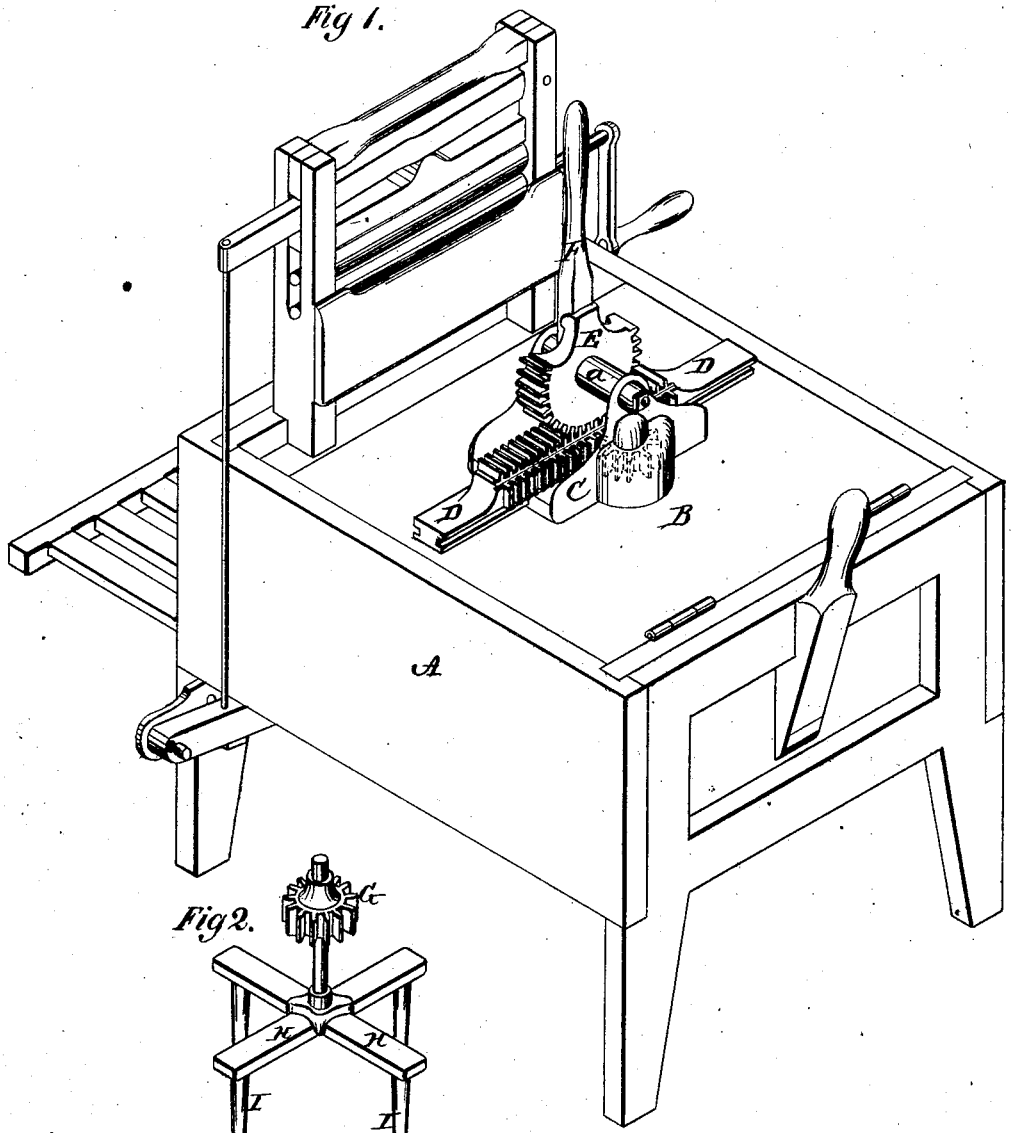
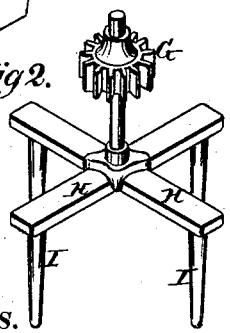


Fig 2.



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2 Sheets--Sheet 2.

J. W. HAMPTON.

Washing-Machine.

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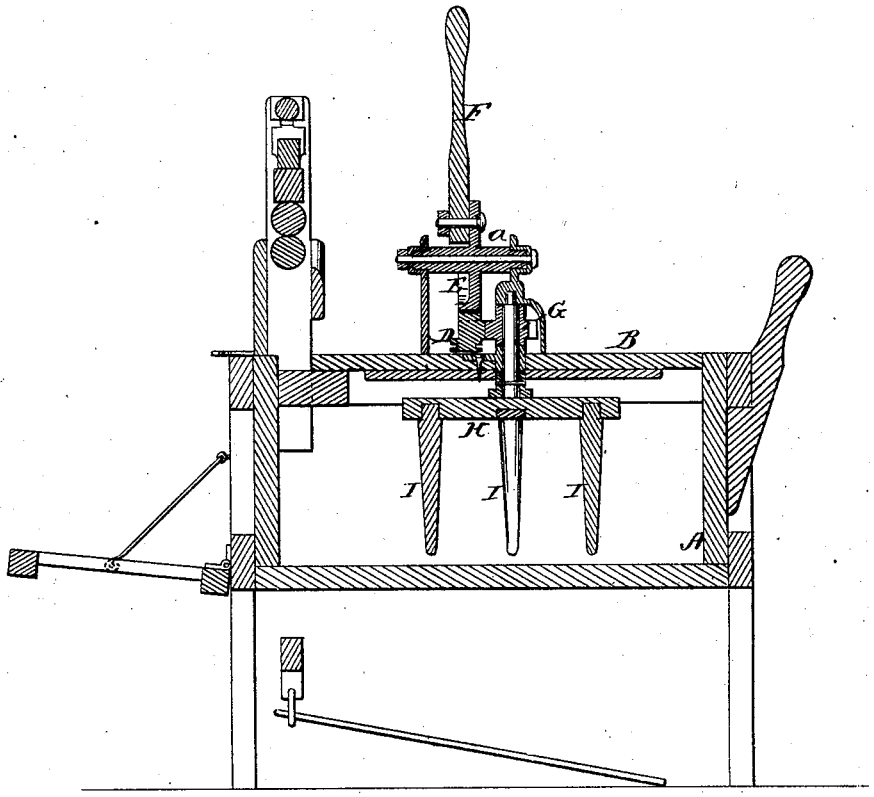
Fig 3



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UNITED STATES PATENT OFFICE.

JAMES W. HAMPTON, OF MOUNT PLEASANT, IOWA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **162,380**, dated April 20, 1875; application filed May 5, 1874.

To all whom it may concern:

Be it known that I, J. W. HAMPTON, of Mount Pleasant, in the county of Henry and in the State of Iowa, have invented certain new and useful Improvements in Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked theron, making a part of this specification.

My invention relates to that class of washing-machines in which the washer rotates, and consists more particularly in the devices which are used for rotating said washer.

In the annexed drawings, Figure 1 is a perspective view of my machine, showing how I may attach a wringer to it for convenience. Fig. 2 is a detached view of the washer with its pinion attached. Fig. 3 is a section of the machine.

In the drawings, A represents a wash-box, mounted upon legs, and constructed in any of the known and usual ways. B represents its lid or top, which is hinged to it at one side for convenience. Upon the top is secured a metallic box, C, which has two wings, which project upward. These wings support, in suitable bearings, the journals of a short shaft, *a*, upon which shaft is secured a gear-wheel, E. This gear-wheel is provided with a lever-handle, F, by means of which it is partially rotated backward and forward during the operation of washing. D represents a rack-bar, having two racks or two sets of teeth formed upon it, one upon its top and one upon one side of it. This rack-bar lies in a suitable groove or opening in the bottom of the box C, and is provided with grooves in its lower edges, into which tongues on the box take, to secure the said bar in place and guide it in its movement. The teeth of the wheel E work in the teeth of the upper rack or bar D. The teeth on the side of this bar work into those of a pinion, G. The pinion G is secured upon a vertical shaft, which has its bearings in one of the wings of box C. To the lower end of the pinion-shaft are two cross-arms, H H, and depending from the ends of these are the fingers I I.

In using this machine, the operator takes hold of the handle F, and by working it backward and forward he gives, through wheel E, a reciprocating endwise movement to the bar D. This bar, through its side teeth, gives a backward and forward rotary motion to the pinion, and thus the bars, with their fingers I I, are rotated among the clothing for producing agitation and friction. For convenience and facility of handling the clothes when washed, I fasten a wringing-machine to the wash-box, the upper roll of which is raised and lowered by suitable lever-power. The clothes drop from the wringer upon a slatted gate at one end of the machine, from which they are removed for drying.

I am aware that a rotary washer having a pinion on its top, into which gears a sliding rack-bar, to which is connected a rod, which rod is also connected to a lever pivoted to the top of the washing-box, so that by rocking said lever back and forward motion is communicated to the rack-bar, is not new; hence I disclaim such as my invention.

Having thus described my invention, what I claim is—

The combination of the sliding bar D, provided with cog-teeth upon its top and side, and grooved longitudinally on each edge, the box C, with groove and tongues on each side thereof, which take into the grooves in the bar D, the cog-segment E, with handle F, and mounted upon the shaft *a*, and the pinion G, all substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of March, 1874.

JAMES W. HAMPTON.

Witnesses:

E. A. KIBBE,

J. C. HARBIN.