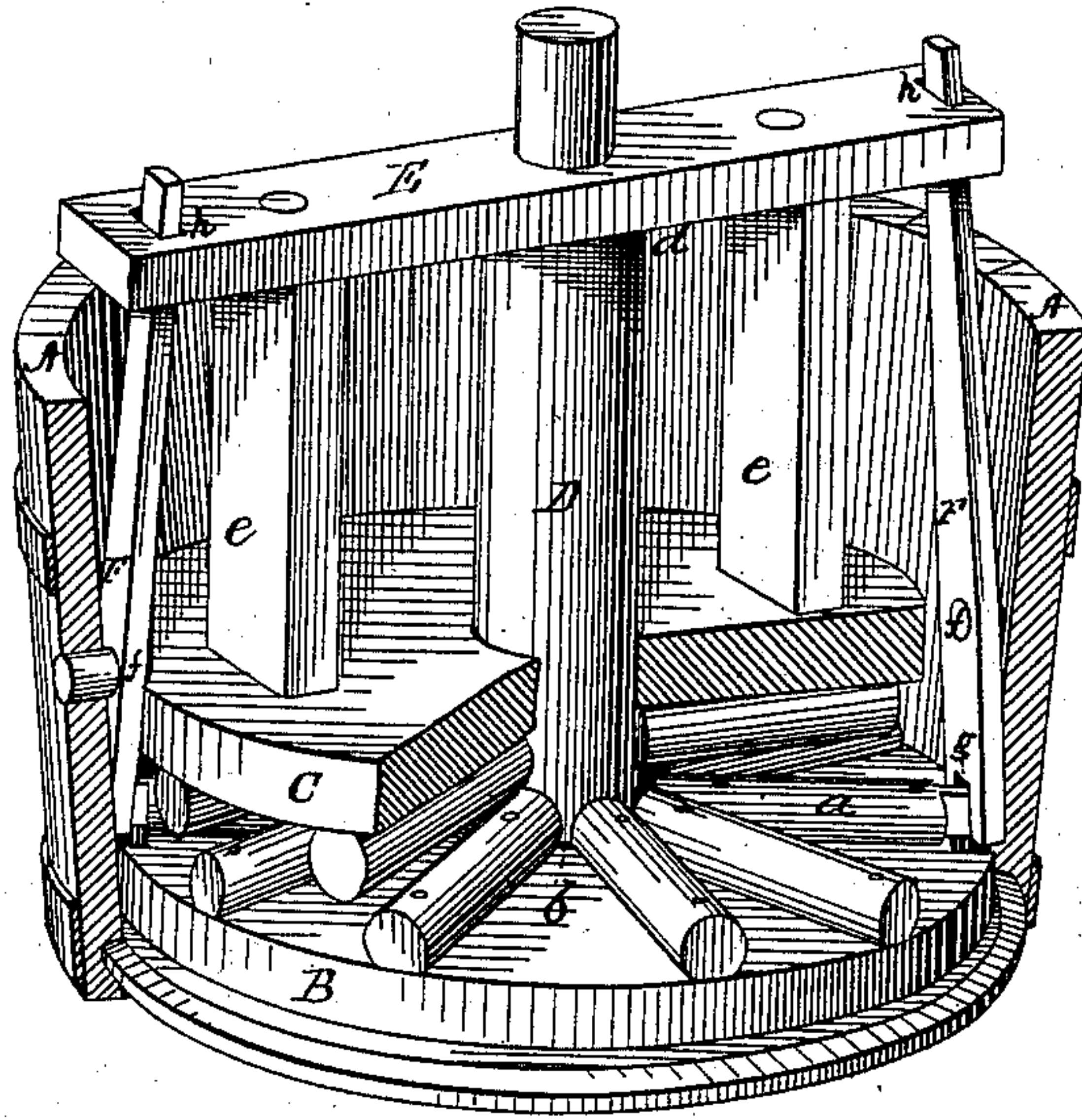


H. WEIZEL.  
WASHING-MACHINES.

No. 194,492.

Patented Aug. 21, 1877.



*WITNESSES:*

Clarence Poole  
J. H. Evans.

INVENTOR:

Henry Weigel  
per atty.  
A. N. Evans & Co.

# UNITED STATES PATENT OFFICE.

HENRY WEIZEL, OF MAPLE GROVE, MINNESOTA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **194,492**, dated August 21, 1877; application filed May 5, 1877.

*To all whom it may concern:*

Be it known that I, HENRY WEIZEL, of Maple Grove, Hennepin county, Minnesota, have invented certain new and useful Improvements in Washing-Machines, of which the following is a clear, full, and exact description, reference being had to the accompanying drawing, making a part of this specification, in which—

The figure represents my improved washing-machine, a portion being broken away to show the interior working parts of the machine.

My invention relates to improvements in the class of rotary reciprocating washing-machines; and the invention consists in the general construction and arrangement of parts, as will be hereinafter fully described.

In the drawing, A represents an ordinary tub, in which are arranged the rotary reciprocating rubbing-disks B C, and between which the clothes to be washed are placed. These disks are provided with radial ribs *a*. The lower disk B has a central opening, *b*, within which the central stationary standard D is fitted, and which also supports the upper disk C by means of the cross-bar E, which rests on the shoulder *d* of the standard, said disk being secured to the cross-bar by means of the vertical pieces *e e*. The rubbing-disks are arranged to have a rotary reciprocating movement in opposite directions, which is accomplished by means of the two levers F F, pivoted at *f f* to the sides of the tub A. Each lever is provided with a slot, *g*, in its lower end, and within which fits the outer end of one of the ribs *a*. The upper ends of the levers pass through slots *h h* in the cross-bar, as shown in the drawing.

The operation of my machine is as follows: The clothes to be washed are placed between the rubbing-disks with a sufficient amount of water in the tub. Then, by taking hold of the cross-bar and giving a rotary reciprocating movement thereto the levers passing up through the cross-bar will give a rotary reciprocating movement to the lower rubbing-disk, in an opposite direction from the upper rubbing-disk, which causes the clothes to receive a rubbing action similar to rubbing by the hands.

My improvements can be easily applied to any ordinary tub, and removed for cleaning and drying the same.

I am aware that hinged levers for moving two rubbing-disks in contrary directions at the same time, allowing the upper rubbing-disk to rise and fall and adapt itself to the clothes, is old, and such I do not claim, broadly, as my invention; but

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

The upper disk C, having the rigidly-attached bar E and braces *e*, in combination with the lower or clothes-supporting disk B, having the shaft D and levers F, pivoted to the face of the tub at *f*, and connected with the bar E, substantially in the manner herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand.

HENRY WEIZEL.

Witnesses:

WILLARD R. CRAY,  
VERNON BELL.