

P. L. WEST.  
WASHING MACHINES.

No. 194,750.

Patented Aug. 28, 1877.

Fig. 1.

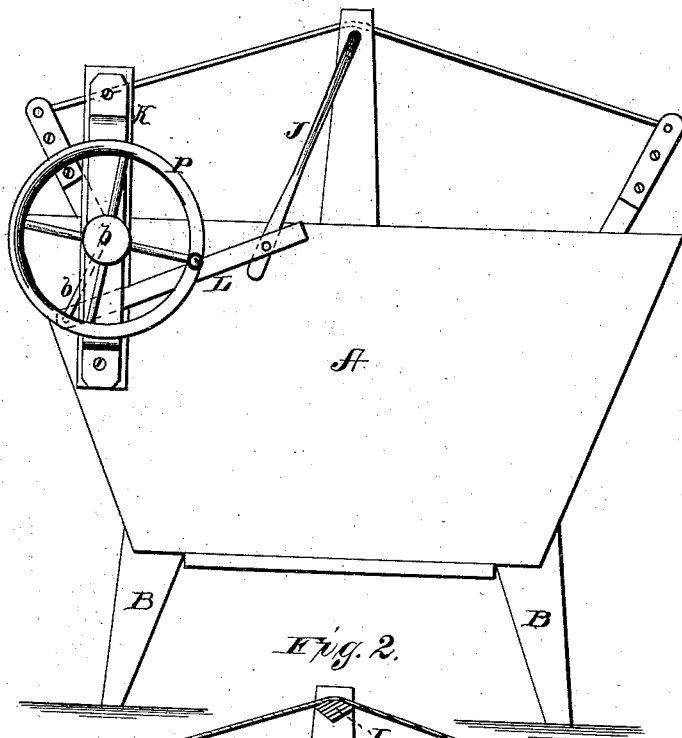
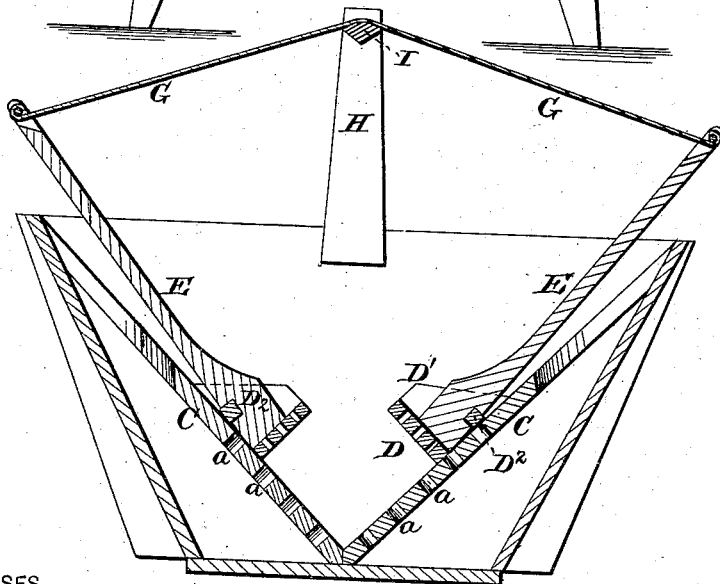


Fig. 2.



WITNESSES

*Frank L. Curand*  
*Frank Gaer*

INVENTOR

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*March Mason*  
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# UNITED STATES PATENT OFFICE.

PHILIP L. WEST, OF LYNDON, KANSAS, ASSIGNOR OF ONE-HALF HIS RIGHT  
TO W. F. CAIN, OF SAME PLACE.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **194,750**, dated August 28, 1877; application filed  
April 12, 1877.

*To all whom it may concern:*

Be it known that I, PHILIP L. WEST, of Lyndon, in the county of Osage, and in the State of Kansas, 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 thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a washing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of my improved washing-machine. Fig. 2 is a longitudinal vertical section of the same.

A represents the box of the washing-machine, constructed with inclined end pieces, and supported upon legs B B.

At each end of the box A is secured a board, C, which is inclined, as shown, the upper ends of said boards being fastened to the top of the end pieces of the box, and their lower ends meeting across the center of the bottom of the box, and the two boards thus forming a bottom composed of two inclined surfaces, standing at or nearly at right angles with each other.

The lower portions of the inclined boards C C are provided with numerous perforations, *a a*, and the clothes to be washed are placed on these inclined boards, where they are acted upon by reciprocating beaters operating alternately up and down, one on each board, the perforations *a* in the inclined boards allowing free circulation of the water.

Each beater is composed of a slotted or perforated board, D, of about the same length as the width of the inclined boards C, and provided with end pieces D<sup>1</sup>, which are connected with a cleat, D<sup>2</sup>.

The beaters are further provided with central arms E E, which are, by joints, connected to the ends of a bent lever or walking-beam, G, attached in the center to a rocking bar, I. This bar has its bearings in standards H H, attached to and projecting upward from the center of the sides of the box A.

To one of the journals of the bar I, outside of the standard, is attached an arm, J, or the journal may form said arm, which extends downwardly, and its lower end, by a pitman, L, connected with a crank-shaft, *b*, having its bearings in standards or a frame, K, attached to the side of the box near one end. On this shaft is secured a fly or balance wheel, P, provided with a crank for rotating the same.

By rotating the wheel P the pitman L gives to the bar I a rocking or oscillating motion, which, by the lever or walking-beam G, imparts an up-and-down reciprocating motion to the beaters D on the inclined boards C C, whereby the clothes are pressed or squeezed alternately from opposite sides, or rather from sides at right angles to each other. As one beater goes down on the clothes the other ascends or recedes from them, and therefore the clothes are turned over, so as to present a new surface to the action of the beaters as they descend again.

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

In a washing-machine, the combination of the inclined perforated boards C C, arranged in the box A, as described, and the slotted or perforated beaters D D, operating alternately up and down on said boards, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 21st day of March, 1877.

PHILIP L. WEST. [L. S.]

Witnesses:

FRANK GALT,  
R. H. WYMER.