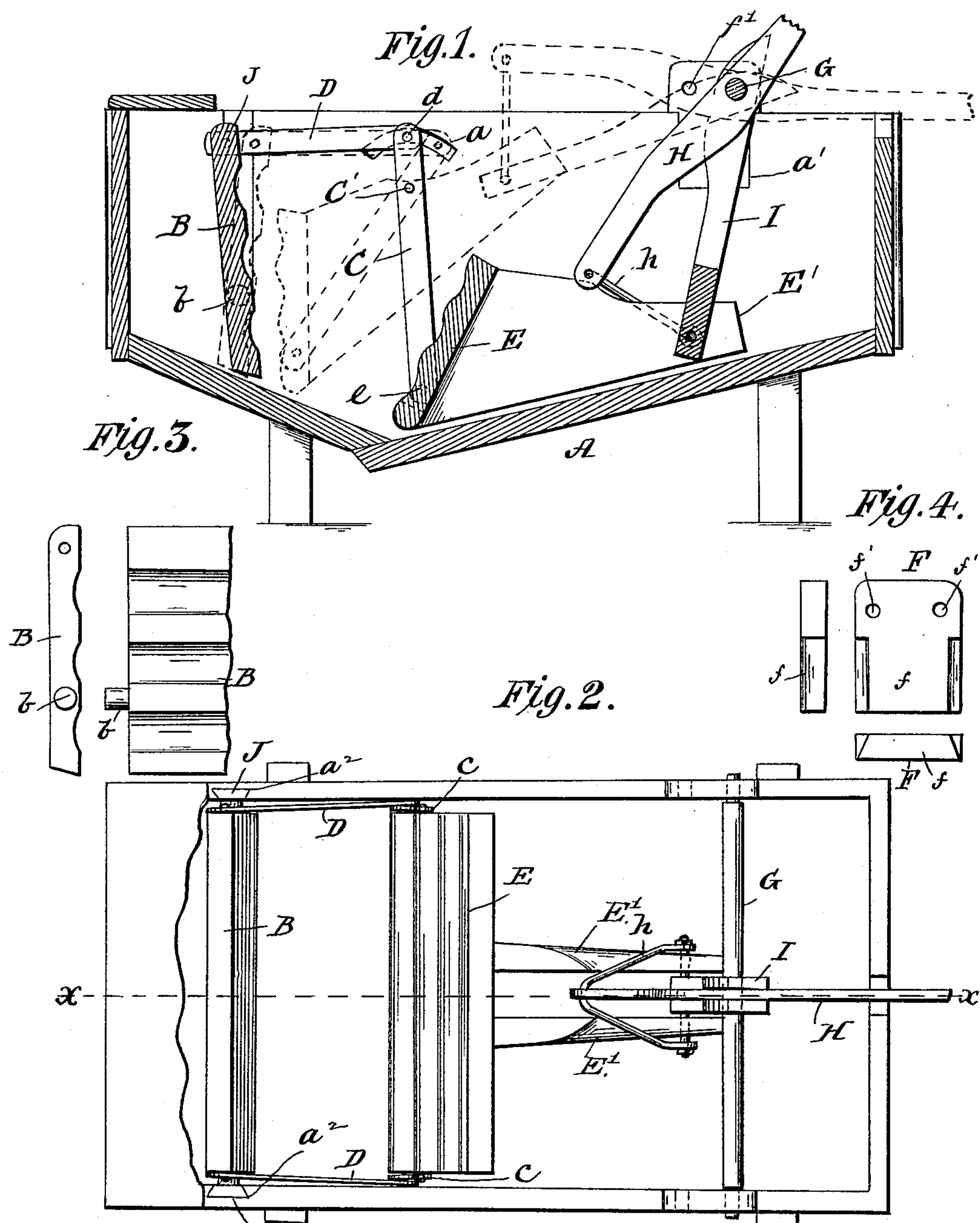


(No Model.)

S. P. MECAY.  
WASHING MACHINE.

No. 327,003.

Patented Sept. 29, 1885.



Witnesses. J  
Sam R. Turner  
P. B. Turpin.

Inventor.  
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By R. S. & A. Lacey Attys



# UNITED STATES PATENT OFFICE.

SAMUEL P. MECAY, OF KILBOURN, OHIO.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 327,003, dated September 29, 1885.

Application filed April 3, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL P. MECAY, a citizen of the United States, residing at Kilbourn, in the county of Delaware and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention is an improvement in washing-machines; and it consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a longitudinal section of my machine on about line, X X, Fig. 2, and Fig. 2 is a plan view thereof. Fig. 3 is a detail view of the back board, and Fig. 4 is a detail view of the bearing-block, all of which will be described.

The suds-box A is usually formed with an inclined bottom, as seen in Fig. 1. The back board, B, is pivoted at *b* within the suds-box, and near the rear end thereof. Hangers C are pivoted at *C'*, near their upper ends, to the opposite side of the suds-box, and have their upper ends connected by links D with the upper end of the back board. The pin *d*, which connects parts C and D, is extended laterally outward, and operates in a curved groove, *a*, formed on the inner side of the side boards of the suds-box. The opposite ends of this groove *a*, by engagement with the connecting-pin *d*, limit the movement of the hanger C on its pivot *C'*, as will be understood. The presser E is pivoted at *e*, near its lower edge, to the lower end of the hangers C, and is provided with a rearwardly-extended arm or stem, *E'*, for convenience in applying the lever-power presently described.

While it is preferred to employ operating mechanism of substantially the construction hereinafter described, it is obvious that the presser E might be operated by hand back and forth, and that in such operation the parts B, C, D, and E will operate in substantially the same manner as with such operating devices. This operation, it will be seen, is as

follows: As the presser E is moved toward the back board, B, the hanger C, by the connecting-link D, will draw the back board, B, as indicated in dotted lines, Fig. 1, so that both parts B and E will be given a motion toward each other, pressing the clothes and forcing the water thereout with each motion of the presser E. By the connection between the parts B and E such parts when brought together are made to conform one to the other, and by giving them both a forward movement both sides of the articles being washed are agitated, and a better cleansing action is accordingly accomplished.

As stated, however, I prefer to employ a lever for operating the presser, and to construct such part in the manner which I will now describe.

The side bars of the suds box are provided on their inner edges with dovetail mortises *a'*, cut from their upper sides. The bearing-blocks F are provided with the dovetail tenons *f*, fitted to the mortises *a'* of the suds-box. These blocks F are provided with one or more perforations, *f'*, to form bearings for the shaft or bearing-bar G. I prefer to form the perforations *f'* in horizontal series, so that by removing the blocks the bearing-bar may be set back and forth to adapt the machine to wash larger or smaller quantities of clothing, as is frequently desirable. The lever H is pivoted on the bearing-bar G, and has its resistance-arm connected by a link or stirrup, *h*, with the presser. A guide or pusher bar, I, is pivoted at one end on the bearing-bar G, and has its other end pivotally secured to the presser-stem *E'*, preferably at the point of connection therewith of the stirrup *h*.

In operation it will be seen the lever H will move the presser forward to the position indicated in dotted lines, Fig. 1. The object of the guide and pusher I is to prevent the lever H, after such lever has reached a certain point, from tilting the presser E on its pivot *e*, instead of properly advancing such presser.

It will be understood that in the use of the lever H, after such lever has reached a certain point, it will tend to turn the presser on its pivot *e*, rather than give such presser an advance toward the back board, B. To obviate this, I employ the guide and pusher bar I, which will prevent the upward movement of



the presser on its pivot until the point of connection of the bar I with the presser comes into a line drawn through the pivot E and the point of support of the guide or pusher bar I on the bar G, as such bar must turn on the arc of its pivot on bar G. By this construction, therefore, I am able to advance the presser accurately toward the back board, B.

I support the back board removably in the suds-box by journaling its pivots *b* in dovetail cleats J, movable vertically into and out of grooves *a*<sup>2</sup>, formed in the inner sides of the suds-box, as shown.

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

1. In a washing-machine, the combination of a pivoted resistance or back board, a hanger pivoted between its ends and connected at its

upper end with the upper end of the resistance-board by connecting-links, and a presser-board pivotally supported on the lower end of the hanger, substantially as set forth.

2. In a washing-machine, the combination, with a swinging hanger and a presser-board pivotally supported thereon, of a guide and pusher bar pivoted at one end to the presser-board and at its other end to a suitable support, the pivoted lever, and a link or stirrup connecting the presser-board and the resisting end of said lever, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL P. MECAY.

Witnesses:

H. B. KNAPP,  
DELIA A. KNAPP.