

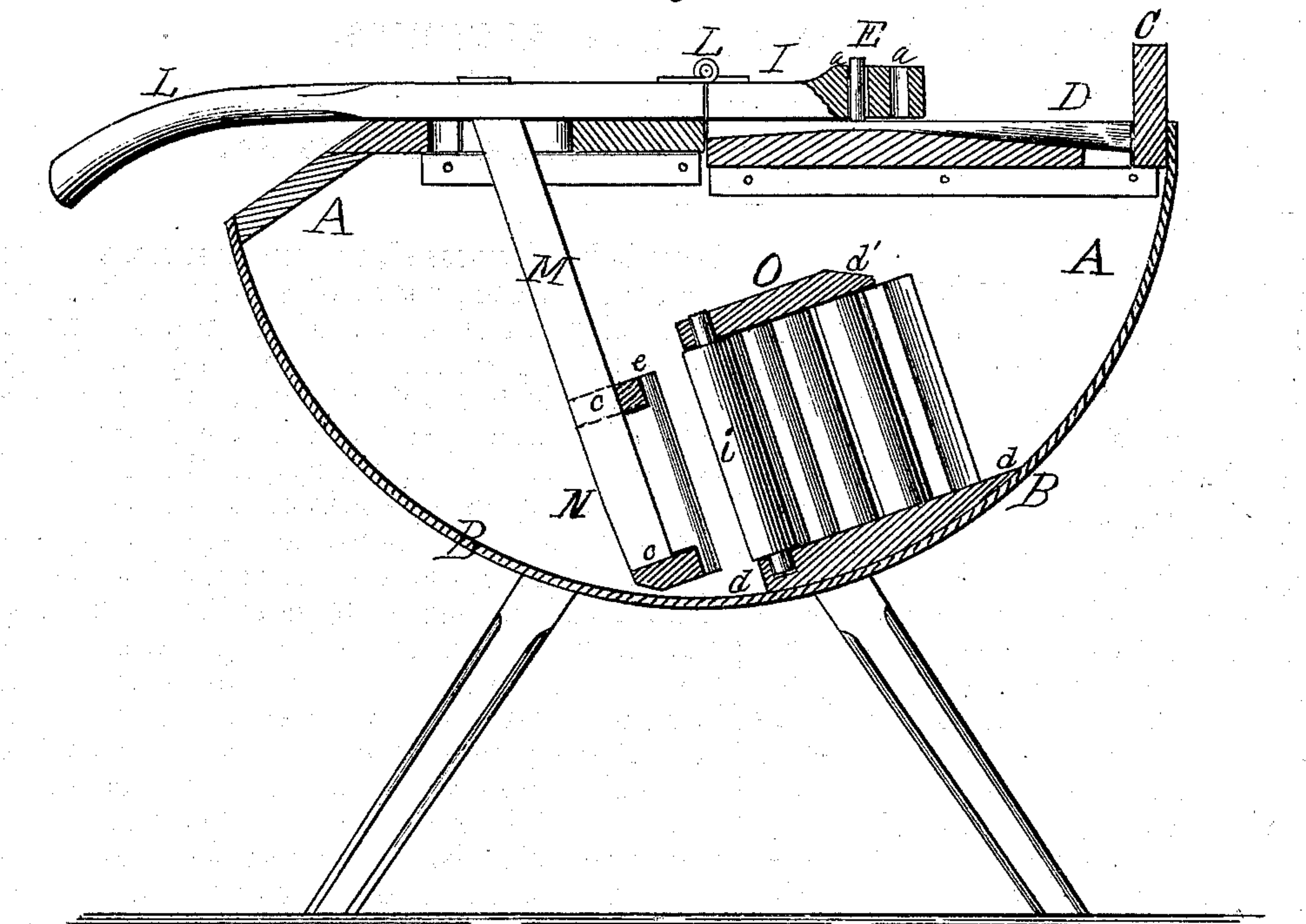
JOHN M. WALKER.

Improvement in Washing Machines.

No. 125,104.

Patented March 26, 1872.

Fig. 1.



A Fig. 2.

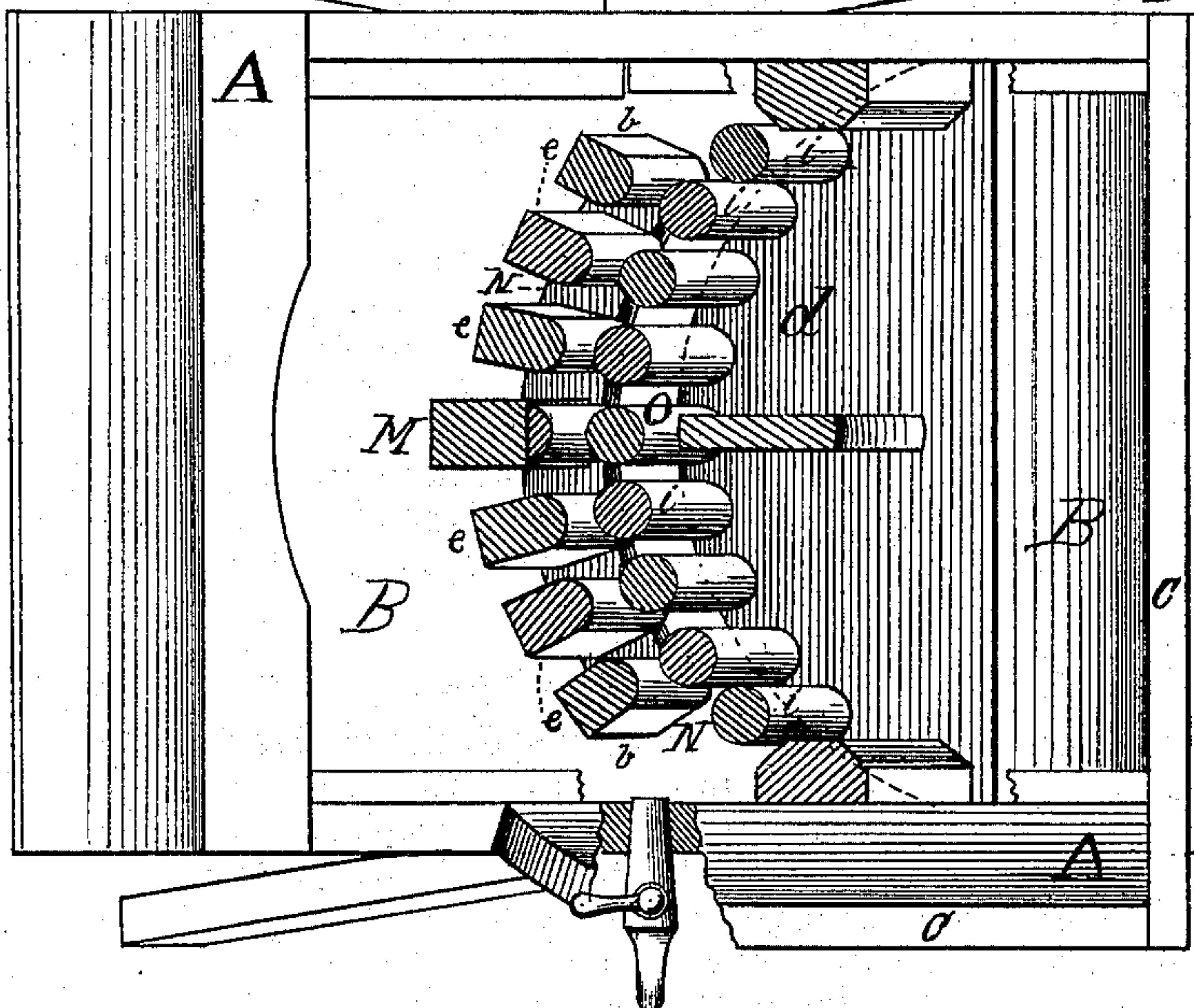
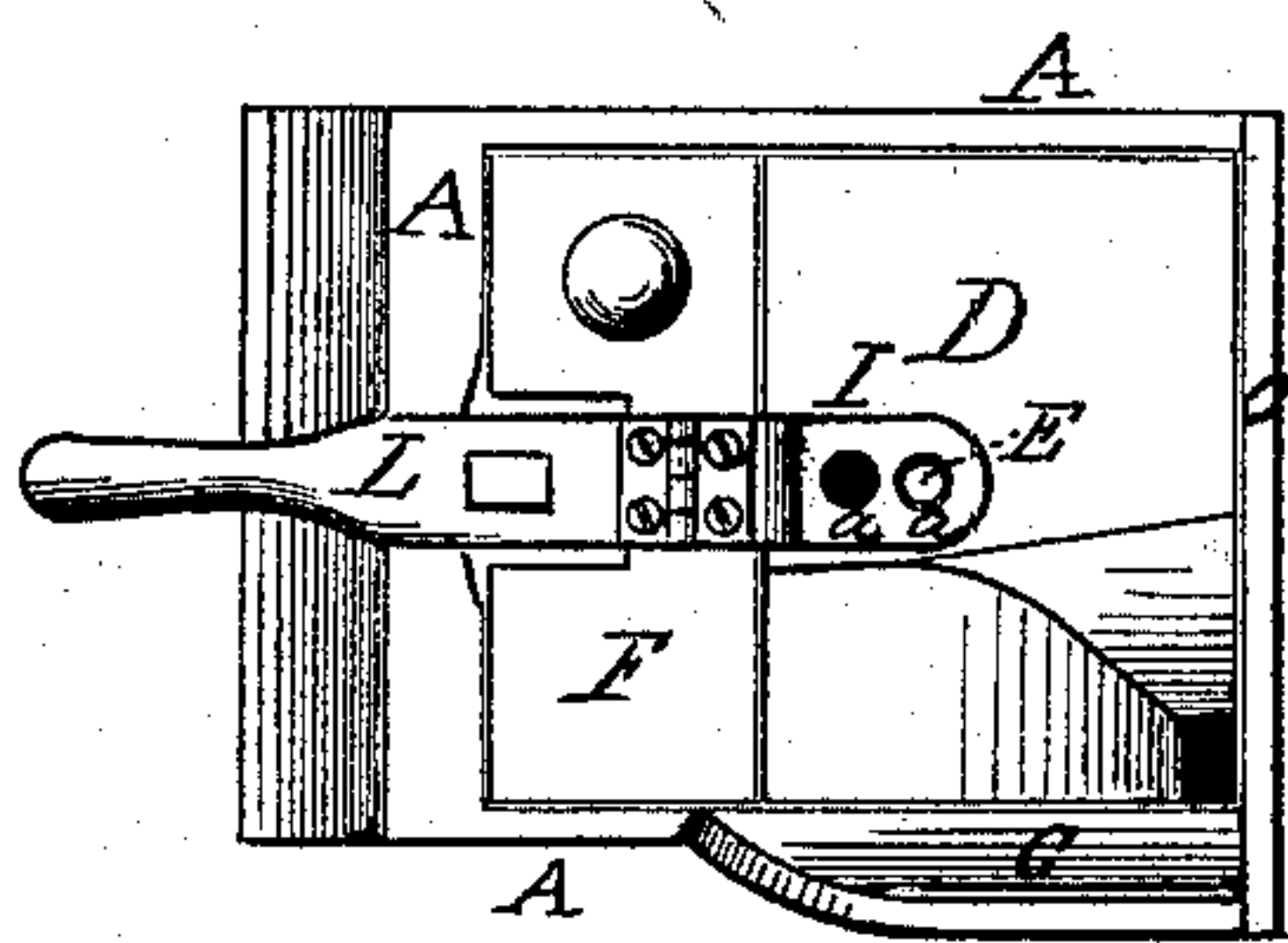


Fig. 3.



Witnesses.

A. Ruppert.
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by his atty
Cox & Cox.

UNITED STATES PATENT OFFICE.

JOHN M. WALKER, OF PLATTSBURG, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 125,104, dated March 26, 1872.

To all whom it may concern:

Be it known that I, JOHN M. WALKER, of Plattsburg, in the county of Clinton and State of Missouri, have made certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had to the accompanying drawing.

Nature and Objects of the Invention.

The invention relates to providing a properly-shaped tub or vessel with a convex wash-board, having a surface of rollers properly arranged, and a lever provided with a dependent standard, to the end of which is secured a concave wash-board, composed of bars or slats properly secured and separated, the whole being so arranged that by pressing the lever down the material to be washed is held between the convex and the concave wash-boards, and by then moving the lever from side to side the operation of washing is performed.

Description of the Accompanying Drawing.

Figure 1 is a vertical central longitudinal section of a device embodying the elements of the invention. Fig. 2 is a top view of same, showing the internal construction. Fig. 3 is a top view of same when covered and ready for operation.

General Description.

A is the tub, having concave bottom B, and vertical sides, provided with flanges C to prevent the water escaping over the top of the tub, and vent to draw the water from the vessel. The top of the tub A is provided with covers, the front one, D, of which has a cavity and aperture to collect whatever water may splash upon the cover and return it into the tub. It is also provided with the pivoted post E. The rear cover F is provided with a knob to raise it, and has an aperture through which the standard on the lever passes. The cover D is provided, at or about its center, with the pivot-post E, which passes through one of the apertures *a* in the shank I of the lever L, which shank extends forward to the line where the covers D and F meet, where it is hinged above to the lever L. At a proper point the lever L is provided with the standard M, securely fixed thereon; is of such length, and inclines downward and forward such distance as that, the

lever being depressed, the under surface of the concave washing-board N is brought in close proximity to the bottom of the tub A, at the same time the concave face of the washing-board N is in close relation to the convex wash-board O. The wash-board N consists of two segments or arched pieces, *c*, the curve of which corresponds to that of the convexity of the wash-board O, these segments being secured to the front and lower part of the standard M, and connected by equidistant bars or slats *e*, which are fastened in a vertical position to the concave parts of the segments *c*, and have their front surfaces properly rounded. The segments are also connected by the vertical braces *b*, one of which is placed at each end of the segments *c*. The wash-board O consists of a disk, *d*, properly secured to the bottom of the tub, and connected with the disk *d'*, which is placed a suitable distance above the disk *d* by braces at each end and in the center, these disks having their fronts convex to conform to the concavity of the wash-board N. The disks *d* *d'* are similarly inclined from front to rear, and are provided with rollers *i*, equidistant from each other, and journaled at each end in the disks at a similar distance from the fronts thereof, the surface of the rollers opposite the bars *e* projecting slightly beyond the front edges of the disks *d* *d'*; thus the whole face of the convex wash-board O, upon which the concave wash-board N operates, is made up of the surfaces of the rollers *i*, the general convexity of the curve of which conforms to the general concavity of the curve of the bars or slats *e*.

Operation.

The cover F is removed, the cleansing material placed in the tub, and the articles to be washed deposited therein between the wash-boards N and O; the lever L, being raised, is then brought down, the cover F replaced. Pressure being applied to the lever L, the article being operated upon is held between the wash-boards N and O. The lever is then moved to right and left, or vice versa. The rollers *i* on the wash-board O revolving, allows the material to pass over the face of the wash-board O, thus thoroughly washing the article operated upon, as aforesaid.

When it is desired to remove the subject of

the operation, the lever L is raised, the cover F removed, thus opening the tub. The pressure of the wash-board N upon the material being operated upon, as well as the distance between the wash-boards N and O, and consequently the capacity of the machine, is regulated by the apertures *a* in the shank I of the lever L, wherein the pivot-post E is placed. The water may be expressed from the material by opening the vent in the tub, drawing off the water, and bearing down forcibly upon the lever L. The pressure of the wash-board N on the material may be increased by pivoting the shank I of the lever L through one of the apertures *a* nearer the standard M.

Claims.

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

1. The wash-board O, consisting of the disks

d d' and rollers *i*, substantially as shown and described.

2. The wash-board N, consisting of the segments *c* and bars *e*, in combination with the standard M, lever L with hinged shank I, operating on the pivot-post E, substantially as shown and described.

3. The combination of the wash-boards O and N, standard M, lever L with hinged shank I, operating on the pivot-post E, substantially as shown and described.

In testimony that I claim the foregoing invention of improvements in washing-machines, as above described, I have hereunto set my hand and seal this 6th day of February, 1872.

JOHN M. WALKER. [L. S.]

Witnesses:

R. W. MUSSER,
C. M. DUNHAM.