(Model.)

S. PARKS.

WASHING MACHINE.

No. 261,752. Patented July 25, 1882.

Fig. 1

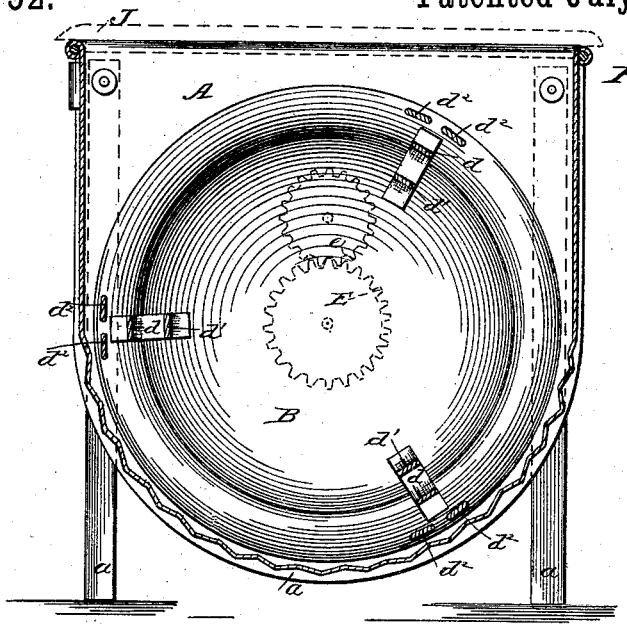
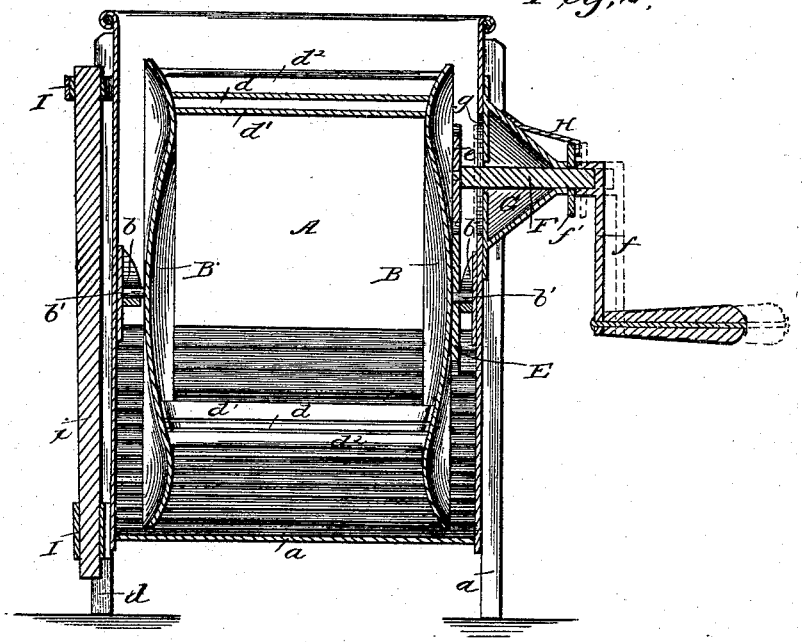


Fig. 2.



WITNESSES:

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STEPHEN PARKS, OF VERNON CENTRE, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 261,752, dated July 25, 1882.

Application filed May 13, 1882. (Model.)

To all whom it may concern:

Be it known that I, STEPHEN PARKS, a citizen of the United States, residing at Vernon Centre, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do hereby 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.

This invention relates to certain new and useful improvements in washing-machines, and more particularly upon my former patent granted March 1, 1881, and numbered 238,305; and the invention consists in novel features of construction and combination and arrangement of parts, all as will be hereinafter fully described, and set forth in the claims hereto annexed.

Referring to the accompanying drawings, Figure 1 is a longitudinal vertical section; Fig. 2, a transverse vertical section.

In the drawings, A represents the tub or receptacle for containing the clothes to be washed, having a semicircular bottom, *a*, provided with transverse corrugations, all as clearly shown. The inner sides of the tub or receptacle A are provided with bearings *b b* for the reception of the short journals *b' b'* of the disks B B'. These disks on their outer faces have a convex center and a dish-shaped or concave rim, or what might be termed "concavo-convex" outer faces, and said disks are connected together near their peripheries and at equal distances apart by the cross-bars *d d' d² d²*, the parallel bars *d² d²* being arranged a short distance apart and connecting the outer rims of the disks, while the bars *d d'* are arranged a short distance apart from each other and the bars *d² d²*, and also connect the disks inside of the bars *d²* for the purpose of strengthening and bracing the disks. The disk B has secured to its outer convex face a gear-wheel, E, which meshes with a pinion, *e*, mounted on a shaft, F, projecting through one of the sides of the tub or receptacle, and having secured thereto the operating-crank *f*. The shaft F is adapted to be adjusted longitudinally for the purpose of throwing the pinion *e* in and out of mesh with the gear-wheel E, and when thrown out of mesh with said wheel it is drawn back into a circular recess, *g*, formed on the inner side of the tub or receptacle, which permits of the ready removal of the connected disks when it is desired to clean the tub.

G represents an exterior conical cap, arranged upon the same side as the recess *g*, for strengthening the side in view of the recess formed therein, and has an opening through its apex, forming an additional bearing for the shaft F. The outer end of the shaft or the upper end of the operating-crank *f* is provided with a circular disk, *f'*, with which a spring-latch, H, is adapted to engage for preventing longitudinal movement of the shaft F when adjusted lengthwise either to throw the pinions into or out of mesh with the gear-wheel, all as clearly shown in plain and dotted lines.

The tub or receptacle is supported by the legs *a*, bolted or otherwise secured thereto, and upon one of the sides of the tub or receptacle is secured a vertical socket, I, for the reception of a clothes-stick, *i*, which is used in removing the clothes from the tub or receptacle.

The hereinbefore-described construction of disks gives them additional strength, while the dish-shaped or concave rims of said disks prevent the clothes from getting between them and the sides of the tub or receptacle. The tub or receptacle and also the disks and connecting-bars may be made from galvanized iron or suitable non-corrosive metal, or the tub or receptacle made of wood and lined with any suitable non-corrosive sheet metal.

The tub or receptacle is provided with a suitable cover, J.

The operation of my improved machine is as follows: The clothes to be washed, being first soaped in the usual manner, are placed in the tub or receptacle, which is then partially filled with water. The crank *f* is then turned, which, through the medium of the pinion and gear-wheel, gives a rapid revolving movement to the disks and their connecting-bars, the bars *d² d²* moving and pressing the clothes against the inner corrugated surface of the tub or receptacle, producing a rubbing or frictional action similar to the action of the hand in rubbing the clothes over the ordinary cor-

rugated or ribbed surface of a wash-board, but in a more efficient and expeditious manner.

I do not wish to be understood as claiming broadly anything shown, described, or claimed in my former patent above referred to.

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

1. The combination, with a washing tub or receptacle having a semicircular corrugated or ribbed bottom and interior side bearings, *d d*, of the disks B B′, having on their outer faces convex centers and dish-shaped or concave rims and journals *b′ b′*, and connected together near their peripheries by rubbing-bars d^2, substantially as and for the purpose herein shown and described.

2. The combination, with a washing tub or receptacle having a semicircular corrugated or ribbed bottom and interior side bearings, *d d*, of the disks B B′, having on their outer faces convex centers and dish-shaped or concave rims and journals *b′ b′*, and connected together near their peripheries by rubbing-bars d^2 and strengthening and bracing bars *d′ d′*, substantially as and for the purpose herein shown and described.

3. The herein-described washing-machine, consisting of the washing tub or receptacle having interior bearings, *b b*, circular recess *g*, and exterior conical cap, G, disks B B′, constructed as shown, and provided with short journals *b′ b′*, and connected by rubbing-bars d^2, gear-wheel E, secured to outer face of disk B, longitudinally-adjustable shaft F, having pinions *e* on its inner end and operating-crank *f* and disk *f′* on its outer end, and the spring-latch H, substantially in the manner as and for the purpose specified.

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

STEPHEN PARKS.

Witnesses:
RALPH MCINTOSH,
H. A. WILLIAMS.