

H. WARNER.

Improvement in Washing-Machines.

No. 115,139.

Patented May 23, 1871.

Fig. 1.

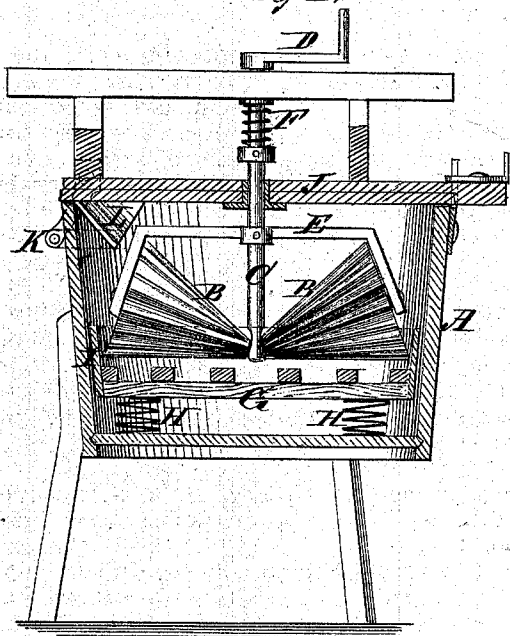


Fig. 2.

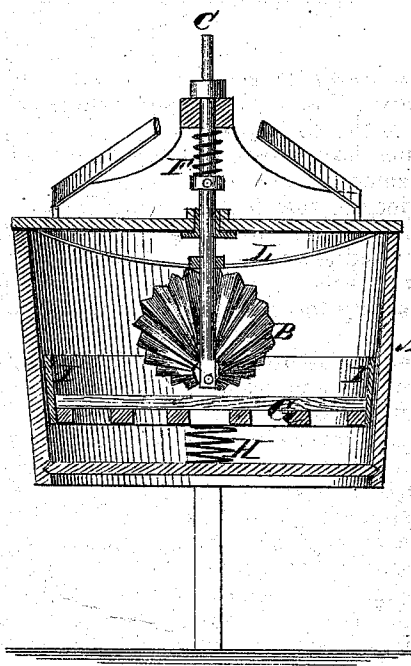


Fig. 3.

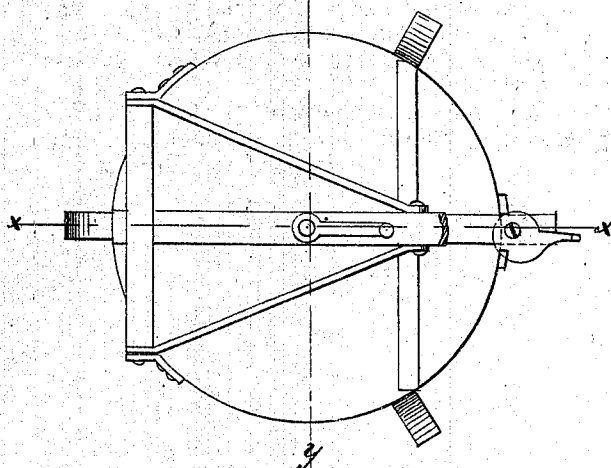
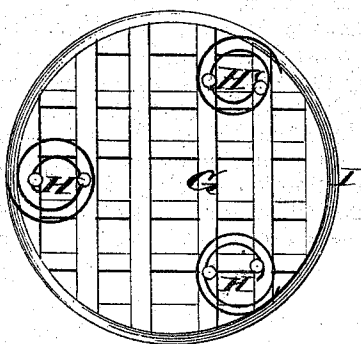


Fig. 4.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

HORACE WARNER, OF RIDGEWAY, PENNSYLVANIA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 115,139, dated May 23, 1871.

*To all whom it may concern:*

Be it known that I, HORACE WARNER, of Ridgeway, in the county of Elk and State of Pennsylvania, have invented a new and useful Improvement in Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in machines for washing clothes, having special reference to a washing-machine for which Letters Patent No. 109,279 were granted to me; and consists in providing said machine with an elastic bottom and drip-cup cover, as hereinafter more fully described.

In the accompanying drawing, Figure 1 is a vertical section of the machine on the line *x x* of Fig. 3. Fig. 2 is a vertical section of Fig. 3 taken on the line *y y*. These two views show the revolving cones in different positions. Fig. 3 is a top view. Fig. 4 is a reversed view of the elastic bottom detached.

Similar letters of reference indicate corresponding parts.

A is the tub. B B are the washing-cones, which are rotated in the tub by revolving the shaft C by means of the crank D. These cones revolve on pivots of their own while being carried round by the shaft. The outer ends are supported by the yoke E. F is a spiral spring on the shaft, by which the shaft and cones are pressed down onto the clothes. G is an open-latticed false removable bottom in the tub, which is supported on spiral springs H. The bottom may be a perforated disk. It is sur-

rounded by a rim, I, raised sufficiently above the upper surface of the bottom to contain the clothes. The cones are operated within this rim. By raising the clothes above the true bottom in this manner a much greater quantity of suds may be used. The impurities settle below the clothes, while the elastic bottom allows an even pressure upon the clothes. J is the cover on the tub, which is hinged to the tub at K in such a manner that, when raised and thrown back, the cones are lifted out of the tub, as the shaft is supported entirely by the cover. L is a drip-cup on the inside of the cover, near the hinge, for catching the suds or water which may drip from the cones when the latter are thus raised out of the tub. When the cover is turned back over the tub the drip-water which has been caught in the cup or receptacle L is discharged back into the tub.

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

1. The cup L, arranged as described on the inside of cover J to receive the drip from the cones, in the manner specified.

2. The arrangement of the open bottom G, springs H, and flange I, (on the bottom of the tub,) in combination with conical rolls B working within said flange, as and for the purpose specified.

The above specification of my invention signed by me this 18th day of February, 1871.

HORACE WARNER.

Witnesses:

GEO. W. MABEE,  
T. B. MOSHER.