P. MARKLEY.

Washing-Machine.

No. 165,679. Patented July 20, 1875.

Fig 1.

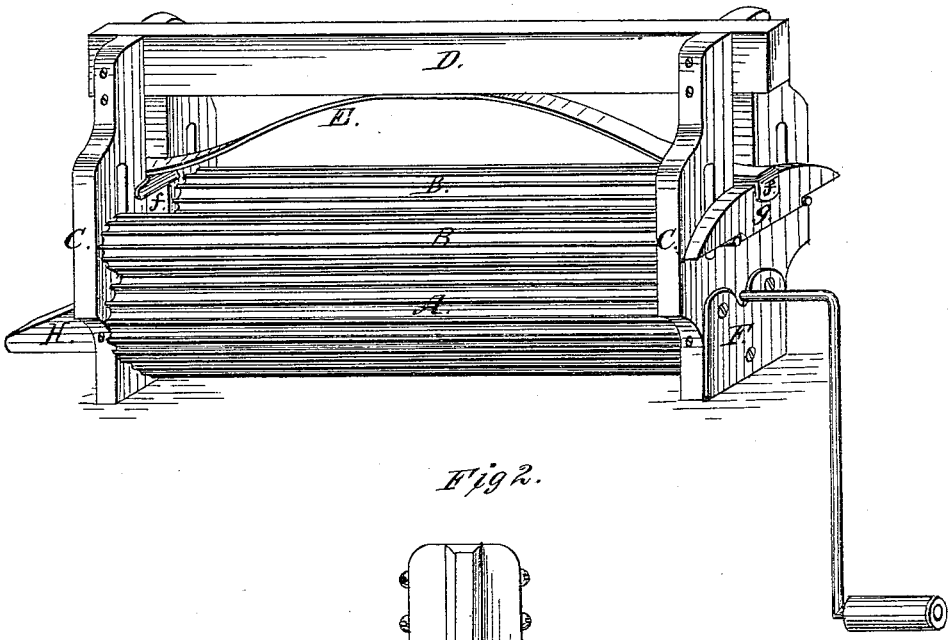


Fig 2.

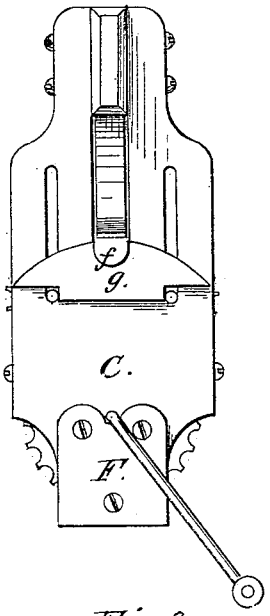
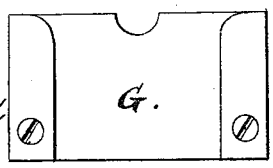


Fig 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

PHILEMON MARKLEY, OF CANTON, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **165,679**, dated July 20, 1875; application filed January 19, 1875.

To all whom it may concern:

Be it known that I, PHILEMON MARKLEY, of Canton, in the county of Fulton and State of Illinois, have invented certain Improvements in Washing-Machines, of which the following is a specification:

The first part of my invention relates to the combination of corrugated rollers and a steel spring or springs in such a manner that the said steel spring or springs shall be effectual in adjusting the smaller corrugated rollers to the unevenness of the fabric in washing, and out of the way of their operation and that of the operator, having slotted end pieces as guides to small rollers, and spring or springs, with a stationary coupling as part of the frame-work of the machine.

The second part of my invention relates to the combination of corrugated rollers, slotted end pieces, and separate and stationary fastenings on the ends of the machine and on the tub, for the purpose of supporting and adjusting the machine to the different-sized tubs, so that the machine can be removed from the tub and replaced with but little trouble to the operator.

Figure 1 represents a side view of a machine embracing my invention. Fig. 2 represents the crank end of the same. Fig. 3 represents the fastening on the tub.

I construct my machine by having one large corrugated roller, A, with a crank, and two (2) smaller corrugated rollers, B B, on top, with end pieces C C, of wood or metal, for the use and purposes of journaling roller A, guiding the rollers B B, and spring or springs E, also as part of the frame-work of the machine. The coupling-piece D is of wood the length of the machine, the ends of which are fastened by bolts edgewise through, and to the top of, the end pieces C C, parallel with, and above, the rollers B B. The spring or springs E are made of one or two pieces of steel, and fastened by a bolt or bolts, screw or screws, at or near the center of the under edge of coupling-piece D.

The spring E curves from point to point, or, if of two (2) pieces, from ends to points, to rest on plates *f f* on swivels *g g* on the outside of end pieces C C, and out of the way of rollers, fabric, and operator.

When the machine is in use the spring or springs E, as levers, press up against the lower edge of coupling-piece D, which acts as a fulcrum to spring or springs E, increasing the amount of pressure on the fabric as it is pressed up against the lower edge of coupling-piece D, thus giving, in a new and novel way, the needful pressure in washing.

The metal plates *f f* are made so as to fit through slots of end pieces C C, and under ends of spring or springs, with a lip over swivels *g g*, also having a flange on inside of end pieces C C to hold swivels in place. This plate is also for the points of spring or springs to slide upon, and at the same time to allow the swivels to freely act upon the axles of the rollers B B. The metal plate F, at or near the bottom of the crank end of the machine, is fastened to the same by screws, and made in a dovetailed manner, so that it fits downward into pieces G of metal. G is fastened on inside of tub with screws, and made socket like, with dovetailed jaws adapted to plate F, so as to prevent the machine from giving sidewise or endwise, thus, in a new and novel way, giving it the most secure fastening. The piece H, at the opposite or left end of the machine, near the center, is of wood, fastened to and through the same by means of screws or bolts, and made to fit in a notch on the tub, and is not connected with plate F by means of a cross-bar, for both are separate and stationary fastenings on the ends of the machine that will, without any change, adjust the same to the different-sized tubs.

I claim as my invention—

1. The combination of corrugated rollers A and B B, steel spring or springs E, and pieces C C, plates *f f*, and swivels, *g g* with the stationary coupling-piece D as part of the frame-work of the machine, substantially as described and set forth.

2. The combination of corrugated rollers A and B B, end pieces C C, with plate F, piece G, and piece H, as separate and stationary fastenings on the machine and on the tub, substantially as and for the purposes herein set forth.

PHILEMON MARKLEY.

Witnesses:

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