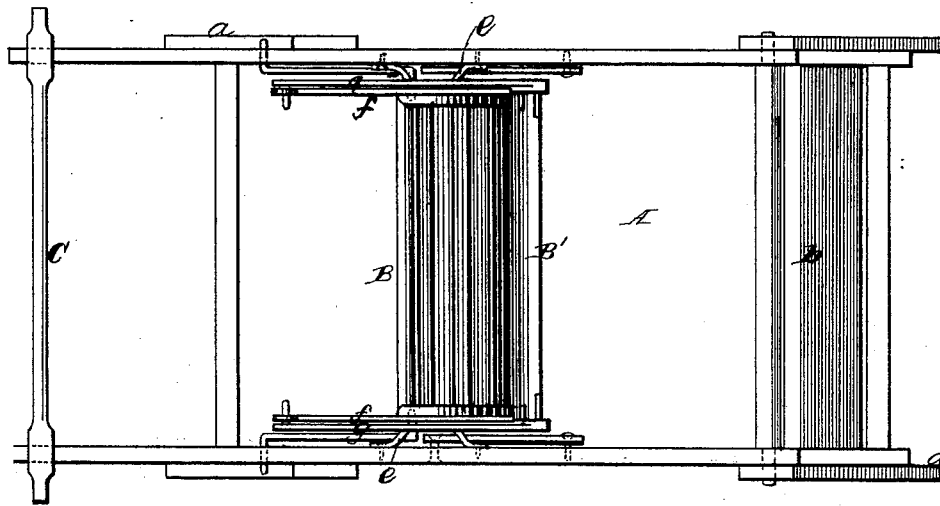


L. BECKER.  
Washing-Machine.

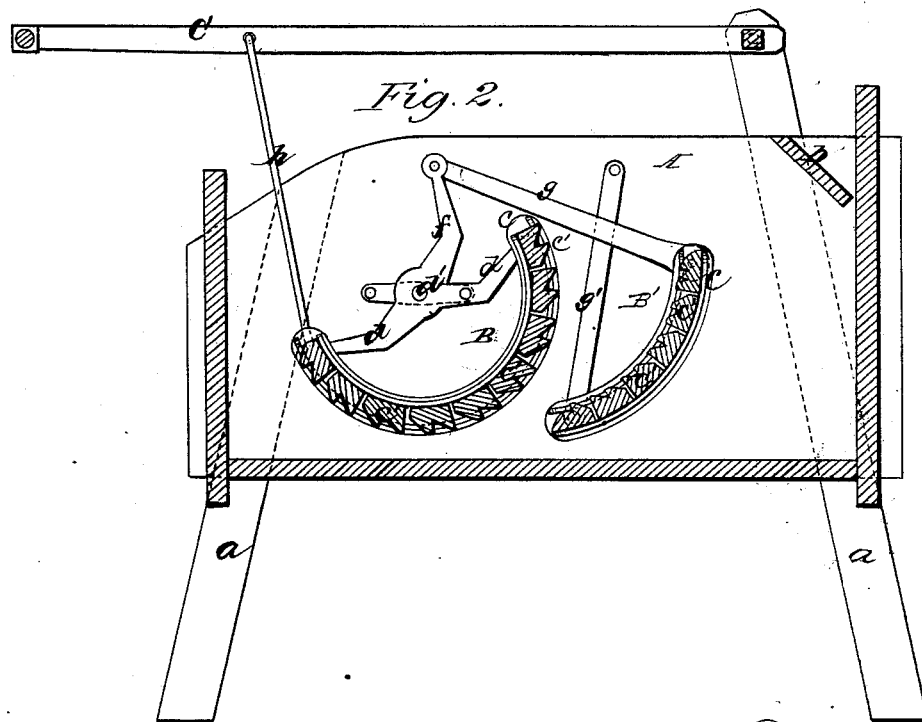
No. 217,979.

Patented July 29, 1879.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*Villette Anderson.*  
*J. H. Miller.*

INVENTOR

*Leander Becker.*  
*by E. W. Anderson*  
ATTORNEY

# UNITED STATES PATENT OFFICE.

LEANDER BECKER, OF YORK, PENNSYLVANIA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **217,979**, dated July 29, 1879; application filed June 2, 1879.

### *To all whom it may concern:*

Be it known that I, LEANDER BECKER, of York, in the county of York and State of Pennsylvania, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of my washing-machine in plan, and Fig. 2 is a longitudinal section thereof.

This invention has relation to improvements in washing-machines which employ two rubbers, subjecting the fabrics to a rubbing action to effect their thorough and expeditious cleansing; and they consist of semicircular end pieces fitted with corrugated slats or ribs, said end pieces being pivoted or hung, by suitable means, to the sides of the tub or receptacle, and provided with levers or elbows, connected to similar end pieces, likewise fitted with corrugated pieces or ribs, and hung to the sides of the tub by hangers connected to their lower ends, substantially as hereinafter more fully set forth.

In the accompanying drawings, A refers to the tub or fabric-receptacle, of the usual rectangular shape, and mounted on legs *a a*, with one end provided with a water-deflector, *b*, to return the water that may be thrown up by the longitudinally-reciprocating rubber to the tub or receptacle.

B refers to a rotary reciprocating rubber, and B' to a longitudinally-reciprocating rubber, reciprocating to and from rubber B. Each of these rubbers consists of two grooved or flanged semicircular end pieces or arcs, *c*, fitted with corrugated slats or ribs *c'*, the slats or ribs of the rubber B' facing the faces or convexity of the slats or ribs of the rubber B.

The slats or ribs are fastened in the grooved or flanged end pieces or arcs by simply inserting fastenings (preferably screws) through the ends and center of the flanges of the said arcs, and through the ends of the coincident slats or ribs, thus effecting the holding or securing of each individual slat or rib in the end pieces in a very simple and expeditious manner.

The end pieces or arcs of the rubber B are

each provided or formed with intersecting side bars, *d*, having pivots *d'*, by which the rubber is hung or pivoted in ears or perforated brackets *e*, fastened to the insides of the tub A.

*f f* are angular levers or elbows, forming continuations of the side bars, *d*, and which are connected to the rubber B' by links *g*, connected to the upper ends of the said levers *f* and the same ends of the end pieces of the rubber B'.

The rubber B' is hung to the sides of the tub or receptacle A by means of links *g' g'*, with their lower ends pivoted to the same ends of the end pieces of the shoe or rubber, while their upper ends extend up past the links *g* and are pivoted to the tub. By this construction and arrangement of devices the two rubbers are permitted to act conjointly, and one possessed of a rotary reciprocating motion, while the other has a longitudinally-reciprocating motion to and from the former rubber, by which the interposed fabrics are subjected to a thorough rubbing, effecting their perfect cleansing.

C is the rubber-actuating lever, preferably bail-shaped, pivoted, it may be, to the upper ends of the rear legs of the tub or other convenient point on the tub, and connected near its forward end to the rubber B by arms *h*, connected at their lower ends to the same end of said rubber.

The rubbers are operated by imparting a vertically-reciprocating motion to the bail or lever C.

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

In a washing-machine, the combination of the rubbers B B', the end pieces of which are composed of grooved or flanged arcs *c*, provided with angular levers *f*, with the links *g*, connecting the two rubbers together, pivoted links *g'*, connecting the rubber B' to the tub, and bail or lever C, pivoted to the tub or its legs, and connected by arms *h* to the lower end of the rubber B, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LEANDER BECKER.

Witnesses:

GEORGE M. SHETTER,  
A. A. SHETTER.