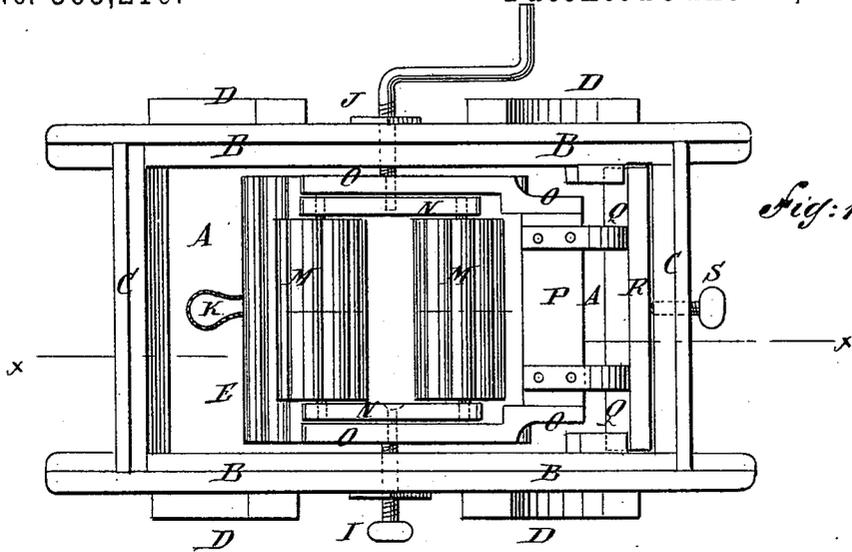


(No Model.)

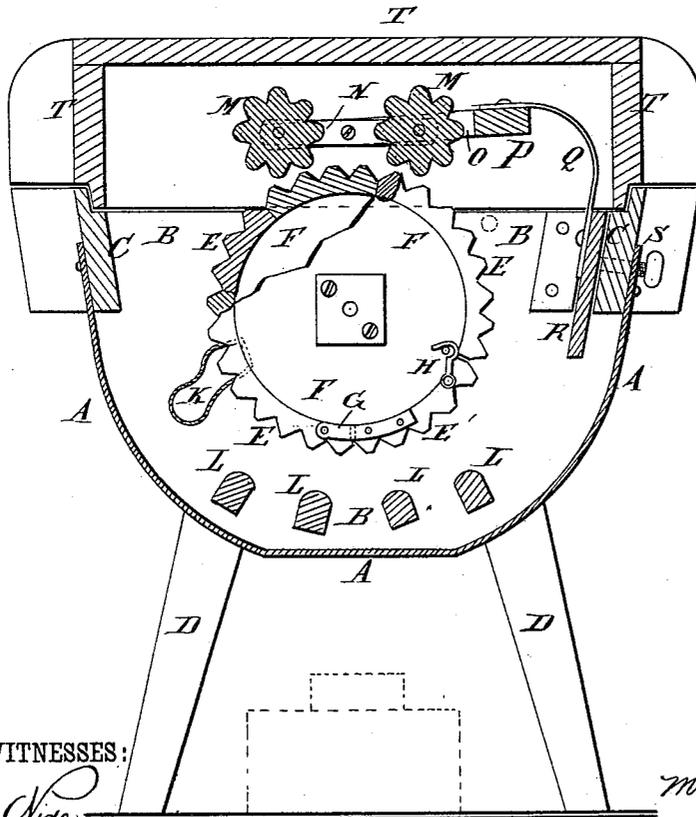
M. V. B. WATSON.  
WASHING MACHINE.

No. 365,210.

Patented June 21, 1887.



*Fig: 1.*



*Fig: 2.*

WITNESSES:

*Chas. Wade*  
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INVENTOR:

*M. V. B. Watson*

BY

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

MARTIN V. B. WATSON, OF ALTAMONT, KANSAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 365,210, dated June 21, 1887.

Application filed May 8, 1886. Serial No. 201,552. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN V. B. WATSON, of Altamont, in the county of Labette and State of Kansas, have invented a new and useful Improvement in Washing-Machines, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of my improved washing-machine, the cover being removed. Fig. 2 is a sectional side elevation of the same, taken through the line *x x*, Fig. 1, and showing the cover in place.

The object of this invention is to provide washing-machines constructed in such a manner as to wash the clothes quickly and thoroughly and without injuring them, and which at the same time shall be convenient in use and easily operated.

The invention consists in the construction and combination of various parts of the washing-machine, as will be hereinafter fully described, and pointed out in the claims.

The tub of the machine is made semi-cylindrical in form, with a sheet-metal bottom and sides A, and vertical wooden ends B, and has wooden bars C attached to the inner surfaces of the edges of the sheet-metal sides. The tub is mounted upon the legs D of such a length as to raise the said tub to a convenient height, and is designed to be heated by an oil-stove or other suitable heater placed beneath it, as indicated in dotted lines in Fig. 2. The bottom of the tub is flattened to allow the heat to act more effectively upon it.

Within the wash-tub A B C is placed the washing-cylinder, which is formed by attaching wooden bars E, corrugated longitudinally upon their outer surfaces to the edges of two circular wooden disks, F. One of the bars, E', is loose and is secured in place at one edge by hinging-straps G, and at the other edge by hooks H, so that the said bar E' can be turned back, as a door, to allow clothes to be readily put into and taken out of the said cylinder.

The cylinder EF is pivoted to the ends B of the tub by a hand-screw, I, at one end, and by a crank, J, at the other end, so that the

said cylinder can be readily put in and taken out, and can be rotated by turning the said crank.

To the cylinder EF are attached cord-loops K, one of which is shown in Figs. 1 and 2, through which clothes can be passed and washed by being carried around by the said cylinder in its revolution. To the ends B of the tub are attached the ends of four (more or less) bars, L, in such positions that the clothes secured in the loops K will strike against and be rubbed upon them as the said clothes are carried around by the cylinder EF. The upper sides of the bars L are rounded to prevent them from cutting or injuring the clothes.

M are two corrugated rollers the ends of which are journaled to and between the ends of two short bars, N. The bars N at their middle parts are journaled to the bars O, which are connected at one end by a cross-bar, P, forming a frame. To the cross-bar P are attached the upper ends of two springs, Q, which are curved downwardly, and are attached at their lower ends to a cross-bar, R. The ends of the cross-bar R are placed in grooves in the end parts of the side bars, C, and can be secured in place by a set-screw, S, or other suitable means, so that the said cross-bar R can be adjusted higher or lower to cause the springs Q to hold the rollers M down upon the clothes with less or more pressure, as may be required.

The upper edges of the ends B and side bars, C, are rabbeted to receive the rabbeted lower edge of the cover T, so that the said cover will be held securely in place and will confine the steam while the machine is being used.

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

1. A washing-machine consisting of a tub provided with rubbing-bars in its bottom, a hollow corrugated cylinder journaled in the tub, and provided with a door to permit clothes to be placed therein and with a loop for securing the clothes to the outside of the cylinder, a pivoted and spring-supported frame above the cylinder, and corrugated rollers journaled in the said frame, substantially as herein shown and described.

2. In a washing-machine, the combination,

with the tub A B C, provided with grooves in  
its sides, and the cylinder E E' F, journaled  
therein, of the frame O P, the cross-bar R, de-  
tachably secured in the grooves of the tub,  
5 the springs Q, secured to the said frame and  
cross-bar, the bars N, pivoted in the frame O  
P, and the corrugated rollers M, journaled in

the ends of the bars N, substantially as herein  
shown and described.

MARTIN V. B. WATSON.

Witnesses:

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Wm. I. McCord.