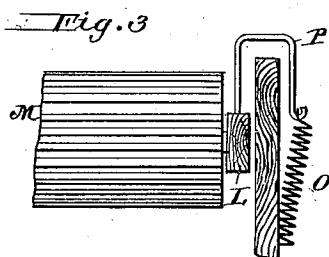
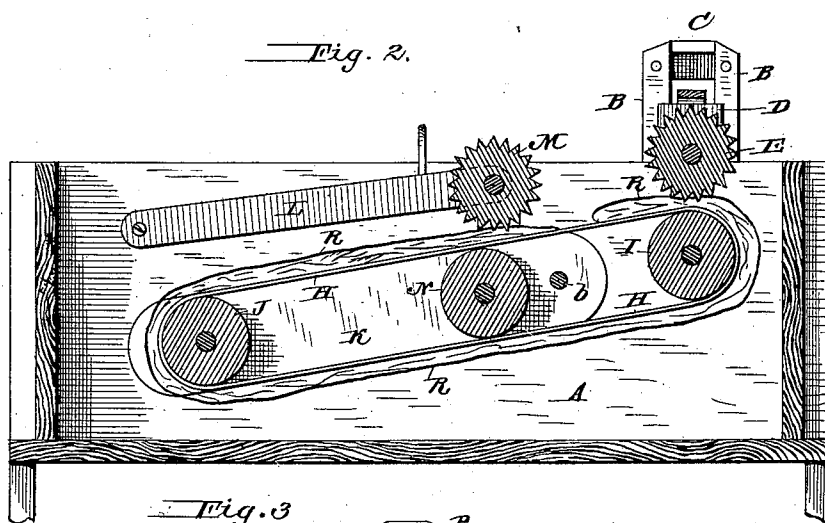
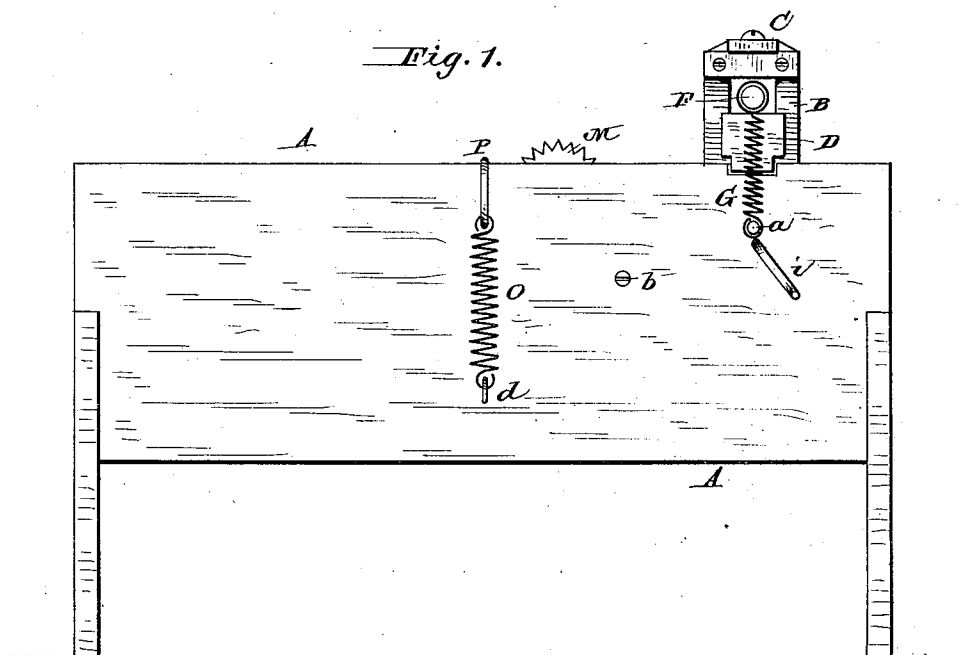


(No Model.)

W. T. FUSON.
Washing Machine.

No. 236,426.

Patented Jan. 11, 1881.



Witnesses:
A. M. Long,
Alex. Porter Morse

Inventor,
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM T. FUSON, OF GRENOLA, KANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 236,426, dated January 11, 1881.

Application filed September 17, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. FUSON, a citizen of the United States, residing at Grenola, in the county of Elk and State of Kansas, 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The present invention relates to that class of washing-machines in which an endless band or apron is employed for carrying the clothes through a system of corrugated rubbing-rollers.

The invention consists in the combination, with an endless apron traveling around two smooth-faced rollers, journaled respectively in the side walls of the suds-box, and a pivoted frame, of a spring-pressed corrugated pounding and rubbing roller carried by a pivoted frame, and a second spring-pressed corrugated roller mounted in vertically-adjustable bearing-blocks arranged in standards of the suds box.

In the accompanying drawings, Figure 1 is a side elevation of a washing-machine constructed according to my invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a detail view, showing the spring-pressed pounding-roller.

The rectangular suds-box A is supported upon suitable legs, and is provided at one end with vertical side bars, B, connected by a transverse top bar, C. Between these side bars, B, are arranged vertically-sliding blocks D, in which is journaled a corrugated or fluted roller, E. The blocks D are suitably grooved, so as to embrace the bars B, and a transverse pressure-bar, F, bearing upon said blocks has a spiral spring, G, connected with each end thereof, the lower ends of these springs being secured to the suds-box at the point a. The object of the bar F and springs G is to exert a yielding pressure upon the roller E and hold it in contact with an endless apron or belt, H, passing around a smooth-faced roller, I, journaled in the sides of the suds-box below the corrugated roller E, and having an end crank.

The apron also passes around the smooth-faced roller J, which is journaled or mounted in the free end of a frame, K, having the front ends of its side bars hung on pivot-pins b on the side walls of the suds-box. Immediately above the frame K is arranged another end-pivoted frame, L, carrying at its free end a corrugated or fluted roller, M, which is located over a smooth-faced roller, N, journaled in the frame K near the pivots thereof. The fluted roller M is pressed down upon the apron, which passes between it and the roller N, by means of spiral springs O, arranged at either side of the suds-box. The lower ends of the springs are secured to the latter at the point d, and their upper ends are connected with the hooked extremities of angular or bow-shaped metallic rods P, which are secured to the frame L, and extend over and below the top rim or edge of the suds-box, as is shown more fully in Fig. 3. A flap or sheet, R, of canvas or other suitable fabric, is secured at one end to the apron or belt H, by sewing or otherwise, this flap being designed to hold in position the clothes which are placed between it and the traveling apron. For this purpose the flap is made about as long as the apron, and obviously it is of the same width as the latter.

The operation of the machine is as follows, viz: In order to prepare the machine for use, the detachable end of the flap is raised, the clothing placed upon the apron, the flap replaced, and the clothing retained upon the apron by securing the end of the flap by any suitable means. This having been done, the roller I is rotated through the medium of the crank i, causing the apron to travel around its guide-rollers, and in doing so it will effect the rotation of the two fluted rollers E M by the frictional contact of the latter with the apron. By reason of the presence of the springs combined with said rollers, a yielding pressure will be exerted upon the clothes, and it necessarily follows that the rollers will rise and fall according to the inequalities or varying thickness of the clothes placed upon the apron. As the clothes are carried between the rollers they are subjected to the rubbing action of the same without being brought in direct contact therewith, thus obviating to a great extent the tearing off of buttons. The attached

flap or sheet will prevent the displacement of the clothes placed between it and the apron, and for this reason the former can be repeatedly carried between the rollers and through the suds or water until they are thoroughly washed.

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

10 In a washing-machine, the pivoted frame K, carrying rollers J N, the pivoted frame L, carrying fluted roller M and provided with bent

rods P and springs O, the guide-roller I, and corrugated spring-pressed roller E, in combination with the suds-box and the traveling apron, having cloth retaining-flap, as and for the purpose set forth.

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

WILLIAM T. FUSON.

Witnesses:

R. M. ELLIOTT,

ELIAS F. WIDNER.