

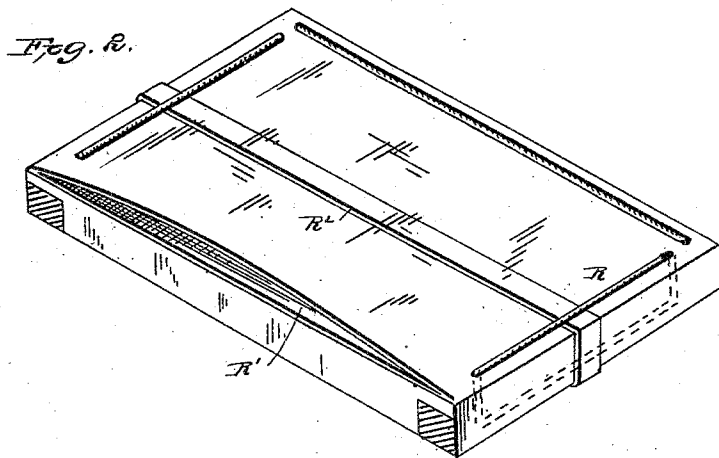
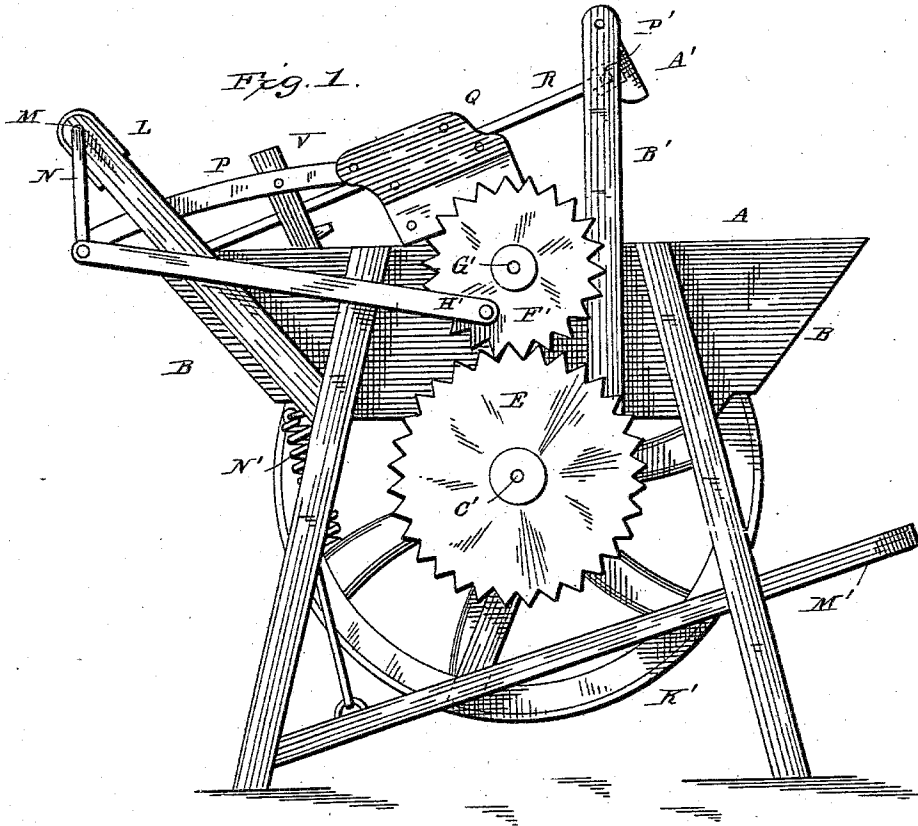
(Model.)

2 Sheets—Sheet 1.

A. JACKSON.  
WASHING MACHINE.

No. 295,401.

Patented Mar. 18, 1884.



Witnesses.  
 Edwin L. Jewell  
 J. J. McCarthy.

Inventor.  
 A. Jackson.  
 C. M. Alexander.  
 Attorney.

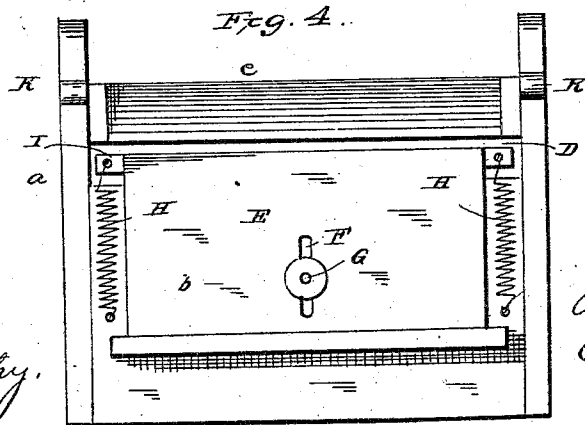
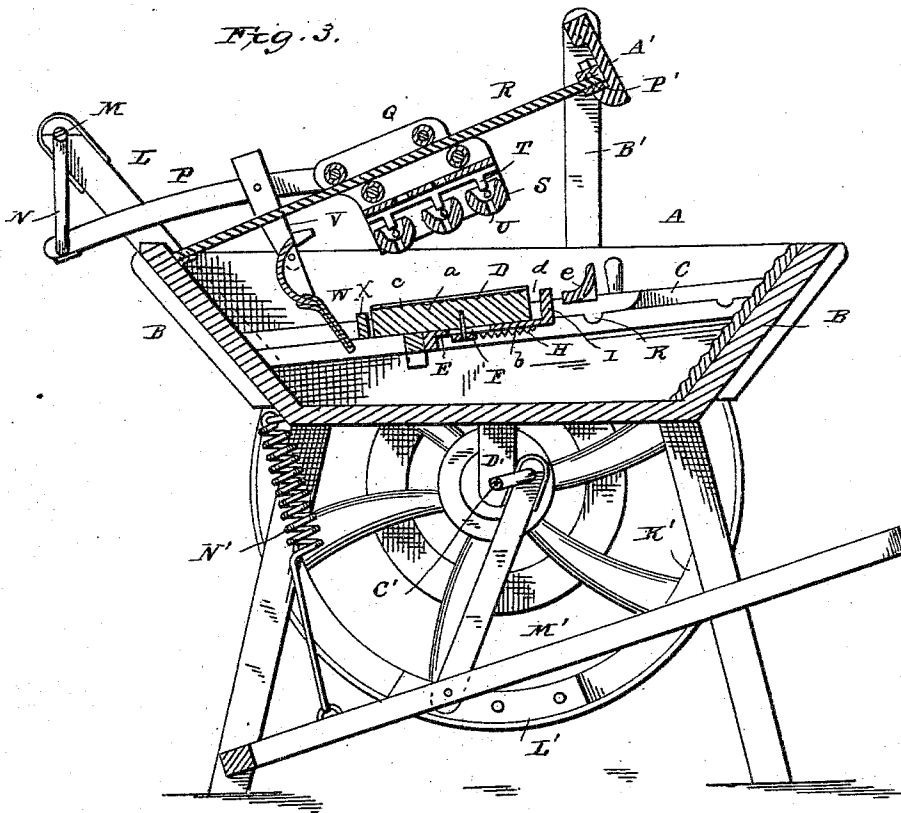
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# UNITED STATES PATENT OFFICE.

ADOLPHUS JACKSON, OF FREDERICK, MARYLAND.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 295,401, dated March 18, 1884.

Application filed April 2, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, ADOLPHUS JACKSON, a citizen of the United States, residing at Frederick, in the county of Frederick and State of Maryland, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in washing-machines; and it has for its objects to provide a machine which in its operation will subject the material to be washed to an action similar to the ordinary manipulation, so as to work the material while it is subjected to the action of the water and suitable deterative agents, and provide for thoroughly and uniformly cleansing the same.

The invention has also for its object to provide a machine which may be conveniently operated by any suitable motive power without inconvenience to the operator, as more fully hereinafter specified.

These objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a side elevation of my improved washing-machine; Fig. 2, a perspective view of an improved wash-board, formed with a pocket to receive light and valuable material; Fig. 3, a vertical sectional view of the machine; and Fig. 4, a view showing the lower side of the wash-board, the same being detached from the machine.

The letter A indicates the wash tub or vessel, which is rectangular in horizontal section, and is provided with inclined ends B. On opposite sides of the vessel or tub on the inside are located the inclined rabbeted supports C, which serve as a rest for the sides of the detachable wash-board D. The said wash-board is formed in two parts, *a b*, the upper one, *a*, of which has a corrugated upper surface, *c*, and a transverse slot, *d*, back of which is situated a rail, *e*, curved on its upper surface, for the purpose hereinafter explained. The lower portion of said board consists of a flat plate, E, which is slotted at F, and is secured to the upper portion of the board by means of a bolt, G, in such manner that it will be capable of a slight longitudinal movement, and to the said movable lower portion are secured the springs

H, which are also secured to the upper part of the board. The said lower movable portion is provided with a ledge or vertical flange, I, at its rear, which sets up through the slot in the upper portion of the wash-board, and serves to clasp and hold the article to be washed at one end, the other end being held between the lower edge of the wash-board and a transverse bar, X, set across the interior of the wash tub or vessel. The wash-board is provided with lugs K, which are adapted to set into recesses in the inclined supports before mentioned, and hold the board in place. At the rear of the apparatus are located the inclined standards L, in which are formed bearings for a rock-shaft, M, which is formed with cranks N, to which are connected the pitmen P, which are also connected to a reciprocating frame, Q, which is arranged to travel upon a hinged board, R, pivoted at its rear to the rear of the tub or wash-vessel. The said frame is provided with a series of transverse rubbers, S, which are semi-cylindrical in shape, and which are pivoted at their ends in the sides of the frame. The said frame is provided with downwardly-projecting lugs T, which set in the concave portions of the rubbers and cause the said rubbers to make a quarter revolution or oscillation as they are traversed over the material clamped to the wash-board. The said rubbers are perforated at intervals, as indicated by the letter U, in order to permit the water to be forced through said fabric as the rubbers are reciprocated over the same. To the pitmen are secured the hangers V, between which is pivoted a dasher or agitator, W. The said dasher is arranged to swing freely on its supports in such manner as to force the water forward on its forward stroke, and yield on its backward stroke, so as to create no reaction. The letter A' indicates a pawl pivoted to a transverse arm extending from the vertical standards B', secured to the body of the tub or vessel. The said pawl is adapted to engage the forward end of the swinging board and hold the same and the rubber in an elevated position above the wash-board when required, for the purpose of permitting the insertion of articles to be washed from time to time, as may be required.

The letter C indicates a transverse shaft journaled in hangers D', secured to the body

of the tub or vessel. At one end the said shaft is provided with a cog-wheel, E', which intermeshes with a cog-wheel, E'', mounted on a short stud, G', secured to the body of the apparatus, or a suitable bracket attached thereto. 5  
 The said wheel is provided with a wrist-pin, H', which connects with a crank, N', on the rock-shaft, M, whereby motion may be transmitted to the same and the washing-rubber of the machine. The said wrist-pin may be provided with a handle, by means of which the apparatus may be operated by hand, if desired. 10  
 Upon one end of the said shaft is mounted a fly or balance wheel, K', which is provided with a grooved pulley, by means of which power may be transmitted to the apparatus from a suitable motor. The said balance-wheel is weighted at a suitable point, as indicated by the letter I', to carry it past a dead-center and hold the parts in position ready to be started upon the application of power. 15  
 The letter M' indicates a treadle, pivoted to the rear lower part of the machine. This is connected by a link to a crank on the transverse driving-shaft, by which said shaft may be operated by foot-power. The said treadle has connected to it one end of the spiral spring N', the upper end of which may be connected to the lower part of the tub or vessel and elevate the treadle, and thus relieve the exertion of the operator in the upward movement of the same. The front of the tub on the inside is corrugated, so as to form a wash-board, by means of which articles may be washed or finished by hand when desired. The swinging board at its forward end may be provided with handles P', by means of which the rubber may be manually pressed upon the articles 20  
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 30  
 35

to be washed when the same are unusually heavy. In the case of light or delicate fabric—such as lace and similar material—the wash-board is provided with an envelope or pocket, R', of fibrous woven fabric, which is confined at the edges and at intermediate points by means of bands R<sup>2</sup>, the material to be washed being placed inside the envelope or pocket, and thus prevented from coming in direct contact with the rubbing-surfaces. 40  
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By means of the swinging board it will be seen that the rubber may be elevated during the operation of the machine without stopping the same for the insertion of new material from time to time. 50

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is— 55

1. The combination, with the tub A, provided with inclined rabbeted supports C, of the wash-board consisting of the parts *a b*, the upper one of which is provided with a slot, *d*, and a rail, *e*, the lower one being slotted and secured to the upper part by means of a bolt, G, and provided with springs H, and ledge I, and the rubber Q, and mechanism for operating the same, substantially as and for the purposes specified. 60  
 65

2. The combination, with the frame Q, provided with lugs T, of the concave rubbers S, perforated as described, substantially as and for the purposes specified. 70

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

ADOLPHUS JACKSON.

Witnesses:

J. J. MCCARTHY,  
 H. J. ENNIS.