(No Model.)

G. D. McILVOY.

WASHING MACHINE.

No. 457,428. Patented Aug. 11, 1891.

Fig. 1.

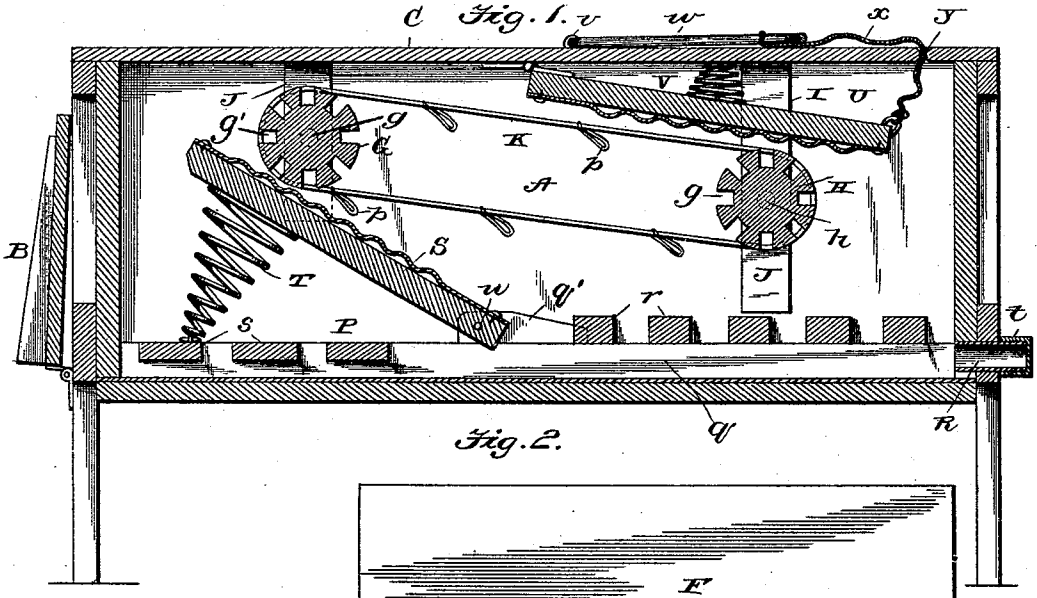


Fig. 2.

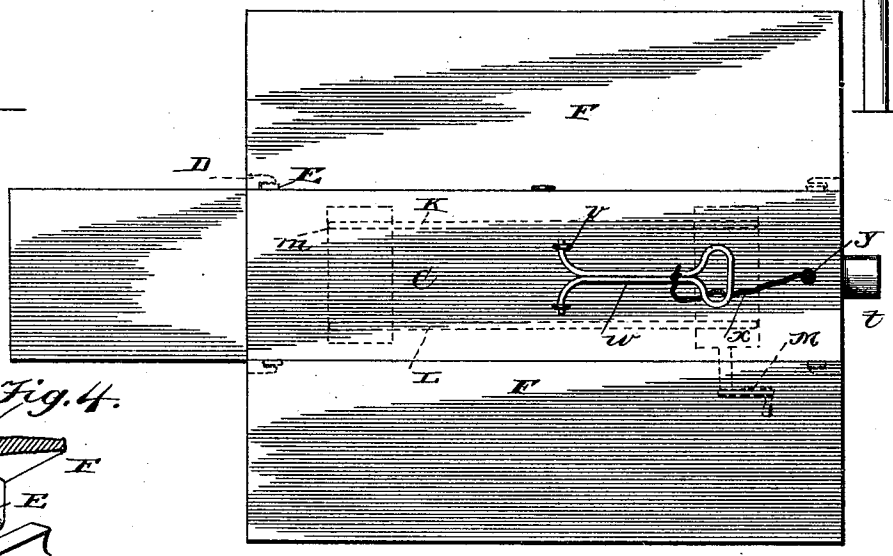


Fig. 4.

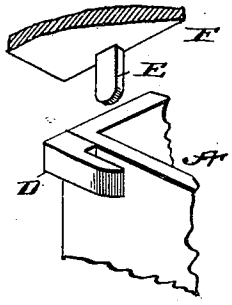
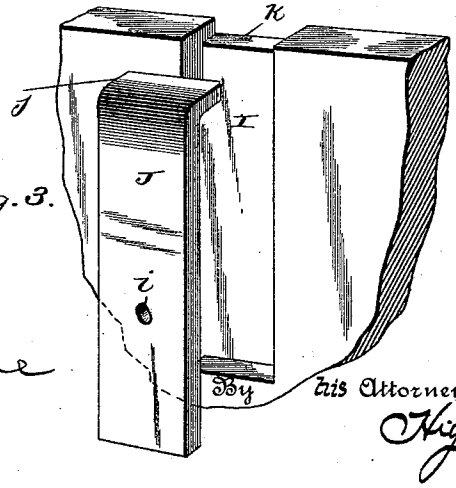


Fig. 3.



Witnesses;

John Donnue

L. J. Higdon.

Inventor:

G. D. McIlvoy

By his Attorneys

Higdon & Higdon

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE D. McILVOY, OF CARROLLTON, MISSOURI.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 457,428, dated August 11, 1891.

Application filed April 20, 1891. Serial No. 389,630. (No model.)

To all whom it may concern:

Be it known that I, GEORGE D. McILVOY, of Carrollton, Carroll county, Missouri, have invented certain new and useful Improvements in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to washing-machines; and it consists in the peculiar combination and arrangement of parts, as will be fully hereinafter described and claimed.

In the accompanying drawings, forming a part of this application, and in which like letters refer to corresponding parts throughout the several views, Figure 1 is a central longitudinal sectional view of my machine complete. Fig. 2 is a top plan view thereof. Fig. 3 is a detail view in perspective of the bearings in which the rollers are journaled. Fig. 4 is a detail view showing the means by which the extension-leaves are secured to the body of the machine.

Referring to the drawings by letter, A indicates the body portion of the machine provided at one end with a hinged leaf or shelf B and a cover C.

On each side of the upper part of the body portion of the machine are located two hooked projections D, which are adapted to be engaged by projections E of the extension-leaves F. Said leaves F are about the same size as the cover of the machine, and when secured in proper position the plane of their upper surface coincides with that of the cover C, thereby forming a table, which may be used for any convenient purpose when it is not desired to make use of the washing-machine as such.

Rollers G and H, provided with longitudinal corrugations g', are journaled within the tank or body portion of the machine, one at a point about midway between the top and bottom and the other slightly higher. Vertical grooves I are formed in the sides of the tank, two on either side, and are adapted for the reception of bearing-plates J. These plates have right-angled offset portions j at their upper ends, which offset ends are adapted to rest in recesses k, formed in the upper edge of the sides of the tank. The plates J are made to fit the vertical grooves exactly, but are not fastened therein, for it may become desirable to remove them, as will be hereinafter described. The rollers G and H are provided with axles g and h, respectively, and these axles are journaled in apertures i in the plates J. Annular grooves m are formed in each end of the longitudinally-grooved rollers, as illustrated in dotted lines in Fig. 2, and endless cords K and L work in these grooves m, thus connecting the rollers in the manner illustrated, so that by application of power to one of the axles of the rollers by means of a crank M, or otherwise, both rollers are revolved. Each of the cords is provided with loops p at suitable intervals, to which the articles of clothing may be attached for washing.

In the bottom of the tank is placed a removable slatted frame P, consisting of longitudinal bars q, to which are attached cross-bars r and s. This frame is for the purpose of keeping the clothes to be washed off the bottom of the tank, where the dirt will settle. A short tube R leads from one end of the tank for the escape of the water, and a cap t is adapted to be screwed on the outer end of this tube for closing the same when desired. Lugs or projections q' are formed on the longitudinal bars q, (one of which bars is located on either side of the slatted frame,) and a wash-board S is secured in these lugs by means of a pivot u. A coiled spring T, secured at its lower end to one of the slats s, bears on the under side of the upper end of this wash-board, and thus holds it in an inclined position, as illustrated, and presses it against the roller G. A similar wash-board U is hinged to the under side of the cover C, and is pressed against the roller H by means of a coiled spring V. Staples v are inserted in the upper side of the cover, and a handle w is held in position thereby, so that it is free to be moved and either folded down flat on the cover or placed in an upright position.

To one end of the board U is secured a cord x, which passes through an aperture y in the cover and connects with the handle w. This construction is rendered necessary because of the fact that the wash-boards are made of about the same width as the interior of the tank, and the one hinged upon the cover would be wrenched from its support upon lifting the said cover if it were to remain in the

inclined position shown in the drawings. By means of the cord attached to the handle the board U can be raised until it is flat with the cover, or nearly so, whereby the operator may raise the said cover with ease.

In operation the clothes are attached to the loops of the cords, as before intimated, and the rollers revolved by means of the crank M. The clothes will thus be brought into contact with the wash-boards which bear against the rollers and be cleaned. As the bearing-plates are removable, the cover may be raised and the rollers lifted out, together with their bearings, and cleaned when necessary. The slatted frame carrying the lower wash-board, also being removable, can be taken out for a similar purpose.

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

1. In a washing-machine, a tank or body portion, rollers journaled therein, endless cords having loops connecting the said rollers, a spring-pressed wash-board bearing against the under side of one of said rollers, and a second wash-board mounted in a similar manner on the under side of the cover and bearing against the upper side of the other roller, whereby by raising said cover the last-mentioned wash-board will be withdrawn from the machine, substantially as described.

2. In a washing-machine, a tank or body portion, a slatted frame in the bottom thereof, rollers journaled in the sides of the tank, cords connecting said rollers, loops on the said cords to carry the clothes, spring-pressed wash-boards bearing against the rollers, one of said wash-boards being hinged to the cover of the machine, a handle upon the upper side of the said cover, an aperture in the cover, and a cord connecting the last-mentioned board with the handle, substantially as described.

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

GEORGE D. McILVOY.

Witnesses:
B. F. SATTERFIELD,
GEO. W. CAIN.