N. T. WORTHLEY.

Improvement in Washing-Machines.

No. 127,133. Patented May 21, 1872.

Fig. 1.

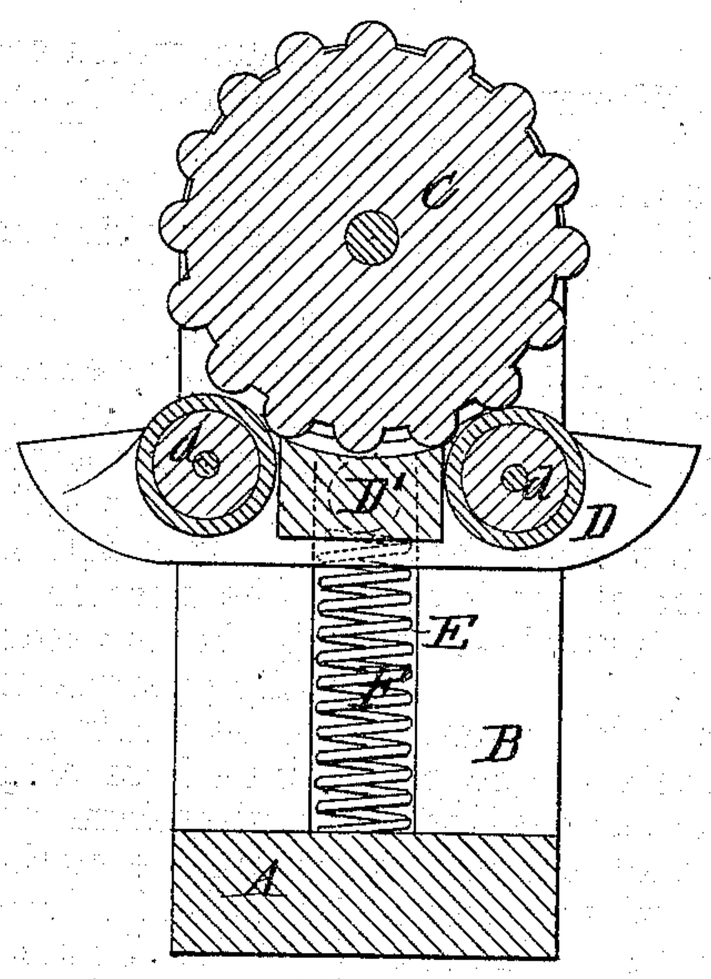
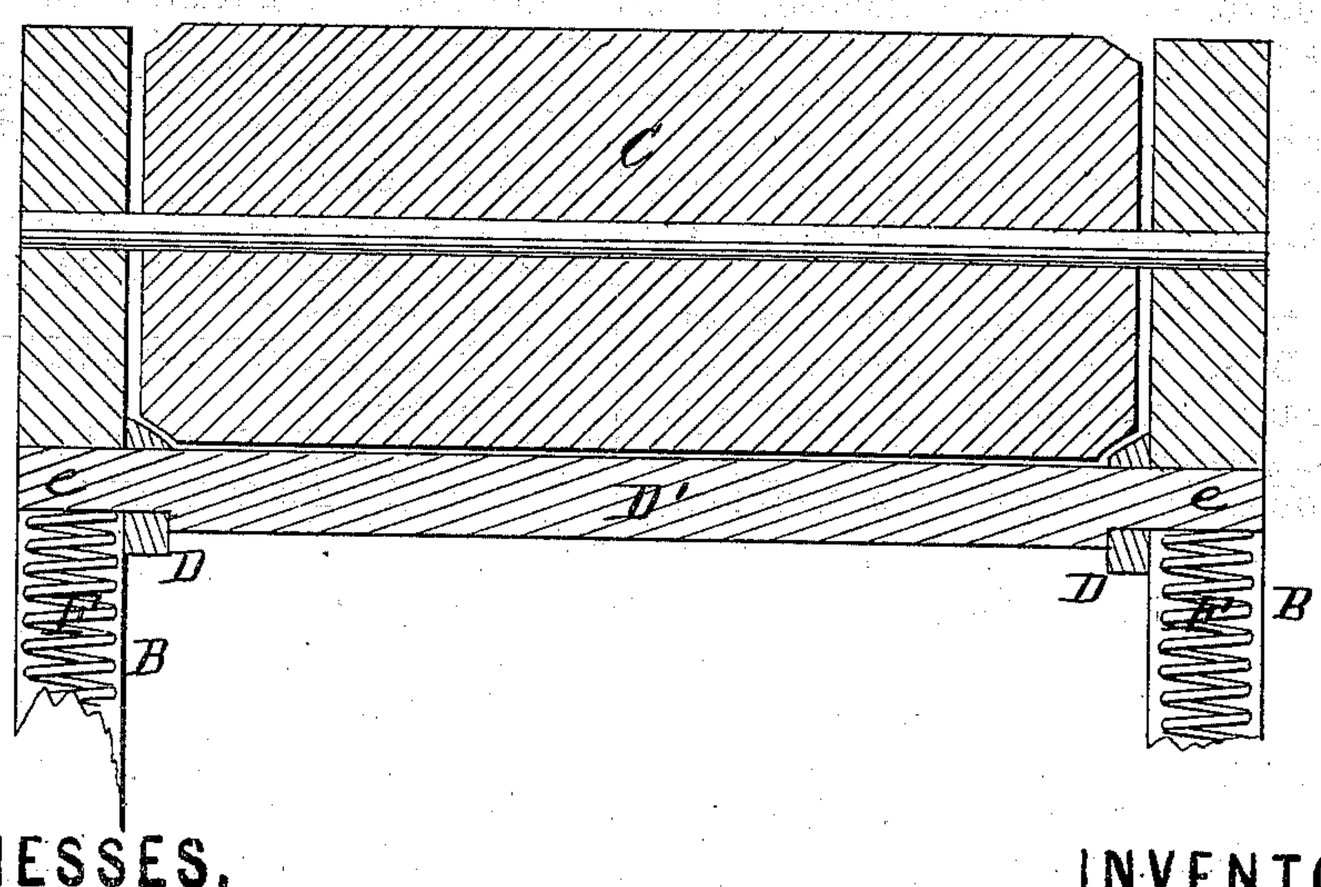


Fig. 2.



WITNESSES.

G. E. Upham,

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127,133

UNITED STATES PATENT OFFICE.

NATHANIEL T. WORTHLEY, OF BRUNSWICK, MAINE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 127,133, dated May 21, 1872.

To all whom it may concern:

Be it known that I, N. T. WORTHLEY, of Brunswick, in the county of Cumberland and State of Maine, 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical transverse section of my invention. Fig. 2 is a vertical longitudinal central section of the same.

My invention has relation to washing-machines; and the novelty consists in the construction and arrangement of an oscillating frame carrying two or more small feed-rollers, which are used in connection with and are actuated by a large corrugated roller. The oscillating frame is sustained by spiral springs, and allows the rollers to adapt themselves to the thickness or bulk of the clothes. The frame is allowed to oscillate in order that the feeding and passing through of the clothes may be accomplished with greater facility than when the roller-frame is rigid or has only a vertical play.

Referring to the drawing, A represents a base-board; B B, two slotted uprights; C, a large corrugated roller journaled to the uprights B, and rotated by a crank-arm. Underneath said roller is arranged the oscillating frame, which consists of the two side-bars or rockers D D, and the concave bar D′ connecting them. To these rockers are journaled the India-rubber covered rollers *d*, arranged one on either side of the bar D′, as shown. The ends of the bar D′ project into and through the slots E and rest on spiral springs F. The projecting ends *e* are rounded so that the frame may oscillate easily. The springs keep the frame in position, but give, according to the bulk of the clothes. The clothes pass between the large and small rollers. To enable them to be inserted between the rollers one side of the frame needs only to be tilted. This oscillating peculiarity, besides allowing the clothes to be easily inserted, also prevents the machine from clogging, besides preventing the clothes from being injured. The bar D′ prevents the clothes from being wound around the small rollers.

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

The oscillating frame, consisting of the rockers D and connecting-bar D′, and carrying the rollers *d d*, in combination with the grooved or corrugated roller C and springs F, substantially as specified.

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

NATHANIEL TRUE WORTHLEY.

Witnesses:

ROBT. B. DUNNING,

C. C. HUMPHREYS.