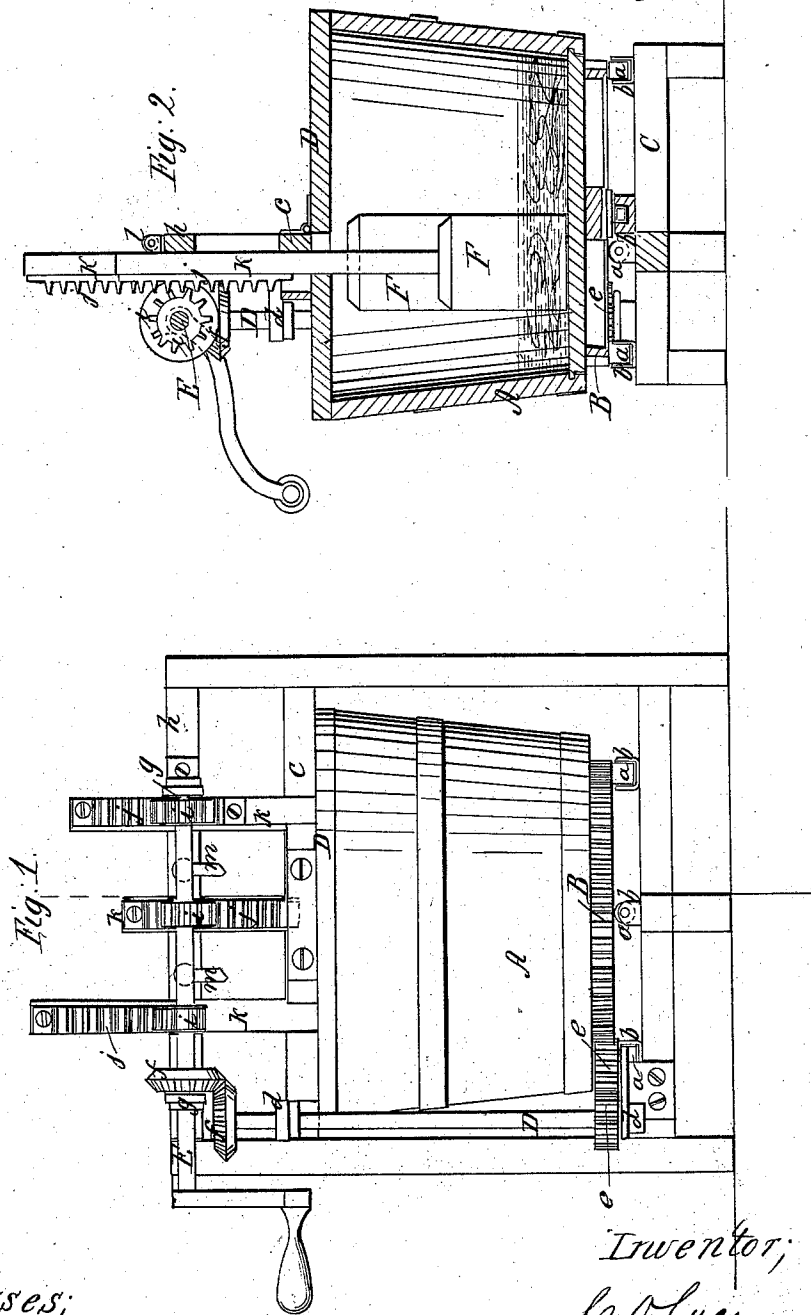


C. O. Luce,
Washing Machine,
N^o 32,336. Patented May 14, 1861.



Witnesses;
J. W. Coombs
R. S. Spencer

Inventor;
C. O. Luce
per Munn & Co.
Attorneys

UNITED STATES PATENT OFFICE.

C. O. LUCE, OF BRANDON, VERMONT, ASSIGNOR TO HIMSELF, F. M. STRONG, AND I. F. ESTABROOK, OF SAME PLACE.

WASHING-MACHINE.

Specification of Letters Patent No. 32,336, dated May 14, 1861.

To all whom it may concern:

Be it known that I, C. O. LUCE, of Brandon, in the county of Rutland and State of Vermont, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a front elevation of my invention. Fig. 2 is a vertical central section of the same.

Similar letters of reference in both views indicate corresponding parts.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation with reference to the drawing.

The tub A is provided with a toothed ring B which is firmly attached to its bottom and which rests on friction rollers *a*. These rollers have their bearings in small standards *b*, that are secured to the frame C as clearly shown in the drawings. The cover D of the tub is secured to the cross-bar *c* of the frame at such a distance above the tub, that it covers the same perfectly without obstructing its rotary motion and a portion of the cover is hinged so that it can be opened for the purpose of introducing and taking out the clothes.

Motion is imparted to the tub by means of the vertical arbor D which has its bearings in lugs *d* secured to the frame C and which connects with the toothed ring *b* by means of pinions *e*. It receives its motion through a bevel gear *f* from the horizontal driving shaft E, which has its bearings in lugs *g*, attached to the top bar *h* of the

frame C. The shaft E carries a series of pinions *i* which gear into toothed racks *j*, that are secured to the top ends of the stems *k* of the pounders or beaters F. The stems *k* are guided by notches cut into the cross bar *c* and top bar *h* of the frame C and the pounders are placed on one side of the tub for the purpose of facilitating the handling of the clothes. As the tub rotates the clothes are brought successively under the pounders. The pinions *i* which impart motion to the pounders, have a portion of their teeth cut away to give the pounders time to descend and they are so arranged on the driving shaft E that they act alternately or one after the other on the stems *k*, and the motion of these stems is facilitated by friction rollers *l* that are secured to the upper surface of the top bar *h*. The pounders F may be kept up by dogs *m* that are hinged to the front side of the top bar *h*, whenever it is desired to clean the tub and to put in or take out the clothes.

The operation of this machine is very easy. It can be cleaned without difficulty and all its parts are so constructed that they do not easily get out of order.

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

The arrangement of the racks *j*, pinions *i*, shaft E, and rollers *l* with the stems *k*, pounders F, rotary tub A, shaft D and gearing *f*, *g*, *e*, *e*, B, all as herein shown and described for the purposes set forth.

C. O. LUCE.

Witnesses:

AARON A. NICHOLSON,
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