

(91.)

ARA PAINE.

Improvement in Washing Machines.

No. 122,331.

Fig 1

Patented Jan. 2, 1872.

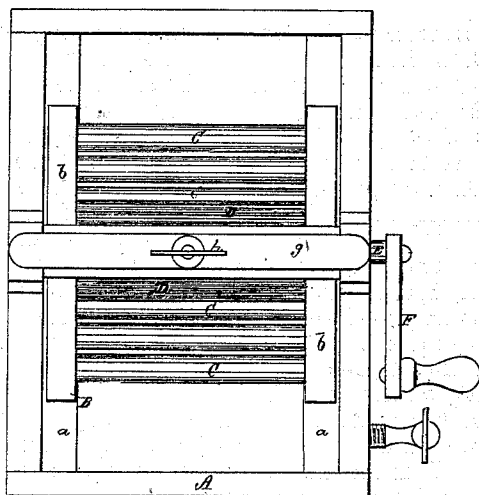


Fig 3.

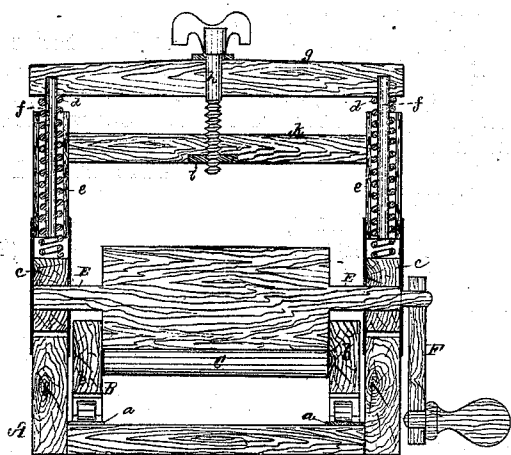
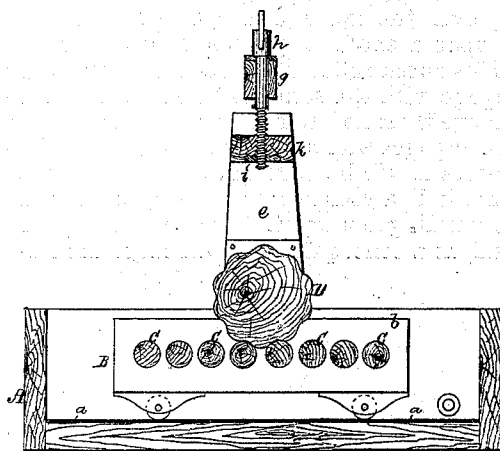


Fig 2.



Witnesses

S. N. Piper.

L. N. Moller.

Ara Paine.

by his attorney.

R. H. Ledy

UNITED STATES PATENT OFFICE.

ARA PAINE, OF BURRILLVILLE, RHODE ISLAND.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 122,331, dated January 2, 1872.

To all persons to whom these presents may come:

Be it known that I, ARA PAINE, of Burrillville, of the county of Providence, of the State of Rhode Island, have invented a new and useful Improvement in Machinery for Washing Clothes; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a top view; and Fig. 2, a longitudinal section; and Fig. 3, a transverse section of my improved washing-machine.

In such drawing, A denotes a rectangular tub, having within it a movable carriage, B, provided with supporting-wheels to enable it to be moved longitudinally on the bottom of the tub, or in metallic rails *a a* arranged therein parallel to each other. This carriage B carries a series of rollers, C C C, arranged over it and between two cheeks, *b b*, erected on or making part of the said carriage, each roller being pivoted in the cheeks or so supported as to be capable of freely revolving transversely. Directly over the carriage is a fluted roller, D, fixed upon a shaft, E, provided with a crank, F. This fluted roller is to be constructed so as to engage with the series of rollers beneath it and move them and their carriage as a toothed pinion engages with and moves a toothed rack. Therefore it will be seen that, by imparting to the crank F a reciprocating rotary motion, a corresponding motion will be given to the roller D, and, as a consequence, it will cause the car-

riage and its set of rollers to have a reciprocating rectilinear motion within the tub. The boxes or bearings *c c*, in which the shaft E is supported, are to be movable vertically, and provided with springs *d d* for pressing them downward. These springs are arranged within the posts *e e* (which sustain the said boxes) and around rods *f f* extending down from a cross-bar, *g*, resting on the tops of the springs. A screw, *h*, going down through the middle of the bar *g* and being screwed into a nut, *i*, (fixed to a cross-bar, *k*, extended from one part, *e*, to the other, as shown,) serves to regulate the pressure of the springs on the boxes.

If we suppose the tub to be supplied with water impregnated with soap, and an article of clothing or bed-linen is to be washed, we have only to place the article on the rollers of the movable carriage and to give such carriage a reciprocating rectilinear motion. The clothes, by such a mode of operation, will soon be washed.

In the above-described machine I claim as my invention as follows:

The movable carriage B and its series of rollers C and the fluted roller D, constructed and arranged together and with the tub A, substantially in manner and so as to operate as described.

ARA PAINE.

Witnesses:

R. H. EDDY,
J. R. SNOW.

(91)