

G. SCHATZ & J. ZIMMERMAN.

Washing-Machines.

No. 133,670.

Patented Dec. 3, 1872.

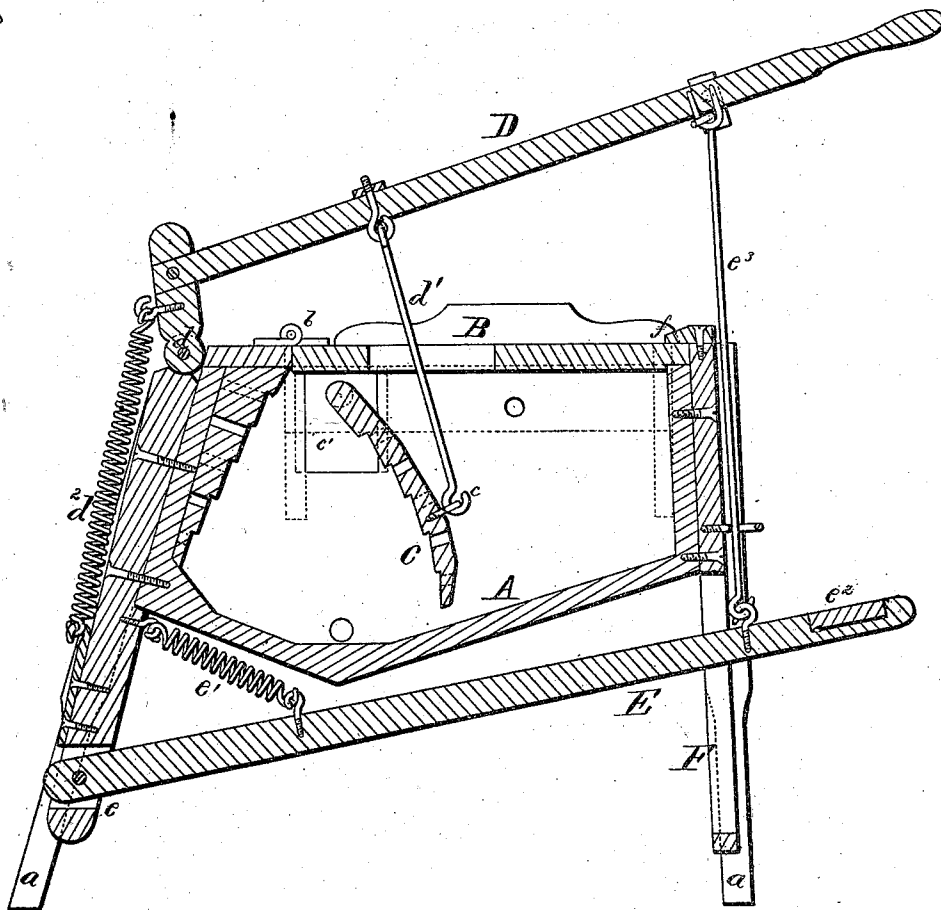


Fig. 1.

WITNESSES.

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INVENTORS

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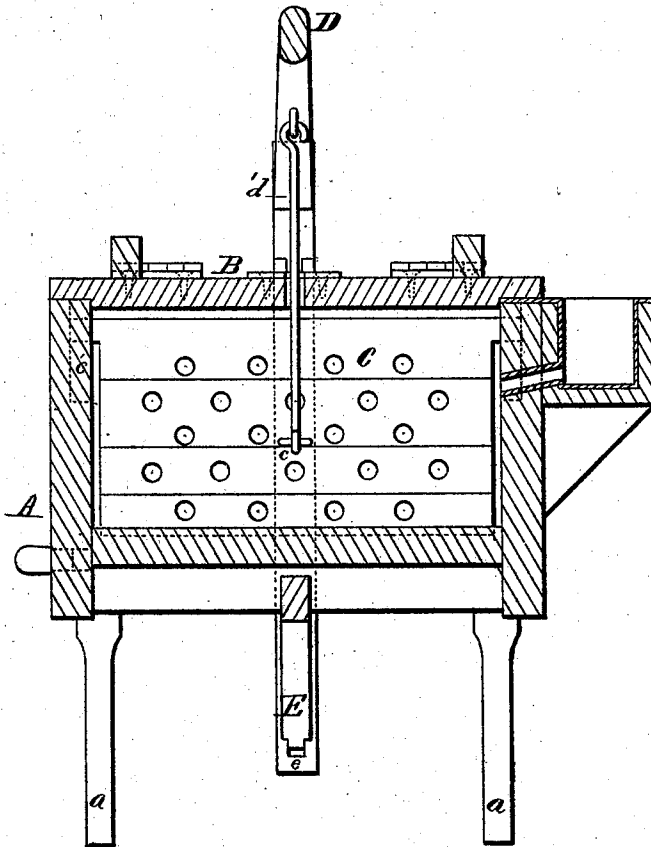


Fig. 2.



Fig. 3.

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UNITED STATES PATENT OFFICE.

GEORGE SCHATZ AND JOHN ZIMMERMAN, OF GRATER'S FORD, PA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 133,670, dated December 3, 1872.

To all whom it may concern:

Be it known that we, GEORGE SCHATZ and JOHN ZIMMERMAN, of Grater's Ford, in the county of Montgomery and State of Pennsylvania, have invented a new and valuable Improvement in Washing-Machines; and we 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 longitudinal section of our invention. Fig. 2 is a transverse section of the same; and Fig. 3 is a detail view.

Our improvements have reference to that class of washing-machines in which there is a swinging or reciprocating dasher; and they consist in the construction, combination, and arrangement of the several parts as herein fully described.

In constructing a washing-machine with our improvements, we provide a suitable box set upon legs. We use a pivoted or swinging dasher, so arranged that it can readily be removed from the box, and we connect this dasher by a rod to a pivoted spring-lever in such manner that when the lever is released the lid of the washer is held back or open. We also provide a trough or rest for the wringer, which we locate upon the side of the box, said trough communicating by a suitable opening with the inside of the washer, to permit the return thereto of the water wrung from the clothes. The lever by which the dasher is operated is pivoted at the rear of the machine. It is connected by a metallic rod with the dasher, and is attached to a suitable spring by which it is drawn back. We have also provided a treadle attachment by which the dasher can be operated in connection with the lever.

In the drawing, A represents the box of the machine having legs *a a*, and a lid, B, which is pivoted at *b*. C is the dasher, swiveled at *c*, and having bearings in blocks *c'*, which fit in suitable recesses in the sides of the box. These blocks are secured in place by screws *c''*, on

withdrawing which the dasher may be readily lifted out of the box. D is a lever pivoted at *d*, and connected by a rod, *d'*, with the dasher. This lever is also attached to a spring, *d''*, by which the upward motion for the dasher is obtained. This spring may be coiled, as shown, or it may be of India rubber. E shows a treadle pivoted at *e*, having a spring, *e'*, coiled or of India rubber, by which it is drawn upwardly. It is provided with a foot-rest, *e''*, moves in the guide F, and is connected by a stiff rod, *e'''*, with the lever D.

When it is desired to open the washing-machine the rod *e'''* is disconnected from the lever D and is held down by the button *f*, which serves to keep the lid closed when the machine is in operation. The lever, being released from the rod, is drawn back by the spring *d''*, elevating the lid and dasher, as shown in the drawing.

G shows the wringer-rest, which is a trough secured to the side of box and communicating with the same by a suitable opening, as already suggested.

It will be observed that by locating the springs at the rear of the machine instead of at the front a greater leverage is obtained, whereby the dasher may be more easily worked.

The inner surface or floor and back of the machine may be suitably corrugated. The dasher is ribbed, as shown, and is provided with holes for the passage of the water.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the dasher C, rod *d'*, lever D provided with a spring, *d''*, located at the rear of the box A, the treadle E with spring *e'*, and the rod *e'''*, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

GEORGE SCHATZ.
JOHN ZIMMERMAN.

Witnesses:

M. DANL. CONNOLLY,
JEROME MCTIGHE.