J. W. SPANGLER & B. F. REICH.

Washing-Machines.

No. 133,956. Patented Dec. 17, 1872.

Fig. 1.

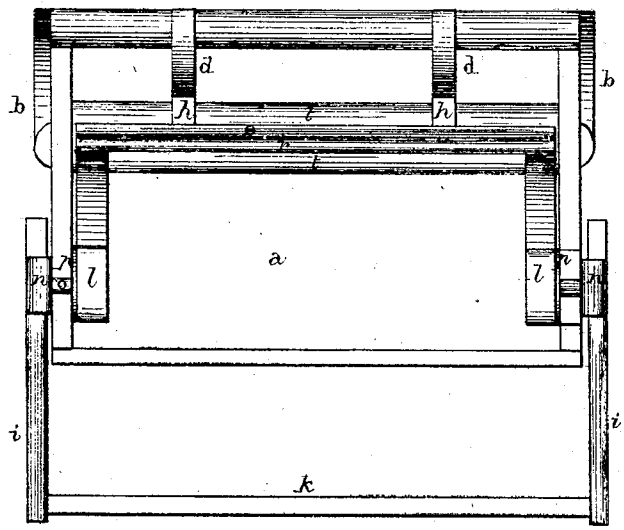
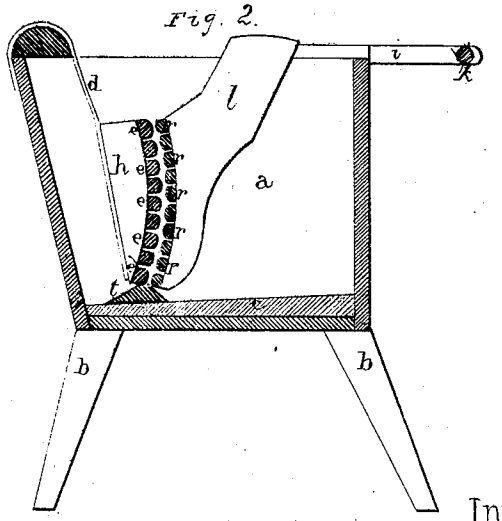


Fig. 2.



Witnesses.
Wm. H. Dishamel
Alex S. Davidson

Inventor:
Jacob W. Spangler
Benjamin F. Reich.
by A. L. S. Abbot
attorney

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JACOB W. SPANGLER AND BENJAMIN F. REICH, OF YORK, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **132,956**, dated December 17, 1872.

To all whom it may concern:

Be it known that we, JACOB W. SPANGLER and BENJAMIN F. REICH, of York, county of York and State of Pennsylvania, have jointly invented certain new and useful Improvements in Washing-Machines, of which the following is a specification:

The nature of our invention consists in the construction of a washing-machine, simple and effective in operation, and which is adapted equally well for washing large or small articles; and it consists in the combination and arrangement of parts which will be more fully set forth hereafter.

Figure 1 is a plan view of my invention. Fig. 2 is a section of the same.

a represents the box or frame of our machine, which may be of any desired shape or form, and which rests upon the legs *b*. In the bottom of this box is placed a false perforated bottom, *c*, which inclines downward toward the wash-board, as shown in Fig. 2. Secured to the back part of the box, and curving over down into it, are two or more springs, *d*, to which the wash-board is fastened. This board consists of a number of thin slats, *e*, secured to the blocks *h* so as to present a rounded surface to the washer, the slats being either faced with rubber or not, just as may be desired.

By constructing the wash-board in this manner it has a free downward and backward movement, is very elastic, and presents a rubbing-surface which is equally adapted for washing the smallest or largest articles.

Pivoted to the upper part of the box are the two levers *i*, which are united at their outer ends by the handle *k*. These levers are adjustable, and connected to the downwardly-projecting legs *l* by the casting, Fig. 1, which consists of a suitable socket, *n*, for the ends of the levers, and the connecting-bar *o*, which is fastened to the sides of the legs *l* by the plate *p*. To these legs are secured the slats *r* in a slightly concave form, which form the washer, and which may be also faced with corrugated rubber, if so desired. Attached to the false bottom, and placed just between the washer and the wash-board, is a convex piece, *t*, of such a shape that these two in their movements just sweep over its surface, and which serves to keep the articles being washed up to the face of the wash-board.

By using slats on the washer and wash-board instead of a solid corrugated board we make them much lighter and cheaper, besides being more elastic and better adapted for washing fine articles. By constructing the handle in the manner described we obtain a greater leverage and make the washer more easily managed, so that by its slightest movement it produces a most excellent rubbing motion.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent of the United States, is—

1. The wash-board, when composed of the elastic slats *e* and springs *d*, substantially as described.

2. The false bottom *c* having convex pieces *t*, in combination with the washer and wash-board, substantially as specified.

3. The combination of the levers *i*, the castings *n o p*, legs *l*, and slats *r*, when combined to form a washer, substantially as shown.

In testimony that we claim the foregoing as our invention we hereunto affix our signatures this 13th day of November, 1872.

JACOB W. SPANGLER.
BENJAMIN F. REICH.

Witnesses:
JOHN A. WILSON,
D. FULTON.