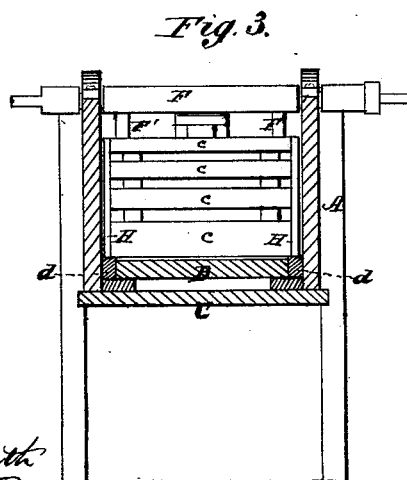
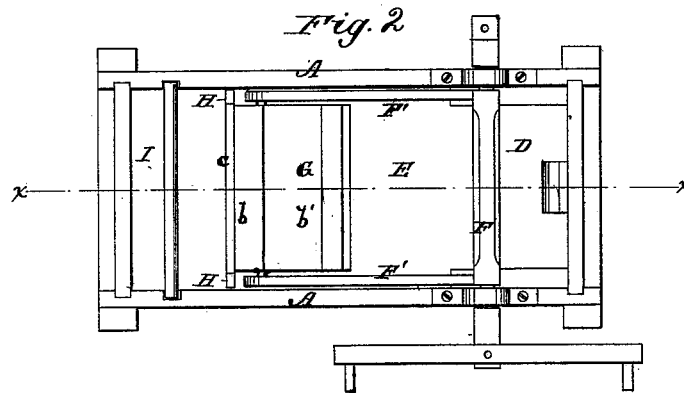
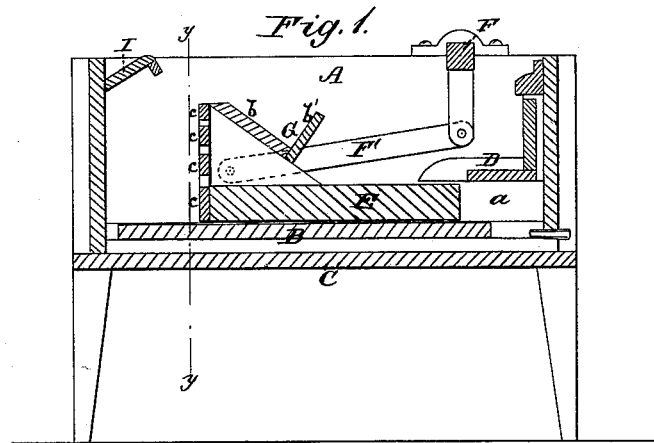


H. SMOOT.  
Washing-Machine.

No. 218,586.

Patented Aug. 12, 1879.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HARVEY SMOOT, OF MAURERTOWN, VIRGINIA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **218,586**, dated August 12, 1879; application filed July 16, 1878.

*To all whom it may concern:*

Be it known that I, HARVEY SMOOT, of Maurertown, in the county of Shenandoah and State of Virginia, 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.

My invention is an improvement upon the washing-machine constituting the subject of Letters Patent No. 127,075. In said washing-machine a reciprocating dasher or plunger alternately exerts mechanical pressure on the clothes, and changes their position by the force of the reactive flow of water.

My improvement pertains to a trough like support, receptacle, or holder for the clothes while being soaped, and after having been washed.

In the accompanying drawings, Figure 1 is a longitudinal section of my improved washing-machine on line *xx* of Fig. 2. Fig. 2 is a plan view. Fig. 3 is a cross-section on line *y* of Fig. 1.

The box *A* of the machine is provided with a fixed false bottom, *B*, which is raised a short distance above the true bottom *C*. A narrow board or partition, *D*, is fixed across one end of the box *A* at a distance above the false bottom *B* equivalent to the thickness of the rear end of the dasher *E*. This partition thus forms the top of a chamber, *a*.

The dasher is reciprocated by a rock-shaft, *F*, and connecting-rod *F'*. When the dasher advances it forces the clothes against the head of the box *A*, and on its return movement forces the water out of the chamber *a* and causes it to pass underneath the false bottom *B*, and up through the space between the front end of the latter and said end of the box. The result is that the water with which the clothes are saturated is, for the most part, forced out of them, and the clothes are raised and changed in position at each reciprocation of the dasher.

The feature of my improvement is the clothes-holder *G* attached to the upper side and front end of the dasher *E*. The same consists of inclined boards *b b'*, which are joined at their lower edges, where there is preferably a series of perforations (not shown) to permit the water to flow off rapidly.

The function of the holder *G* is to furnish a convenient support or receptacle for the clothes while being soaped, or while being inspected for the purpose of determining the extent to which the cleansing process has advanced, and for selecting and removing such pieces as have been cleansed, or for holding the whole body of washed clothes preparatory to passing them through the wringer.

The inclined part *b* extends forward to the edge of the vertical face of the dasher, so that no space or opening is left, through or into which articles of clothing can fall or become lodged while being raised out of the suds and deposited in the trough *G*.

Vertical end bars *H* are attached to the horizontal cross-bars *c*, forming the vertical head of the dasher *E*. Said end bars *H* prevent the clothes being torn or otherwise injured by being caught or wedged between the ends of the cross-bars *c*, and between them and the sides of the box *A*, as they tend to do in the patented machine before referred to.

A shelf or board, *I*, is placed at the head of the tub *A* above the dasher, for the purpose of preventing the water splashing out of the box *A*, when the dasher forces the clothes against the head.

The board *I* is set inclined for the purpose of allowing the attachment of a wringer to said head of the box, and it is fitted to slide in grooves in the sides of the latter for the purpose of facilitating its detachment when required.

The dasher rests on rails or ways *d*, slightly raised above the false bottom *B* for the purpose of causing it to slide easily or with the least friction.

What I claim is—

The combination, with the dasher *E*, of the *V* or trough shaped clothes-holder *G*, formed of the inclined parts *b b'*, one of which, *b*, extends forward to the front or vertical face of the dasher, all as shown and described.

HARVEY SMOOT.

Witnesses:

AMOS W. HART,  
SOLON C. KEMON.