



# UNITED STATES PATENT OFFICE.

SQUIRE GAMBELL, OF OTISCO, NEW YORK.

## IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 45,990, dated January 24, 1865.

*To all whom it may concern:*

Be it known that I, SQUIRE GAMBELL, of Otisco, in the county of Onondaga and State of New York, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *x x*, Fig. 2; and Fig. 2 a front view of the same, partly in section.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved clothes-washing machine; and it consists in the employment or use of a suspended oscillating suds-box of semi-cylindrical form, in connection with a fixed or stationary dash-board attached to the suds-box, and with or without a wash-board, all being arranged in such a manner as to operate very efficiently and without injuring the clothes.

A A represent two uprights, which are attached to suitable bases, B B, and connected by cross-bars *a a*, and C is a semi-cylindrical suds-box formed of two semicircular sides, *b b*, with a semicircular bottom, *c* of zinc or other material, attached to it. This suds-box is suspended by pivots *d* between the uprights A A, and to one end of the suds-box there is secured a cylindrical bar, *e*, to serve as a handle. To the upper cross-bar, *a*, of the uprights A A there are secured two pendants, D D, which extend down within the suds-box C, and have a board, E, secured horizontally to their lower parts. This board E is perforated with holes *f* and its lower edge just clears the bottom *c* of the suds-box, and its ends just clear the sides of the latter.

Within the suds-box at the end where the handle or bar *e* is secured or attached, there is placed an inclined wash-board, F, fluted or corrugated like the ordinary hand wash-boards, and below the lower end of the wash-board F there are placed, one above the other,

a series of horizontal slats, *g*, as shown clearly in Fig. 1.

The suds-box is supplied with a requisite quantity of suds, and the clothes to be washed are placed within the suds-box between the board E and the horizontal slats *g*. The suds-box C is then oscillated and the clothes intermittingly compressed between the board E and slats *g*, the water or suds passing, as it is compressed from the clothes, between the slats *g* and the perforated board E. By this arrangement the clothes will be thoroughly washed without danger of being injured or torn, and the work done in a thorough manner.

To the lower part of one upright A there is attached by a pivot-bolt, *h*, a bar or lever, G, the opposite end of said bar working in a guide, *i*, attached to the other upright, and having a rod, *j*, secured to it, which extends up by the side of the upright. This bar or lever G has an upright lip, *k*, which, when the bar or lever G is held up, by fitting the upper end of the rod *j*, which is bent in hook form, in a hole in its uprights A, serves as a stop for the suds-box and holds the same in an inclined position, projections *l* on the exterior of the bottom of the suds-box catching against the lip *k*. Several of these projections *l* may be attached to the suds-box in order to hold the same in a more or less inclined position, either to rub clothes by hand on the board F or to allow the suds to escape from the suds-box through a hole, *a\**.

I claim as new and desire to secure by Letters Patent—

1. The oscillating suds-box A, provided with the horizontal slats *g* and wash-board F, in combination with the fixed or stationary dash-board E, all arranged substantially as and for the purpose set forth.

2. The pivoted bar G with upright lip *k*, attached in connection with the projections *l*, one or more, on the exterior of the suds-box, for the purpose specified.

Witnesses: SQUIRE GAMBELL.

JOHN C. HITCHCOCK,

JASON C. FRENCH.