

H. S. WILLIS.
Wash-Boards.

No. 219,053.

Patented Aug. 26, 1879.

Fig. 1.

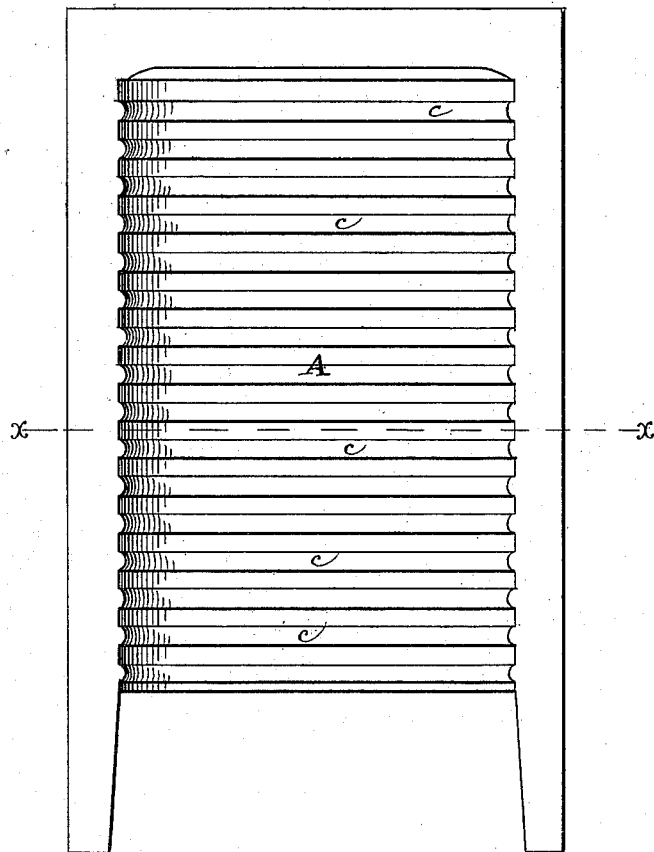
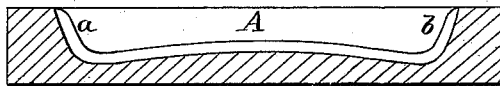


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY S. WILLIS, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN WASH-BOARDS.

Specification forming part of Letters Patent No. **219,053**, dated August 26, 1879; application filed March 11, 1878.

To all whom it may concern:

Be it known that I, HENRY S. WILLIS, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Wash-Board, of which the following is a specification.

Figure 1 is a front elevation of my improved wash-board. Fig. 2 is a transverse section taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

The wash-board may be made of any of the materials from which wash-boards are ordinarily made, (such as wood or zinc,) and its face *A*, which is corrugated or provided with transverse ribs *c*, is formed in a recess on a double-reversed curve, *a b*, the middle of the board being outwardly convex, while the portion lying between the convex middle portion and the edges are concave. The extreme edges project nearly at a right angle with the plane of the board, and are considerably more prominent than the middle convex portion of the board.

The transverse corrugations or ribs *c* traverse entirely the bottom wall and both the side walls of the recess in which the rubbing-surface is located, so that the rubbing of the clothes is made entirely against corrugated

surfaces, and there is no loss of labor, as when the side walls of a wash-board present smooth surfaces, the rubbing contact of which with the clothes has no cleaning effect.

I am aware that a wash-board having a concave or recessed rubbing-surface has long been known; but I am not aware that the inner surfaces of the side walls of such a wash-board have been traversed by extensions of the corrugations, so that the clothes being washed will come in contact only with a corrugated surface.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A wash-board having its rubbing-face formed in a recess the bottom wall and both side walls of which are entirely traversed by transverse corrugations, substantially as and for the purpose set forth.

2. A wash-board having its rubbing-face formed in a recess the bottom wall and both the side walls of which are entirely traversed by transverse corrugations formed on double-reverse curves, the ends of said corrugations projecting above, or in front of, the plane of the middle of the board, substantially as described.

HENRY S. WILLIS.

Witnesses:

C. SEDGWICK,
G. M. HOPKINS.