

G. MULLER.
WASH-BOARDS.

No. 184,651.

Patented Nov. 21, 1876.

Fig. 1.

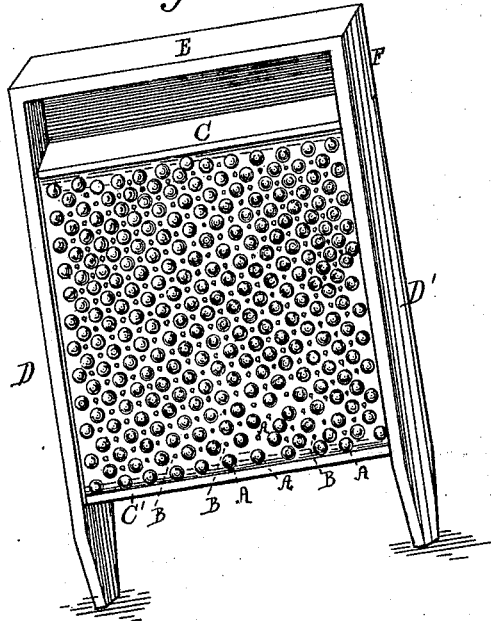
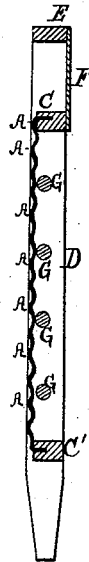


Fig. 2.



WITNESSES
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GEORGE MULLER, OF NEWPORT, RHODE ISLAND.

IMPROVEMENT IN WASH-BOARDS.

Specification forming part of Letters Patent No. **184,651**, dated November 21, 1876; application filed June 14, 1876.

To all whom it may concern:

Be it known that I, GEORGE MULLER, of Newport, in the county of Newport and State of Rhode Island, have invented certain new and useful Improvements in Wash-Boards; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improved construction of wash-boards, as a new article of manufacture; and consists of a sheet of zinc, having semi-spherical projections and countersunk perforations struck up through the medium of dies and punches, and adapted to be fitted to a wooden frame, in the manner and for the purposes as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, Figure 1 is a front elevation of my improvement, and Fig. 2 is a section taken on the line *xx* of Fig. 1.

Similar letters of reference occurring in both figures indicate like parts.

In the construction of my improved wash-board a sheet of the requisite size of zinc or other thin sheet metal is placed between a series of dies of a semi-spherical shape and a series of cutting-punches, which, being operated, forms in said sheet semi-spherical projections A, arranged at such distances apart and in such order as to leave channels around each projection, and the punches operating in these channels cut out countersunk perforations B, as fully shown in the drawings. Two ends of the sheet, which are left free of the projections, are bent at right angles and inserted in grooves in the cross-bars C C', forming a part of the frame. The sides of the

zinc sheet are also left free from the projections, so as to fit snugly into recesses in the side frames D D', the whole construction being braced and finished by the cross-pieces E and F, forming the soap-receptacle at the top, and central braces G in the rear of the zinc sheet.

In the employment and use of my invention the shape and position of the projections insure of every part of the clothes being reached during the process of washing, while the perforations in the channels form immediate outlets for the dirt which is not brought again in contact with the clothes; also, said perforations prevent the formation of air-spaces between the clothes and the wash-board, enabling the clothes being manipulated much more easily, and more readily freed from dirt or other foreign matter, also effecting a great saving of time, soap, and the fabric of the washed goods.

I am aware that wash-boards having semi-spherical projections are not new; also that wash-boards having small perforations are not new, nor do I wish to claim either of these features separately; but

What I do claim as new, and desire to secure by Letters Patent, is—

As a new article of manufacture the hereinbefore-described wash-board, consisting of the zinc plate, having semi-spherical projections and countersunk perforations, adapted to be fitted to the wooden frame, substantially as described and set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

GEORGE MULLER.

Witnesses:

JAMES RUDOLPH,
DANIEL P. BULL.