

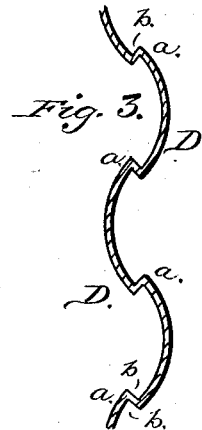
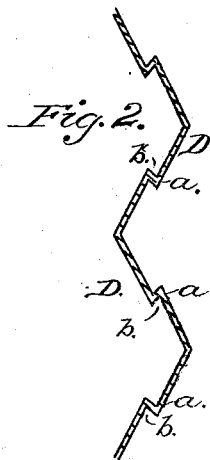
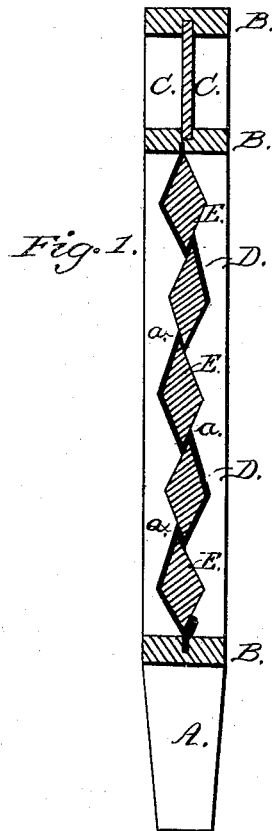
(No Model.)

P. T. GATES.

WASH BOARD.

No. 264,074.

Patented Sept. 12, 1882.



WITNESSES  
*Solomon K. Keeler*  
*Wm. H. Crosby*

INVENTOR  
*Philemon T. Gates*  
By *Parker H. Sweet, Jr.*  
ATTORNEY

# UNITED STATES PATENT OFFICE.

PHILEMON T. GATES, OF NEW YORK, N. Y.

## WASH-BOARD.

SPECIFICATION forming part of Letters Patent No. 264,074, dated September 12, 1882.

Application filed January 12, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, PHILEMON T. GATES, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Wash-Boards; and I do declare the following to be a full, clear, and exact description of the invention, such as 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in that class of reversible wash-boards in which a sheet of metal is corrugated or fluted transversely of its length and interwoven with wooden slats or bars in such a manner as to provide alternate rubbing-surfaces of wood and metal on both sides of the wash-board, as fully shown and described in Letters Patent of the United States granted to me under date of January 3, 1882, and numbered 251,710, to which reference may be had for a more thorough understanding of my present improvements, which consist essentially in providing the metallic sheet which forms the base of the rubbing-surface with duplex corrugations adapted to receive and securely hold the transversely-arranged slats or bars throughout their entire length on both sides of the wash-board, all as will be hereinafter more fully described, and specifically designated in the claim.

In the drawings, Figure 1 represents a central vertical section of my improvements; Fig. 2, a detail sectional view of the same, and Fig. 3 a modification thereof.

Similar letters of reference occurring on the several figures indicate corresponding parts.

In carrying out my invention the frame of the wash-board is made, in the usual manner, with two parallel side pieces, A A, connected by cross-bars B, and provided with the soap-receptacle C on each side of the same, as fully shown in Fig. 1. The metallic sheet D, which may be of zinc, galvanized wire-cloth of the requisite stiffness, or other non-corrosive material, is suitably corrugated or fluted transversely of its length in such a manner as to provide offsets or grooves *a* at the upper and

lower edges of each corrugation, and the edges of the wooden bars or slats E, conforming in shape thereto, are adapted to fit snugly therein, so as to be securely held transversely of their length, as fully shown in the drawings. The bars or slats thus held locked or dovetailed within the metallic sheet D, so as to present alternate rubbing-surfaces of wood and metal on both sides of the wash-board, are set transversely in the frame, their ends resting in angular or irregular grooves in the standards A in a manner well known.

The advantages of my invention will be readily seen without a more minute description, inasmuch as the wooden bars or slats, being held transversely of their length within the offsets *a*, are securely held in position and prevented from warping or springing out, thereby rendering the entire rubbing-surface stronger and more durable.

By the formation of the duplex corrugated surfaces in the metallic sheets D and the insertion of the bars or slats E therein, there are formed cells *b* at the offsets *a*, that add materially to the irrigating-surfaces of the wash-board, rendering the operation of washing more perfect and with much less pressure by the operator, while the manufacture of the wash-boards is greatly facilitated, in that after the metallic sheets D are formed the slats or bars E may be readily slipped in place and retained at pleasure preparatory to being placed within the frames to complete the same.

Having thus described my invention, what I claim as new and useful is—

As an improved article of manufacture, the herein-described wash-board, consisting of the wooden frame, a series of wooden slats, E, and the corrugated metallic sheet D, each corrugation of which has offsets *a* at the upper and lower edges thereof adapted to receive and hold the said bars or slats E transversely therein, the edges of said slats or bars corresponding in shape to said offsets, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

PHILEMON TENNEY GATES.

Witnesses:

EDWARD J. MITCHELL,  
CHARLES K. FARMER.