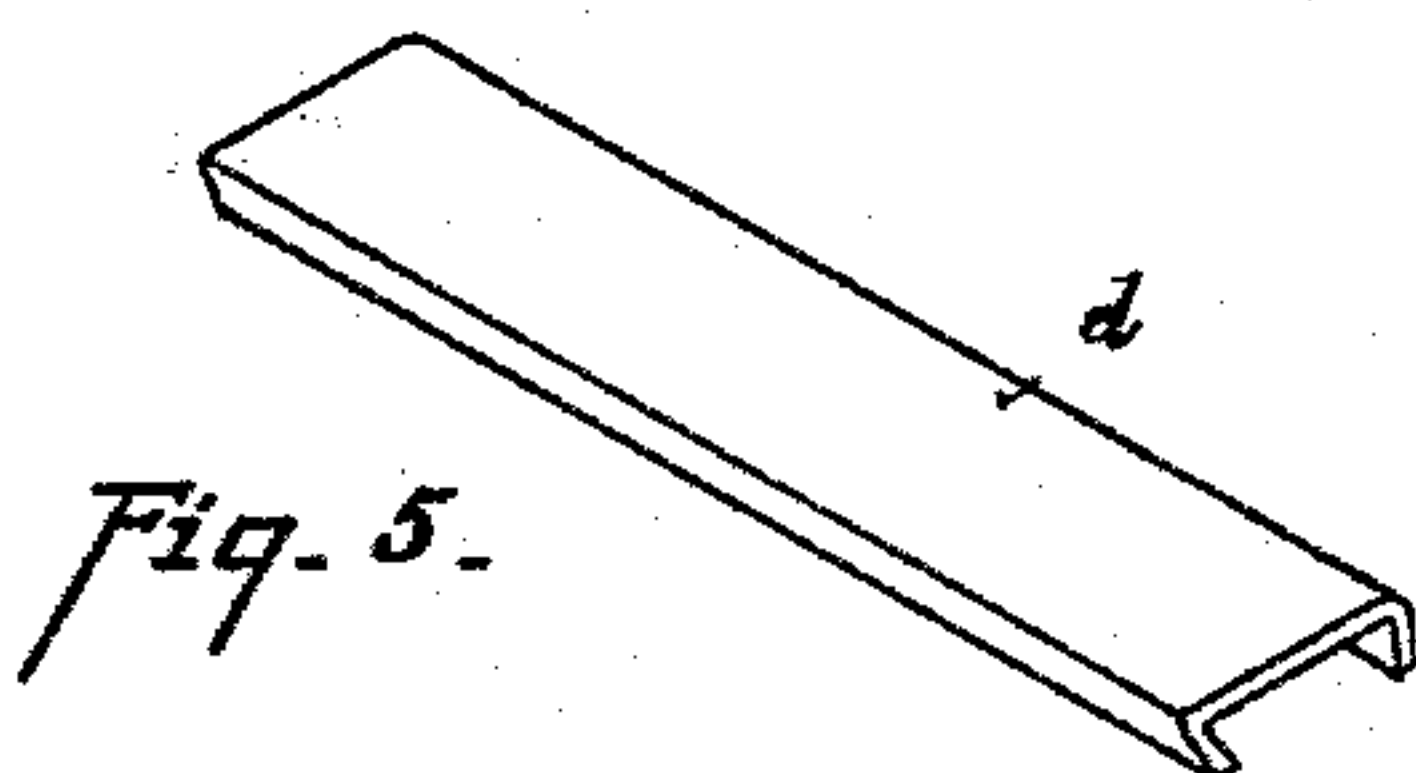
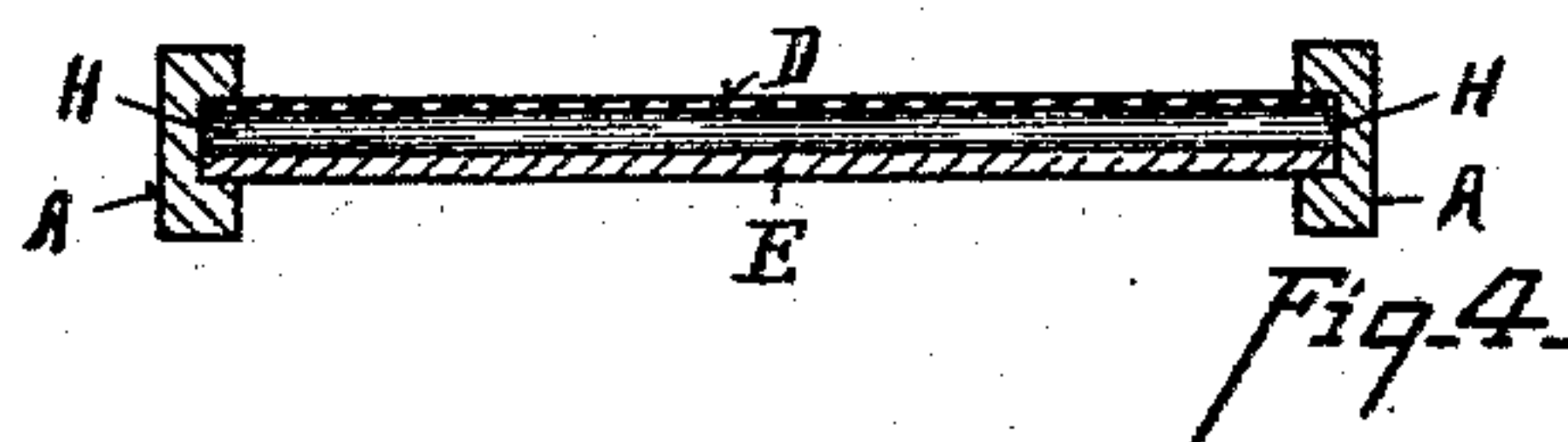
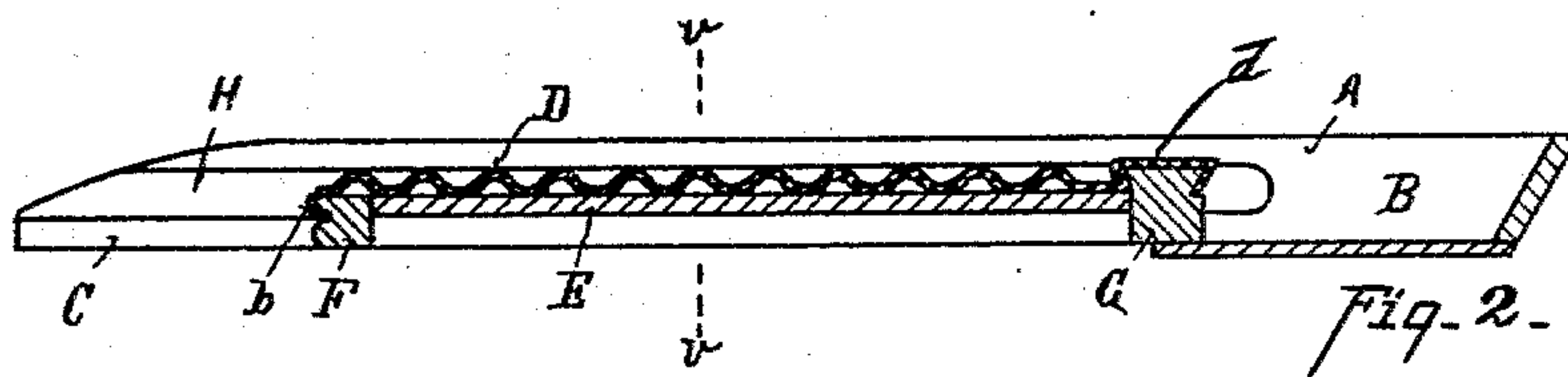
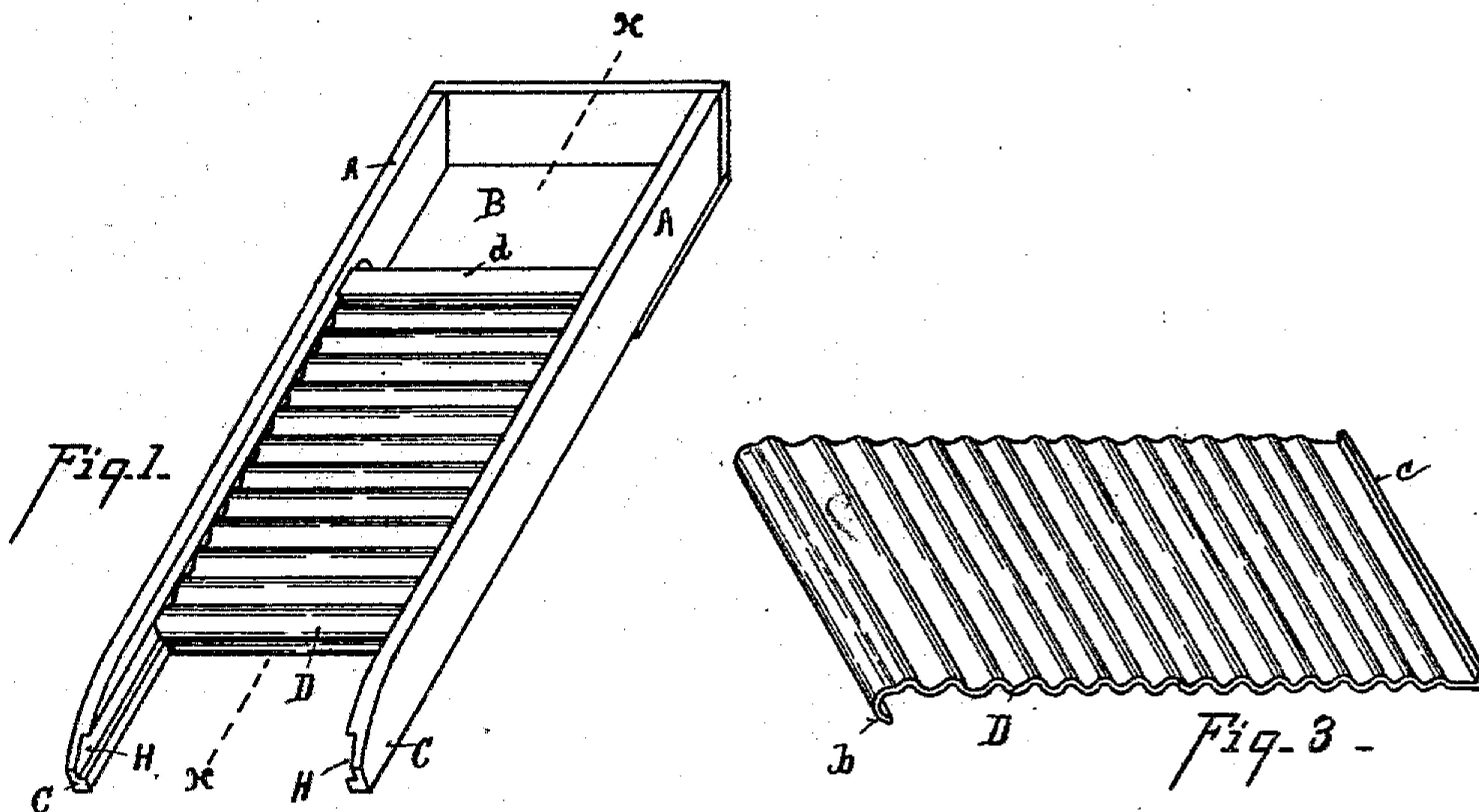


(No Model.)

G. W. MICKLE.  
WASHBOARD.

No. 511,246.

Patented Dec. 19, 1893.



Witnesses  
C. W. Miles  
Q. Kaiser.

Inventor  
George W. Mickle  
By Wood & Bond  
Attorneys

# UNITED STATES PATENT OFFICE.

GEORGE W. MICKLE, OF CINCINNATI, OHIO.

## WASHBOARD.

SPECIFICATION forming part of Letters Patent No. 511,246, dated December 19, 1893.

Application filed October 21, 1893. Serial No. 488,803. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. MICKLE, a subject of the Queen of Great Britain, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Washboards, of which the following is a specification.

The object of my invention is to provide a wash-board with a detachable and interchangeable zinc; the attaching features being such that the zinc can be quickly and rigidly held in secure position.

The various features of my invention are fully set forth in the description of the accompanying drawings making a part of this specification, in which—

Figure 1 is a perspective view of my improvement. Fig. 2 is a central vertical section on line *x, x*, Fig. 1. Fig. 3 is a plan view of the zinc. Fig. 4 is a section on line *v, v*, Fig. 2. Fig. 5 is a perspective view of the clamp.

A represents the legs or stiles of the wash-board.

B represents the box at the bottom of the board.

C represents the feet projecting below the zinc.

D represents the zinc; E, the back-board on which the zinc rests.

F represents a lower cross brace at the foot of the zinc; G a cross brace at the top of the zinc; these braces are securely attached to the stiles.

H represents a groove in the stiles which extends along the braces G and F and terminates at the brace G, being enlarged over the brace.

*c* represents an upturned flange on the top of the zinc; *b*, a hook at the bottom which is

bent over and engages with the groove *a* in the brace F.

*d* represents a U-shaped clamp which engages over the flange *c* of the zinc, and over the top of the brace G, rigidly holding the zinc in position. The sides of the clamp have sufficient elasticity to allow them to yield so that it can be removed and release the zinc, by means of which the zinc can be readily taken out and put in the wash-board. This interchanging of zincs is desirable for several reasons; in the first place the zinc wears out much quicker than the remainder of the wash-board, and when one zinc is worn through a new one can be readily placed in; again, sometimes different styles of corrugations are desired, and my improvement allows different zincs to be readily interchanged. It is very desirable to have the zinc held firmly in position and close joints made. Both of these results are obtained by the means herein shown and described.

Having described my invention, what I claim is—

1. A wash-board the stiles of which are provided with grooves H, with a detachable zinc B, provided with the hook *b*, flange *c*, secured to the brace, and means for clamping the flange *c* and brace G, substantially as specified.

2. In a wash-board provided with the groove H, interchangeable zinc D, provided with the flange *c*, and the clamp *d*, for securing the zinc firmly to the brace G, substantially as described.

In testimony whereof I have hereunto set my hand.

GEO. W. MICKLE.

Witnesses:

T. L. POGUE,

T. SIMMONS.