

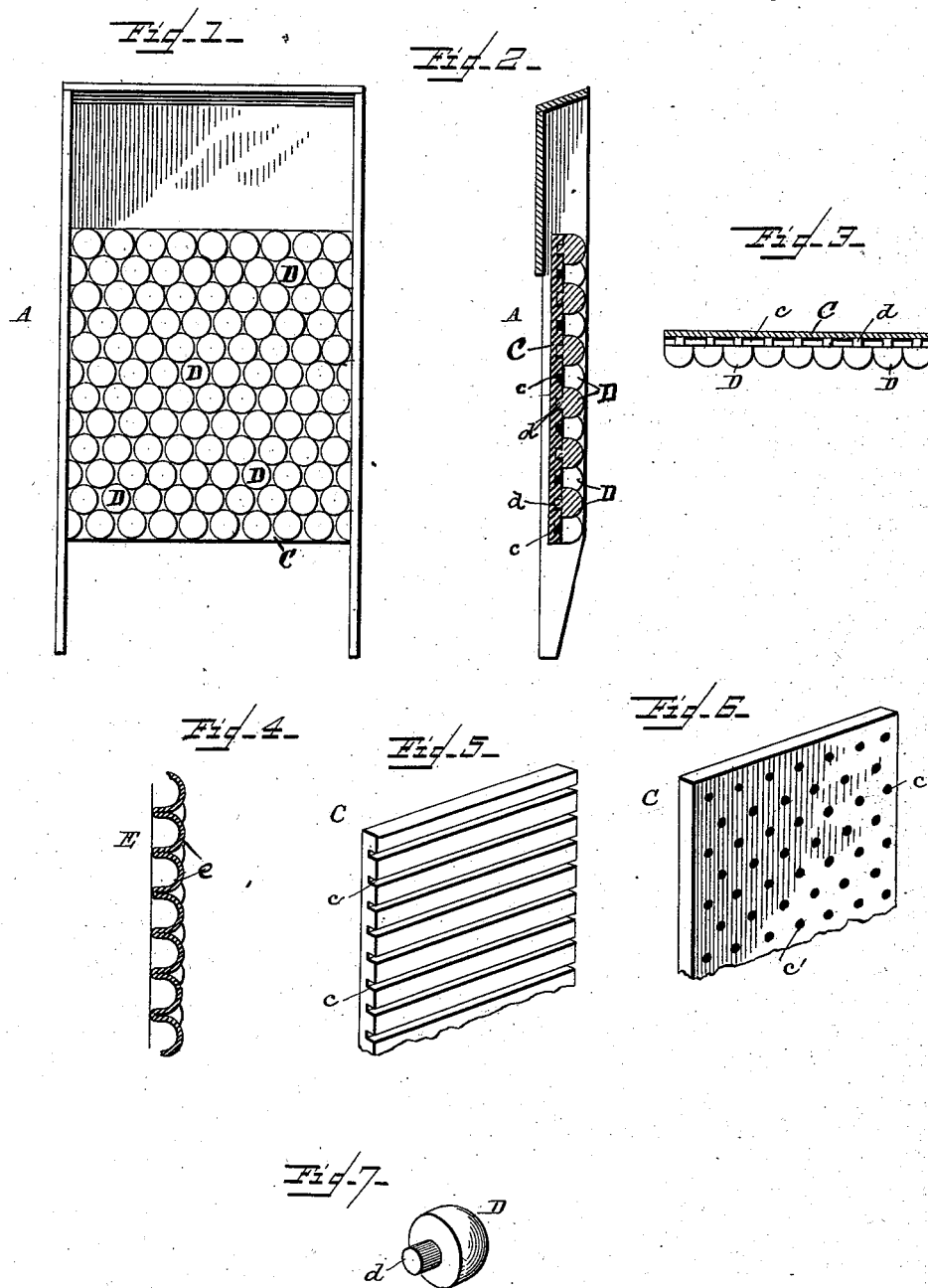
(No Model.)

J. R. CLUXTON.

WASH BOARD.

No. 382,512.

Patented May 8, 1888.



WITNESSES,

Edwin D. Yewell,

J. J. F. Johnson

INVENTOR,

James R. Cluxton,

by V. H. Alexander,

Attorney.

# UNITED STATES PATENT OFFICE.

JAMES R. CLUXTON, OF XENIA, OHIO.

## WASH-BOARD.

SPECIFICATION forming part of Letters Patent No. 382,512, dated May 8, 1888.

Application filed August 30, 1887. Serial No. 248,328. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES R. CLUXTON, of Xenia, in the county of Greene and State of Ohio, 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a view, front face, of my improved wash board. Fig. 2 is a central transverse section of the same. Fig. 3 is a cross-section of the same, taken centrally through one of the rows of pins. Fig. 4 shows a modification of the manner of producing the scrubbing-board. Fig. 5 shows one form of back or scrubbing-board blank. Fig. 6 shows another form of the same. Fig. 7 is a detail perspective view of one of the pins D.

This invention relates to improvements in wash-boards, and it has for its objects to improve the construction of such boards and produce a wash-board which will present a sufficiently rough surface to the clothes to insure their perfect cleansing, which will not abrade or tear the same.

The essential feature of the invention is the surface of the scrubbing-board, and this is produced as hereinafter described, illustrated in the drawings, and particularly designated in the appended claim.

Referring to the drawings by letter, A designates the frame of the wash-board, which may be of the ordinary construction and form, and having a scrubbing-board secured thereto in any proper manner. The surface of this board is made up of numerous semi-spherical or conoidal projections, as shown, which are arranged in regular horizontal rows, the projections in one row lying partly between the four adjoining projections in the preceding and succeeding rows, as shown, and abutting at its base against the base of the said projections, and also with the adjoining projections on its opposite sides in its own row, as shown, so that each and every projection, except those on the outer edges of the board, is encircled by and impinges at its base against six adjoining projections in its own and preceding and succeeding rows, as is evident from the drawings.

I prefer making the scrubbing-board as follows:

C designates a blank, made, preferably, of wood, of proper thickness and corresponding in width and length to the size of scrubbing-board desired. This blank C is formed with a series of longitudinal or transverse grooves, *c c*, as shown in Fig. 5, which are in close parallel relation to each other. The grooves *c* are narrow and deep, as shown, for the reception of the shanks *d* of headed pins D D, (shown clearly in Fig. 7,) which pins have a large semi-spherical or conoidal head corresponding in form to the projections of the scrubbing-board. From the center of the base of pins D depend the shanks *d*, as shown, which shanks correspond to or are slightly greater in diameter than the width of grooves *c* of blank C. The pins D are secured on said blank by driving their shanks into grooves *c* in close relation to each other, as shown in Fig. 3.

In my application for a wash-board-making machine, filed August 30, 1887, and numbered serially 248,278, I have described a machine for manufacturing the wash-board above described. In some cases rubber, metal, or porcelain headed pins may be substituted for the wooden pins described.

In order to insure the retaining of pins D in place on the blank C, I propose using a waterproof cement, applied to the blank C before the insertion of the pins D. In some instances the blank C may be formed as shown in Fig. 6, in which the grooves *c* are omitted, and instead a series of rows of perforations, *c'*, are made in blank C for the reception of pins D.

If desired, the shanks *d* of pins D may be omitted and the heads of the pins cemented direct to the plane surface of blank C in the peculiar relation to each other shown; but I prefer to make the board as before described.

Fig. 4 shows a modification of the manner of forming the scrubbing-board. In this figure is represented a metallic sheet, E, preferably zinc, which has been stamped between proper dies, so as to raise on its surface the series of projections *e*, which exactly correspond in form, relation, and size to the projections of the scrubbing-board, as shown.

The essential feature of my invention is the producing of a scrubbing-surface for wash-boards, composed of a series of semi-spherical

or full half-rounded projections, as shown, which are arranged in horizontal interlocking-rows, each projection impinging against its adjoining and surrounding projections and  
5 forming deep narrow channels between the projections for the retention of suds and soap on the board.

It is obvious that such a scrubbing-surface may be produced in various ways, of which I  
10 have described several. Of these, however, I prefer the board made of wooden pins, which are not liable to mildew or tear the clothes washed thereon, said wooden pins being produced by turning from a wood-blank in such  
15 manner that the grain of the wood runs vertically through the pins and at right angles to the grain of blank C, when it is made of wood,

so that said pins D will stand a great amount of usage without injury. Therefore I do not claim such boards, broadly; but

What I do claim is--

In a wash-board, the combination of the blank C, having a series of horizontal grooves, c, with the round-headed pins D, having shanks d, which enter grooves c of the blanks, the pins  
25 being secured and arranged on the blanks, substantially as and for the purpose described.

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

JAMES R. CLUXTON.

Witnesses:

A. C. DOWELL,  
M. P. CALLAN.