2 Sheets—Sheet 1.

J. F. JAQUES.

Wash-Board.

No. 207,184. Patented Aug. 20, 1878.

Fig. 1.

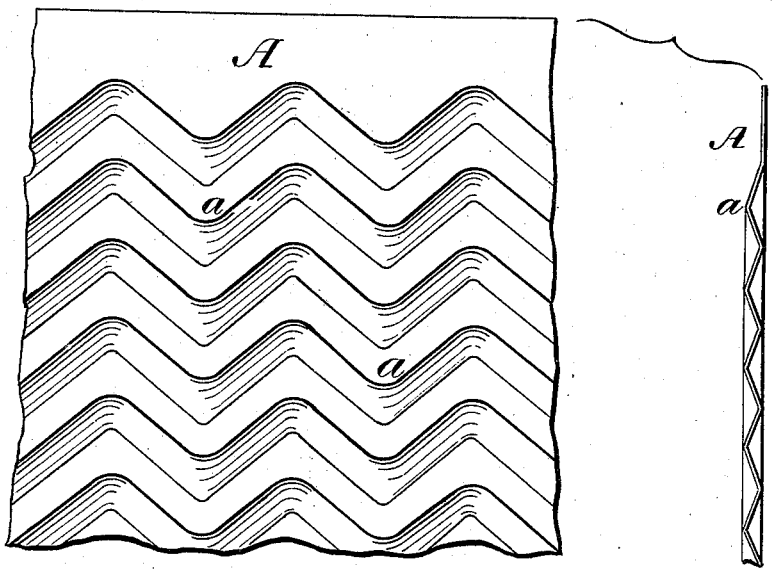


Fig. 2.

Fig. 3.

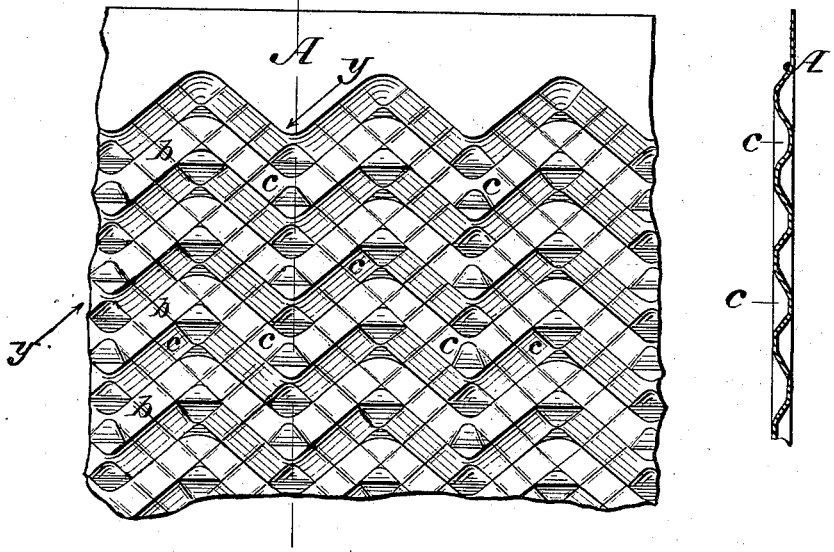
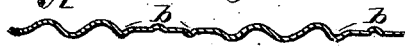


Fig. 4.



Witnesses:

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By Dodgerson

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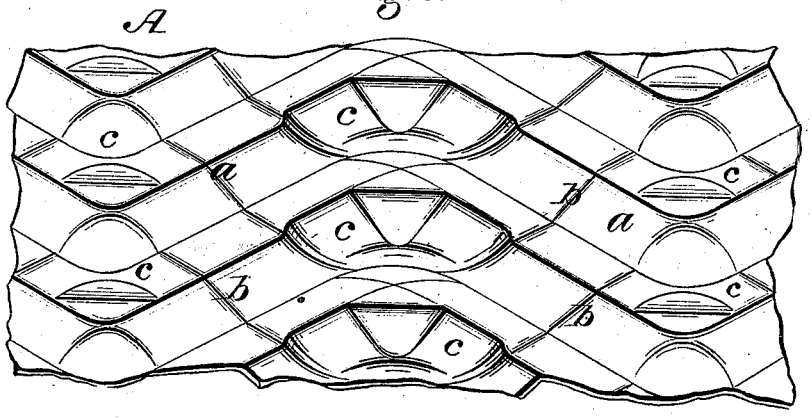
2 Sheets—Sheet 2.

J. F. JAQUES.
Wash-Board.

No. 207,184. Patented Aug. 20, 1878.

Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN F. JAQUES, OF MOLINE, ILLINOIS, ASSIGNOR TO DIMOCK, GOULD & CO., OF SAME PLACE.

IMPROVEMENT IN WASH-BOARDS.

Specification forming part of Letters Patent No. **207,184**, dated August 20, 1878; application filed June 22, 1878.

To all whom it may concern:

Be it known that I, JOHN F. JAQUES, (assignor to Dimock, Gould & Co.,) of Moline, in the county of Rock Island and State of Illinois, have invented certain Improvements in Wash-Boards, of which the following is a specification:

My invention relates to a wash-board having a surface of peculiar construction, consisting, primarily, of transverse zigzag or waved corrugations, and, secondarily, of breaks or irregularities in said corrugations.

Metal sheets having transverse corrugations of a zigzag or serpentine form, such as shown in the patent of Keech, April 10, 1860, No. 27,811, have been known and used for many years with better results than those having the usual straight crimps or corrugations; but it is found that the smooth oblique faces of the corrugations permit the fabrics to pass down without the desired amount of friction or attrition upon them. It is to overcome this objection and improve the construction shown in the Keech patent that this invention is intended.

Figure 1 represents a face view and a cross-section of a surface such as shown in the Keech patent, and which forms the basis of my improved surface. Fig. 2 is a face view of my board or surface. Fig. 3 is a section of the same on the line *x x*, and Fig. 4 is a section on the line *y y*, of Fig. 2. Fig. 5 represents an enlarged face view of a portion of my improved board, looking obliquely down upon the same.

Referring to the drawings, A represents a sheet of zinc or other suitable metal to form a rubbing-board, and which will be mounted in a frame of suitable construction in any ordinary manner. In preparing my sheet it is indented, by means of rolls or dies, in such manner as to form transversely across its face a series of zigzag or serpentine corrugations, *a*, of the general form represented in Fig. 1, being the same as those represented in the Keech patent above referred to. Instead, however, of leaving the corrugations in the smooth and regular form represented in Fig. 1, I break, crimp, or bend each corrugation transversely, as represented by the lines *b b*, thus giving the face or surface of each corrugation a roughened or broken surface, as more clearly represented in Fig. 4, thereby producing on the surface of the board a greatly-increased number of elevations and depressions, causing the same to act upon the fabric with a far greater amount of friction.

It will be noted that each crimp has several bends or breaks, *b*, between each angle and the next. I also form at each alternate angle or point in the main corrugations a cup-shaped depression or concavity, *c*, which adds largely to the resistance offered by the board against the movement of the fabric over the same.

The pockets *c*, as will be seen by reference to Fig. 5, are not grooves or depressions extending across the ribs or corrugations *a*, but merely shallow recesses formed in one face of the same at the angle or bend, serving to offer additional resistance to the passage of the goods over the face of the board without permitting the water to pass from one groove to the next, except by flowing up over the ridge of the ribs or corrugations.

It is to be noted that this depression does not extend across or through the corrugation or rib, but that it forms merely a pocket therein.

It is preferred to employ both the crimps or corrugations *b* and the depressions *c;* but either may be used without the other with good results.

While it is preferred to break or crimp the primary corrugations in the particular manner shown, they may be otherwise crimped, broken, or roughened, the invention consisting, essentially, in roughening the surface or sides of the zigzag corrugations.

Having thus described my invention, what I claim is—

1. A wash-board provided with transverse zigzag corrugations *a*, each broken from crest to base by secondary transverse corrugations or crimps *b*.

2. The wash-board having transverse zigzag corrugations *a*, and two or more transverse breaks or crimps therein between each bend or angle and the next.

3. The wash-board having the zigzag corrugations *a* and the pockets or cup-like indentations formed at the angles of the corrugations in one side of the same, so as to offer an increased resistance to the fabric, as described and shown.

JOHN F. JAQUES.

Witnesses:

GUSTAF SWASMAN,

LEWIS WECKEL.