

(No Model.)

E. & L. HEDDERICH.
WASHBOARD.

No. 538,675.

Patented May 7, 1895.

Fig. 1.

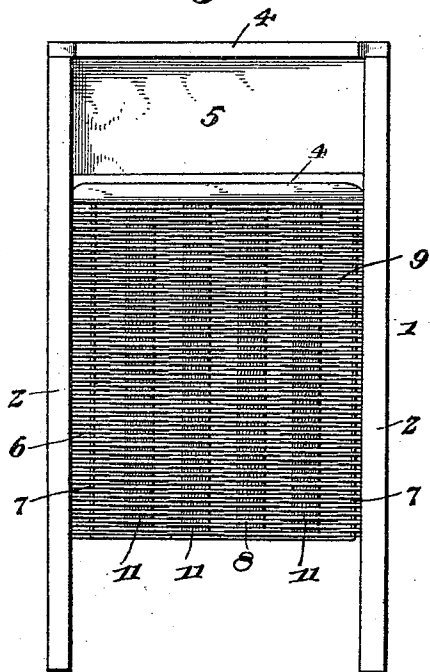


Fig. 2.

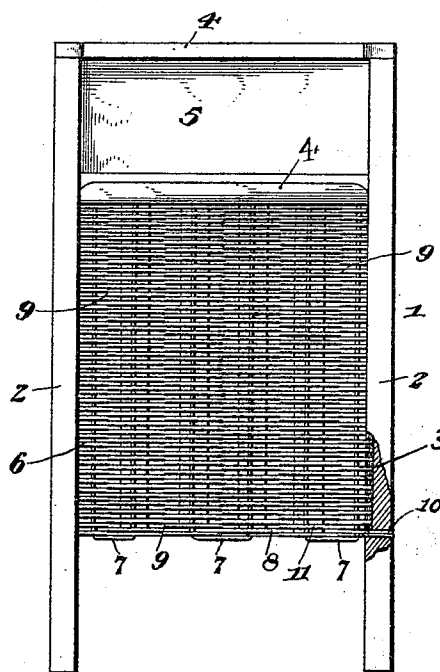


Fig. 4.

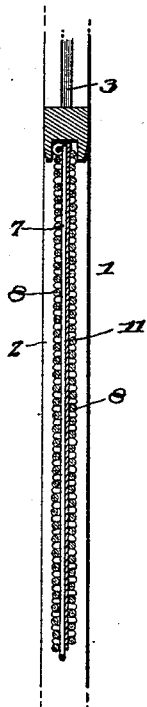


Fig. 3.

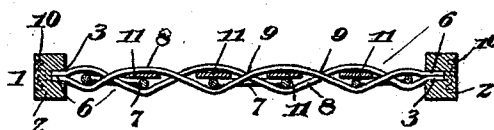
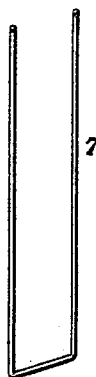


Fig. 5.



Witnesses

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Inventors

Edward Hedderich,
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By their Attorneys.

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UNITED STATES PATENT OFFICE.

EDWARD HEDDERICH AND LEANDER HEDDERICH, OF PETTIT, INDIANA.

WASHBOARD.

SPECIFICATION forming part of Letters Patent No. 538,675, dated May 7, 1895.

Application filed March 31, 1894. Serial No. 505,926. (No model.)

To all whom it may concern:

Be it known that we, EDWARD HEDDERICH and LEANDER HEDDERICH, citizens of the United States, residing at Pettit, in the county of Tippecanoe and State of Indiana, have invented a new and useful Washboard, of which the following is a specification.

This invention relates to washboards; and it has for its object to provide a simple and efficient washboard with a metal rub surface which shall be very durable, while at the same time providing for a quicker and easier washing of the goods.

To this end the main and primary object of the present invention is to provide a simple, inexpensive and efficient washboard having opposite rub faces or surfaces of different grades to accommodate the washboard to different kinds of goods, while at the same time being pervious, and otherwise possessing every quality for the thorough washing or rubbing of the goods.

With these and other objects in view which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a front elevation of a washboard constructed in accordance with this invention. Fig. 2 is a similar view, partly in section, of the opposite side of the washboard. Fig. 3 is an enlarged transverse sectional view of the board. Fig. 4 is a longitudinal sectional view of the board. Fig. 5 is a detail view of one of the longitudinal warp-wires.

Referring to the accompanying drawings, 1 designates a washboard frame constructed in the usual manner and consisting of the opposite side bars 2, having inner side grooves 3, and the upper connecting transverse cross bars 4, between which transverse cross bars is placed the board 5, to provide a soap box at both sides of the board in the usual manner. The opposite inner side grooves 3, of the opposite side bars of the board frame are adapted to receive therein the opposite side edges of the closely woven wire fabric rub surface 6.

The wire fabric rub surface 6, consists of a

series of longitudinal warp wires 7, and the closely arranged interlaced transverse weft wires 8, that are woven over the wires 7, to complete a wire fabric rub surface. The longitudinal warp wires 7, are not arranged closely together but are spaced regular distances apart, and said longitudinal wires 7, comprise the opposite side portions of U-shaped pieces of wire which are preferably employed instead of using a series of independent lengths of the wires 7, and the lower loop ends of said U-shaped warp wires are disposed at the lower edge of the rub surface and extend outside of the lowermost of the transverse weft wires and serve to prevent a loosening or unraveling of the wires. The transverse weft wires are arranged closely together and in contact with each other, and are alternately passed over one side of one of the warp wires and around the opposite side of the next adjacent warp wire, thereby providing a woven arrangement which causes the closely laid weft wires to intersect each other as at 9, between the longitudinal warp wires, and thereby form longitudinal depressions or grooves between the warp wires, and longitudinal ridges directly in a line with said warp wires, thereby completing a rub surface, which, while perfectly porous or pervious to water, at the same time presents a sufficiently rough surface to the goods for thoroughly cleaning the same without injury.

The wires comprising the woven wire fabric rub surface are made of zinc, aluminum, or any other suitable metal that will not rust, and the lower pair of the transverse wires are continued at their extremities through the opposite side bars 2, and are clinched as at 10, to firmly hold the surface in position. To complete the rub surface, a series of parallel longitudinal strips or plates 11, are inserted into the spaces occasioned by the weaving of the transverse weft wires alternately around the longitudinal warp wires, and these strips or plates are made of zinc or any other suitable non-corroding metal. All of the strips or plates 11, are placed directly against and at one side of the wires 7, thereby causing the said wires 7, to be disposed at one side of the board and to hold the weft wires out at a greater or sharper projection than at

the opposite side of the board. Therefore the side of the rubbing surface at which the wires 7, are presented, will be more pervious to the water and at the same time will be coarser or more angular than the other non-angular opposite side of the rubbing surface, thereby completing a washboard, the opposite faces of which are of different grades so as to adapt the same to different kinds of goods.

It will of course be understood that the frame of the washboard may be constructed in any suitable manner other than that described and may be of wood or metal, and it will be understood that changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. A washboard having a closely woven wire fabric rub surface consisting of a parallel series of spaced longitudinal warp wires, closely arranged interlaced transverse weft wires woven over the longitudinal warp wires, and a series of parallel longitudinal flat metal strips arranged directly at one side of and

against the longitudinal warp wires in the spaces between the intersecting points of the transverse weft wires, said weft wires having a non-angular projection at one side of said flat metal strips, and a coarser angular projection at one side of said warp wires, substantially as set forth.

2. In a washboard, the combination with the opposite grooved frame side bars; of a closely woven wire fabric rub surface received at its opposite edges in the grooves of said side bars and consisting of spaced U-shaped longitudinal warp wires, and closely arranged interlaced transverse weft wires woven over the longitudinal warp wires, the lower pair of said transverse weft wires being held within the loop ends of the U-shaped warp wires and extended at their extremities through said opposite side bars and clinched, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

EDWARD HEDDERICH.
LEANDER HEDDERICH.

Witnesses:

WILL W. BURROUGHS,
WALTER M. RAMSEY.