(No Model.)

L. O. BROWN.

WASHBOARD.

No. 589,070. Patented Aug. 31, 1897

Fig. 1.

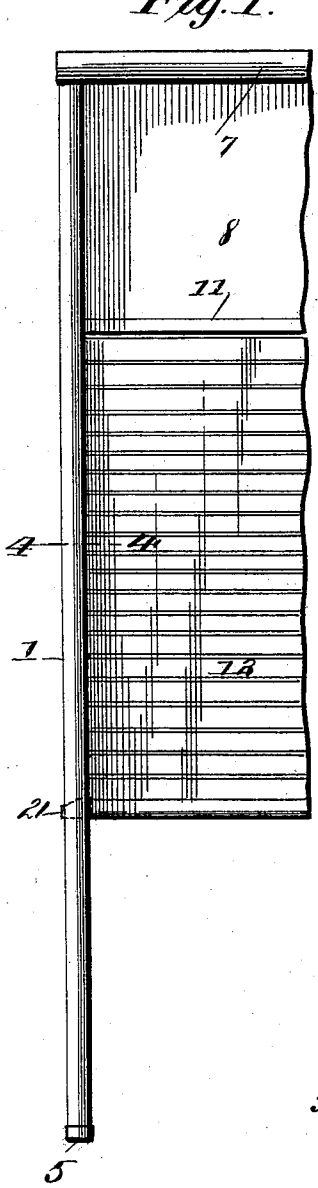


Fig. 2.

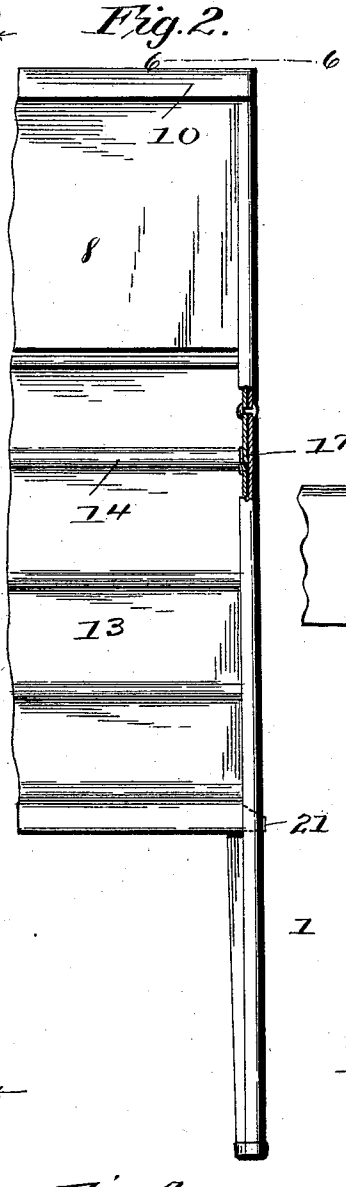


Fig. 3.

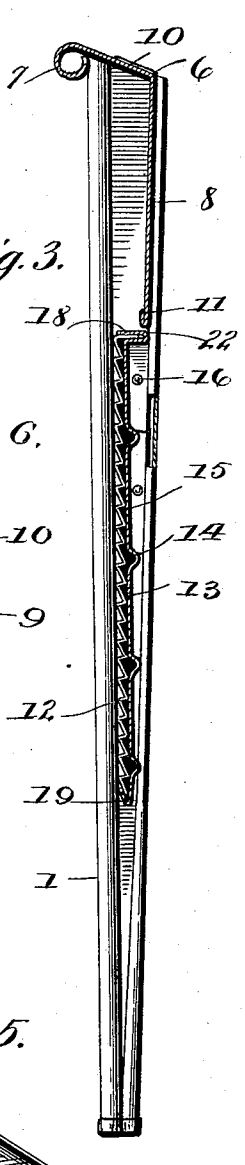


Fig. 6.

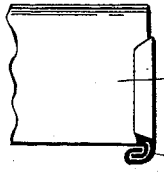


Fig. 4.

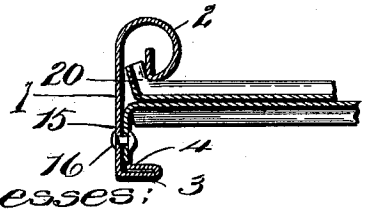
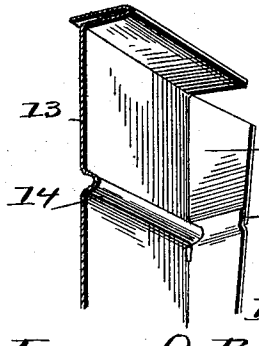


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

LEWIS O. BROWN, OF TOLEDO, OHIO.

WASHBOARD.

SPECIFICATION forming part of Letters Patent No. 589,070, dated August 31, 1897.

Application filed February 11, 1897. Serial No. 622,890. (No model.)

To all whom it may concern:

Be it known that I, LEWIS O. BROWN, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented a certain new, useful, and valuable Improvement in Washboards, of which the following is a full, clear, and exact description.

My invention has relation to metallic washboards; and it consists in the novel construction and arrangement of its parts, as hereinafter described.

The object of my invention is to provide a washboard made entirely of sheet metal, said board to be light and the parts being so put together and braced as to render the board perfectly rigid.

The further object of the invention is to provide a washboard which will not rust or rot, and which is simple in construction and having its parts firmly locked together.

In the accompanying drawings, Figure 1 is a side plan view of a section of the front of the board. Fig. 2 is a side plan view of a section of the back of the board. Fig. 3 is a transverse sectional view of the board cut on the line 3 3 of Fig. 1. Fig. 4 is a horizontal sectional view of Fig. 1 cut on the line 4 4. Fig. 5 is a perspective view of the bracing-plate used in the back of the board. Fig. 6 is a top view of an upper corner of the washboard under the line 6 6 of Fig. 2.

The uprights 1 1 are made of sheet metal. The forward edges of said uprights are provided with a curl 2 and the rear edges of said uprights are provided with a right-angled flange 3, said flange having at its extreme end the fold 4 bent back upon itself, thereby strengthening the flange. The curl 2 and the flange 3 extend the entire length of the uprights 1 1. The uprights 1 1 converge from the top toward the bottom and at their lower ends are provided with the ferrules 5 5, said ferrules being of any desired shape. A sheet of metal 6 forms the head-piece and part of the soap-rest for the washboard. The forward edge of the sheet 6 is provided with the curl 7, said curl, at its inner side, bearing against the curls 2 of the uprights 1. The sheet 6 is provided with the perpendicular section 8. The perpendicular edges of said section are provided with the inwardly-extending flanges 9, said flanges being located between the flange 3 and the fold 4 of the uprights 1. Thus the ends of the section 8 are secured to the uprights. The upper ends of the uprights 1 1 are provided with the flanges 10. Said flanges are bent up over the upper sides of the plate 6 and are soldered in position, as shown in Figs. 3 and 6. The lower edge of the section 8 is provided with the curl 11, and thus the lower edge of said section is stiffened.

The rubbing-surface 12 is provided on its back with a brace-plate 13, said plate having at suitable intervals the ridges 14 14 struck therein, said ridges extending all the way across the back of the board. The perpendicular edges 15 of the plate 13 are bent at right angles, and the said edges are secured by means of the rivets 16 to the uprights 1. At the ends of the ridges 14 the edges 15 are provided with incisions, and the ends thus made in the edges 15 are overlapped, as at 17 in Fig. 2.

The rubbing-surface 12 is clenched at its upper edge by the flange 18 to the plate 13, and at its lower edge the said surface 12 is clenched by the flange 19 to the plate 13. If necessary, solder may be used at these joints to close the same to prevent any possibility of water lodging between the rubbing-surface 12 and the plate 13.

The perpendicular edges 20 of the rubbing-surface 12 are bent at an angle to the body of the plate, as shown in Fig. 4, and said edges are adapted to engage the curls 2 of the uprights 1.

In assembling the parts the uprights 1 1 are constructed, and the rubbing-surface 12 is secured to the brace-plate 13. The said parts 12 and 13 are then slipped perpendicularly in place, and the rivets 16 16 are put through the flanges 15 and the uprights 1.

The brace-plate 13 is provided at its lower corners with the protrusions 21. (See Figs. 1 and 2.) Said protrusions are adapted to pass through registering perforations in the uprights 1 1, and the said protrusions are then secured by any suitable means. The section 8 of the plate 6 and the flange 18 form a soap-rest for the washboard. There is a space 22 between the lower edge of the section 8 and the flange 18. Through this space the water from the soap is adapted to drain.

It will be seen that when the parts are assembled that the extreme edges of the flanges 15 come in contact with the folds 4 4 and that the edges 20 20 are in contact with the inner ends of the curls 2 2. Thus the parts are firmly brought in contact with each other and brace each other.

The rubbing-surface 12 is preferably made of zinc, while all the other parts of the board are made of galvanized metal. Thus the board will not rust or rot and will in no way injure the clothes.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a washboard consisting of suitable uprights, a rubbing-surface supported thereby, a bracing-plate located at the back of the rubbing-surface, said bracing-plate having at its perpendicular edges flanges, said flanges being secured to the uprights.

2. A washboard consisting of sheet-metal uprights, said uprights having at their forward edges curls and at their rear edges flanges, a rubbing-surface having at its perpendicular edges flanges adapted to engage the curls of the uprights, a bracing-plate located behind the rubbing-surface, said bracing-plate having flanges adapted to engage the rear flanges of the uprights, the flanges of the bracing-plate being secured to the uprights.

3. A washboard consisting of sheet metallic uprights, a rubbing-surface supported thereby, said uprights having at their rear edges flanges, folds located at the ends of the flanges, a sheet metallic head-piece having at its perpendicular edges flanges passing under the folds of the flanges of the uprights, the head-piece having at its forward edge a curl, said curl coming in contact with the forward edges of the uprights.

4. A washboard consisting of sheet metallic uprights, said uprights having at their forward edges curls, said uprights supporting a suitable rubbing-surface, a sheet metallic head-piece secured at the upper ends of the uprights, the forward edge of the head-piece being curled, said curl coming in contact with the curls of the uprights.

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

LEWIS O. BROWN.

Witnesses:
LIZZIE SHOUP,
H. R. MENSING.