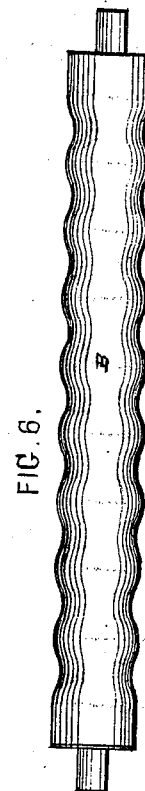
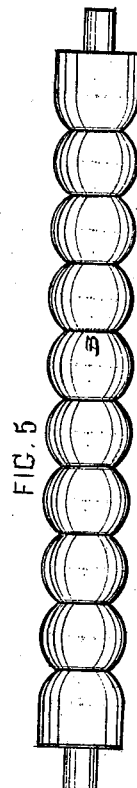
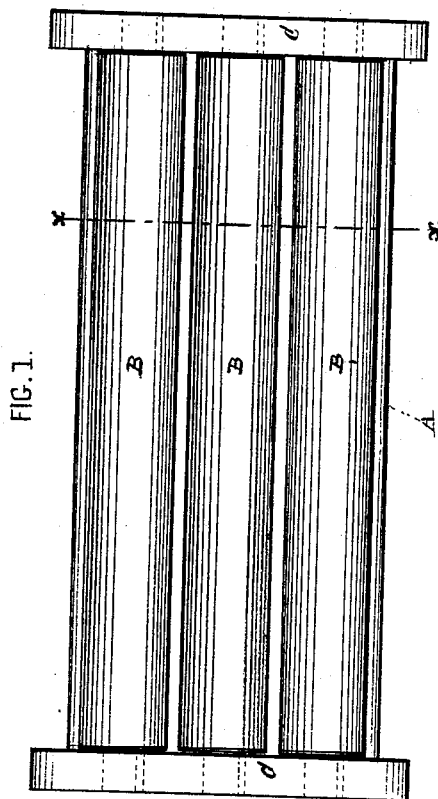
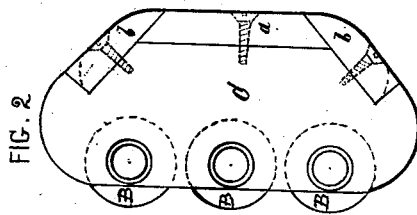
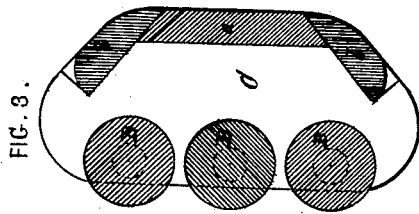


E. R. Nony,
Hand Rubber.
No. 111,769. *Patented Feb. 14. 1871.*



WITNESSES.
Thomas J. Seelye
H. Ashton Henry.

INVENTOR.
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By his Attorney
Stephen W. Wick

United States Patent Office.

ELWOOD R. NORNY, OF McDONOUGH, DELAWARE.

Letters Patent No. 111,769, dated February 14, 1871.

IMPROVEMENT IN HAND-WASHING RUBBERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, ELWOOD R. NORNY, of McDonough, in the county of New Castle and State of Delaware, have invented a Hand-Washing Rubber, of which the following is a specification.

The nature of my invention consists of a device to be held by hand, having one or more rollers, the journals of which work in the ends of a trough-formed holder, the inner or trough surface serving for scooping up the suds or water to wet the clothes during the rubbing process when desired.

I make the holder of wood or metal, or partly of each. When the ends are made of wood I usually bush the journal-bearings with metal or other suitable material.

To enable others to make and use my device, I will now give a detailed description thereof.

In the accompanying drawing, which makes a part of this specification—

Figure 1 is a plan of the device.

Figure 2 is an end view.

Figure 3 is a cross-section at the line *x x* of fig. 1.

Figure 4 is an end view of a fluted roller.

Figure 5 is a side view of a roller representing a succession of balls.

Figure 6 is a corrugated roller.

Like letters in all the figures indicate the same parts.

A is a trough-formed holder, having rollers, B B B.

The longitudinal pieces *a b b* are confined by means of screws, *d*, seen in fig. 2, or otherwise, to the end pieces C C when the holder is made of wood.

The end pieces have bushings, *e*, for the journal-bearings.

The ends of the pieces C are rounded, as shown in the drawing, to prevent their catching the clothes or edges of the wash-board.

The rollers B may be of plain cylindrical form, as represented in figs 1, 2, 3, or fluted, as seen in fig. 4; or they may be of ball-like form, as seen in fig. 5, or corrugated, as in fig. 6, or of any other desirable form.

When ball-like, the balls of one roller should come between the balls of the contiguous roller or rollers; and when corrugated, the swells of one roller should be brought to the hollows of the next roller.

The clothes are treated as in hand-washing. They are laid on the wash-board in three or four thicknesses, and in breadth not greater than the length of the rubber. The operator then takes hold of the upper end of the clothes with one hand and the rubber with the other hand, passing it up and down over the clothes and drawing the latter gradually out of the suds. The dirt is rapidly removed from the clothes, falling down into the tub, whereas in the ordinary use of the wash-board the clothes have to be repeatedly dipped into the suds to remove the dirt. Hence, by the use of my improvement the clothes are washed much more rapidly than with the wash-board alone, and equally as clean.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of one or more rollers with a water-trough or scoop, the journals of the roller or rollers turning in the ends of the scoop, as and for the purpose set forth and shown.

In testimony that the above is my invention, I have hereunto set my hand and affixed my seal this 12th day of November, 1870.

ELWOOD R. NORNY. [L. S.]

Witnesses:

STEPHEN USTICK,

THOMAS J. BEWLEY.