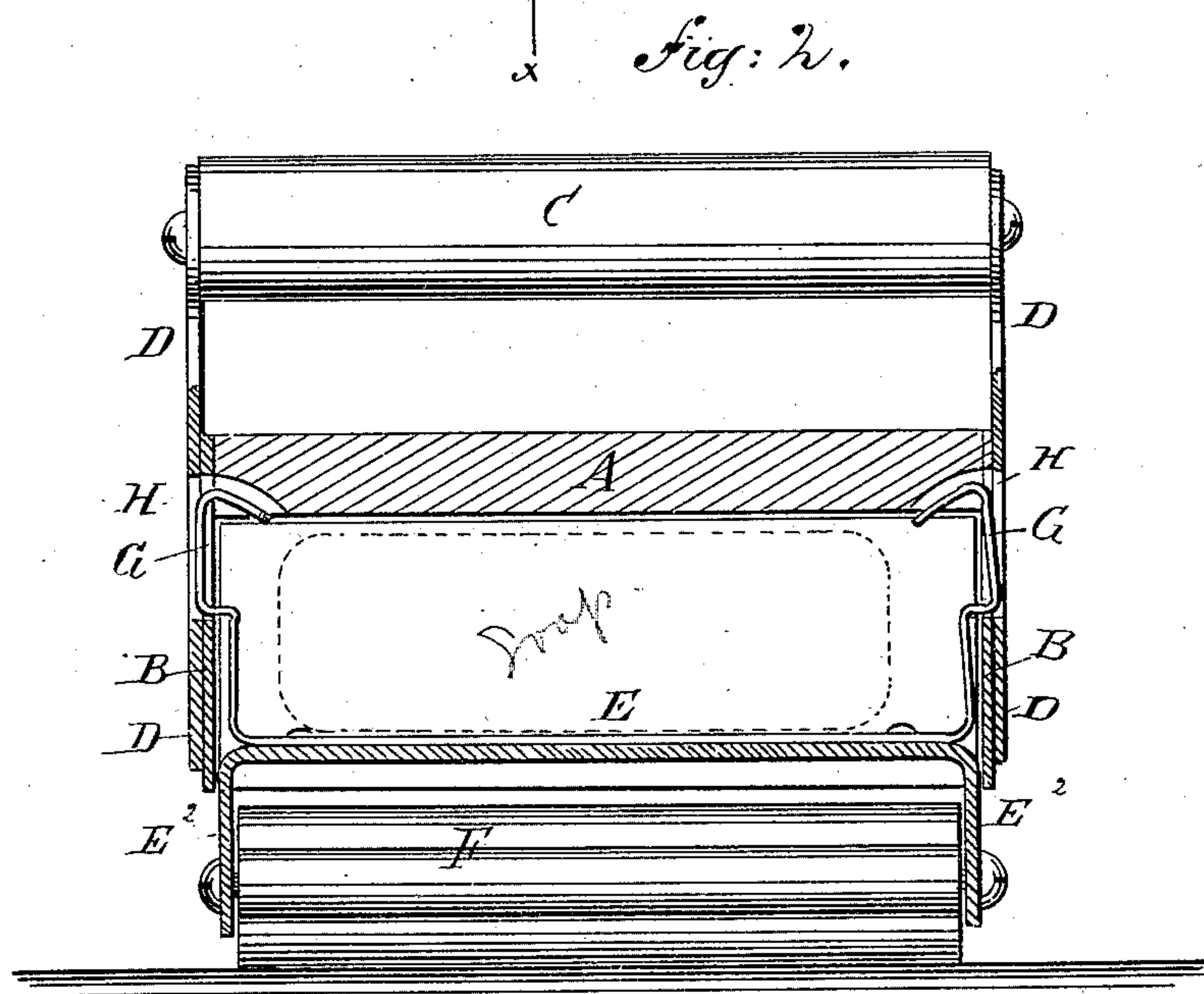
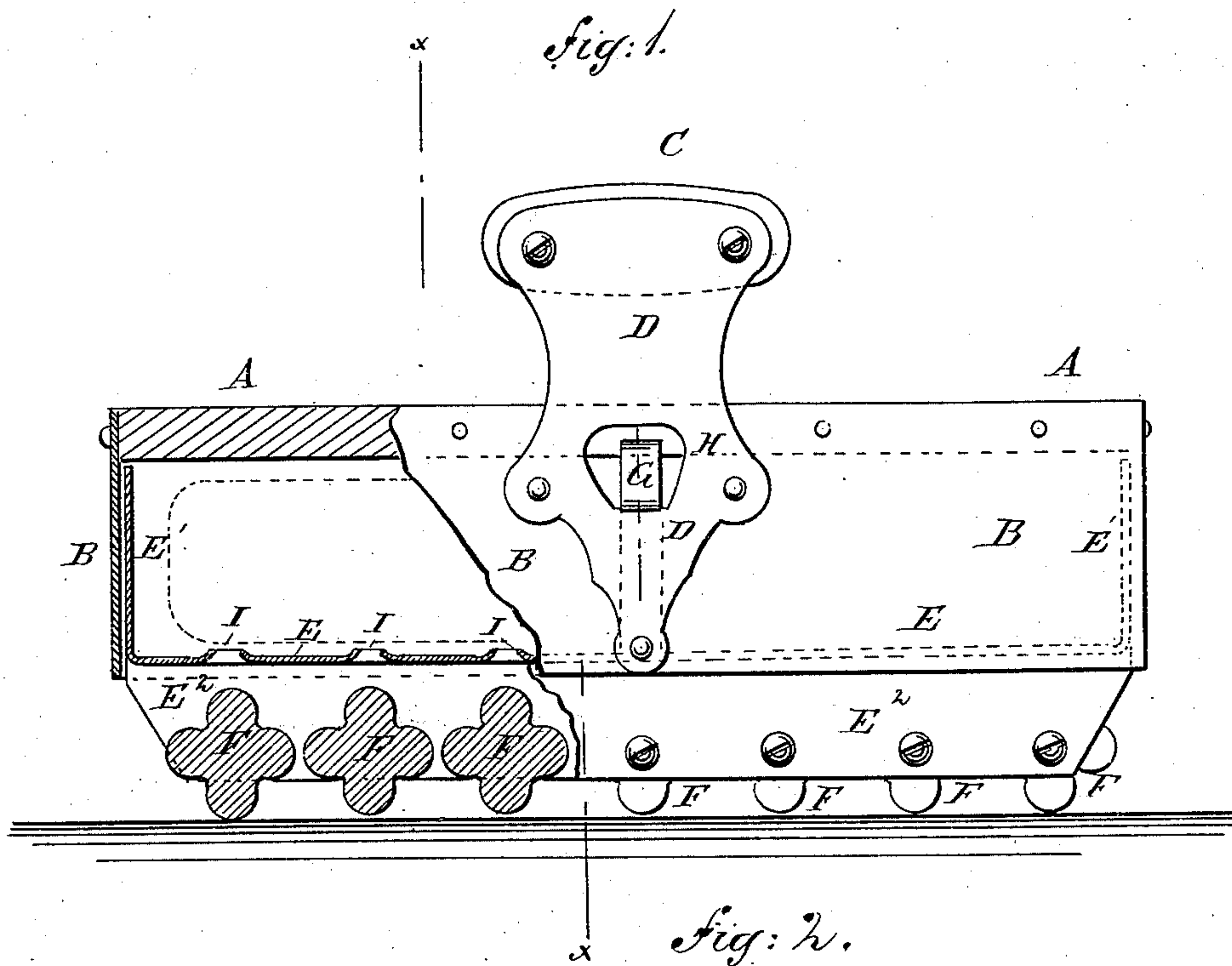


(No Model.)

I. T. GREENE.
HAND RUBBER FOR WASHING.

No. 285,256.

Patented Sept. 18, 1883.



WITNESSES:

Chas. Nida
C. Sedgwick

INVENTOR:

I. T. Greene
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

ISAAC T. GREENE, OF MILFORD, CONNECTICUT, ASSIGNOR OF ONE-HALF TO
DAVID E. SMITH, OF SAME PLACE.

HAND-RUBBER FOR WASHING.

SPECIFICATION forming part of Letters Patent No. 285,256, dated September 18, 1883.

Application filed February 1, 1883. (No model.)

To all whom it may concern:

Be it known that I, ISAAC T. GREENE, of Milford, in the county of New Haven and State of Connecticut, have invented a new and
5 Improved Hand-Rubber for Clothes-Washing, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate
10 corresponding parts in both the figures.

Figure 1 is a side elevation, partly in section, of my improvement. Fig. 2 is a sectional end elevation of the same, taken through
15 the line *x x*, Fig. 1.

The object of this invention is to facilitate the washing of clothes.

The roller-carrying plate is secured to the holder detachably by spring-catches, and the
20 rubber is provided with a handle for convenience in operating it, as will be hereinafter fully described.

A represents a board of suitable length, breadth, and thickness. To the edges of the
25 board A is attached a band, B, of metal or other suitable material, forming a holder in the form of an inverted box.

C is a handle, the ends of which are connected with the sides of the holder A B by
30 uprights D, which may be attached to or formed upon the said handle, and which are attached to the sides of the holder A B by rivets or other suitable means.

E is a plate, of sheet metal or other suitable
35 material, of such a size as to fit into the interior of the holder A B. The ends of the plate E have upwardly-projecting flanges E' formed upon or attached to them, which extend upward along the inner sides of the ends of the
40 holder A B, so as to keep the plate E parallel with and at a suitable distance from the holder-plate A. Upon the side edges of the plate E are formed, or to them are attached, downwardly-projecting flanges E², in which are
45 journaled the ends of a number of rollers, F. The rollers F may be made smooth, or they may be grooved or corrugated transversely; but I prefer to corrugate them longitudinally, as shown in Figs. 1 and 2. The latter construction is preferred, as giving the rollers a
50 better hold upon the clothes, and thus making them more effective. The ends of the flanges E² should be beveled or rounded to prevent them from catching upon the clothes.

The plate E should be about upon a level 55 with or a little above the lower edge of the flange B, so that the rollers F will project below the said flange B, as shown in Figs. 1 and 2. The plate E and its attached rollers are secured to the holder A B by spring-
60 catches G, attached to the middle side parts of the said plate E, and which project into apertures H in the side flanges B and the handle-upright D, so as to hold the said plate E and its rollers F securely in place. By this
65 construction a space or chamber is formed between the plates B E to receive a cake of soap, as indicated in Figs. 1 and 2. The plate E has a number of holes, I, formed through it for the passage of water, so that as the rub-
70 ber is operated the friction of the soap upon the plate E may form a suds which will be applied to the clothes by the passage of the water through the apertures I in the plate E. The plate E can be detached for the insertion
75 and removal of the soap by pressing the spring-catches G inward. In using the rubber a piece of soap is placed in the chamber of the said rubber, the clothes to be washed are spread evenly upon an ordinary washing-
80 board, and are held and adjusted with one hand, while the rubber is moved back and forth over them with the other hand, by which operation the clothes will be washed quickly
85 and thoroughly.

I am aware that it is not new to combine, in a washing-machine, wheels and rollers with a reservoir arranged on the wash-board, provided with a valve and having a perforated bottom, or a rubber with rollers, flanges, and
90 a perforated plate, or to combine a suspended vibratory rubbing-board with a concave of rollers in a vat or tank; but

What I do claim as new and of my invention is—
95

A washing-machine rubber formed of the holder A B, provided with a handle and base, the latter consisting of the perforated plate E, having upwardly-extending flange E' and
100 downwardly-extending flange E², the rollers F, journaled in the flanges E², and means for fastening the holder and base together, as described.

ISAAC T. GREENE.

Witnesses:

OWEN T. CLARKE,
L. F. BALDWIN.