

I. D. BUCK.
Washing-Machines.

No. 157,062.

Patented Nov. 24, 1874.

FIG. 2.

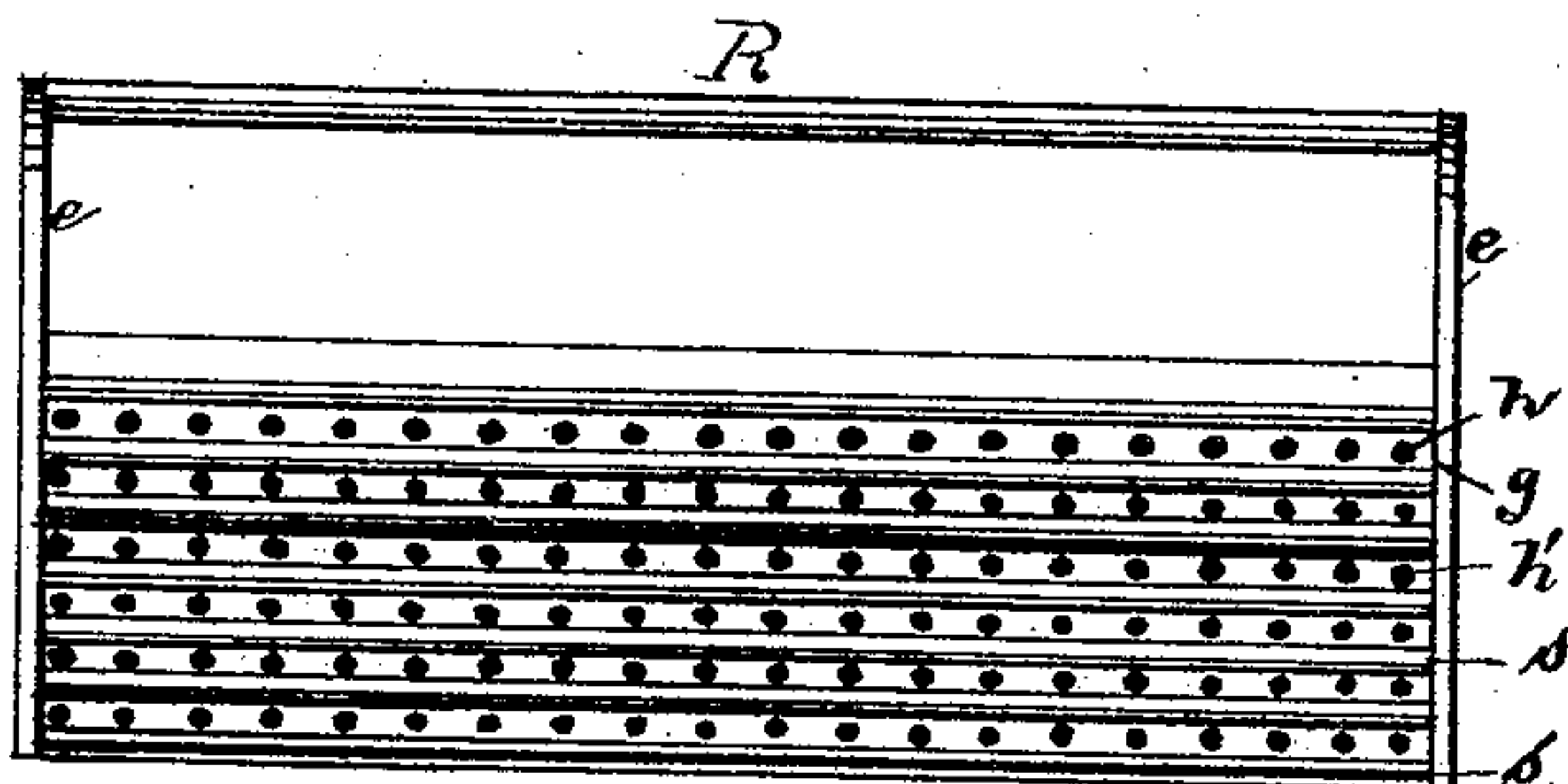
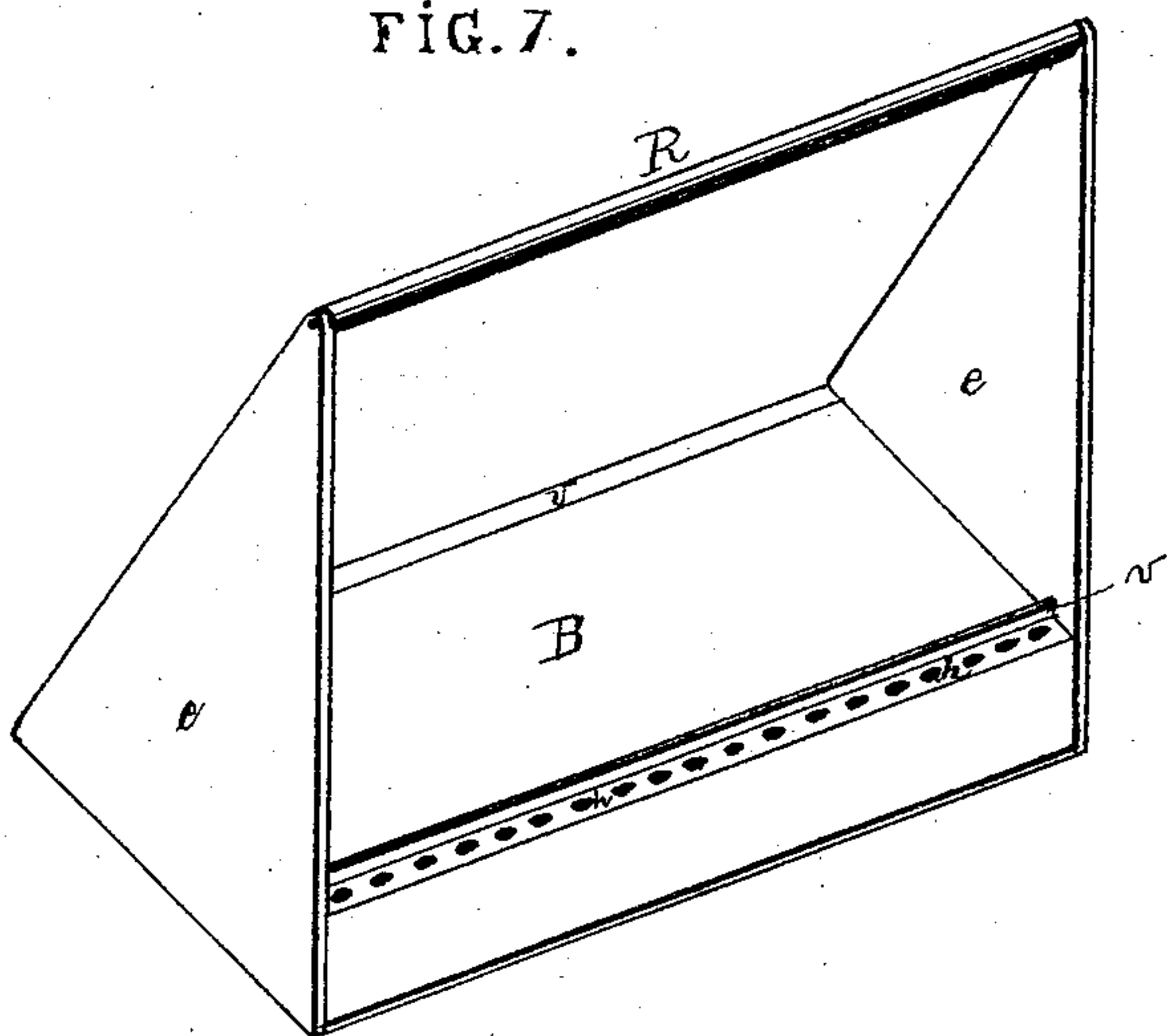


FIG. 7.



Witnesses
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ISAIAH D. BUCK, OF CONSHOHOCKEN, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **157,062**, dated November 24, 1874; application filed March 16, 1874.

To all whom it may concern:

Be it known that I, ISAIAH D. BUCK, of Conshohocken, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figure 1 is a perspective view of my improved washing-machine with the gum valves raised, and Fig. 2 a view of the bottom of the same.

Similar letters of reference in the accompanying drawings denote the same parts.

This invention has for its object to produce for public use a washing-machine simple in construction, so that it cannot get out of order, efficient and easy of operation, and cheap in price; and to these ends it consists of a perforated block of wood having the lower surface thereof corrugated and slightly convex, and provided with the necessary handles projecting from the upper side, by which the machine is operated.

In the drawings, B represents a block of wood fifteen inches long, nine inches wide, and two and a half in thickness, the lower surface of which is slightly convex, and has either longitudinal grooves *g g* cut therein, or strips *s s* nailed or otherwise fastened thereon to produce the same result—a corrugated surface, as shown in Fig. 2. At the bottom of the grooves *g g*, or between the strips *s s*, the block B is bored as full of holes as the wood will admit of without splitting, as also shown in Fig. 2. The holes *h h* in the two outside rows next either edge of the block, where the greatest motion occurs to the machine when in operation, pass clear through, and strips of gum *v v* of the length of the block, and wide enough to cover both rows, are tacked to block between the rows, each edge acting as valves to the holes beneath it, as shown in Fig. 1. The two middle rows of holes *h' h'* are not bored through the block, but wood enough left on top to form a tight covering, as shown in Figs. 1 and 2. *e e* are end pieces securely

fastened to the ends of the block B, and act in the triple capacity of preventing the block from warping or splitting, extending far enough below to cover the ends of the strips *s s*, and to form end pieces to the troughs or grooves *g g*, and that of projecting and tapering upward to form the journals for the ends of the roller or handle R, by which the machine is operated either in rocking it back and forth, or in turning it round to change the position of the clothes or materials being operated upon, or the position of the machine itself.

The clothes to be washed are placed in a tub or other suitable vessel, the machine put upon them, and as it is pressed downward into the water the air is partially forced from the holes *h' h'*, while the gum strips *v v* rise and allow the air contained in the holes *h h* to freely escape and the water to occupy, the clothes being in immediate contact with the lower surface of the machine; the water which thus occupies the holes has to come from beneath, and consequently through them, removing the dirt in its passage. As the machine is rocked back and forth by the handle R, one edge of the block rises, the valves close over the holes *h h*, preventing the air from entering at the top, and the water from escaping below. The suction caused by the upward movement draws the water through and from around the clothes, which, together with the rubbing of the corrugated surface, washes them.

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

The machine described, consisting of a corrugated block, adapted to rock, as described, and provided upon each edge with a series of perforations, *h*, and valve *v*, the latter being adapted to close the perforations when the edge of the block is raised, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ISAIAH D. BUCK.

Witnesses:

THOS. BRADFIELD,
D. K. HAUXHURST.