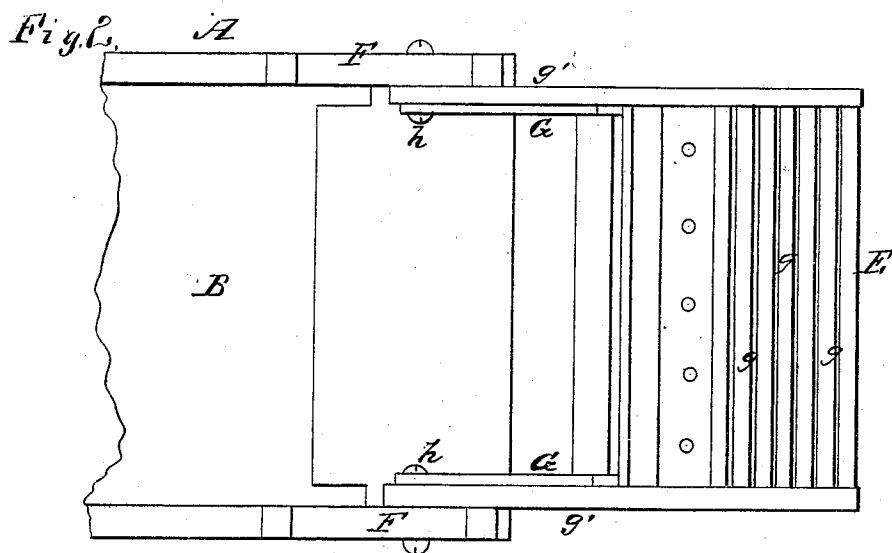
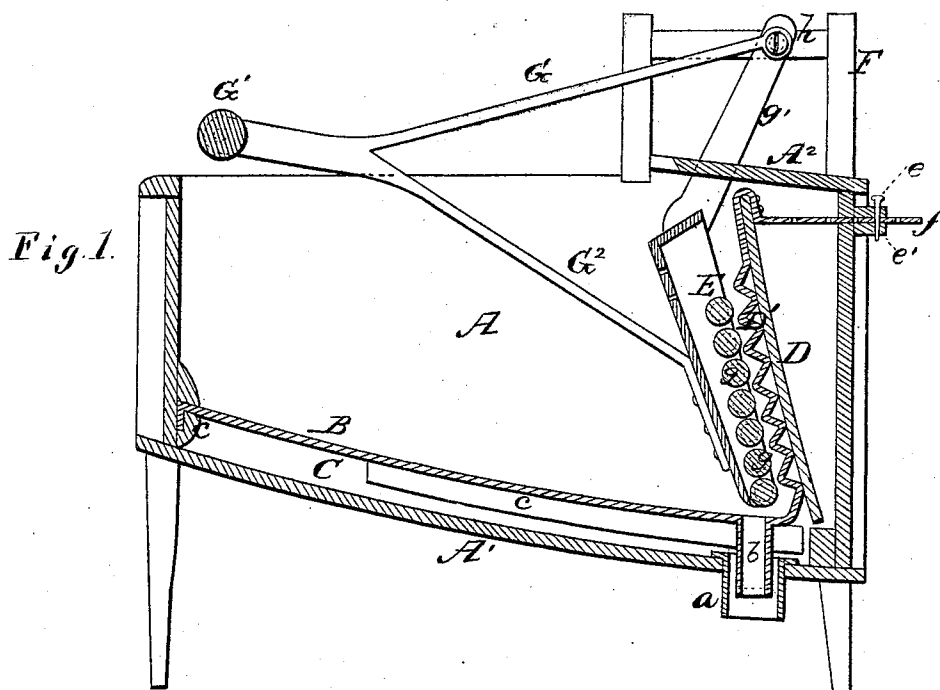


Washing-Machines.

No. 150,358.

Patented April 28, 1874.



WITNESSES
E. H. Bates.
George E. Upham. By

INVENTOR
Charles D. Rontzahn
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CHARLES D. ROUTZAHN, OF DAYTON, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **150,358**, dated April 23, 1874; application filed December 6, 1873.

To all whom it may concern:

Be it known that I, CHARLES D. ROUTZAHN, of Dayton, in the county of Montgomery and State of Ohio, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my washing-machine. Fig. 2 is a plan view of the same.

This invention has relation to washing-machines; and it consists in the novel construction and arrangement of the different parts, as will be hereinafter described.

The following is a description of my improved washing-machine:

The wash-box A is composed of vertical sides and ends, and an inclined bottom, A¹, which latter is provided with an outlet-tube, a, at its lowest end. B represents a sheet-metal plate, which constitutes the primary or upper bottom, between which and the bottom A¹ is a space, C. This plate B, which is provided with a draw-off pipe, b, passing through the pipe a, is secured by its edges to narrow strips c c, which are nailed on the inside of the wash-box. The lower end of this plate B is extended up, and secured to an overhanging head, D, and such extension of this plate forms a corrugated beating-surface, D'. The head D can be adjusted at any desired inclination, and when properly adjusted it can be fixed by means of a pin, e, passed through a cleat, e', and through an arm, f, which is secured to the upper end of the head D, and passed out through the back of the wash-box, as shown in Fig. 1. E represents the beater, which consists of a perforated box-shaped

back and a series of parallel rollers, g, with two side arms, g' g', secured to it at an acute angle. The upper ends of these arms are pivoted at h h to an elevated horizontal bar of a frame, F, so that the beater is allowed to swing freely. G G' represent bifurcated arms, connected together by a handle, G'. One of these arms on each side of the beater is rigidly secured to the back of this beater. The other two prongs of the arms are connected by the pivots h to the frame F, thus forming auxiliary pivoting-arms, and also bracing-arms for the beater. The cover A² above the head D prevents water from being dashed out of the wash-box during the washing operation. By using two bottoms with a space between them, and with an outlet-tube for each, I prevent the wash-box from leaking, and at the same time do not require to employ a water-tight metallic box inside of the wooden box. By means of the forked arms G G, the dasher or beater and its arms are firmly braced, and the dasher can be adjusted, as shown in Fig. 2, when it will be supported on the rear end of the churn-box by means of two of the forked arms, in which position the rollers of the dasher serve as a hand wash-board.

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

The combination of the adjustable head D with the metallic plate B, having the corrugations D' secured on said head, extension f, cleat e', and pin e, substantially as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES D. ROUTZAHN.

Witnesses:

FREDK. B. SHULL,
JOHN D. SHEEHAN.