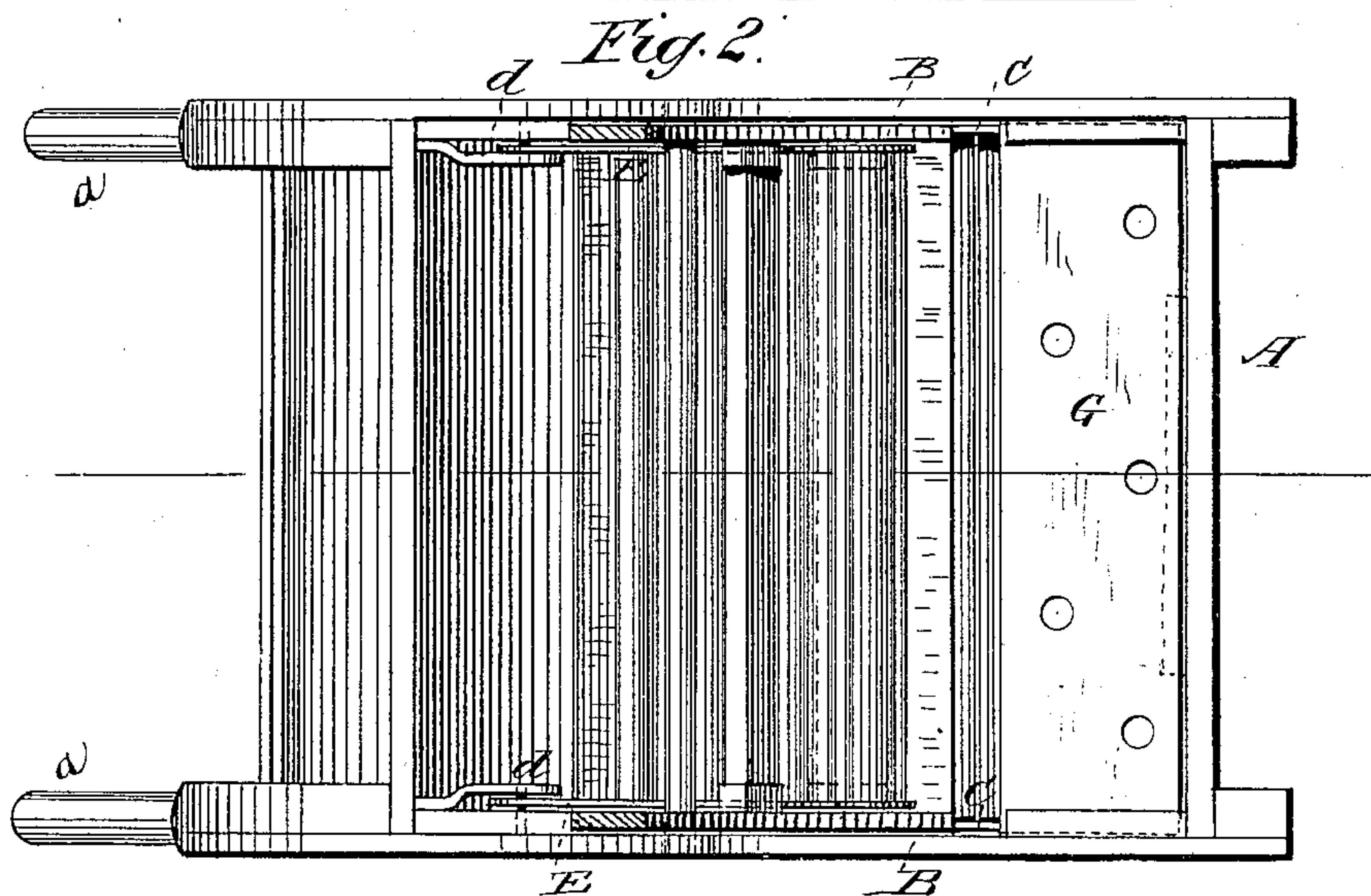
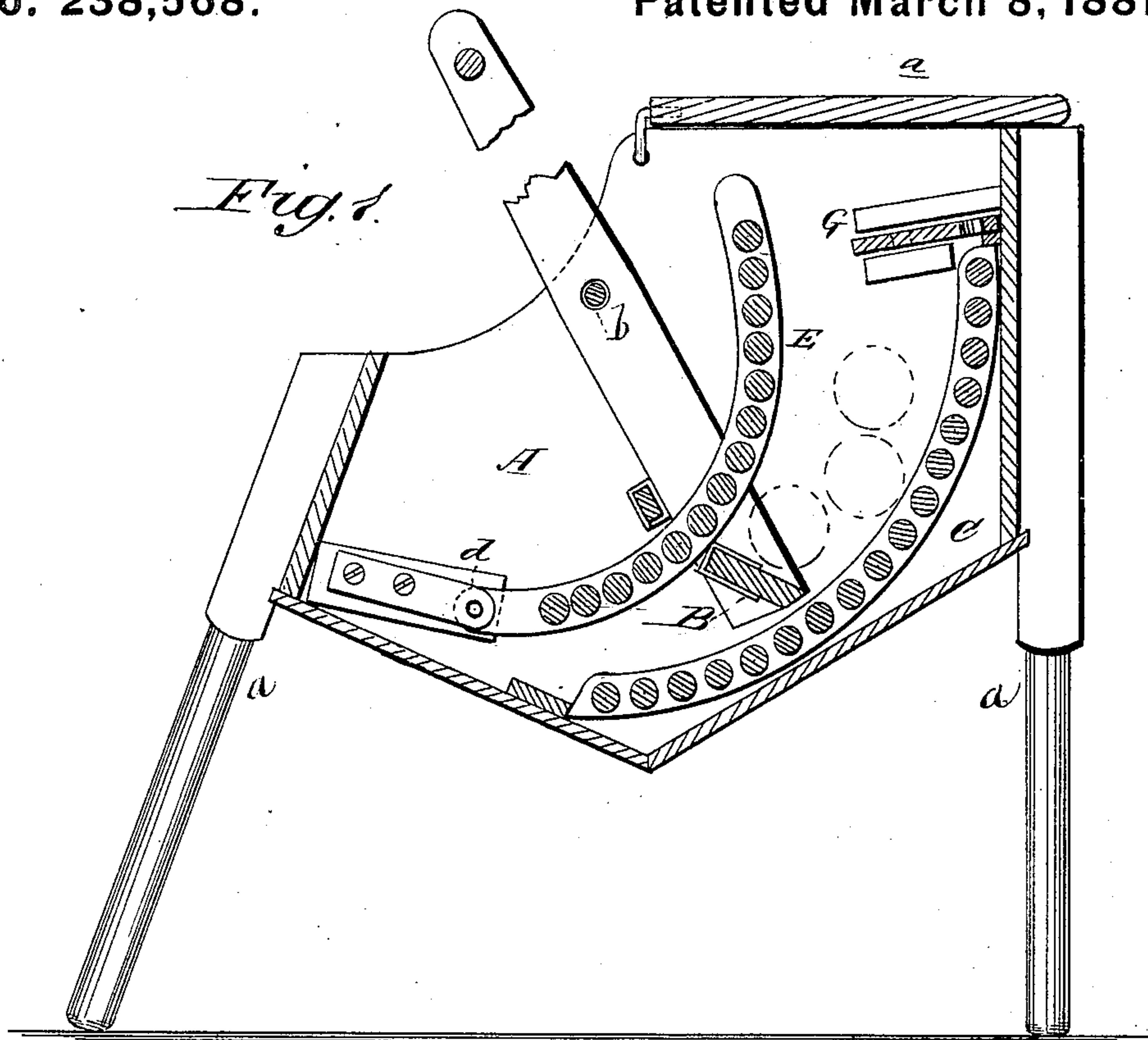


(No Model.)

W. CARTER.
Washing Machine.

No. 238,568.

Patented March 8, 1881.



WITNESSES.

Francis M. Drake,
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INVENTOR:

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UNITED STATES PATENT OFFICE.

WILLIS CARTER, OF NANAIMO, BRITISH COLUMBIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 238,568, dated March 8, 1881.

Application filed May 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, WILLIS CARTER, of Nanaimo, in the district of Nanaimo, British Columbia, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification.

The invention consists in improving the operation and general effect of washing-machines by combining the essential elements thereof, as hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical sectional view of a machine embodying my improvements, and Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

A represents the tub supported by legs *a*. In the sides of the tub are the bearings for the rubber B, which consists of two arms carrying a rubbing-bar at their lower ends. In the rear portion of the tub is a stationary wash-board, C, composed of rollers journaled loosely in curved bars attached to the side pieces of the tub. The wash-board C is curved in the form of an arc of a circle drawn from the bearing *b* of the rubber B as a center, and the line of travel of the rubbing-board is parallel with said arc.

Between the arms of the rubber B, and above the upper edge of the rubbing-bar, is a movable wash-board, E, composed of rollers jour-

naled in two bars curved in the form of an arc of a circle smaller than that of the wash-board C. The lower ends of the bars are pivoted to lugs *d* in the side pieces, near the bottom of the tub, so that the wash-board may be free to swing toward the front and rear of the tub.

The clothes to be washed are placed between the two wash-boards, and the rubbing is done by the rubber B in the ordinary manner. A number of balls (shown in dotted lines) are used. As the wash-board E is pivoted, it can readily swing upward and accommodate itself to any obstructions or irregularities in the mass of clothes. As the rubber B rises the clothes are squeezed between the rubbing-bar and a stationary perforated board, G, arranged near the top and rear end of the tub and under the cover.

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

In a washing-machine, the combination, with the curved roller wash-boards C E, the one fixed and the other pivoted at the bottom, of a rubber, B, on the end of a pivoted bar, and arranged to vibrate between the wash-boards, as described.

WILLIS CARTER.

Witnesses:

JAMES ABRAMS,
DAVID DAVIS.