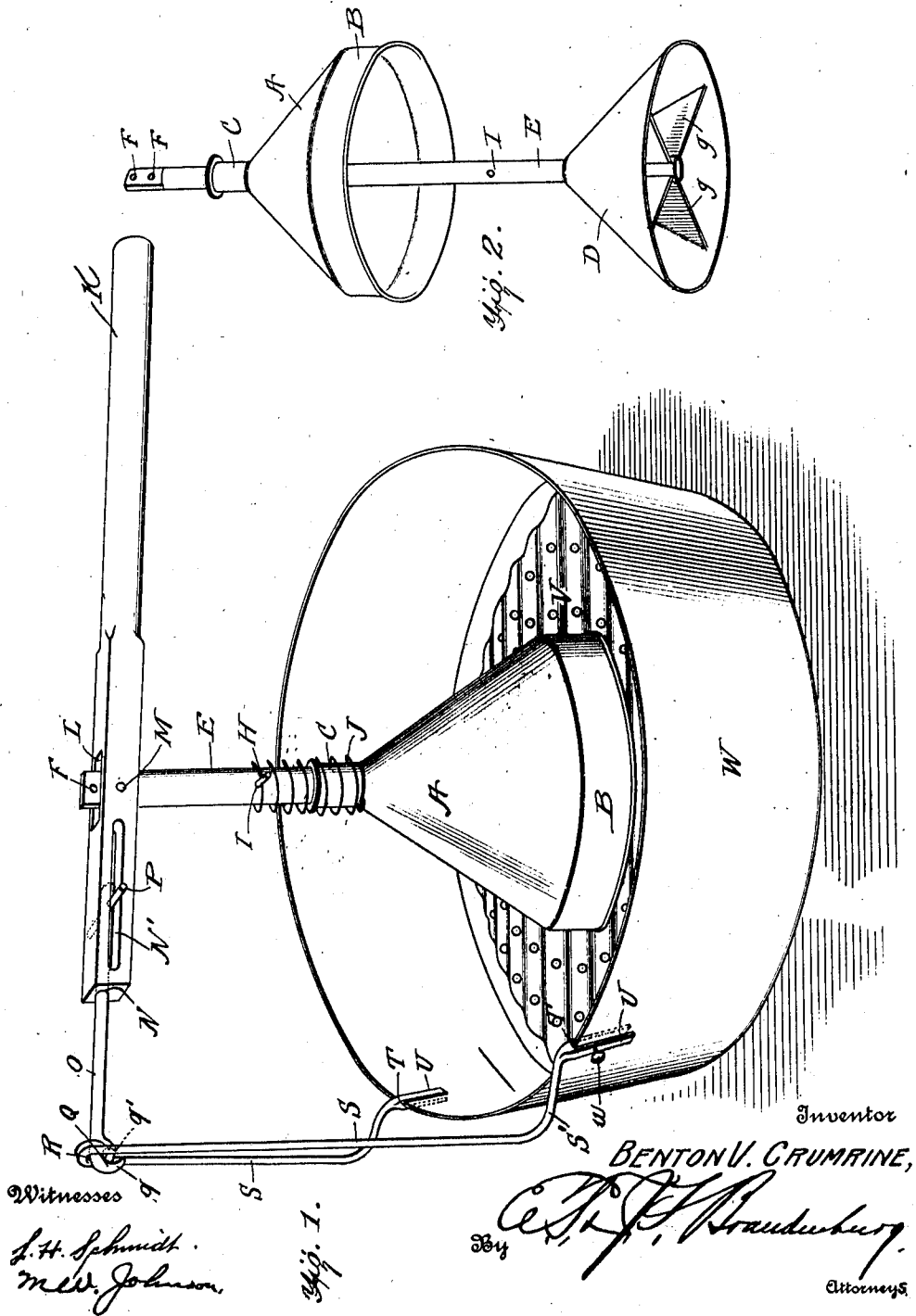


B. V. CRUMRINE.
CLOTHES WASHING MACHINE.
APPLICATION FILED JULY 18, 1910.

1,003,988.

Patented Sept. 26, 1911.



UNITED STATES PATENT OFFICE.

BENTON V. CRUMRINE, OF RED BLUFF, CALIFORNIA.

CLOTHES-WASHING MACHINE.

1,003,988

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed July 18, 1910. Serial No. 572,653.

To all whom it may concern:

Be it known that I, BENTON V. CRUMRINE, a citizen of the United States, residing at Red Bluff, county of Tehama, State of California, have invented a new and useful Improvement in Clothes-Washing Machines.

The object of the invention is, broadly, to provide simple and efficient means for operating a clothes-washing machine, which shall be composed of but few parts, which may be manufactured and sold at a moderate cost, and which shall be positive and reliable in operation, and not likely to get out of order.

The invention also contemplates the provision of simple and efficient means for shifting, from place to place over the surface operated upon, the operating washing-members or pounders.

In the accompanying drawing: Figure 1 is a perspective view of my invention in operative position, and Fig. 2 is a detached, detail view of the washing-machine pounders.

My invention is adapted to be used with washing-machine pounders, and, in the drawing, these pounders are shown as comprising two cone-shaped, open-bottomed casings, an outer casing A, having a lower, circumferential rim B, and a cooperating inner casing D, carried toward the lower end of a vertical shaft E, extending through the casing A and projecting through a short tube C carried at the upper end thereof. Interiorly of the cone D, there may be provided triangular-shaped braces *g*, extending radially from the shaft E to the cone D. Around the tube C, with its lower end resting on the outer casing A, which is loose on the shaft E and its upper end secured to the shaft E by a pin H carried in an opening I by said shaft, is a coiled spring J, of sufficient tension to hold the inner casing up against the outer casing.

K is a horizontal operating-lever, which is fulcrumed, by means of a pin M in a vertical slot L, to shaft E. Lever K is provided, at its forward end, with a longitudinally-extending, horizontal slot N', in which works a pin P carried by the end of the rod O, working through the opening N in the forward end of the lever K, and which opening communicates with slot N'. Lever K

carries at its forward end a self-locking, double hook Q, *i. e.*, a hook formed with two curved jaws, a long jaw *q* and a shorter jaw *q'*, said jaws being curved toward each other, all as clearly shown in Fig. 1.

S, S are depending arms or supporting-standards, preferably curved inward or bowed toward their lower ends, as at S', S', said curved portions terminating in downward-projecting, bifurcated feet U, U, and in the slots T, T formed by said bifurcations, the rim of a tub W may be seated. Set-screws *w* may be provided, to clamp the feet to said rim. The standards S, S carry, at their top an eye or ring R, engaged by the double hooks Q, thus forming a knuckle-joint. Both standards S, S and the rod O constitute supporting mechanism for the forward end of said lever K, with which supporting mechanism said lever is slidably associated or connected, as set forth.

In the operation of the mechanism, it will be noted that, when the lever K in its movement passes its level and moves forward on the rod O, the position of the pounders A, D is changed upon the surface of the clothes operated upon. The pounders may be raised or lowered, to accommodate a greater or less amount of clothes, by simply changing the pin M in the holes F, F in the upper end of the lever K.

Having thus fully described my invention, what I claim as new and desire to secure by Letters-Patent is:

In a clothes-pounding mechanism, clothes-pounding members, and mechanism for changing the position thereof upon the surface operated upon, and comprising: a vertical shaft carrying said pounding-members, a normally horizontal lever pivoted to said shaft, and having at its forward end a longitudinally-extending slot, a rod loosely passing through the forward end of said lever and provided at its rear end with a pin working in said slot and limiting the range of movement of said rod, said rod carrying a double hook at its forward end, and vertical supporting-mechanism pivotally connected at its top with said double hook.

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Witnesses:

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