D. C. CROUSHORN & W. McBEE.

WASHING-MACHINE.

No. 189,612. Patented April 17, 1877.

Fig. 1

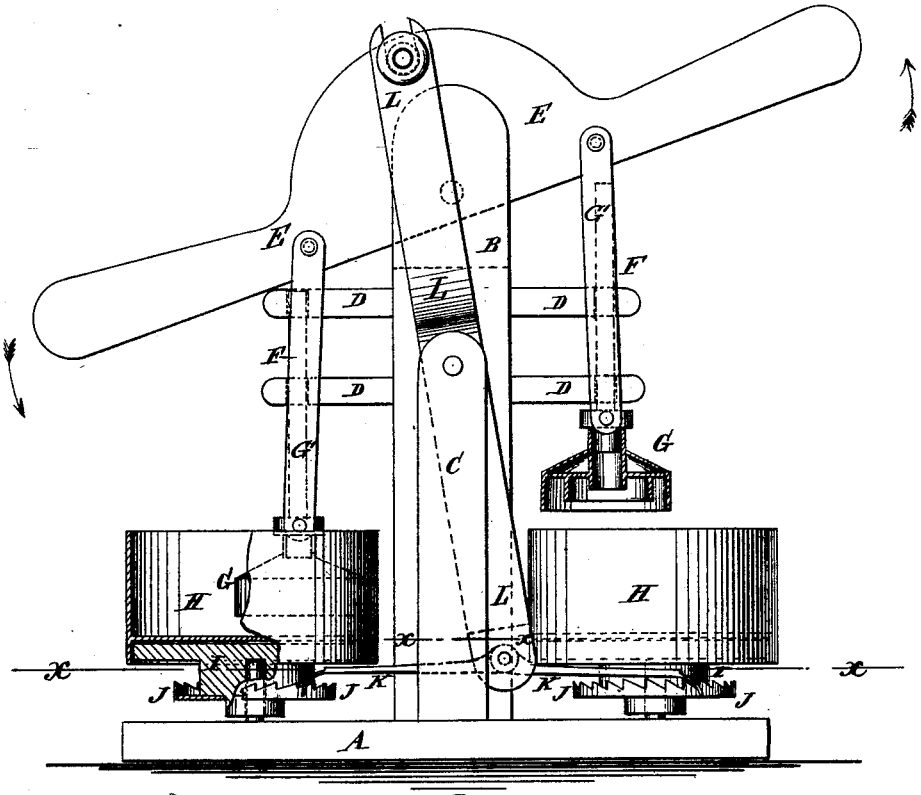
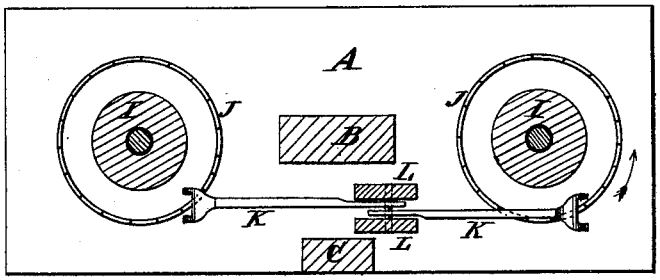


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID C. CROUSHORN AND WILLIAM McBEE, OF PANTHER SPRINGS, TENN.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **189,612**, dated April 17, 1877; application filed September 16, 1876.

To all whom it may concern:

Be it known that we, DAVID C. CROUSHORN and WILLIAM McBEE, of Panther Springs, in the county of Hamblen and State of Tennessee, have invented certain Improvements in Washing-Machines, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, partly in section, of our improved washing-machine; and Fig. 2 is a horizontal section of the same on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

Our invention relates to an improved washing-machine in which white and colored clothes may be washed at the same time, and also some of the clothes be exposed to a greater and some to a less degree of pounding or washing action; and the invention consists of intermittently-rotating wash-tubs in connection with alternating and vertically-reciprocating pounders, which are made of concentric rims that decrease in height from the outside to the inside, and so arranged that the center of the tubs will be within the outer circumference of the pounders.

In the drawing, A represents the base, and B the upright center post of the same, to the top part of which the centrally-fulcrumed handle-beam E is applied. A second shorter post, C, serves to sustain the fulcrum of a lever, L, that is pivoted eccentrically to a small friction-roller of the handle-beam E at the upper end, and to a reciprocating pawl-rod, K, at the lower end. The forked pawl ends of the rods K engage ratchets J of the dish-shaped stands I, that turn in the center posts of the base A. The pawls and ratchets are actuated by the handle-beam, and impart intermittent rotary motion to the wash-tubs H, that are placed on the stands, and extended by bottom rims over the same, so as to protect them against the influence of moisture splashed from the tubs. The center post B is provided with rigid arms D, that guide the rods G′ of the pounders G, which are vertically reciprocated by pivot-rods F from the handle-beam.

The pounders G are made of a number of concentric sections, that decrease in height from the outer section to the innermost, so as to form decreasing concavities or spaces in the same, and strike the blows first with the outer rim, then with the second rim, and so on.

The pounders are made of sheet metal, or other material, with wired edges, to prevent any injury to the clothes.

The position of the pounders in the tubs is arranged in such a manner that the center of the tub falls within the outer circumference of the pounders, which admits of pounding some of the clothes when placed near the center at every stroke, while those near the outer circumference of the tubs are pounded only at each rotation of the tub.

Collars, cuffs, wristbands, &c., are, preferably, placed near the center of the tub, while other articles that require less frequent pounding are placed around the same.

The rotating tubs are at rest when the pounders descend, but are turned by the pawls when the same ascend.

The peculiar construction of the pounders forces the water through the clothes, so as to thoroughly wash the same, while the different sections of the same take hold even of the smaller parts, and exert a pounding or frictional action thereon.

The arrangement of the two separate tubs admits the washing of white and colored goods at the same time, while the balanced pounders facilitate the working of the machine. The strokes are effective, and wash the clothes thoroughly and quickly.

The machine may be furnished at a reasonable price, and worked in a very effective manner.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the swinging handle-beam E, lever L, and reciprocating pawl-rod K, with forked ends, with the ratchet-wheel J of the rotating stands I, to produce the alternating rotary motion of the tubs placed on the stands, substantially as shown and described.

DAVID CLARK CROUSHORN.
WILLIAM McBEE.

Witnesses:
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WM. T. SMITH.