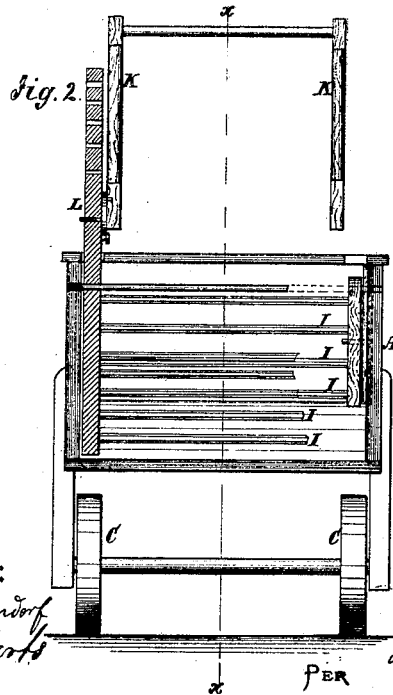
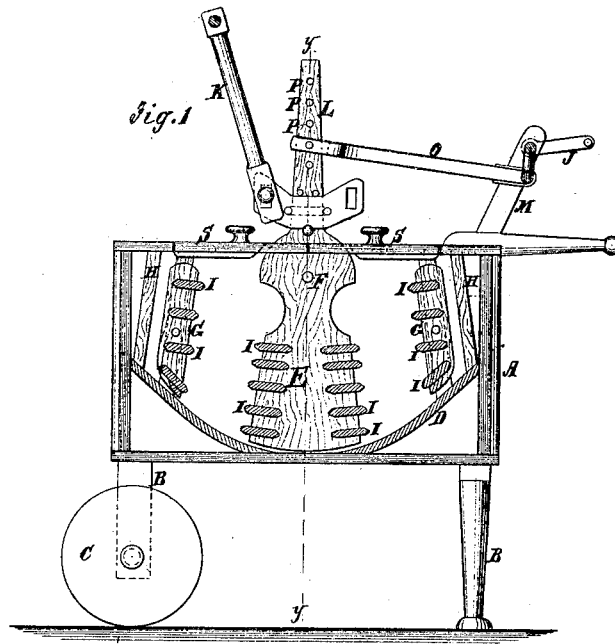


Bain & Kendall,

Washing Machine.

No. 112,107.

Patented Feb. 28, 1871.



Witnesses:
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WILLIAM C. BAIN AND JOHN J. KENDALL, OF TROY'S STORE, NORTH CAROLINA.

Letters Patent No. 112,107, dated February 28, 1871.

IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, WILLIAM C. BAIN and JOHN J. KENDALL, of Troy's Store, in the county of Randolph and State of North Carolina, have invented a new and useful Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to new and useful improvements in machines for washing clothes, and consists in the construction and arrangement of parts as hereinafter described.

In the accompanying drawing—

Figure 1 represents a vertical section of the machine taken on the line *z z* of fig. 2.

Figure 2 is a vertical section taken on the line *y y* of fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the box or tub, which is square or rectangular in form, and elevated on legs, B, and either with or without the wheels or rollers C.

D is a circular bottom.

E is a dasher, which operates upon the principle of the lever, the fulcrum being at F.

G G are heads on each side of the dasher, between which and the dasher the clothes to be washed are placed.

These heads have a pivot in each end, upon which they are hung, so that they can turn and conform to the shape and position of the clothes and pressure of the dasher; but the movement is limited by the stationary pieces H, placed behind each head.

The heads, as well as the dasher, are formed of end pieces, connected together by the slats I. The slats project so that their edges come in contact with the clothes, and they are placed at short distances apart, so that, in squeezing the clothes, the water or suds passes readily between them.

The power is applied to the dasher above the fulcrum F, and the dasher is given a reciprocating or oscillating motion either by means of a crank, J, or by the handles K, or by both at the same time, when

clothes are washed on each side of the dasher; or in heavy work, either side of the machine may be used separately, or both sides at the same time, as may be desired or found convenient.

The handles K may be attached to the ends or levers L of the dasher, in any convenient and substantial manner.

M represents a bracket-stand upon each side of the machine, which supports a double crank-shaft, N, the cranks of which are connected with the levers L of the dasher by two pitmen, marked O.

These pitmen are adjustable on the levers L by means of a series of holes, P, in the latter, as seen in the drawing, so that the throw of the dasher may be varied and the leverage increased or diminished, according to circumstances.

S S are covers to apertures through which the clothes are introduced.

T, handles on one end of the machine.

C represents truck-rollers or wheels. By lifting on the handle T the machine may be moved from place to place with great facility.

In oscillating the dasher the bunch or clothes is turned over at each stroke, thus changing the position of the clothes and subjecting every portion to the squeezing process. The water or suds forced through the heads returns to the center of the circular bottom as the process proceeds.

It will be seen that there is no rubbing or wearing of the clothes. It is simply squeezing out the dirt, and thus cleansing the clothes without subjecting them to friction and the wear and tear incident to that process.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The tub A, bottom D, dasher E G G, slats I, levers L, crank device J N O, and handles K, all constructed, arranged, and combined in a washing-machine, as described.

WILLIAM C. BAIN.
JOHN J. KENDALL.

Witnesses:

Y. P. McMASTERS,
JAMES FOGLEMEN.