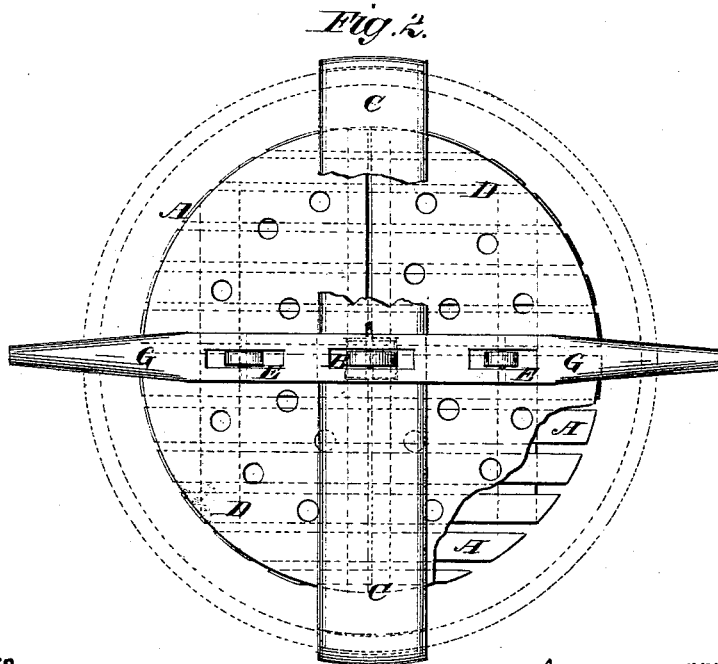
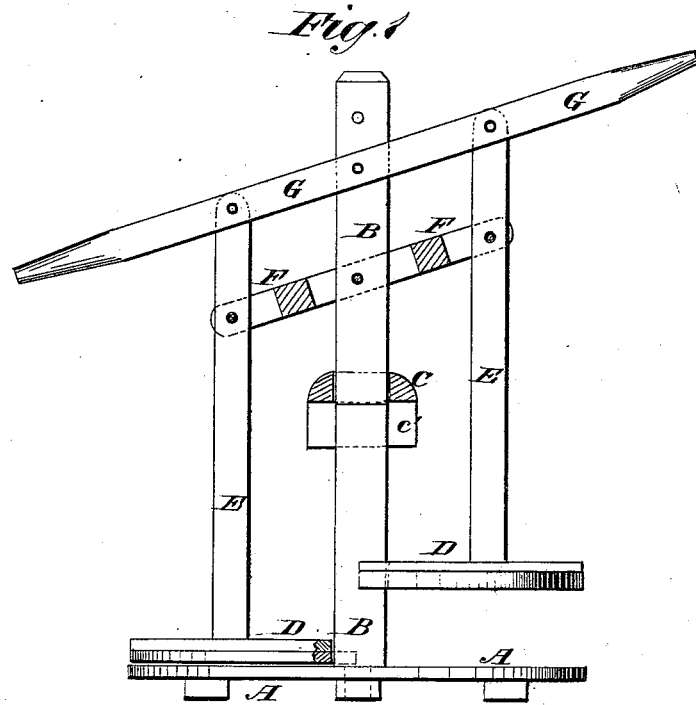


J. W. McQUILLIN & J. A. KNEPPER.
Washing-Machine.

No. 166,539.

Patented Aug. 10, 1875.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN W. McQUILLIN AND JOHN A. KNEPPER, OF DELTA, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **166,539**, dated August 10, 1875; application filed May 28, 1875.

To all whom it may concern:

Be it known that we, JOHN W. McQUILLIN and JOHN A. KNEPPER, of Delta, in the county of Fulton and State of Ohio, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification:

Figure 1 is a side view of our improved machine, parts being broken away to show the construction. Fig. 2 is a top view of the same, parts being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for washing clothes, which shall be so constructed that it may be readily attached to an ordinary wash-tub, which will wash the clothes quickly and thoroughly, and without injuring them, and which shall be simple in construction and easily operated.

The invention will first be described in connection with drawing, and then pointed out in the claim.

A is a grate, consisting of a set of parallel slats, attached to three or more cross-bars, to keep them in position, and to leave a space between them and the bottom of the tub. The grate A is made of such a size as to fit into an ordinary wash-tub. To the center of the grate A is attached the lower end of a post, B, which is made square, and passes up through a square hole in the center of a cross-bar, C. Upon the under side of the ends of the cross-bar C are formed, or to it are attached, lugs or flanges *c'*, to receive the edge of the tub, to which they are secured by set-screws. D are two semicircular disks or plates, which have numerous holes formed through them, to allow the water to pass through freely, and

which may be strengthened by cross-strips. To the middle parts of the dashers D are attached the lower ends of two standards, E, which pass up upon the opposite sides of the post B and cross-bar C, and are pivoted to the slotted ends of the guide-bar F. The guide-bar F has a slot formed through its center, to receive the post B, to which it is pivoted. The upper ends of the standards E and post B enter slots in, and are pivoted to, the lever G, which is placed parallel with the guide-bar F. The ends of the lever G project, so that either of them may be conveniently grasped to operate the machine.

By this construction, as either end of the lever G is pressed downward, the presser D, connected with that end, is forced down upon the clothes, forcing the water out of them, which water escapes downward through the grate A, upward through the presser D, and laterally through the other part of the clothes, which are relieved from pressure by the upward movement of the other presser D, and so on, one of the pressers D always moving downward as the other moves upward, thus washing the clothes thoroughly in a very short time.

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

The combination, with perforated circular grate A, having central post B, of the pounders D D, recessed and sliding on said post as a guide, in the manner shown and described.

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Witnesses:

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