

S. J. MOREY.
WASHING-MACHINE.

No. 184,163.

Patented Nov. 7, 1876.

Fig. 1-

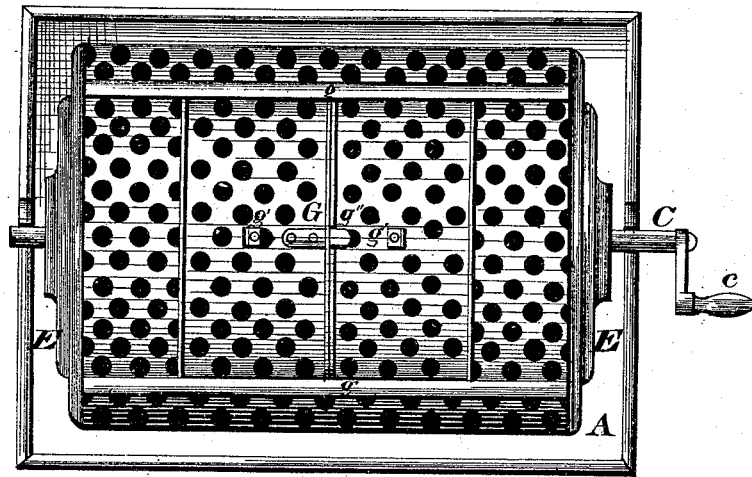
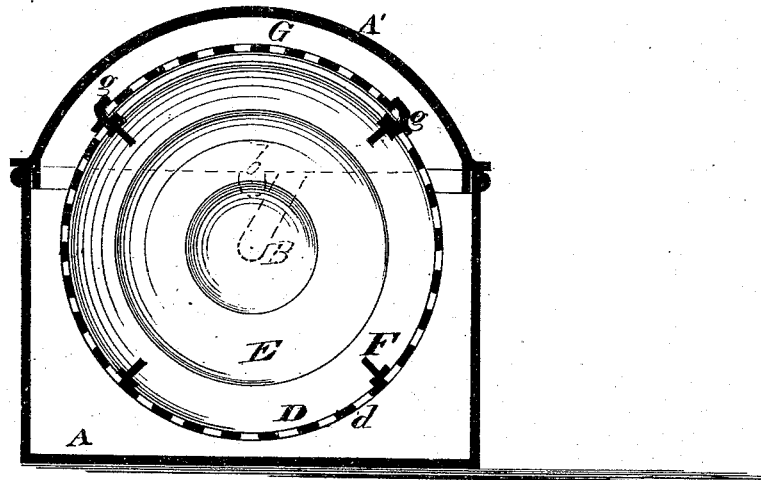


Fig. 2-



WITNESSES

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IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **184,163**, dated November 7, 1876; application filed October 6, 1876.

To all whom it may concern:

Be it known that I, SETH J. MOREY, of Clayton, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

In the drawings, Figure 1 is a plan view of my invention, with the cover of the boiler removed. Fig. 2 is a cross-section of the same, with the cover in place.

My invention relates to rotary washing-machines, having for its object an improved construction which will present a friction-surface easily adapted to operate upon the clothes, and which will be durable in its action. Especially is it an improvement upon Letters Patent of the United States numbered 161,893, granted me April 13, 1875.

Other differences of construction will appear in the following description, and the character of my invention will be stated in the claim.

Referring to the drawings, A is the boiler, and A' its cover or upper section, preferably of a rectangular form, and of a convenient size for the special adaptation intended. It is made entirely of metal, sheet or tinned iron being well suited to my use, and hence it has no wood-joints to swell, and thus loosen the fastenings of the parts. Handles *c*, on either end, give convenience for manipulation, and the boiler may be placed upon any stove, range, or other suitable heating device. Diagonal slots B are cut in either upper end of the lower section of the boiler, which furnish bearings for the two short journals, C, centrally affixed to, and which support, the washing-cylinder. Shallow recesses or slots *b* are made in the upper part of each end of the lower boiler-section, a little to one side of the deep diagonal slots, in which small slots *b* the journals C can find bearing, as the cylinder is raised from the body of the lower section A, and rested on top thereof.

The washing-cylinder D consists of two cir-

cular end pieces or disk-heads, E, of a curved surface or angular contour, and slightly projecting outward from the periphery to the center of each, whereby the strength of same may be materially increased. Ribs F run the length of the cylinder, and, connecting the two heads of same, form therewith the skeleton or frame-work of the rotary cylinder. This frame is covered with any suitable metallic netting or reticulated covering *d*, though preferably I use brass-wired cloth, four by four. Guideways *g* secure from lateral displacement the doors G, sliding therein parallel with the length of the cylinder. Catches *g*¹ may be used in operating these doors, and an engaging device, *g*², be employed in securing together the two doors or sliding sections G as they are closed.

In operating the foregoing machine, the boiler A is suitably filled with water, as it is connected with the stove or other heating source, and, upon the suds becoming heated, the garments to be washed are introduced into the cylinder through the entrance afforded, by the doors G being slid each to one end, respectively of the cylinder. The doors are then slid back into a closed position, by means of the little hand-catches *g*¹, when they may be securely retained in a close and locked condition by the fastener *g*². The cylinder is revolved by means of the crank-handle *c*, extending out to one side from, and formed in the same piece with, one of the small journals C. By the peculiar metallic open work of the covering, the garments are subjected to the frictional action of same as they are turned by the revolution of the cylinder in the hot suds. When the clothes are sufficiently cleansed the cylinder is lifted out from the deep diagonal slots, which subjects the clothes to the water, and is placed in the small slot *b* which raises it above the level of the water, and allows the clothes to be partially freed from their gathered or soaked water, which latter drips therefrom back into the boiler-water. The cylinder is also revolved in this latter position, which more thoroughly causes the water to be shaken or rubbed from out the garments; the latter can then be taken directly to a rinsing-tub and treated as is usual.

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

1. In a washing-machine, the combination with the boiler, provided with lower diagonally-slotted bearings and short upper bearings, of a metallic reticulated cylinder, having short end journals and a suitable revolving handle, substantially as and for the purpose described.

2. The rotary washing-cylinder, consisting in the combination, with the cylinder-heads, having an angular curvilinear construction, of

connecting-ribs, and an open-work metallic covering, the latter constructed with sectional gates sliding in longitudinal guides, and provided with hand-catches and a locking device, substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 25th day of September, 1876.

SETH J. MOREY. [L. s.]

Witnesses:

A. S. McDOWELL,
J. W. ANDERSON.