

T. AUSTIN.
Washing-Machine.

No. 203,695.

Patented May 14, 1878.

Fig. 1.

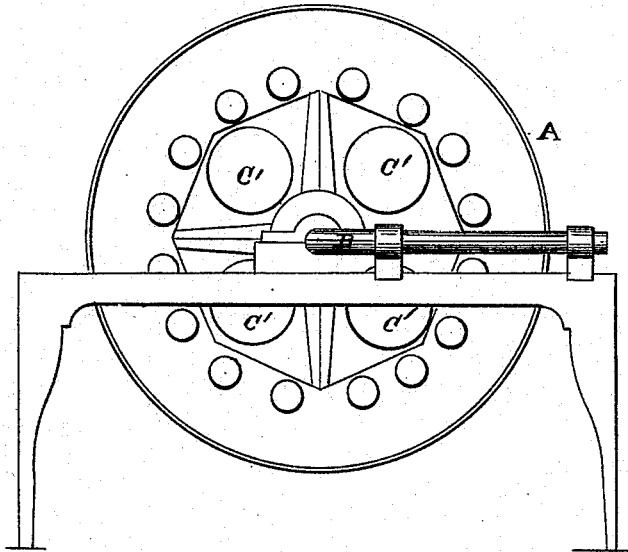
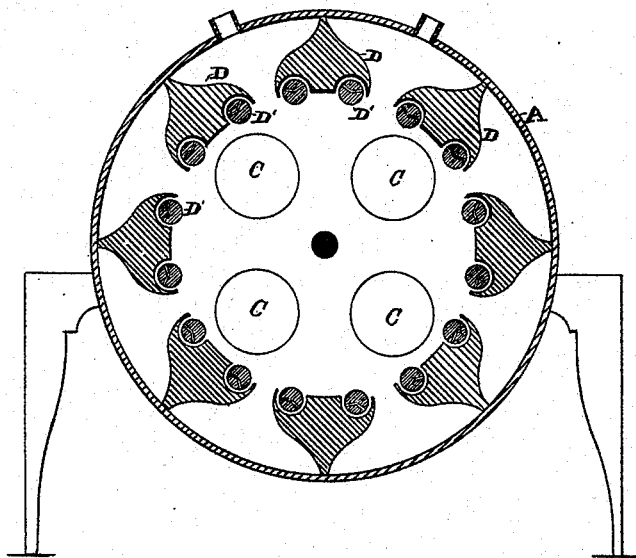


Fig. 2.



Witnesses
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Fig. 3.

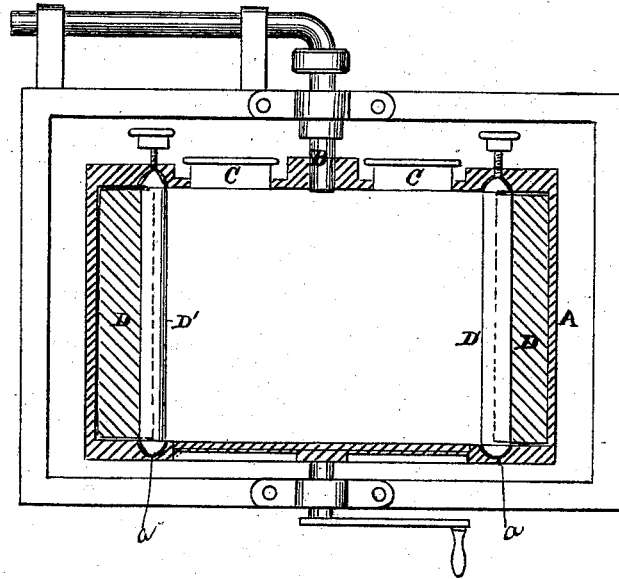
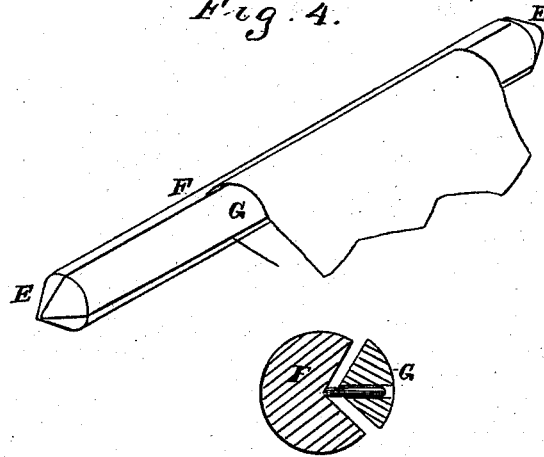


Fig. 4.



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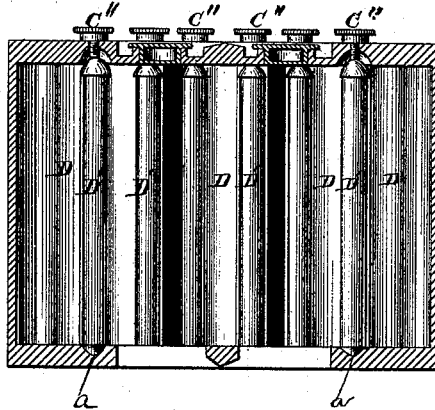
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Fig. 5.



Attest

Geo. L. Boone
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UNITED STATES PATENT OFFICE.

TRUMAN AUSTIN, OF VIRGINIA CITY, NEVADA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **203,695**, dated May 14, 1878; application filed December 29, 1877.

To all whom it may concern:

Be it known that I, TRUMAN AUSTIN, of Virginia City, county of Storey, State of Nevada, have invented a Washing-Machine; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to certain improvements in washing-machines; and it consists in a novel method of suspending or hanging the clothes within the machine, and also in the employment of peculiar buckets for lifting and discharging the water, and in the general arrangement of parts.

In the accompanying drawings, Figure 1 is a side view of my machine. Fig. 2 is a vertical section. Fig. 3 is a horizontal section. Fig. 4 represents minor details of construction. Fig. 5 is a plan of a cross-section, showing the construction of the interior.

A is a cylindrical or other shaped vessel, which is mounted so as to turn upon suitable journals, one of which, B, may be made of gas-pipe or in the form of a hollow shaft, having a joint to allow it to rotate without leaking the steam or water which may be introduced through it. I have shown the ends of my cylinder with openings C, through which the clothes are introduced and removed.

The interior of my machine is provided with peculiarly-shaped buckets D, which are fixed around the periphery, and are arranged to dip into the water which stands in the bottom of the machine as they are rotated, so as to become filled. In front of the faces of the buckets, which are toward the center or in a circle smaller than that of the buckets, are the rollers D' for holding the clothes. These rollers are made in two parts, F and G, as shown in Fig. 4, so that the clothes may be placed between the parts, and the ends are beveled or made conical at E E, one end fitting in sockets *a a* in one of the cylinder-heads, and the other ends being held by cup-shaped set-screws C' C', running through the other cylinder-head, which is provided with the openings C C for the introduction of the holding-rollers after the clothes are clamped therein.

The operation will thus be to rotate the vessel, and the clothes and buckets will be

plunged into the water, the buckets being filled. When, by the continued rotation, the buckets move up on the side and toward the top, the clothing upon the different rollers will drop against the buckets below and prevent the water from running out at once, and the clothes will at the same time rub together, so as to cleanse themselves. When the buckets reach a certain point—from sixty degrees to eighty degrees—in their revolution, the water will be thrown out from them, and part of it will run down upon the depending clothes, while the remainder will be thrown across, so as to strike the clothes upon the opposite side at a point depending upon the speed of rotation. The continuous movement of the clothes causes them to rub against each other, while the buckets alternately fill and discharge their contents over and against the clothing, so as to effectually cleanse them.

The caps C' on the openings C can be secured in any suitable manner, and have an elastic packing applied, if desired, to make the joint water-tight.

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

1. The rotating cylinder A mounted on hollow journals, to be supplied with steam or water, and having the fixed buckets D, together with an interior series of supporting-rollers for clothes, substantially as shown, and for the purpose herein described.

2. The bars or rollers D' formed in two parts, as shown, and having the conical ends E fitting into conical adjusting-sockets at each end, for the purpose of holding the parts together, substantially as shown, and for the purpose herein described.

3. The rotating cylinder A provided at one side with conical sockets and at the other with set-screws C'', having conical sockets formed in their ends, in combination with the divided bar F G, provided with conical ends, substantially as described, and for the purpose set forth.

TRUMAN AUSTIN. [L. S.]

Witnesses:

GEO. H. STRONG,
FRANK A. BROOKS.