

A. GREGG.
Washing-Machines.

No. 139,889.

Patented June 17, 1873.

FIG. 1.

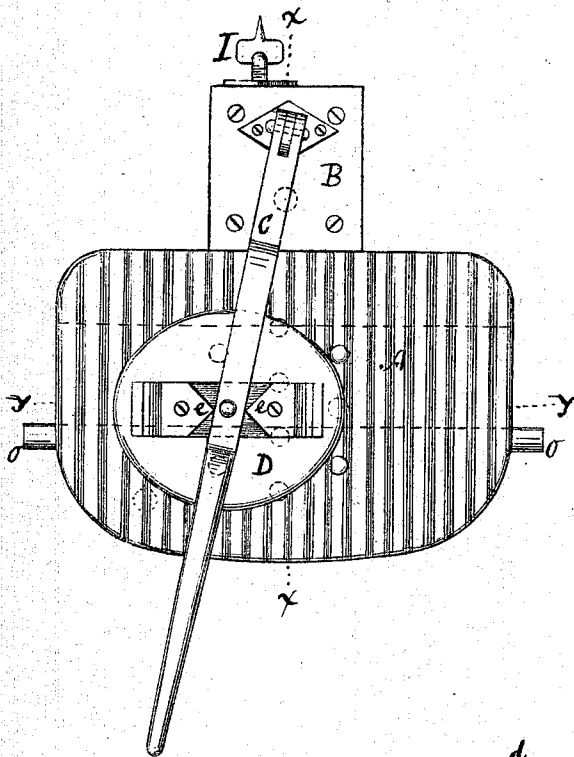


FIG. 2.

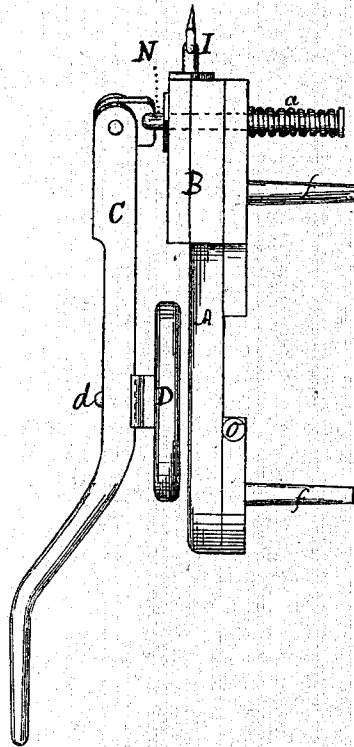
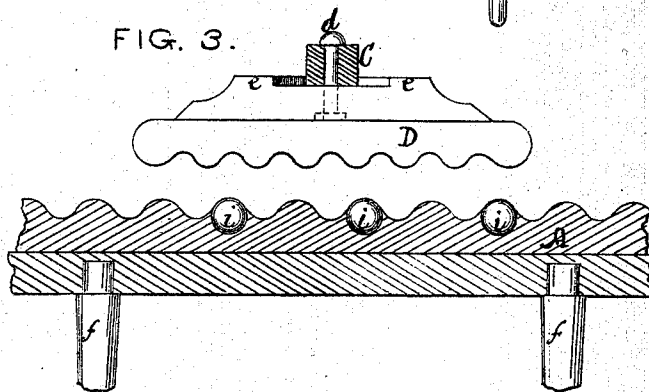


FIG. 3.



ATTEST.

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ALLEN GREGG, OF SPRINGBOROUGH, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **139,889**, dated June 17, 1873; application filed March 19, 1873.

To all whom it may concern:

Be it known that I, ALLEN GREGG, of Springborough, in the county of Warren, in the State of Ohio, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1 represents a plan or top view of my machine. Fig. 2 represents a vertical section of the same taken at line *xx* of Fig. 1. Fig. 3 represents a vertical section of same taken at line *yy* of Fig. 1.

The object of my invention is to provide a washing-machine which may be used in an ordinary wash-tub; and it consists in the combination of a corrugated table and grooved rubbing-board with a hinged and yielding hand-lever and other auxiliary devices herein-after described.

The table A, supported on three legs *f*, is provided with the head-block B, having a vertical hole through it for the hinge-rod N to work in. The spiral spring *a* around the hinge-rod acts through said rod (which is flattened at its upper end to form part of the hinge) upon the lever C. The corrugated rubbing-board D is secured by a central pivot, *d*, under lever C, as represented in the drawings. The V-shaped blocks *e* serve to limit the movements of the rubbing-board upon its pivot.

To prevent wear and injury of the clothing in washing it between two corrugated surfaces I have provided the table A with a number of friction-balls, *i*, which are free to revolve in their sockets in the face of the table. As the balls *i* project slightly above the surface of the stationary table they serve the double purpose of relieving the reciprocating rubber D from actual contact with the table A, which would wear the clothing while being washed, and also prevent the articles being washed from be-

coming rolled up by the reciprocating action of the rubbing-board D.

When the machine is placed in a common wash-tub the short legs *f* will support it at an elevation sufficiently high to allow the curved end of hand-lever C to project over the edge of the tub; and the short arms *o* will bear against the inside of the tub so as to allow a space around the edge of table A, to afford access to the water within the tub, which may be supplied with sufficient water to cover the upper surface of said table A; and to retain the machine in position in the tub, I have provided a thumb-screw, I, having its seat in the head-block and furnished with a sharp point which will be inserted in the side of the tub by turning the screw, and thus secure the machine firmly in the tub.

The clothes to be washed will be placed on the table A under the rubber D, and the latter will be moved by the lever C backward and forward, pressing and rubbing the clothes. The spring *a* which holds the rubber upon the clothes will yield sufficiently to allow the rubber D to adjust itself to varying thicknesses or quantities of clothes which are being washed.

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

1. The combination of short arms *o* and thumb-screw I with the table A for centering and retaining the machine within a wash-tub, in the manner and for the purpose described.

2. The arrangement of the socketed balls *i* in the face of table A to operate in combination with the corrugated rubber D and table A, in the manner and for the purpose described.

Witness my hand this 13th day of February, A. D. 1873.

ALLEN GREGG.

Witnesses:

H. P. K. PECK,
E. H. MILLER.