

E. F. O'Neill,

Washing Machine,

No 83,535.

Patented Oct. 27, 1868.

Fig 1

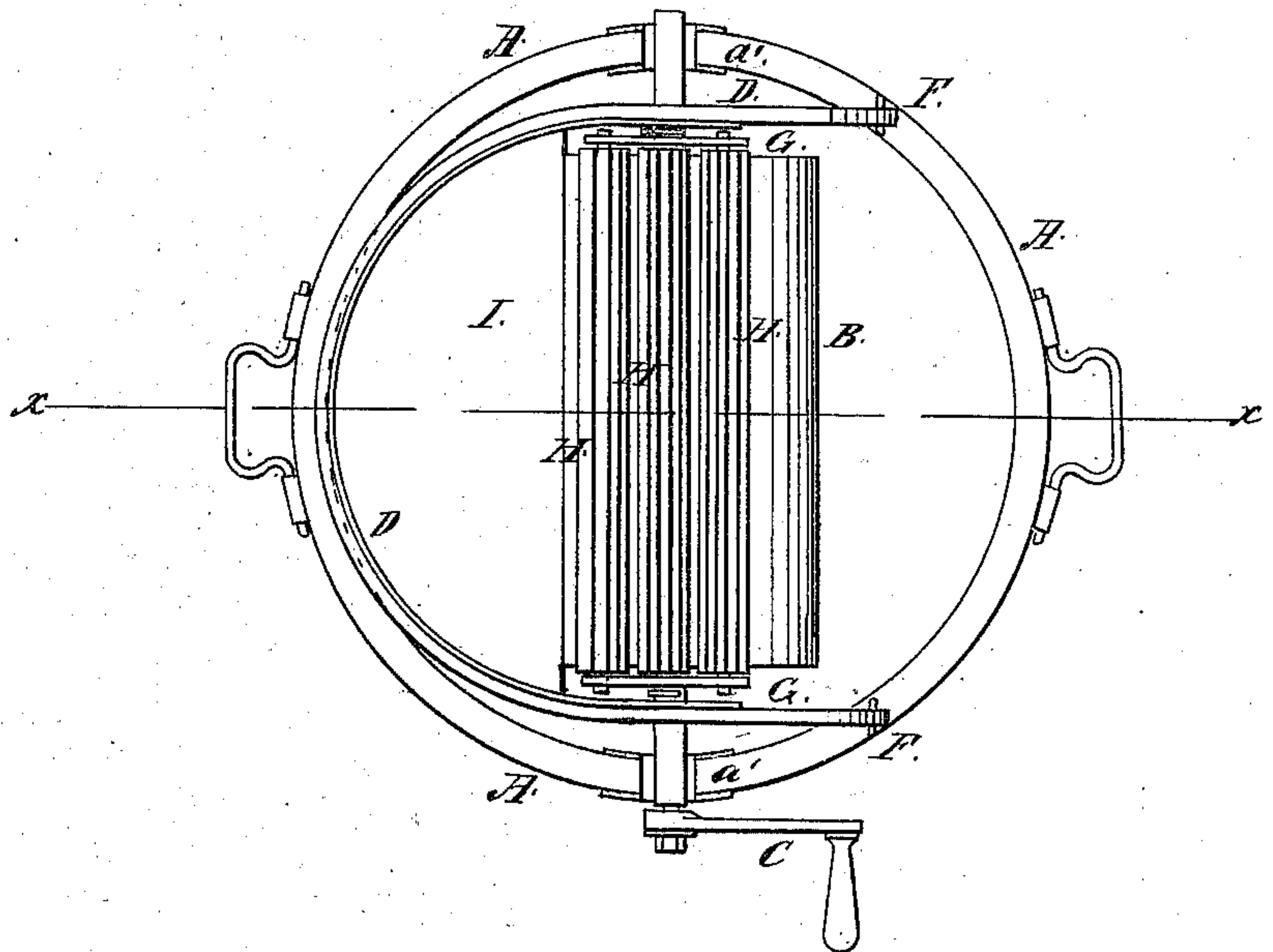
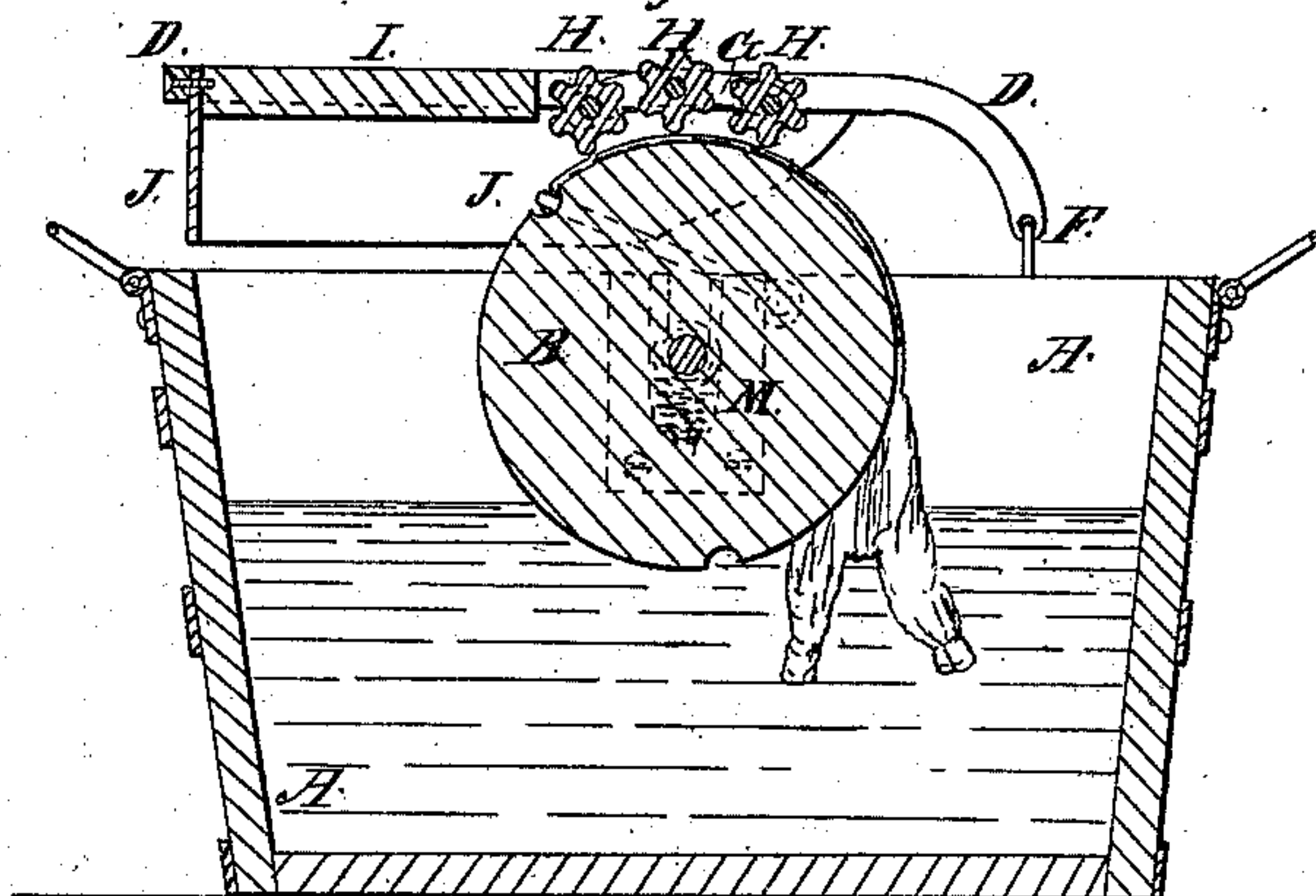


Fig 2.



Witnesses:
Wm A Morgan
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United States Patent Office.

E. F. O'NEILL, OF PRAIRIE DU CHIEN, WISCONSIN.

Letters Patent No. 83,535, dated October 27, 1868.

IMPROVED WASHING-MACHINE.

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

To all whom it may concern:

Be it known that I, E. F. O'NEILL, of Prairie du Chien, county of Crawford, and State of Wisconsin, have invented a new and useful Improvement in Washing-Machines; and I 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 drawings, forming a part of this specification.

Figure 1 is a top view of my improved washing-machine.

Figure 2 is a vertical cross-section of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved washing-machine, simple in construction, easily operated, and effective in operation, doing its work quickly and well, and in such a manner as not to injure the clothes or break the buttons; and it consists in the construction and combination of the various parts, as hereinafter more fully described.

A is the tub, the sides of which are slotted from the upper edge, to receive the journals of the cylinder B.

In the bottom of the slots *a'* are placed small coiled or other springs, M, upon which the journals rest, so that the said cylinder may give, to adjust itself to the varying thickness of the clothes being operated upon.

To the projecting end of one of the journals of the cylinder B is attached the crank C, by which the cylinder is operated.

D is a bow-lever, the ends of which are curved or bent downward, and have eyes formed in them, to hook upon the hooks F, attached to the tub A, pivoting the lever to the tub, so that the said lever may give or move upon its pivoting-points, to accommodate the machine to the varying thickness of the clothes passing through it.

H are three or more small rollers, the faces of which are grooved longitudinally, and the central one of which is pivoted to the bow-lever D, in such a position as to be directly over the cylinder B.

The side rollers H are pivoted to arms G, which are slightly curved, and the middle part of which is pivoted to the pivots of the central roller H, so that the three rollers may be arranged in a slightly-curved position, to correspond with the curve of the cylinder B,

as shown in fig. 2, and, at the same time, be free to adjust themselves to the clothes passing through the machine, between them and the said cylinder B.

The arch or bow-part of the lever D may be kept in proper form by the board I, which also forms a partial cover for the tub.

J is a downwardly-projecting apron or flange, attached to the board I and bow-lever D, to prevent the water from spattering out of the machine, when pressed out of the clothes, by the action of the rollers H and cylinder B.

L is a loop, made of galvanized wire, so that it may not corrode or color the clothes, the ends of which are pivoted to the ends of the roller B, and which passes along longitudinal grooves in the face of said cylinder, so that, as the cylinder revolves, the loop L, and the clothes passed through it, will drop away from the face of the cylinder B, and swing in the water, the clothes being thus swept loosely through the water.

In using the machine, one corner of the garments to be washed is passed under the wire loop L. The bow-lever D and its corrugated rollers H are then turned down into the position shown in figs. 1 and 2, and pressed down with one hand, while the other revolves the roller or cylinder B, by means of the crank C.

By revolving the roller B in one direction, one side of the clothes will be rubbed, and, by turning it the other direction, their other side will be rubbed, the operator being able, at all times, to see the clothes, and thus know when they are clean.

Where dirty spots are seen upon any part of the clothes, by moving the crank C back and forth a few times, that part of the clothes may be rubbed until clean.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the bow-lever D, board I, apron or flange J, arms or bars G, and three or more corrugated rollers H, with each other, and with the tub A and cylinder B, substantially as herein shown and described, and for the purpose set forth.

E. F. O'NEILL.

Witnesses:

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