

M. W. STAPLES.
Washing-Machines.

No. 144,365.

Patented Nov. 4, 1873.

FIG. 1.

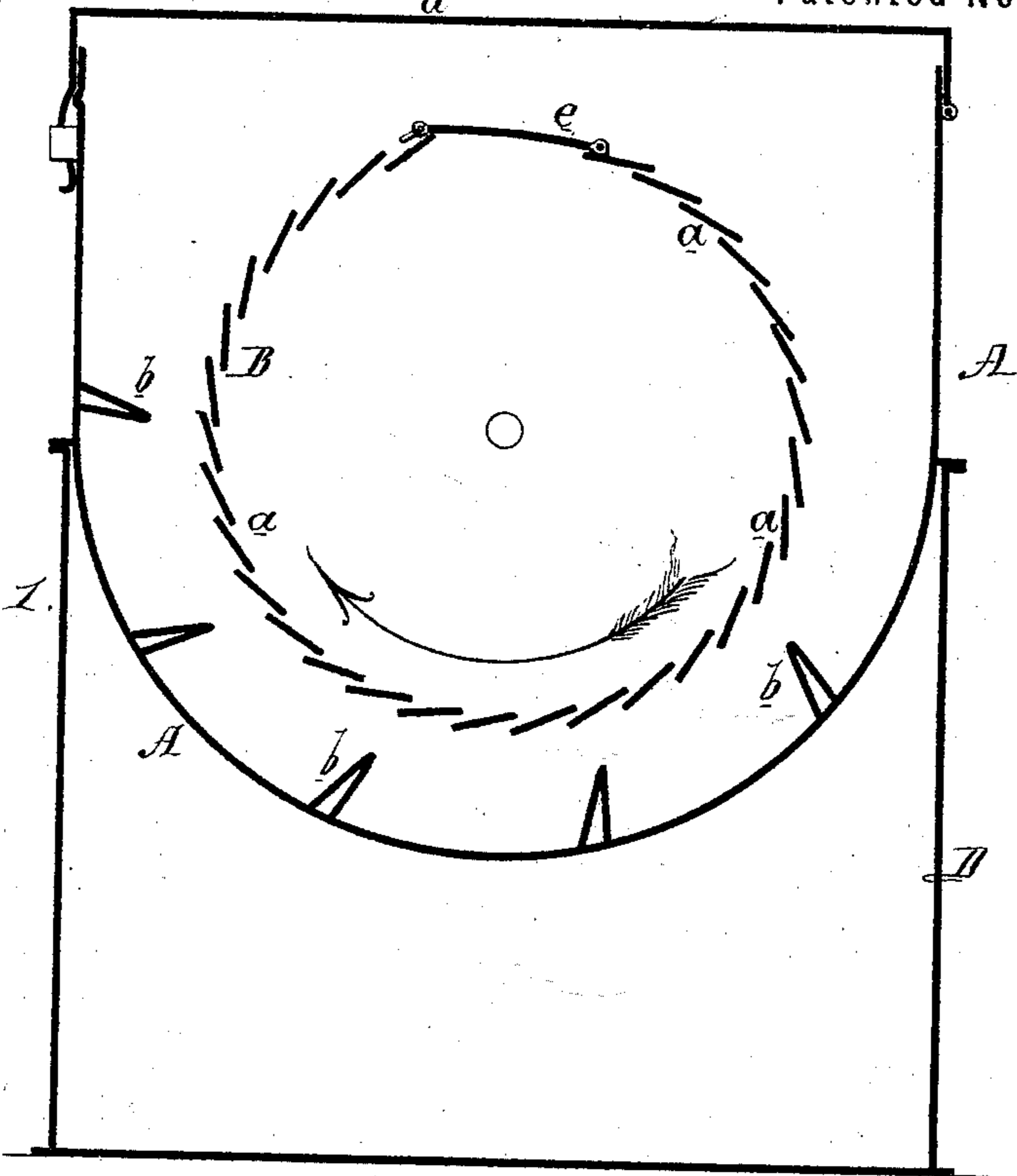
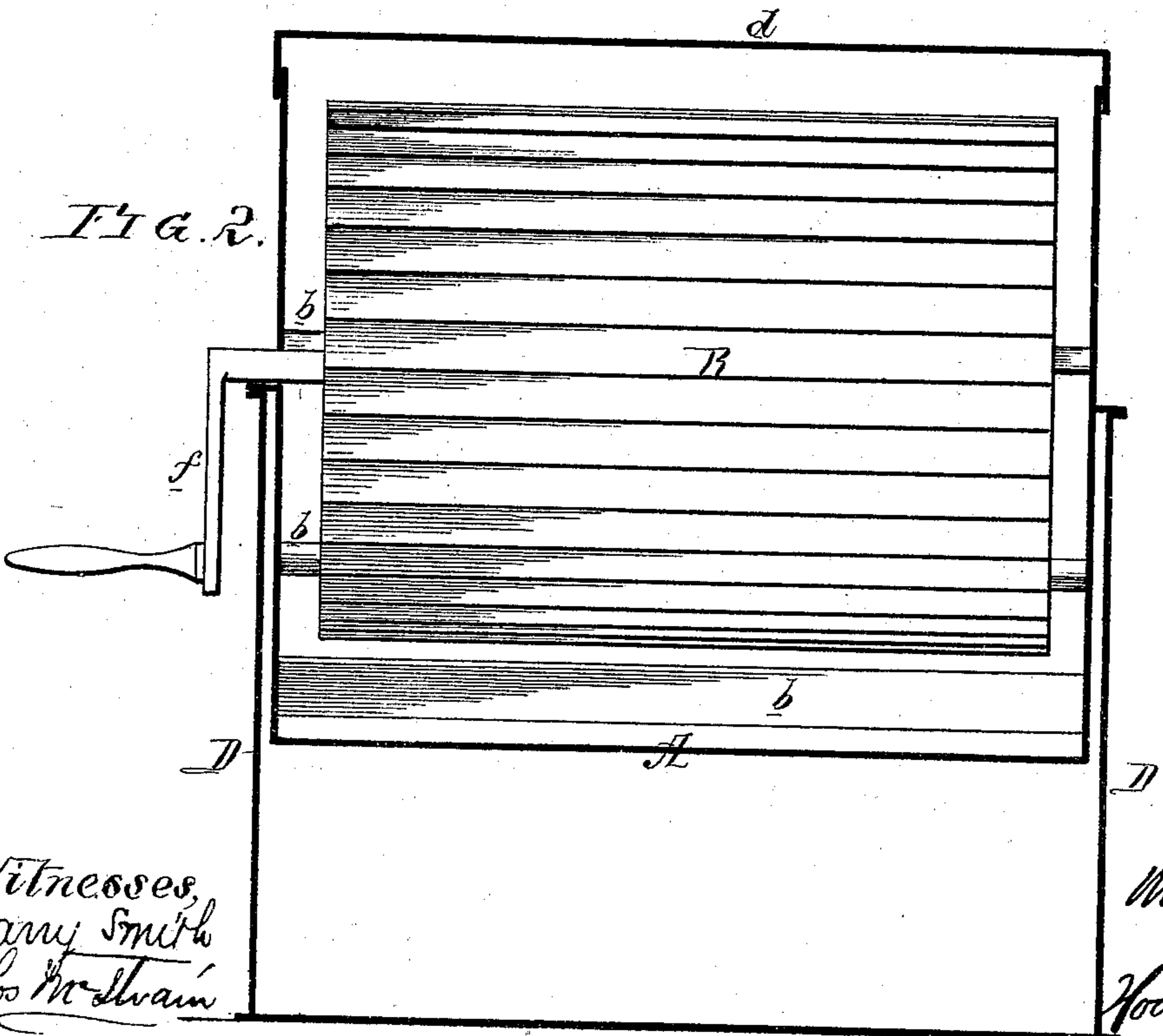


FIG. 2.



Witnesses,
Harry Smith
Geo. McStrain

M. W. Staples
by his Atty.
Horsman and Son

UNITED STATES PATENT OFFICE.

MOSES W. STAPLES, OF RICHMOND, VIRGINIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **144,365**, dated November 4, 1873; application filed September 11, 1873.

To all whom it may concern:

Be it known that I, MOSES W. STAPLES, of Richmond, county of Henrico, State of Virginia, have invented an Improvement in Washing-Machines, of which the following is a specification:

The object of my invention is a machine for rapidly and thoroughly washing clothes, &c.; the said machine consisting, mainly, of a water-tank, A, having a semi-cylindrical base with inclined ribs or flanges *b*, combined with a revolving hollow cylinder, B, for the reception of the clothes contained within the said tank, and composed of overlapping slats *a*, arranged obliquely with spaces between them, through which and through the clothes the water is forced when the said cylinder is turned in the direction of the arrow, all as shown in the vertical section, Fig. 1, of the accompanying drawing.

The tank A is supported in the present instance upon the top of a stove or heater, D, shown in Fig. 1, and in the transverse section, Fig. 2, by which the water in the said tank may be boiled or maintained at the required high temperature, and at the top of the tank is a hinged lid, *d*, on raising which access may be obtained to the cylinder B through an opening, which is provided with a hinged lid, *e*. One of the journals of the cylinder extends through a suitably-packed bearing in the side of the water-tank, and is provided with a crank, *f*, Fig. 2, by which the said cylinder may be revolved.

The tank having been partially filled with water and suds, and the clothes introduced

into the cylinder, the lids *d* and *e* are closed and the said cylinder is turned in the direction of the arrow, Fig. 1. The obliquely-arranged slats *a*, which are sufficiently overlapped to prevent the escape of the clothes from between them, will have a tendency to carry the water in the tank in the same direction in which the cylinder is turned; but this tendency will be resisted by the ribs or flanges *b*; hence, as the cylinder revolves, forcible currents of water must pass between the slats and permeate the agitated clothes and dislodge the particles of dirt from the interstices of the fabric.

The above result might be attained in a measure by simply roughening or corrugating the interior surface of the base of the tank; but I prefer to employ the ribs *b*, arranged as described.

The tank might be supported upon a suitable frame or standards in place of the stove D; but I prefer to use the latter as a combined support and heater.

I claim as my invention—

The combination, in a washing-machine, of a hollow revolving cylinder, B, consisting of overlapping slats *a* and inclined ribs or flanges *b*, arranged within the outer casing, as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MOSES W. STAPLES.

Witnesses:

D. S. MORRISON,
C. O. STAPLES.