W. Polyblank,

Washing Machine,

No. 45,271. Patented Nov. 29, 1864.

Fig: 1.

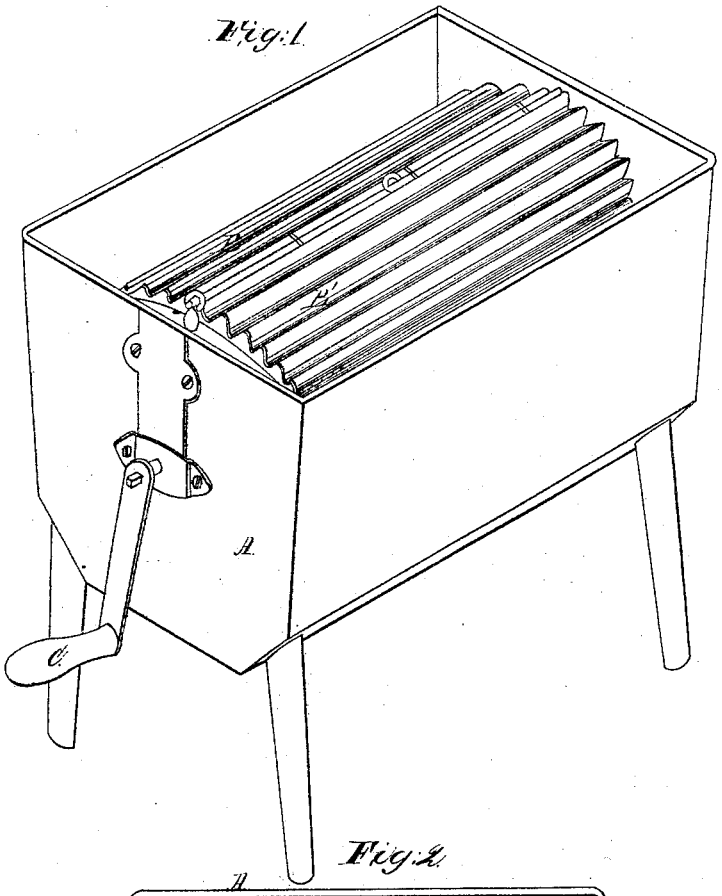


Fig: 2.

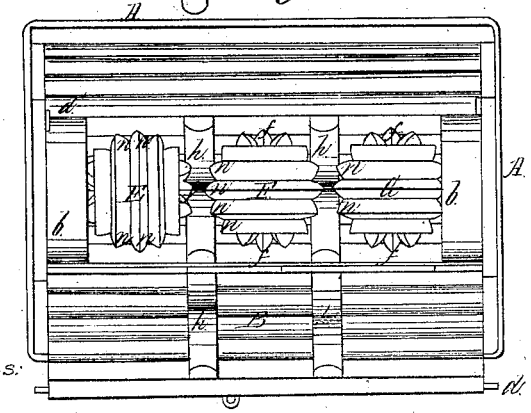
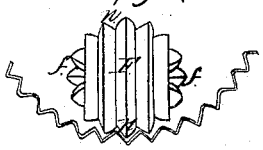


Fig: 3.



Witnesses:

W. H. Gunnidge
J. Holmes

Inventor:

W. Polyblank

UNITED STATES PATENT OFFICE.

WILLIAM POLYBLANK, OF CLEVELAND, OHIO.

IMPROVED WASHING-MACHINE.

Specification forming part of Letters Patent No. 45,271, dated November 29, 1864.

To all whom it may concern:

Be it known that I, W. POLYBLANK, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a top view. Fig. 3 is a sectional view.

Like letters of reference refer to like parts in the different views.

My improvement relates to constructing a washing-machine with a corrugated revolving cylinder having fluted or corrugated balls inside, that in whatever way the cylinder is turned or operated the corrugations of the balls will fit into the corrugations of the cylinder, rubbing and washing the clothes in the most desirable manner.

In Figs. 1 and 2 A is the tub or outer casing of the machine, supported by legs or suitable standards underneath.

B is the revolving cylinder inside of the tub, made of zinc or other suitable material, fluted lengthwise, as represented, attached at the ends to circular wooden heads *b b*, that fill up the ends of the cylinder, excepting round the corrugations, which are open and and allow the water from the tub or case A to enter the cylinder. In the heads *b b* are secured journals or shafts that support the cylinder in the tub, to one of which, that extends through on the outside, is connected the handle C, by means of which the cylinder is revolved. A section of the cylinder forms a door, B′, (represented open in Fig. 2,) which when closed is secured in place by the rod *d* and catch *d′*.

E, F, and G are corrugated balls that would be perfectly round if not cut out as represented, the projections *n* of which being of such a form and size as to fit into the corrugations of the cylinder, as shown in Fig. 3. The ends *f f* of these balls are weighted for the purpose of keeping the corrugations of the balls in a proper direction in relation to the corrugations of the cylinder, as at F and G, Figs. 2 and 3, so that they will always mesh into each other as the cylinder is revolved. It matters not in what position the balls are placed in the cylinder, as at E in Fig. 2, the weighted ends, as the cylinder is revolved, tend to move in tangentical lines until they are brought in a line with the rotation of the cylinder, when the projections *n* fit into the corrugations of the cylinder, as at F and G. The weight of the balls also, as they rub about, aid in causing them to mesh into the corrugations. The balls are separated from each other and guided also by the circular frames *h*, designed to give strength and firmness to the sides of the fluted cylinder.

In operating this machine the clothes are put into the cylinder at the door B′, which is then closed and secured in place by slipping the rod *d* into the catch *d′*, when the cylinder is revolved by the handle C, and it is supplied with water coming in at the ends from the tub. The clothes are soon thoroughly cleansed by being rubbed and pressed between the corrugated balls and sides of the cylinder.

The weight of the balls increases the pressure on the clothes, rubbing and washing them in the most desirable manner, the water and clothes being agitated by the motion of the cylinder.

A machine can be constructed with any number of corrugated balls—one or more, as may be desired. When the balls are placed promiscuously with the clothes in the cylinder, they always get and retain their proper position, as described.

The water is drawn from the tub through a faucet in the under side.

The circular frames *h*, around the inside of the cylinder, keep the clothes up loose and prevent them from being flattened down on the corrugations between the balls and cylinder, as they otherwise would, thereby effectually washing the clothes.

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

The special arrangement of the weighted corrugated balls, in combination with the rotating corrugated cylinder B, circular frames *h*, and tub A, when operating conjointly, as and for the purpose set forth.

WILLIAM POLYBLANK.

Witnesses:

J. LEONARD,

A. W. MCCLELLAND.