(No Model.) 2 Sheets—Sheet 1

O. J. SMITH & R. J. JOHNSON.

STEAM WASHER.

No. 285,934. Patented Oct. 2, 1883.

Fig. 1.

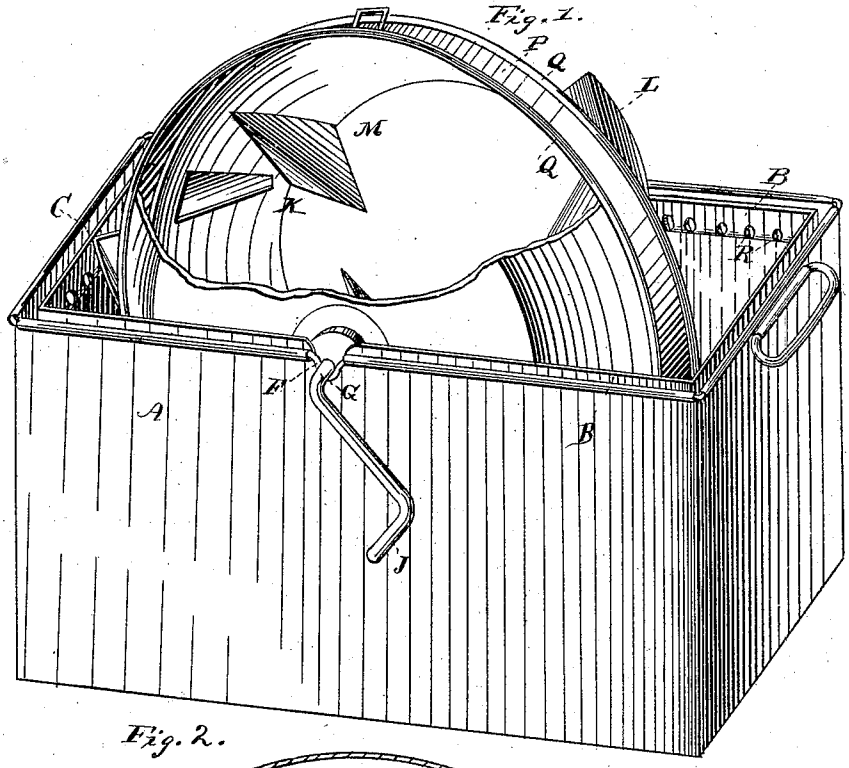
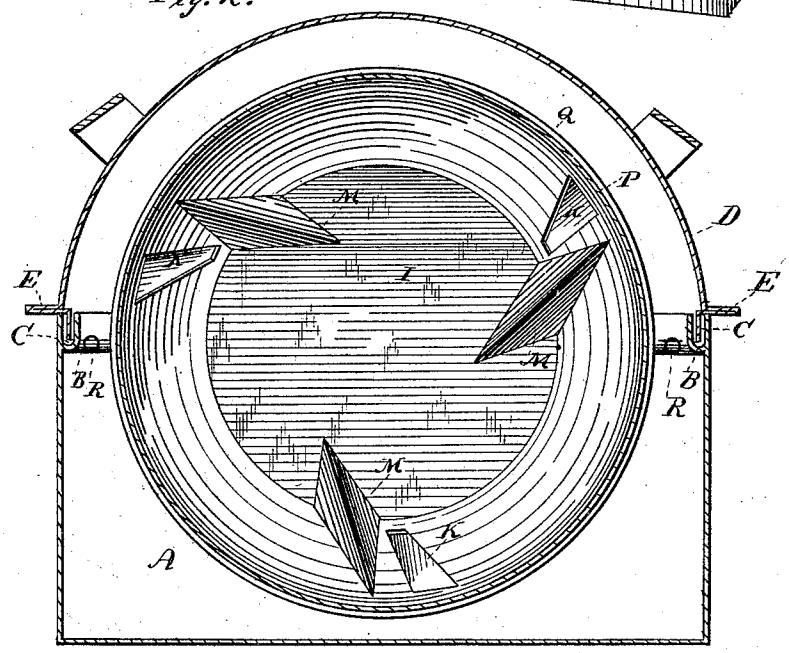


Fig. 2.



WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

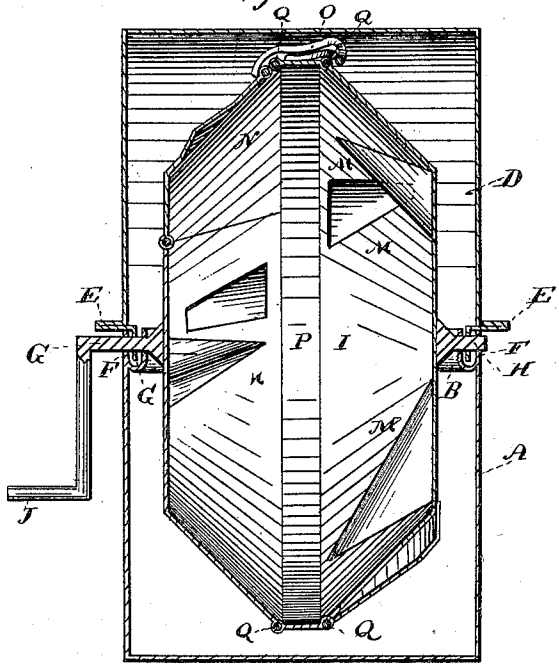
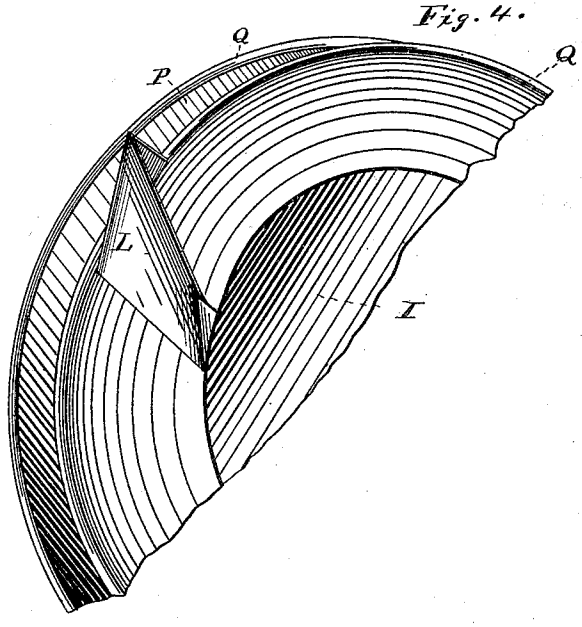


Fig. 4.



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UNITED STATES PATENT OFFICE.

OBEDIAH J. SMITH AND RICHARD J. JOHNSON, OF MEADVILLE, MISSOURI.

STEAM-WASHER.

SPECIFICATION forming part of Letters Patent No. 285,934, dated October 2, 1883.

Application filed April 24, 1883. (No model.)

To all whom it may concern:

Be it known that we, OBEDIAH J. SMITH and RICHARD J. JOHNSON, citizens of the United States, residing at Meadville, in the county of Linn and State of Missouri, have invented a new and useful Steam-Washer, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to steam wash-boilers; and it consists in certain improvements in the construction of the same, the object of which is to produce a wash-boiler which shall be simple in construction and convenient and effective in operation, as will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of our improved wash-boiler with the cover removed and parts of the cylinder having been broken away for the purpose of showing the construction more clearly. Fig. 2 is a longitudinal vertical sectional view. Fig. 3 is a vertical transverse sectional view, and Fig. 4 is a detail view of a portion of the cylinder.

The same letters refer to the same parts in all the figures.

A in the drawings designates the body of the wash-boiler, which consists of a suitable rectangular box, provided at its upper end or edge with an interior annular flange, B, whereby a groove, C, is formed circumferentially around the edge of the box. In this groove is fitted the cover D, which may be semicylindrical in shape, as shown, and provided with a flange, E, overlapping the edge of the box, so as to form a nearly steam-tight joint. The sides of the box or boiler are provided with recesses F F in their upper edges, forming bearings for the stub-axles G and H upon the sides of the revolving cylinder I, which is mounted upon the said axles in the box or boiler. The axle G is bent so as to form a crank, J, by means of which the cylinder may be operated. The "cylinder," as we prefer to call it, is, properly speaking, of a double frustum shape, or tapering toward both ends, as clearly shown in Fig. 3 of the drawings. The tapering ends of the cylinder are provided with openings K, which are wider at their inner than at their outer ends, and said openings are covered by buckets L, which correspond with the said openings in being much deeper at their inner than at their outer sides.

Upon the inside of the tapering ends of the cylinder, in rear of the openings K and buckets L, are secured ribs or deflectors M, which are triangular in cross-section, of the shape clearly shown in the drawings, and which serve to deflect the suds and steam toward the ends of the cylinder. These ribs which connect the sides of the cylinder with the ends of the same also serve as braces, which add greatly to the strength and durability of the device. One of the sides of the cylinder has a hinged cover, N, provided with a spring catch or lock, O, by means of which access may be gained to the interior of the cylinder.

In manufacturing the cylinder we first make a narrow ring or band, P, the edges of which are provided with wires Q, by which they are greatly strengthened. To this band the tapering ends of the cylinder are seamed, as shown in the drawings, this construction being found exceedingly strong and durable.

The flange B on the inside of the rim of the box or boiler A is provided with openings R, through which water, which, during operation, splashes into the groove C, will drain back into the box.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The clothes to be washed are placed in the cylinder, which is then to be revolved in a box or boiler, which is placed upon the stove, and which contains the hot suds. The suds and steam pass through the buckets L and openings K, and are deflected against the ends of the box or cylinder and thrown forcibly through the clothes, which are thereby thoroughly cleansed.

We claim as our invention and desire to secure by Letters Patent of the United States—

In a wash-boiler of the class described, the combination, with the suds box or boiler, of the herein-described revolving cylinder, having tapering or frustum-shaped ends, pro-

vided with openings K, widest at their inner ends, buckets L, arranged over the said openings, as described, and the interiorly-arranged ribs or deflectors M, triangular in cross-section and connecting the sides with the ends of the cylinder, which are thereby braced, as herein shown and specified, for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

OBEDIAH JASON SMITH.
RICHARD J. JOHNSON.

Witnesses:
DAVID B. SHAMOR,
JOHN C. BELL.