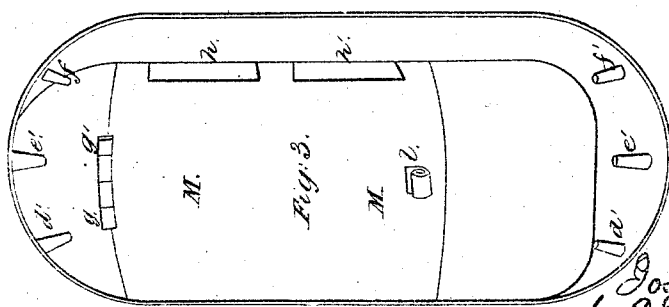
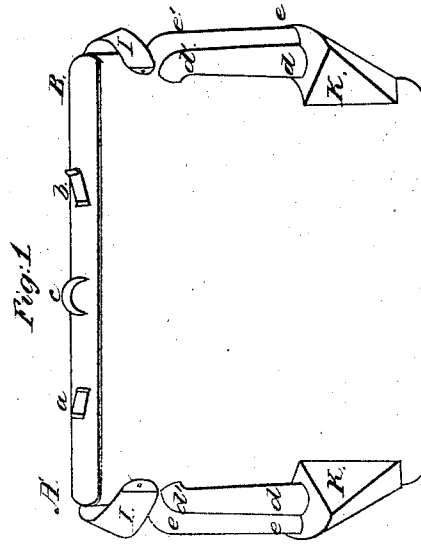
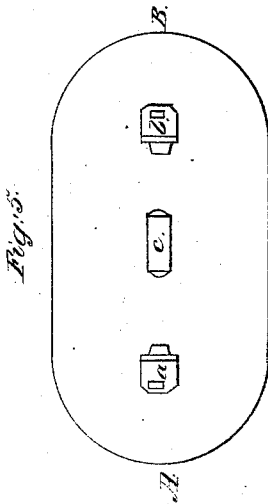
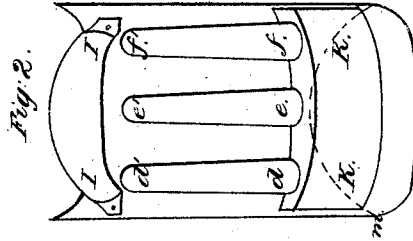
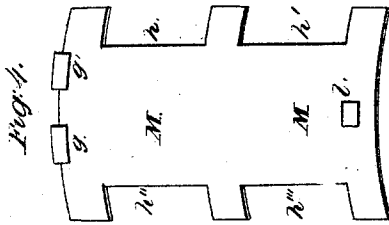


J. Okey,

Wash Boiler,

N^o 81,934.

Patented Sep. 8, 1868.



Witnesses:

Chas. Werbe
D. Hergsch

Inventor.
Joseph Okey
by C. B. McDonald
his Attorney

J. Okey,
Wash Boiler,

N^o 81934.

Patented Sep. 8, 1868.

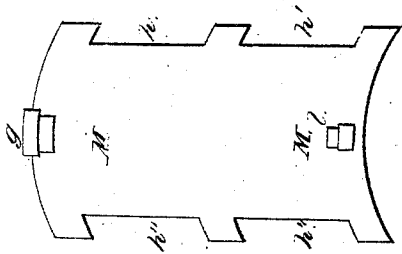
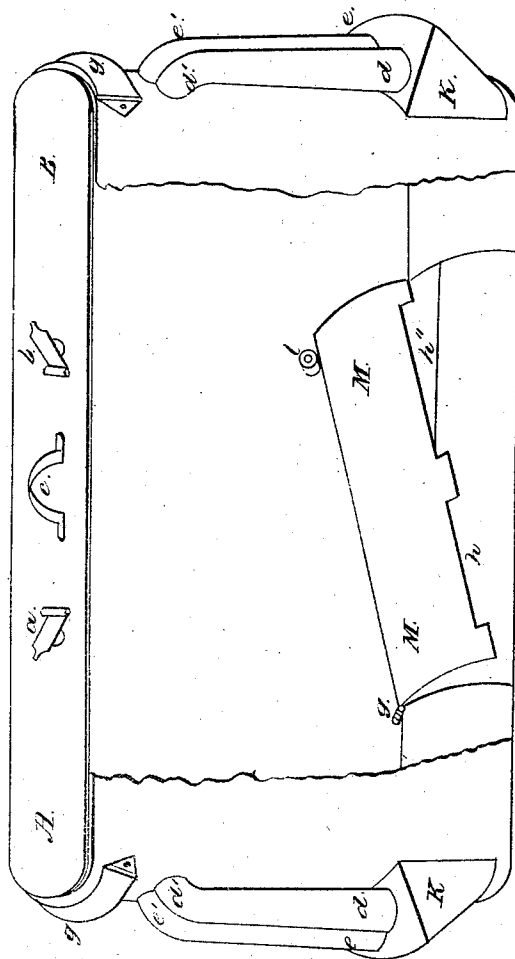


Fig. 1.



Witnesses:
Chas Werbe
D. Herzsch

Inventor:
Joseph Okey by
C. E. McDonald his atty

United States Patent Office.

JOSEPH OKEY, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO HIMSELF AND
FERDINAND A. LEHR.

Letters Patent No. 81,934, dated September 8, 1868.

IMPROVEMENT IN WASH-BOILERS

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, JOSEPH OKEY, of Indianapolis, in the county of Marion, and in the State of Indiana, have invented an Improved Wash-Boiler; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

The nature of the invention consists in the construction and use of the device hereinafter described; said device to be made of copper, tin, or any other convenient and suitable sheet metal.

To enable others skilled in the art to make and use my said invention, I proceed to describe it more fully, as follows:

Figure No. 1 of the accompanying drawings is a perspective view of the said boiler.

Figure No. 2, an end view of it.

Figure No. 3, an interior view.

Figure No. 4, the inside lid, hereinafter described.

Figure No. 5, the lid itself.

Figure No. 6, another view of the inside of the boiler.

In the lower part of an ordinary wash-boiler is fastened an inside bottom, shaped in the form of a segment of a cylinder, consisting of three pieces, the two end-pieces being soldered fast to the boiler, while the middle piece, *m m* of figs. 3 and 4, *a*, fig. 6, which is provided with the slots *h*, *h'*, *h''*, and *h'''*, and attached at one end by the hinge *g g*, is free to be raised and pushed down as a door; this bottom being in the position represented by *m m* of fig. 2, and *M M* of fig. 3, and represented as open by *m m* of said fig. 6.

On each end of the boiler is soldered a chamber, represented by *K K* of figs. 1, 2, and 6, which is connected with the chamber formed by the bottom and *m m*, by means of convenient holes perforated in part of the side of the boiler between them.

These chambers *K* and *K* are connected with any convenient number of tubes, represented by *d d'*, *e e'*, *ff'*, which, passing upward, make a curve at the top, so as to enter the boiler just below the handle *d' i f'* of said fig. 3. The lid represented by fig. 5 is provided with exit-valves, which are covered with hinged lids at *a* and *a'*.

To use my said invention, a convenient quantity of soap is put into the chamber formed by the bottom and *m m*, the lid *m m* is then closed, and water put in until it stands about two or three inches above the cylindrical bottom *m m*.

The clothes to be washed are now put in, and the lid *A B* closed. When heat is applied it will be found that a current of water will flow upward through the tubes *d d'*, *e e'*, and *ff'*, into the top of the boiler, down through the clothes into the chamber formed by *m m* through the slots *h*, *h'*, *h''*, and *h'''*, outward into the chambers *K K*, and upward into the tubes *d d'*, *e e'*, and *ff'*, so forming a complete circulation of the soap and water, which will continue to flow as long as the heat continues. The pressure of the water and steam in the chamber formed by *m m* being behind that in the chamber *K K*, will act as a valve upon it, and so not only facilitate the operation of the device, but also prevent any regurgitation of the water. This circulation of the water, it is claimed, will wash the clothes so clean that the operator need only to rinse and wring them after they come out of the boiler.

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

The door *m m*, when constructed with slotted sides, in combination with the chambers *K K* and pipes *d*, *e*, and *f*, substantially in the manner described, and for the purpose set forth.

In testimony that I claim the foregoing specification, I have hereunto set my hand, this 29th day of June, 1868.

JOSEPH ^{hi-} OKEY.
mark.

Witnesses:

WILL. W. WALLACE,

CHAS. WERBE.