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D. P. SULOUFF.

Improvement in Wash Boilers.

No. 122,077.

Fig. 1.

Patented Dec. 19, 1871.

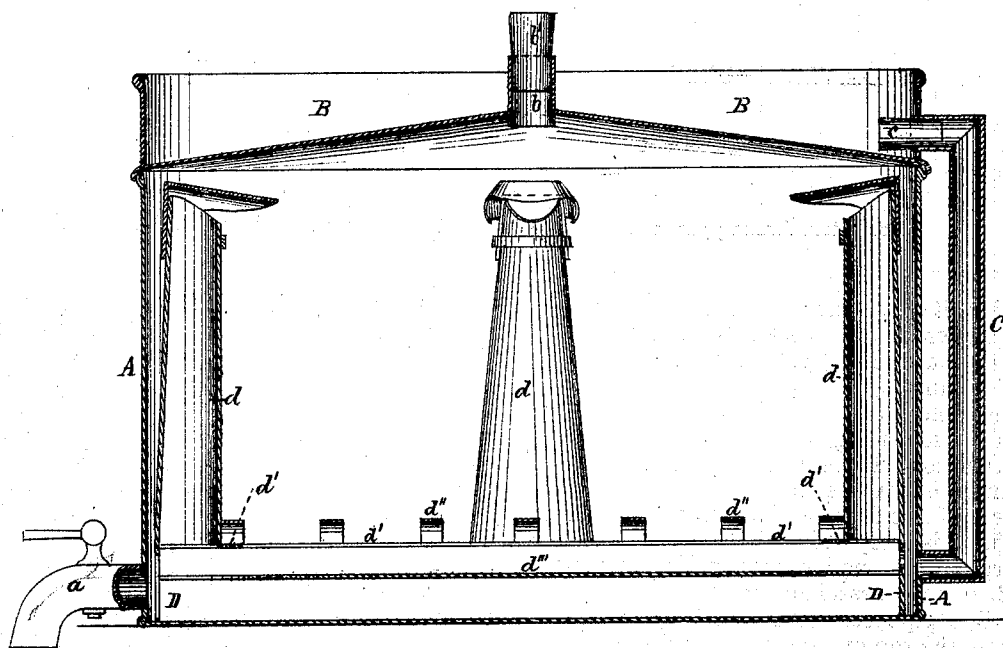
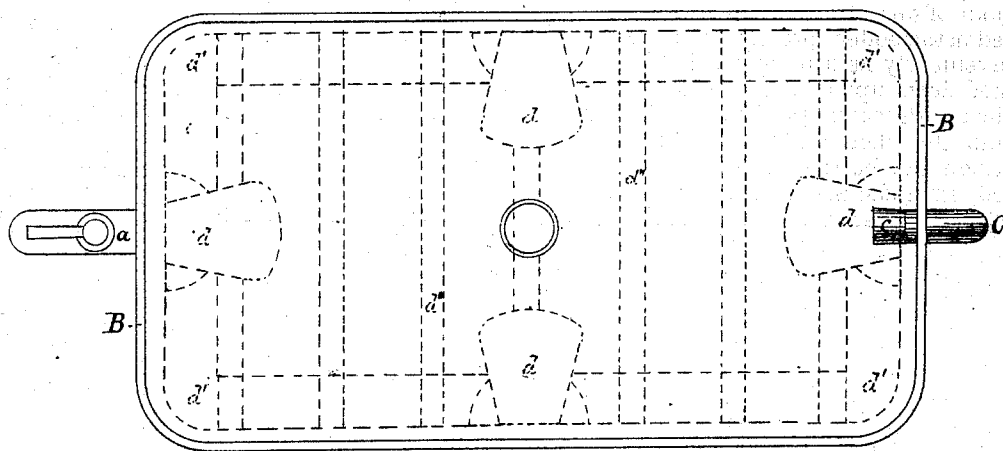


Fig. 2.



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UNITED STATES PATENT OFFICE.

DAVID P. SULOUFF, OF MILTON, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 122,077, dated December 19, 1871.

To all whom it may concern:

Be it known that I, DAVID P. SULOUFF, of Milton, in the county of Northumberland and State of Pennsylvania, have invented an Improved Automatic Clothes-Washer and Rinser, of which the following is a specification:

The invention will be first fully described and then pointed out in the claim.

Figure 1 of the drawing is a longitudinal section. Fig. 2 is a top view.

A represents the boiler, having discharge-outlet *a*; B, an open vessel forming the cover thereof; and C, a pipe connecting the two. *b* is an opening in the top of vessel B, provided with a stopper *b'*. D is a stand that rests in the boiler and has the hooded tubes *d* rising vertically from a flange, *d'*. On this flange *d'*, and across the middle space inclosed thereby, are the clothes-supports *d''*, and between said flange and the bottom of the boiler is the diaphragm *d'''*, apertured at points opposite to the opening of tubes *d*.

The mode of operation is as follows: Water being placed in the boiler, (preferably about as much as is conveniently held in vessel B,) the clothes are packed down upon the supports *d''*, the vessel B filled with water and made to cover the boiler, and the whole placed over the fire. As the water on the bottom of the boiler becomes vaporized, expands, and is held on top by the diaphragm *d'''*, it rises through tubes *d* with con-

siderable force, and, under the elastic pressure of the steam, streams out of the upper end of the tubes and over the clothes. It again sinks and percolates through the clothes, gathering the dirt and carrying it in solution to the bottom of the boiler. The steam which has ascended to the top of the boiler and impinged against the bottom of vessel B is condensed into water and drops upon the clothes. This process goes on continuously until sufficient heat has been imparted to the water in vessel B to raise it to or nearly to the boiling point. The dirty water is now drawn off through the outlet *a*, which is then closed, while the stopper *c* is removed from pipe C and also from outlet *b'*. The warm but clear water from vessel C will take its place in the bottom of the boiler, go through the same process as before described, and thoroughly rinse the clothes.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The boiler A, having vessel B on top, in combination with the flanged stand D *d'*, having clothes-supports *d''*, diaphragm *d'''*, and hooded tubes *d*, all arranged as and for the purpose set forth.

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