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I. ATYEO.

PATENTED AUG 8 1871

Clothes Washer.

Fig. 1.

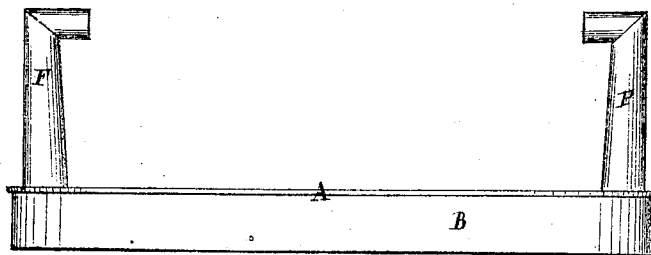


Fig. 2.

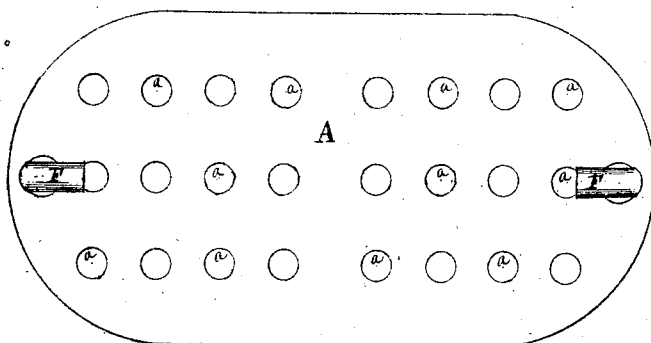


Fig. 3.

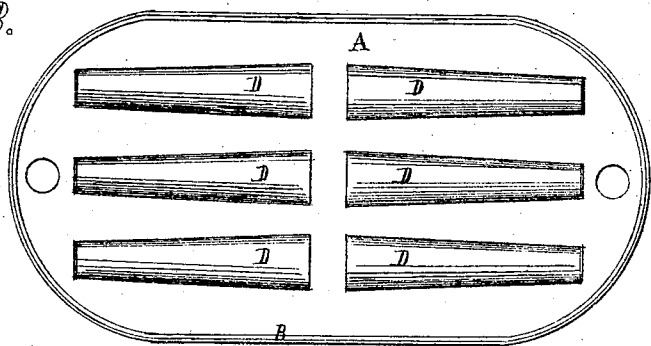
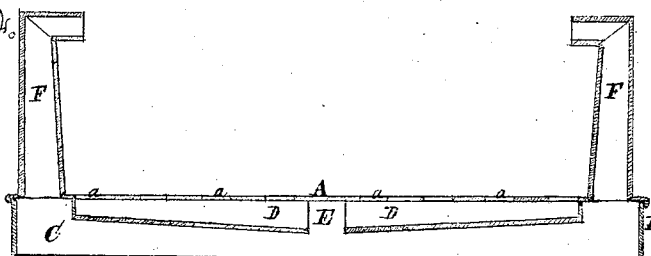


Fig. 4.



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# UNITED STATES PATENT OFFICE.

ISAAC ATYCO, OF NORTH FAIRFIELD, OHIO.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 117,720, dated August 8, 1871.

*To all whom it may concern:*

Be it known that I, ISAAC ATYCO, of North Fairfield, in the county of Huron and State of Ohio, have invented a certain new and Improved Clothes-Washer; and I do hereby declare that the following is a full and complete description of the same, reference being had to the annexed specification and the drawing making a part of same.

Figure 1 is a side view of the washer. Fig. 2 is a plan view. Fig. 3 is a view of the under side. Fig. 4 is a longitudinal vertical section.

Like letters of reference denote like parts in the different views.

The nature of this invention relates to the construction of a supplementary bottom used in connection with an ordinary wash-boiler. Said supplementary bottom consists of an arrangement of vertical conduits, one at each end of the upper side of the bottom, and a series of semi-tubular conduits or gutters arranged upon the under side thereof, as hereinafter more fully set forth.

The drawing, Fig. 1, represents the supplementary bottom referred to, and which consists of a plate of metal, A, of the shape and size to fit the inside of a common wash-boiler, and which forms the upper surface of the bottom, and is perforated with holes *a*, as shown. Said bottom is provided with a flange, B, upon which it stands on the bottom of the boiler, thereby elevating the supplementary bottom A above the boiler bottom, forming a chamber or space, C, between the two bottoms. To the under side of the plate A is secured a series of semi-tubular channels or gutters, D, Fig. 3, arranged in relation to each other and of the same shape and order, as shown. It will be observed that the larger ends of said gutters are arranged relatively opposite each other, and that there is a space, E, between the opposite ends, the purpose of which will presently be shown.

The practical operation of this bottom is as follows: It is placed in the bottom of the wash-boiler in the position as shown in Fig. 1, in which position the conduits F reach near the top of the boiler. A proper amount of water or suds is put in and the clothes laid in on the bottom A.

As the water boils it ascends the conduits F, and is discharged upon the top of the clothes by the force of the steam and greater expansion of the water contained in the chamber C below the supplementary bottom. As fast as the water is discharged from the conduits it flows again into the chamber C through the perforations *a*, to be again forced up through the conduit and discharged upon the clothes, as before. By this means there is established a current of water from below to the top; thence to the bottom through the perforations.

As the greatest amount of heat is at or near the center of the bottom of the boiler, it is desirable that the cooler water from above should be returned to the chamber at that particular point, and thereby cause it to be heated more immediately than if allowed to return to the chamber directly through the perforations at the ends of the bottom, or generally through the perforation over the entire bottom. To accomplish this desirable object I cause the perforations to open into the gutters D, thereby conveying the return water from above, which may have passed through the perforations near the ends, to the middle of the boiler, and discharge it into the space E between the outlets of the horizontal gutters, the smaller ends of which are closed.

By this means the return water is all discharged into the chamber at the middle of the bottom of the boiler, the point of the greatest heat, which will become more rapidly heated than should it return directly into the chamber through the perforation; hence a more active circulation of the water is obtained, and at less expense for fuel for keeping up the boiling-point of the water.

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

The gutters D and perforated bottom A, in combination with the conduits F, arranged in relation to each other substantially as shown and described, for the purpose set forth.

ISAAC ATYCO.

Witnesses:

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