

G. Fenn,

Wash Boiler.

N<sup>o</sup> 82,817.

Patented Oct. 6, 1868.

Fig. 1.

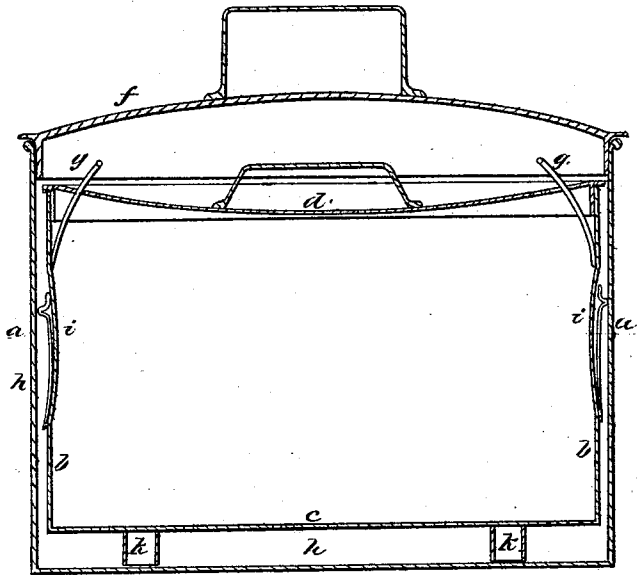
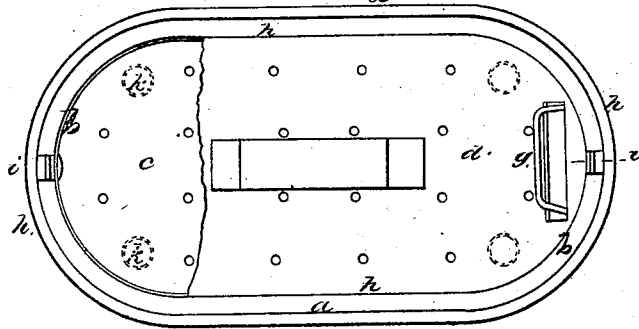


Fig. 2.



Witnesses:

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# United States Patent Office.

GEORGE FENN, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 82,817, dated October 6, 1868.

## IMPROVEMENT IN WASH-BOILERS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, GEORGE FENN, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and improved Automatic Clothes-Washer and Boiler, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a vertical longitudinal section of a clothes-boiler embodying my invention, and

Figure 2 is a plan view of the same, showing, also, a portion of the bottom of the inner chamber or boiler.

The nature of my invention consists in the employment, in combination with an ordinary clothes-boiler, of an additional inner boiler or chamber, provided with a perforated bottom, and a perforated movable cover, and so arranged within the main boiler as to leave a space around the entire sides and bottom of the inner boiler, so that the water which is placed in the main boiler will be caused, as it boils, to pass up all around the sides of the inner boiler, upon the perforated cover, and fall equally upon the whole upper surface of the clothes, which are placed in the inner boiler, and thus pass through and thoroughly wash and cleanse the clothes.

Referring to the drawings, *a* represents the main boiler, which may be of the ordinary construction, and of any suitable size or shape, and provided with a cover, *f*.

Within the boiler *a*, and extending nearly to the top of the same, is a secondary boiler or chamber, *b*, provided with a perforated bottom, *c*, and supported upon legs, *k*, or in any other suitable manner, so as to leave a space, *h*, between the perforated bottom *c* and the bottom of the main boiler. The inner boiler, *b*, is of such a size as to leave a space all around its sides, between it and the main boiler, *a*, for the purpose of allowing the water, as it boils, to pass up over the top of the boiler *b*, all around its sides, upon the perforated cover *d*, whence it will fall evenly upon the clothes in boiler *b*, percolating through the same to the bottom of the main boiler, *a*.

The boiler *b* is provided with handles, *g*, at each end, by which it is raised out of the main boiler. The boiler *b* is also provided with spring-catches, *i*, by which it is held in a position above the water in boiler *a*, so as to allow the water to drip from the clothes in boiler *b*, after the same are cleansed, the catches resting upon the top of boiler *a*. The spring-catches may be attached to the inner sides of boiler *a*, if desirable.

The cover, *d*, of boiler *b*, is made concave, as shown in fig. 1, so as to cause the water to escape more freely.

The clothes to be washed are placed in boiler *b*, and water is put into boiler *a*, so as to be a little above the level of the bottom of boiler *a*, or as much more or less as may be found desirable. Into the water are dropped small pieces of soap, so as to form suds. The cover *d* being then put on the boiler *b*, the whole is placed over the fire. As the water boils, it will pass up all around the sides of boiler *b*, and flow, in a continuous sheet, over the upper edges of boiler *b*, upon the cover *d*, and passing through the perforations therein, will be distributed over all the clothes, and percolating through the same, will fall again to the bottom of boiler *a*, carrying with it all the dirt, &c., from the clothes, thus thoroughly cleansing them. The process of washing and cleansing will in this way be very rapidly and thoroughly effected, without requiring any scrubbing, or other manipulation.

When the clothes have been thoroughly boiled and cleansed, the boiler *b* is raised up, and held by means of the catches *i*, so as to allow the water to drip from the clothes, when the latter are to be taken out and rinsed, and then wrung out as usual. The operation of washing the clothes is thus automatically performed, saving a vast amount of labor, as well as preventing wear of the clothes.

The boiler *b* may be adapted to the ordinary wash-boilers now in use, and also to the set boilers.

I do not claim a perforated bottom or top, as I am aware that such is not new; but

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

The combination, with the external boiler *a*, of an internal boiler, *b*, provided with a perforated bottom, *c*, cover *d*, and springs *i*, and surrounded at the bottom and sides with a space, *h*, substantially as and for the purpose set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE FENN.

Witnesses:

J. H. ADAMS,

M. S. G. WILDE.