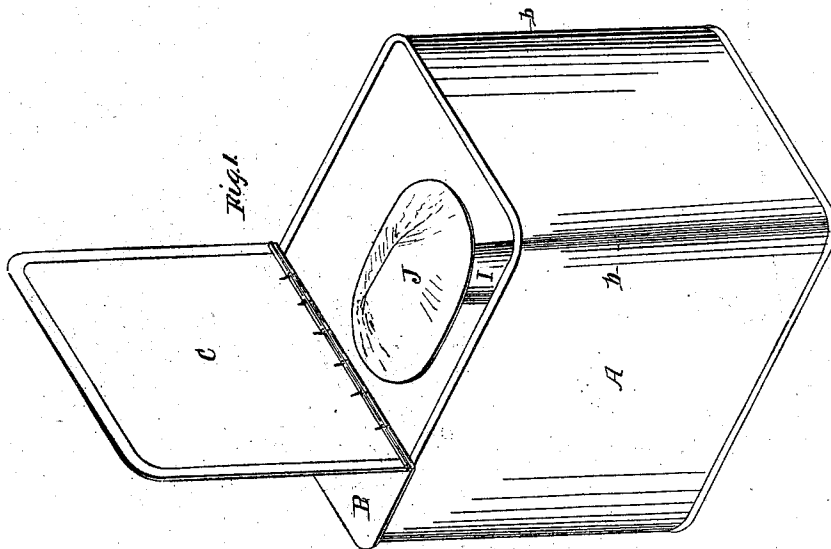


*Wash Boiler,*

*Patented Oct. 20, 1868.*



Inventor.  
W. N. Prime.

# United States Patent Office.

W. N. PEIRCE, OF WEST BOYLSTON, MASSACHUSETTS.

Letters Patent No. 83,307, dated October 20, 1868.

## IMPROVEMENT IN WASH-BOILERS.

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

*Know all men by these presents:*

That I, W. N. PEIRCE, of West Boylston, in the county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Clothes-Boilers and Sprayers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of my improved boiler and sprayer, with the cover open, and

Figure 2 represents a longitudinal vertical section of the same, with the cover down.

To enable those skilled in the art to which my invention belongs, to make and use the same, I will proceed to describe it more in detail.

In the drawings, the main part of the boiler is marked A. B is the stationary part of the cover, and C the hinged part. Within the main part, A, is placed the spraying-device, D, the base, E, of which is made with a perforated convex top, F, and closed side and ends, G, while a series of legs or tubes, *a*, is attached to the under side of the perforated top F, and extends down below the edges of the sides and ends, G, so as to rest upon the bottom of the boiler, whereby the lower edges of the sides and ends, G, are supported above the bottom, H, of the boiler A, as fully indicated in fig. 2, a sufficient number of legs or tubes, *a*, being employed to support the sprayer-device, D, to keep it from tipping or inclining to one side of the boiler A.

The corners of the base G of the sprayer rest against the curved corners *b* of the boiler A, and thus keep the parts in the relative positions shown in fig. 2, whereby an open space, *c*, is left between the ends and sides of the boiler, and the end and sides, G, of the base of the sprayer.

From the centre of the perforated top F rises a tube, I, made in this instance in tapering form, as shown in the drawings.

Upon the top of the tube I is supported the sprayer-cap J which is made in oblong form, to correspond with the form of the boiler, as indicated in fig. 1.

The sprayer-cap J is supported upon the tube I by means of the wire or strap *e*, the lower ends of which are fastened to a ring, *f*, which is slipped upon the upper end of the tube I. (See fig. 2.)

The operation is as follows: The boiler A is filled with water, until the sides and ends G of the sprayer

are immersed, or nearly so, with water, when the clothes K, to be boiled or sprayed, are placed upon the perforated top F, as indicated in fig. 2.

The boiler is now placed upon the stove or furnace, and, as steam is generated, it is forced up the pipe or tube I, together with water and suds, which, striking against the under side of the sprayer-cap J, are thrown or sprayed evenly over the top of the clothes K.

As the water and suds pass down through the clothes, the latter are cleansed and bleached by the operation, which may be continued as long as desired.

The water and suds, after passing through the clothes, descend through the spaces *c*, to be reheated and thrown up again through the tube I, as before explained.

The steam passing through the holes *g*, in the top F, keeps the clothes hot and in proper condition to be acted upon by the suds or spray thrown down upon them by the spray-cap J.

As the legs or tubes *a* support the bottom or base of the spraying-device D above the bottom, H, of the boiler, the return of the water is not retarded or impeded, as it would be if the base sat directly upon the bottom of the boiler.

My improved clothes-boiler and sprayer has been put to a practical test, and found to work very successfully indeed.

By making the top F convex, as shown in the drawings, the water, as it leaches through the clothes, is conducted to the channels *c*, while the steam, as it is generated at the bottom, H, of the boiler, is conducted or guided to the tube I, thus keeping up a regular and uniform circulation of the suds and water through the clothing.

Having described my improved clothes-boiler and sprayer,

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

The combination, with the boiler, of the inclined and perforated base F, and its central tube, supported upon legs or standards above the bottom of the boiler, in the manner described, so that a continuous space, *c*, shall intervene between the periphery of the base and the sides of the boiler, as and for the purposes set forth.

W. N. PEIRCE.

Witnesses:

THOS. H. DODGE,  
GEO. H. MILLER.