

(No Model.)

J. H. WHITMARSH.
WASH BOILER.

No. 420,526.

Patented Feb. 4, 1890.

Fig. 1.

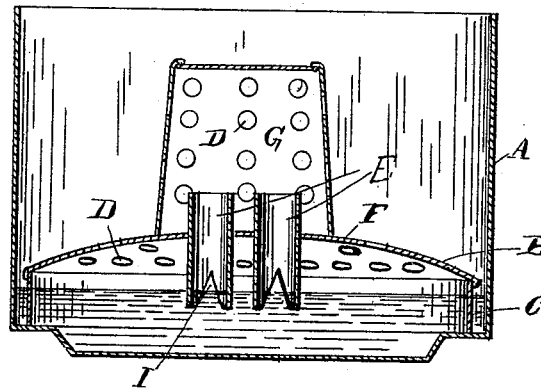


Fig. 2.

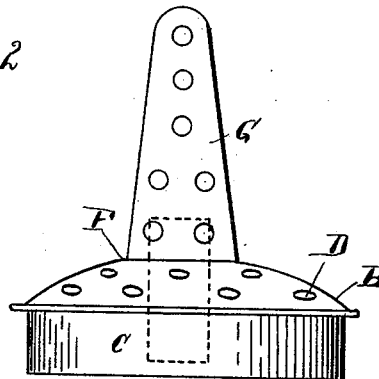
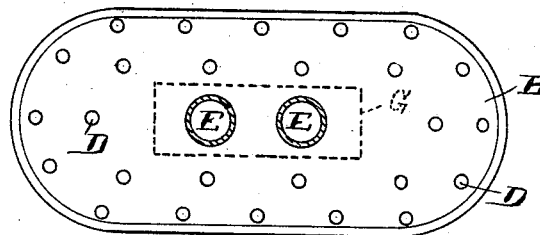


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES H. WHITMARSH, OF SARNIA, ONTARIO, CANADA.

WASH-BOILER.

SPECIFICATION forming part of Letters Patent No. 420,526, dated February 4, 1890.

Application filed August 16, 1889. Serial No. 320,981. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. WHITMARSH, residing at Sarnia, in the county of Lambton and Province of Ontario, Canada, have invented certain new and useful Improvements in Wash-Boilers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to new and useful improvements in wash-boilers; and the invention consists in the peculiar construction of the removable partitions, which are adapted to be placed in an ordinary wash-boiler having perforations, whereby the washing of the clothes is effected by means of the steam, and whereby the steam is distributed through the clothes, and, further, whereby the device may be easily cleaned and the clothes readily disposed within the boiler, all as more fully hereinafter described.

In the drawings which accompany this specification, Figure 1 is a vertical central longitudinal section of my improved wash-boiler. Fig. 2 is an end elevation of the perforated partitions removed. Fig. 3 is a bottom plan thereof.

A is a wash-boiler of known construction to which my improvements are applied. In practical experience I have found that clothes could be more quickly and thoroughly cleaned by steaming than by boiling, and if a small quantity of water were placed in the bottom of a wash-boiler having perforated partitions or walls arranged above to support the clothes, and means to distribute the steam there-through, that the best possible effect with the quickest results is obtained. To this end I construct the perforated partitions B of suitable size to enter the wash-boiler and fit therein upon the sides, having suitable lugs or a ledge C to support it some distance above the bottom of the boiler, and suitable perforations D. In the center of this I arrange one or more vertical flues E, projecting some distance below, preferably into the water and some distance above the top of the partition B, open at both ends. Over these vertical flues and resting upon the horizontal portion F of the partition B, I place the vertical perforated steaming-chamber G. The parts being thus constructed and arranged,

in order to use my device I pour water into the wash-boiler, which quickly falls to the bottom of the boiler through the perforations in the partitions, the water rising to a proper height to leave a steam-space H below the partition B. The clothes are then placed in the wash-boiler around the steam-chamber G upon the partition B, a cover is placed upon the boiler, and the steam rising from the water will fill the steam-space H, having exit through said steam-space by means of the perforations D and into the steaming-chamber G through the vertical flues E. From the steam-chamber the steam will have exit through suitable perforations, as shown in the drawings, passing through the clothes in all directions and rapidly cleaning them, it having been found by experience that in from three to ten minutes a wash-boiler full of clothes may be cleaned in this way, while in the ordinary manner of boiling it would take a half or three-quarters of an hour.

Should soap be required to be placed in the water, it may be done by simply lifting the steam-chamber G out and dropping it through the flues E. These flues I preferably provide upon the sides with the cut-away portions I, to allow of the ingress of steam from the side as well as from the water directly inclosed within the flues.

This construction of boiler gives me the greatest possible space within the boiler for the disposition of the clothes, and at the same time gives ample means for distributing the steam through all parts of the clothes evenly, there being at all points nearly the same bulk of clothes through which the steam must permeate, and in this way all the clothes are usually well cleaned.

I preferably arrange the legs or wall C a slight distance back from the edge of the partition B, so that the device may be more readily inserted in position, the only friction possible being the sharp edge of the partition B. This construction is desirable in case the boiler is slightly dented or damaged, as it may be more readily put in position.

The steam-chamber G is simply laid upon the partition B to allow of its being moved from side to side to accommodate the clothes of different bulk, as it is almost impossible

to arrange them in position in this space allowed without having this chamber adjustable in relation to the sides of the boiler.

What I claim as my invention is—

5 1. In a wash-boiler, a perforated partition secured therein above the bottom, the vertical flues E, passing through said partition, and the perforated steam-chamber G, loosely laid upon the partition B, whereby it is adapted to be moved from side to side upon said
10 partition B, substantially as described.

2. In a wash-boiler, a perforated partition B, supported upon the legs or wall C, the ver-

tical flues E, having the cut-away portion I and the movable steam-chamber G, and having inclined sides resting upon the horizontal portion F of the partition B, the parts being arranged to operate substantially as and for the purpose described.

In testimony whereof I affix my signature, in 20 presence of two witnesses, this 28th day of June, 1889.

JAMES H. WHITMARSH.

Witnesses:

JAMES WHITEMORE,
EDM. C. BREARTY.