

S. A. McGeorge.

Wash Boiler.

N^o 86,568.

Patented Feb. 2, 1869.

Fig. 1.

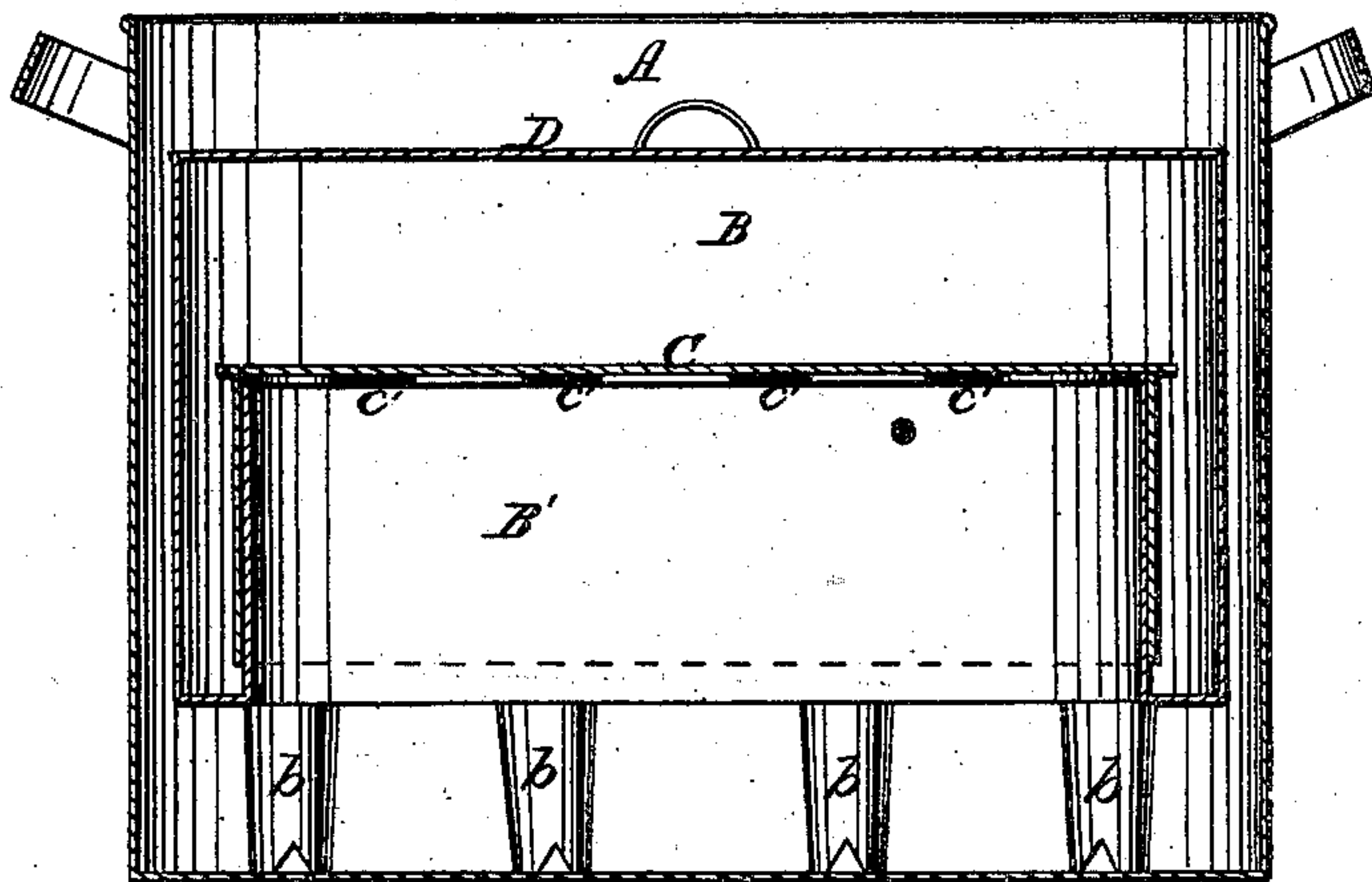


Fig. 2.

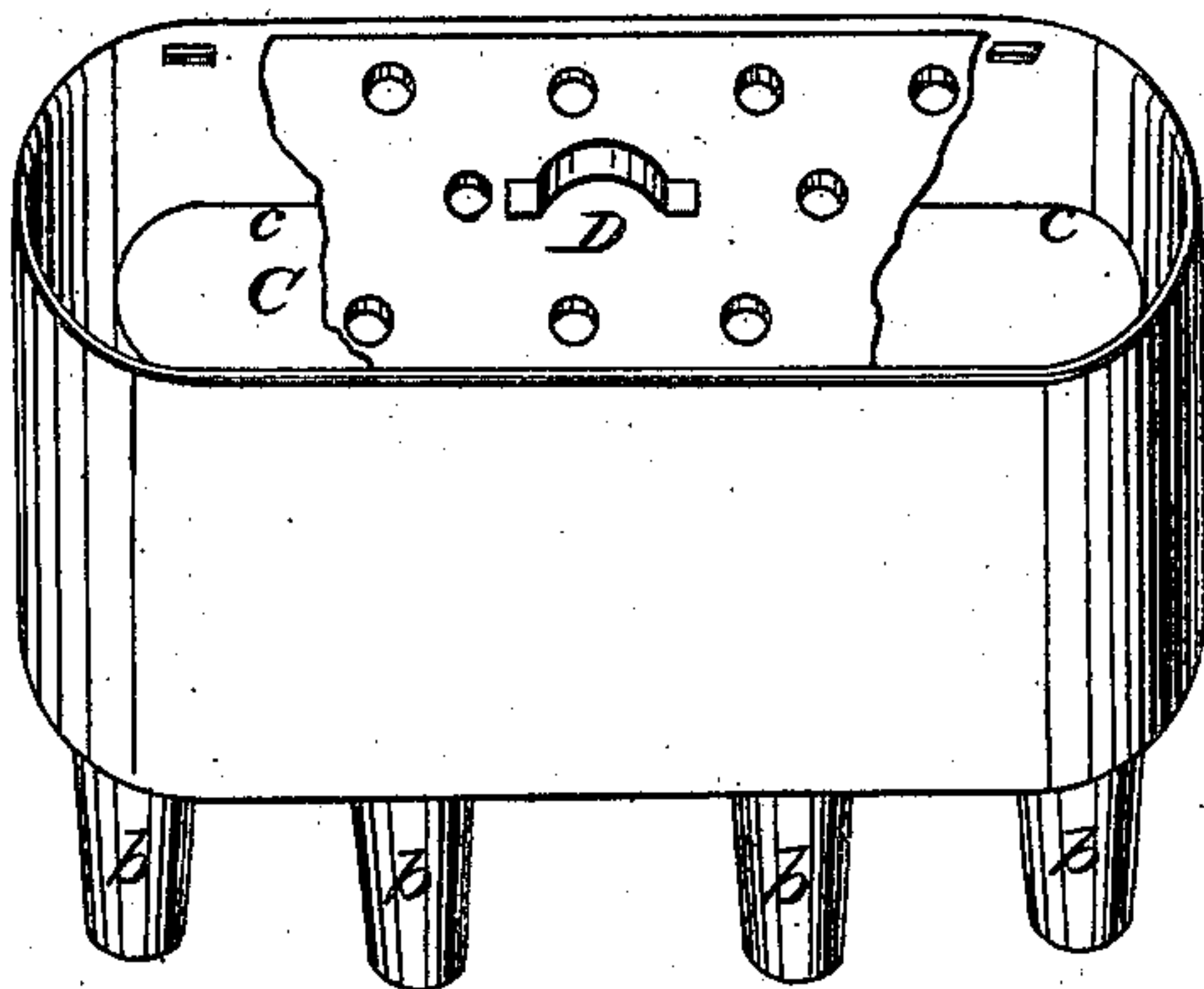
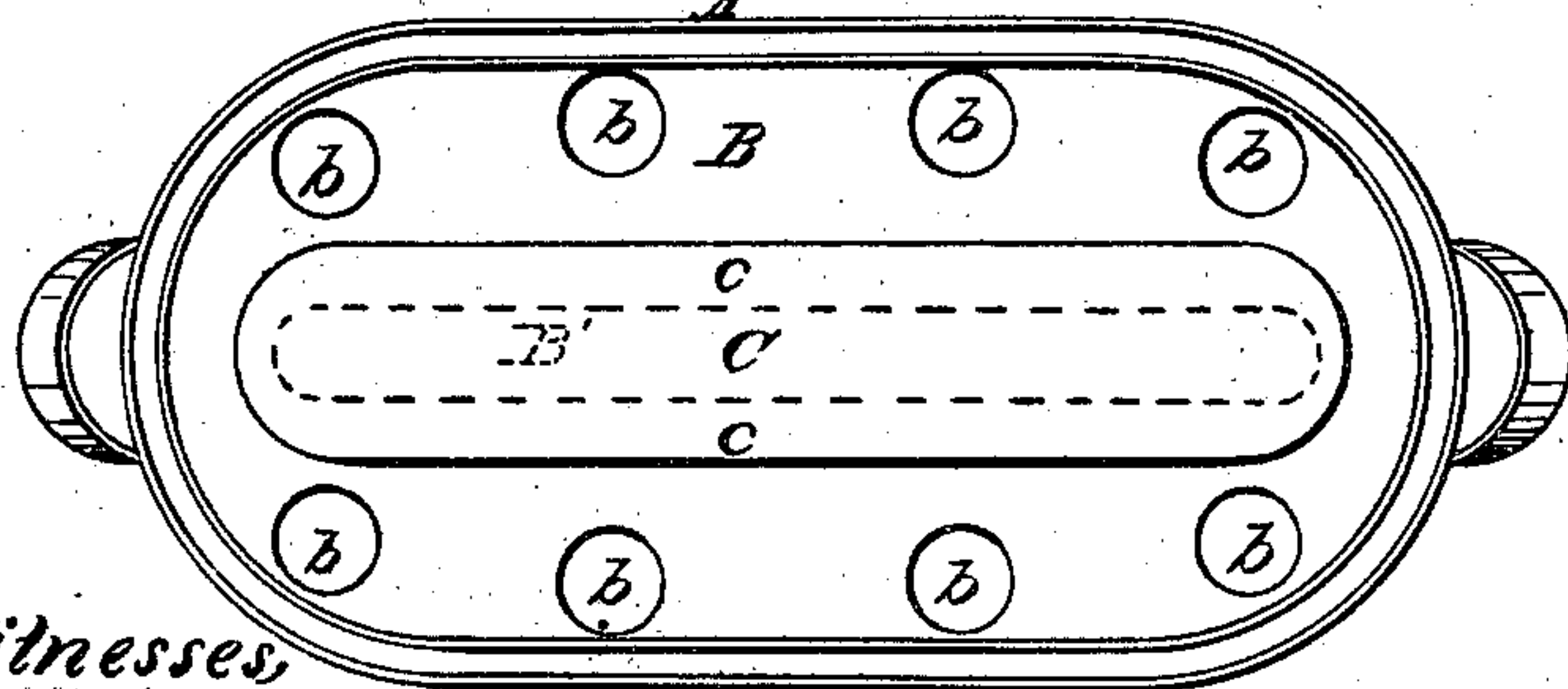


Fig. 3.



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S. ADDINGTON McGEORGE, OF ALMONT, MICHIGAN.

Letters Patent No. 86,568, dated February 2, 1869.

IMPROVEMENT IN WASH-BOILERS.

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

To all whom it may concern:

Be it known that I, S. ADDINGTON McGEORGE, of Almont, in the county of Lapeer, and State of Michigan, have invented new and useful Improvements in Wash-Boilers; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to certain improvements in automatic wash-boilers, and consists mainly in the employment of an inner boiler, or steamer, of peculiar construction, in connection with the boiler ordinarily used. This inner boiler is provided with an elongated tube, or chamber, rising from its centre, a little more than half its height, which is covered with a flanged cap, having slots upon each side, through which the suds is delivered. It has also a perforated cover, resting upon proper projections, through which the suds is delivered, which pass up between the two boilers.

The object of this construction is to divide the boiler into two parts, as it were, by means of which the clothes are more easily reached, and consequently more thoroughly cleansed, than when they are packed in a solid mass, as is usual in the ordinary forms of automatic wash-boilers.

The details of construction and manner of operation will be fully described hereinafter.

In the drawings—

Figure 1 is a longitudinal vertical central section of my invention;

Figure 2, a perspective view of the steamer; and

Figure 3, a plan view of my invention.

To enable others skilled in the art to make and use my invention, I will proceed to describe fully its construction and operation.

I make the inner boiler or steamer, B, of tin or other metal, and of sufficient size to fill a common stove-boiler, less half an inch space in length and width, and five or six inches less in height.

This steamer has eight or more holes in its bottom, which are about half an inch in diameter, around which are soldered tubes, *b b*, which form the legs, and conduct the water to the space below.

It has also a slot about one half inch in width, and nearly the length of steamer, over which an elongated tube, B', is placed, which rises about three-fifths the height of the steamer, as shown in fig. 1.

This tube is covered with a cap, C, which has a flange, *c*, as shown.

It has also four or five slots, *c'*, on each side, through which the steam and hot suds will pass down through the clothes. This flanged cap prevents the clothes from packing, and separates the steamer, as it were, into two parts.

The steamer has also six or more brackets, fastened near its top, for the purpose of supporting the cover D.

This cover is made flat, with about twenty-five holes, through which the suds passes and falls on the clothes.

To operate and do the washing, place the steamer (fig. 2) in the stove-boiler, then fill the boiler, within one half inch of the steamer-bottom, with soap-suds. Next put in part of the clothes, taking care that a space be left above them, in order that the water may pass freely through the slots *c'*. Next put on the cap. The balance of the clothes should now be laid in upon the cap, and the cover then be put in place.

Now, with a brisk fire, a large quantity of suds will soon be forcing up through the tube B', and through the slots upon the clothes. A portion of the suds will also be forced between the steamer and stove-boiler, and flow over the top of the steamer, and, passing through the holes in the cover, will fall down through the clothes. Both streams, however, will pass down the hollow legs to their starting-point below the steamer, to be again thrown up by the action of the heat.

The clothes may be soaked in cold water over night, or in warm water one hour. Soap should be rubbed on the collars and wristbands before putting in the boiler. The clothes should be boiled from fifteen to thirty minutes, after which they will need little or no rubbing.

By the construction herein described, an automatic boiler is obtained which delivers its streams of hot water and suds at two different points, one stream being forced through the tube B', and the other through the perforated cover D. The flange-cap also, of the tube B', separates the clothes, so that they cannot become packed, as is frequently the case in the ordinary forms of the automatic boiler.

It will be readily seen that this change in construction produces important results, one of which is, a much greater delivery of water than in any other automatic boiler.

I am well aware that automatic wash-boilers of various forms are already in use. I therefore do not desire to claim broadly the operation of my device; but having fully described my invention,

What I do claim as new, and desire to secure by Letters Patent, is—

The automatic wash-boiler described, consisting of the steamer B, with legs *b b*, tube B', flange-cap C, and cover D, the whole being combined as described, and used in connection with an ordinary wash-boiler, as and for the purpose set forth.

This specification signed and witnessed, this 6th day of January, 1869.

S. ADDINGTON McGEORGE.

Witnesses:

S. J. NOYES,

FRED. THOMAS.