

EDWARD E. BREWSTER.
Improvement in Wash Boilers.

No. 123,227.

Patented Jan. 30, 1872.

Fig. 1.

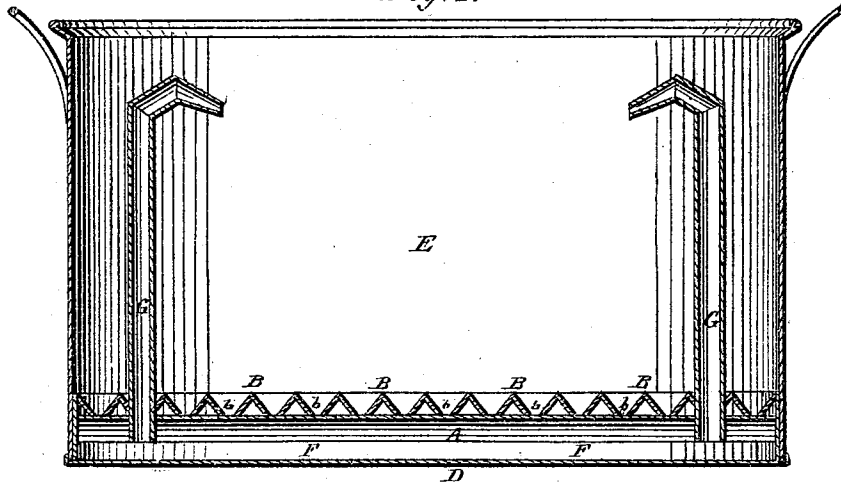


Fig. 2.

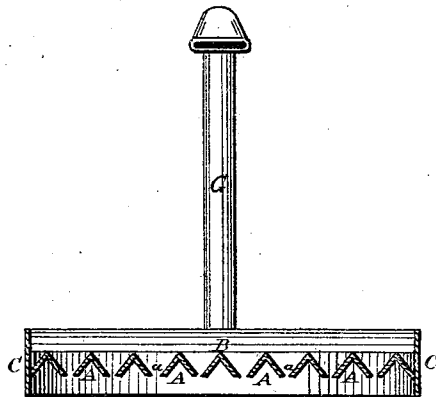
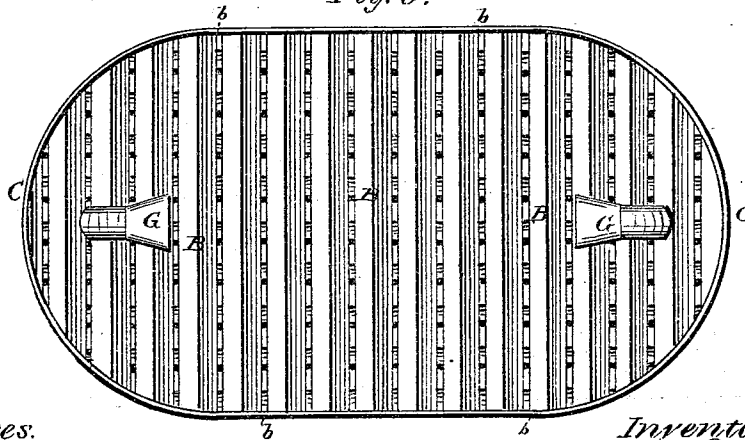


Fig. 3.



Witnesses.

C. H. Poole
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UNITED STATES PATENT OFFICE.

EDWARD E. BREWSTER, OF HOLLY, MICHIGAN.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 123,227, dated January 30, 1872.

To all whom it may concern:

Be it known that I, EDWARD E. BREWSTER, of Holly, in the county of Oakland and in the State of Michigan, have invented certain new and useful Improvements in Automatic Washers and Boilers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a vertical longitudinal section of my device. Fig. 2 is a vertical transverse section of the same; and Fig. 3 is a plan view of the upper side of the false or movable bottom of the same.

Letters of like name and kind refer to like parts in each of the figures.

My invention belongs to a class of wash-boilers in which water is forced by the action of the steam from beneath a false bottom, upon which the clothes rest, to the upper side of said clothing; and it consists in the peculiar construction of the false bottom, by means of which a better and more perfect result is obtained, substantially as is hereinafter specified.

In the annexed drawing, A and A represent a series of bars, constructed of sheet metal and having a **A**-shape, which are arranged in parallel lines and connected together by means of a second series of bars, B, having a similar shape, which last-named bars are secured in parallel lines and at equidistant points to or upon the upper sides of said bars A, and at a right angle to the lines of the same. Between the bars of each series A and B are left narrow openings *a* and *b*, respectively, which, while sufficient to permit the passage of water, will not permit the passage of ordinary fabrics. Around the outer edge of the false bottom thus constructed is secured a strip of sheet metal, C, which incloses the ends of the bars, and, extending downward below the lower series, forms a support for said bottom, by means of which the same is elevated sufficiently above the bottom D of the boiler E to leave between said parts a water-chamber, F.

Passing through and extending vertically upward from the false bottom, near each end, is a metal pipe, G, which, at a point slightly below the upper edge of the boiler, curves inward and slightly downward, so as to cause any water passing upward through the same to be discharged toward the opposite end and bottom of said boiler.

The device is now complete, and is operated in the usual manner, by partially filling the boiler with water, covering the false bottom with soiled clothing, and then causing said water to boil, the result of which will be that by an accumulation of steam beneath said false bottom the water will be forced upward through the pipes to or upon the upper surface of the clothing, through which said water will pass downward, to be again returned through said pipes. This action of the water will necessarily be intermittent.

The especial advantages of this construction of the false bottom are that it furnishes two series of water-ways that cannot be obstructed by the clothing, whereby the free circulation of the water beneath the latter is unimpeded, and, in addition thereto, renders less liable the wedging of said clothing within the openings in said false bottom, and the consequent retardation of the downward passage of said water to the water-chamber.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

In an automatic boiler and washer, a false bottom composed of hollow **A**-shaped bars, arranged in two series and at right angles to or with each other, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of January, 1872.

EDWARD E. BREWSTER.

Witnesses:

GEO. S. PRINDLE,
JOHN R. YOUNG.