

J. C. TILTON.

Improvement in Wash-Boilers.

No. 130,830.

Patented Aug. 27, 1872

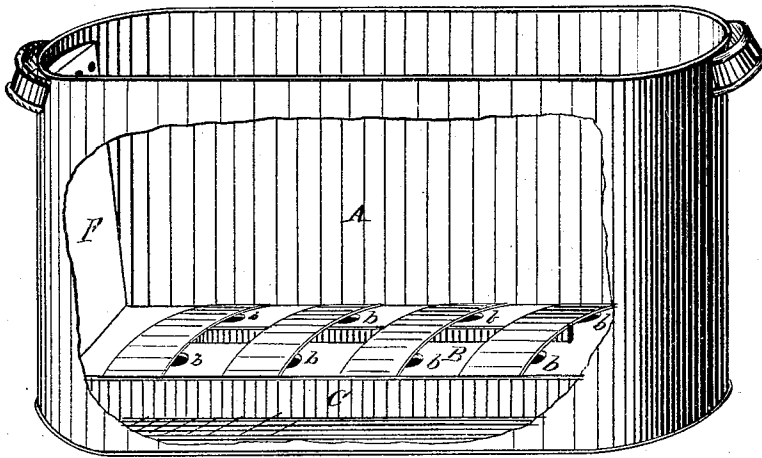


Fig. 1.

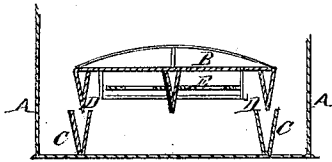


Fig. 2.

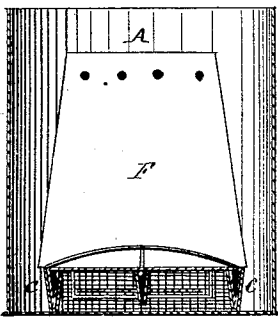


Fig. 3.

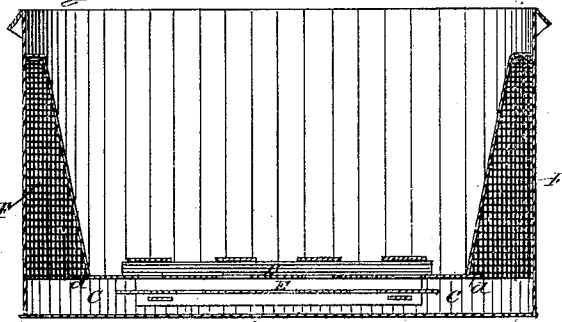


Fig. 4.

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JOSEPH C. TILTON, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 130,830, dated August 27, 1872.

Specification describing certain Improvements in Wash-Boilers, invented by JOSEPH C. TILTON, of the city of Pittsburg, in the county of Allegheny and State of Pennsylvania.

My invention relates to that class of wash-boilers which are made with a false bottom, and have pipes or passages leading to the top of the boiler, through which the hot water passes from below the false bottom while the cold water enters the water-space thus left vacant through the valves in the false bottom; and consists in making the false bottom narrower than the boiler, and with sides which fit into deep grooves secured to the bottom of the boiler and reaching its entire length, and in the manner of securing the false bottom in position; the object of this arrangement being to make the false bottom water-tight, or nearly so, and force all the heated water to pass out through the pipes provided for that purpose.

In the drawing, Figure 1 is a perspective view of my boiler, the side being broken away to show the false bottom; Fig. 2, a cross-section of the bottom of the boiler; Fig. 3, a cross-section of the boiler; and Fig. 4, a vertical central section of the same.

A is the boiler; B, false bottom; F F, hot-water passages leading from below the false bottom through which the hot water passes to the top of the boiler in the direction of the arrows; *b b b*, holes in false bottom, through which the cold water passes into the water-space below the false bottom; E, movable plate which closes the holes *b b b* when the water below the false bottom becomes heated;

D D, sides of false bottom. These sides are made V-shaped, as shown in Fig. 2, and extend the length of the false bottom B. They fit in the V-shaped grooves C C, which reach the entire length of the boiler, to the bottom of which they are fastened. The false bottom is held securely in place by passing the ends under the edge of the hot-water passages F F, as shown at *d d*, Fig. 4. The false bottom is inserted by sliding one end under one of the pipes F far enough to allow the false bottom to drop into its place in the grooves C C. It is then moved slightly along so as to hook both ends under the edges of the pipes F F, as shown in Fig. 4. The V-shaped sides of the false bottom fitting snugly in the correspondingly-shaped grooves C C, attached to the bottom of the boiler, prevent the heated water and steam from escaping at the sides of the boiler, and lifting or floating the clothes, and force it—*i. e.*, the heated water—to rise in and escape through the holes in the passages F F and flow onto the top of the clothes.

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

The false bottom B having the V-shaped sides D D, in combination with the boiler A having the grooves C C and hot-water passages F F, when arranged and operating as and for the purposes specified.

JOSEPH C. TILTON.

Witnesses:

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