F. MACKLI.

Wash-Boiler.

No. 168,266. Patented Sept. 28, 1875.

Fig. 1.

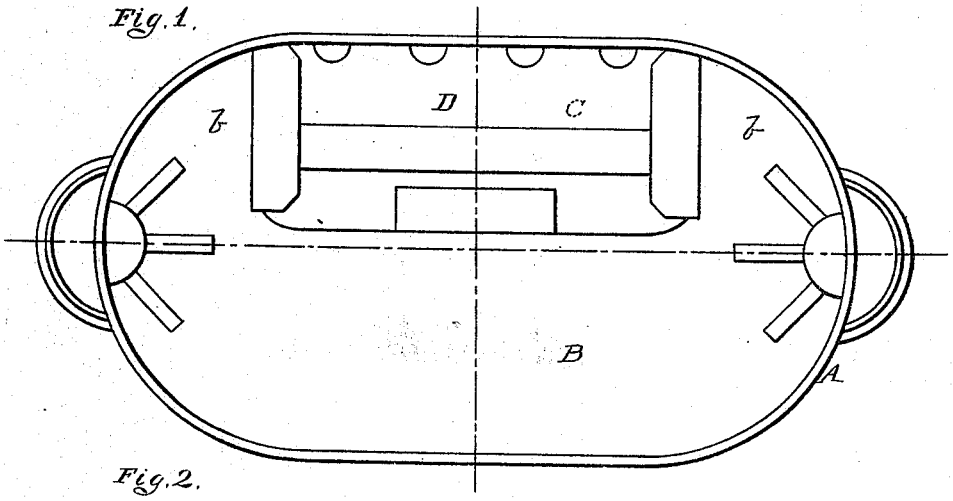


Fig. 2.

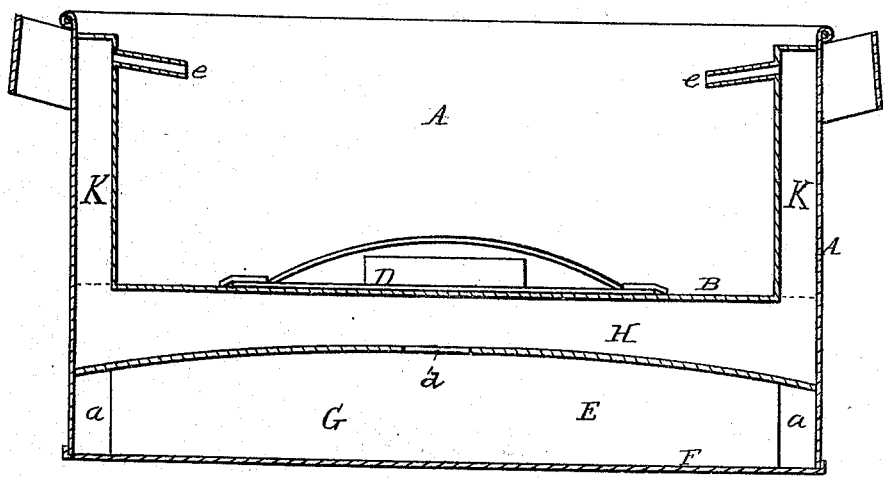
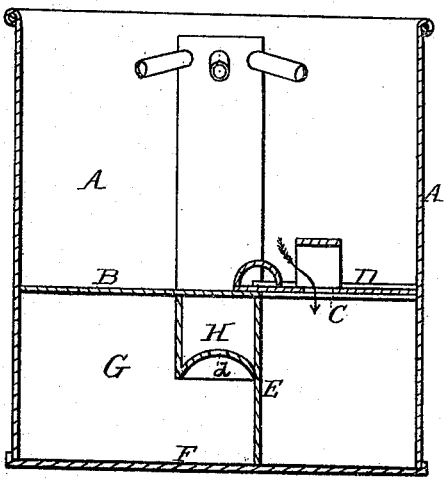


Fig. 3.



WITNESSES

Mary F. Utley.

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UNITED STATES PATENT OFFICE.

FRANK MACKLI, OF RICHMOND, TEXAS.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **168,266**, dated September 28, 1875; application filed May 22, 1875.

To all whom it may concern:

Be it known that I, FRANK MACKLI, of Richmond, in the county of Fort Bend and State of Texas, have invented a new and valuable Improvement in Wash-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my wash-boiler; and Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a transverse vertical sectional view.

This invention has relation to wash-boilers; and it consists in the construction and novel arrangement of the rigid partition-wall, open at the side, between the clothes-chamber and the water-chamber below, the vertical dividing and supporting wall extending from the lip of the opening to the bottom of the water-chamber, and having end passages; and the central supporting steam-passage or tubeway arched over the water-chamber, and communicating with the upright chutes at the ends of the boiler, substantially as hereinafter shown and described.

In the accompanying drawings, the letter A designates the main case of the boiler. B represents the horizontal partition, which is securely soldered to the main wall at all points, except at the lateral opening C, through which the current passes downward into the water-chamber. This opening is designed to be provided with a perforated valve-slide, D, whereby the volume of the downward current may be regulated. E designates a vertical dividing-wall in the water-chamber, extending downward from the lip of the opening C to the bottom F of the water-chamber, thus serving as a support to the partition B. This wall extends at each end under the segmental portions *b* of the partitions, and at its ends are located the passages *a*, through which the water passes around into the main portion G of the water or boiling chamber. A represents the tubular steam way or passage, rigidly secured to the partition B and the wall of the boiler-case. This is arched underneath or made concave upward, as shown in the drawing, thereby adding to its strength as a supporting device. In the central and highest portion of its flow, the entering opening *d* is made. At its ends are found the mouths of the upright chutes K, which extend through the partition B to the upper portion of the boiler, and discharge through the spouts *e* the steam and boiling water upon the clothes in the upper chamber. The course of the water is downward through the clothes into the passage C, on one side of the vertical wall E, through the passage *a* into the main boiling-chamber G, whence it passes with the steam, in boiling condition, into the closed tubeway H, each way to the upright chutes at its ends, which conduct it upward and discharge it through the spouts, as above mentioned.

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

The wash-boiler, having the rigid horizontal partition B, with slide-closed opening C, the vertical supporting-partition E, having the end passages *a* in the water-chamber, and the horizontal arched steam-tube H, having the central entrance *d* and the upright end chutes communicating therewith, constructed and arranged as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANK MACKLI.

Witnesses:

DAVID ADAMS,

ERNEST BAUMGART.