

D. BURDGE.
WASH-BOILER.

No. 174,776.

Patented March 14, 1876.

Fig. 1.

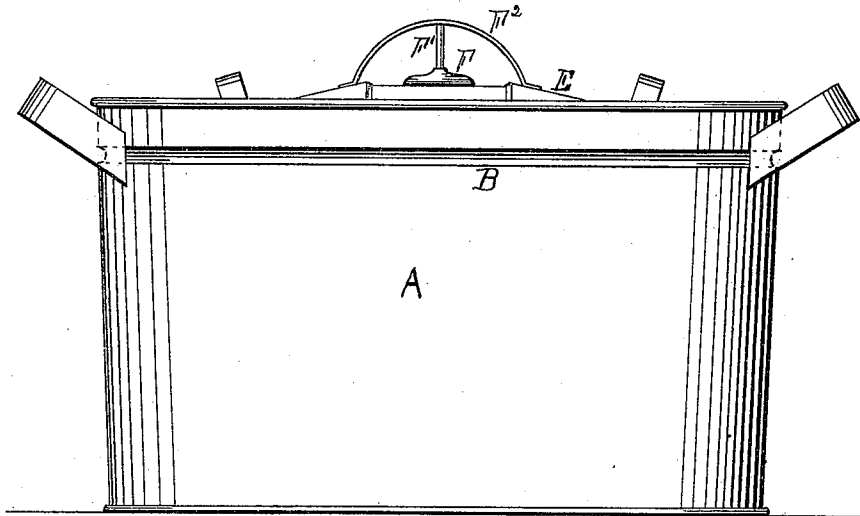
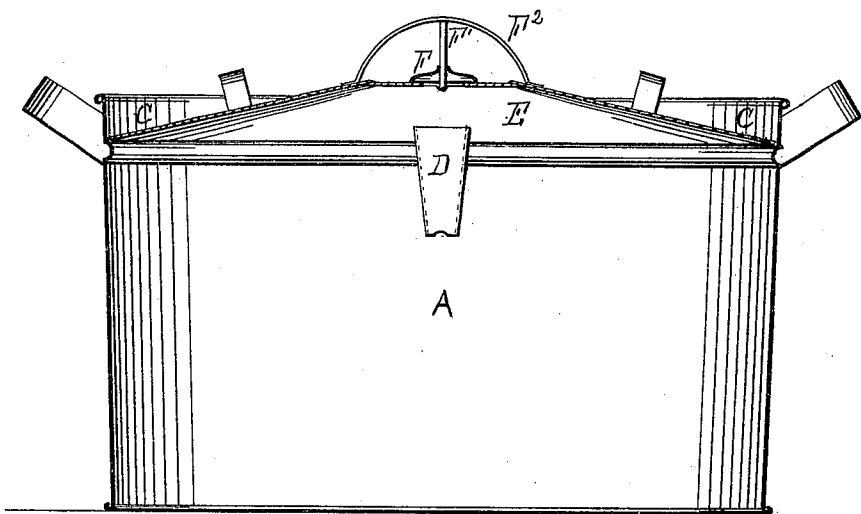


Fig. 2.



WITNESSES
Edwin James.
A. V. Gordon

INVENTOR
Dwight Burdge
per J. E. P. Holmead
Attorney

UNITED STATES PATENT OFFICE.

DWIGHT BURDGE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **174,776**, dated March 14, 1876; application filed May 16, 1874.

To all whom it may concern:

Be it known that I, DWIGHT BURDGE, of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Wash-Boilers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, and the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a side view of my improved wash-boiler. Fig. 2 is a longitudinal sectional view of the same.

My invention relates to that class of wash-boilers in which a rimless lid or cover is used, and both the boiler and lid being so constructed that neither water nor soap-suds will be spilled, but be carried back into the boiler.

The nature of my invention consists in constructing the wash-boiler with a bead extending around the interior of the same, said bead forming a seat for the lid or cover, which is constructed without a rim, and provided with a valve and drain-tubes, for the purposes as hereinafter described.

The construction and operation of my invention are as follows: A is the wash-boiler, which may be constructed out of any suitable material, and in the usual manner, with one exception. At a certain distance from the top of the wash-boiler I form a bead, B, which extends around the entire interior of the boiler and parallel with its top. The object of this bead is to provide a seat for the lid or cover E. Its advantages are that, being a portion of the boiler itself, and not connected therewith by any seam-joint, there is no danger of the same becoming detached. And, again, it is less expensive than if solder was used for the purpose of attaching a separate strip of metal to the boiler to form the seat for the lid. This bead B is formed on the boiler a distance sufficiently far below the top of the same that, when the lid E is put on and the boiler is in operation, a reservoir, C,

is provided to receive the water which has been forced above the lid by the action of the steam, and thus, in connection with the drain-pipes D D, prevent the water or soap-suds from flowing over the sides of the boiler. E is the lid or cover, which is constructed without a rim, and rests, when in position, on the bead B. D D are drain-pipes, which are attached to apertures cut in the lid E, and are tapering in form. Through these drain-pipes D D the water and soap-suds which are forced by the steam into the reservoir C, through the connection formed by the lid and bead, are carried back into the boiler, and thus prevented from overflowing the same. These drain-pipes D D are, preferably, located at the center of the lid, and on the incline of the same, a short distance from its edge. F is a valve which is so constructed that it may slide up and down freely on the wire F¹. This valve F is, preferably, located immediately under the handle of the lid, and on a line with the drain-pipes D D. The wire F¹ is right-angulantly bent, having one end fastened to the under side of the lid E, and just beyond the seat of the valve F, the other end being fastened to the handle F² of the lid or cover. The object of this valve is to relieve the bottom of the drain-pipes D D from too great a pressure of steam, which would retard the flow of water from the reservoir back into the boiler.

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

The wash-boiler A, provided with a bead, B, in combination with the rimless lid E, provided with a valve, F, and drain-pipes D D, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DWIGHT BURDGE.

Witnesses:

THOMAS MILLER,

FRED. E. UNDERHILL.