

HENRY WEIDLEY & DAVID WEIDLEY.

Improvement in Wash Boilers.

119,067.

Patented Sep. 19, 1871.

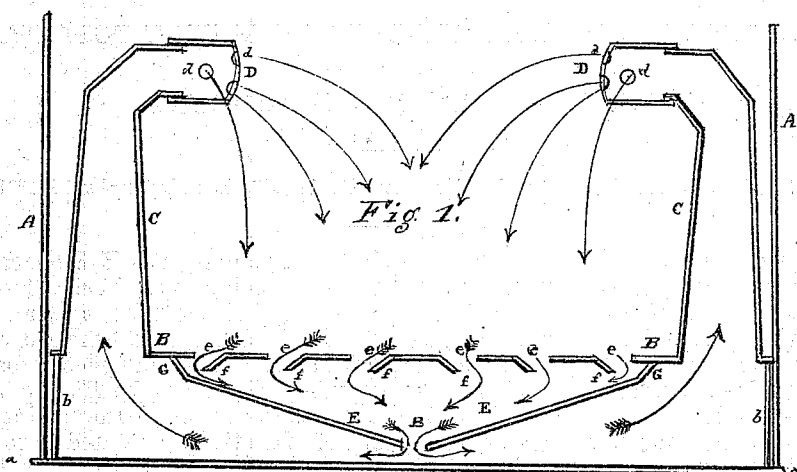


Fig. 3.

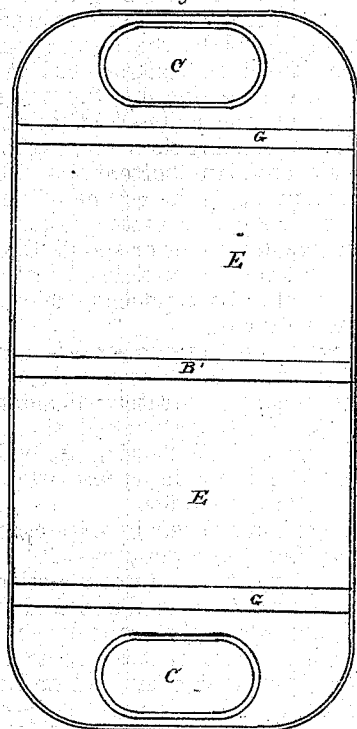
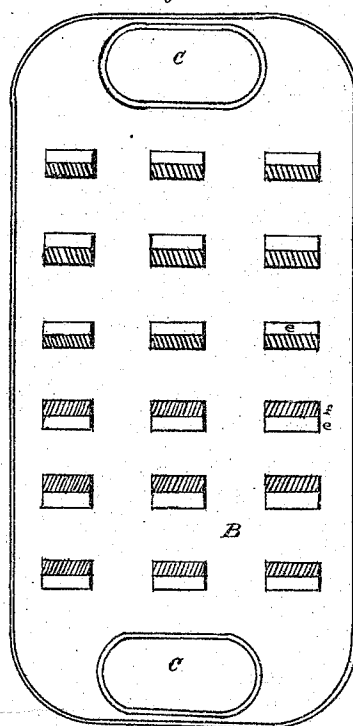


Fig. 2.



Witnesses.

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# UNITED STATES PATENT OFFICE.

HENRY WEIDLEY AND DAVID WEIDLEY, OF GREENE POST OFFICE, PA.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 119,067, dated September 19, 1871.

*To all whom it may concern:*

Be it known that we, HENRY WEIDLEY and DAVID WEIDLEY, tin-plate workers, of Greene Post Office, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Steam Wash-Boilers, of which the following is a specification:

This invention appertains to a class of wash-boilers in which the steam generated is utilized for discharging the water through pipes and portable bottoms, for which purpose various devices have been patented more or less satisfactory in their results. After trial of several we discovered defects which we believe are obviated in this arrangement.

The accompanying drawing illustrates the arrangement of said invention, in which Figure 1 shows a vertical section without the lid; Fig. 2, the upper face of the false or portable bottom and lipped slots; and Fig. 3, the under side of the same and deflecting-plates E G.

A brief explanation will enable any one skilled in the art to make and use the same.

A represents an ordinary boiler of any desired size; *a*, the bottom of the same, the handles and lid not shown. Within this boiler is a false or portable bottom, B, with a flange or rim, *b*, to raise it up. On each end is a spout, C, wider beneath, tapering upward, and bent inward, as shown, terminated by a cap, D, which is perforated on the end and sides by holes *d*. If it is desirable to have a heavy single stream from each pipe *c* the caps D can be removed. We are aware, however, that perforated flanged bottoms with pipes have been used before. What we deem novel and important to accomplish the object aimed at is the manner of making three or more series of openings by cutting out three sides of an oblong square, *e*, and bending the piece *f* or tongue downward at an angle of about forty-five degrees in such a manner that the tongues *f* will incline in each series of cuts or openings from the center toward the round or narrow ends of the boiler or tubes C, pitching the water to the right and left from the center against the

deflecting cross-plates E E beneath the tongued slotted openings *e f*. These plates E are affixed in advance of the tubes *c* by an attachment, G, and inclined thence downward to near the center, allowing an open space across from flange *b* to flange *b'*, shown by B', Fig. 3. The arrows indicate the action of the boiling water, and action of the steam generated in the bottom, under the deflecting-plates E, which finds vent only through the end flues or pipes *c*, thus forcing the boiling soap-suds up with it and pouring it out in a continuous flow of a single heavy stream, or by the use of the caps D in any desired number of jets, regulated by the size or number of the openings, the sloped tongues or lips *f* in the oblong square *e* conducting the water from the center against the inclined deflecting-plate E under the same, leading the water to the central slot over the heated true bottom *a*, and forms a barrier which prevents the escape of steam through said slot. As before stated, it can only escape through the end tubes or spouts C, so that a single handkerchief or article of clothing can be washed by this arrangement, which gives it peculiar advantages.

In view of the patents already granted we do not claim a portable bottom or end tubes, with or without caps, separately considered; but we are not aware that any lipped slots *e f*, in combination with the deflecting-plates E, arranged and operating as herein set forth, was ever known or used before; therefore,

What we claim as our invention, and desire to secure by Letters Patent, is—

The arrangement and construction of the inclined deflecting cross-plates G E beneath the bevel-lipped slots *e f*, so as to cover up the under side of bottom B, except the central slot B' and tubes or pipes C, all combined and operating in the manner and for the purpose specified.

HENRY WEIDLEY.  
DAVID WEIDLEY.

Witnesses:

P. B. SHANK,  
W. J. GRANCEL.

(117.)