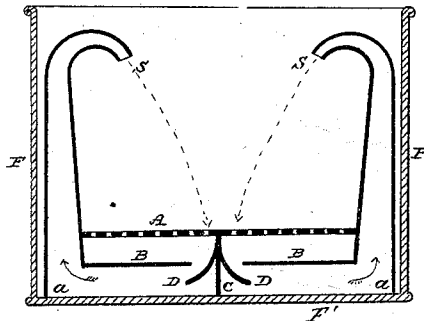


S. B. HARTMAN.

Wash-Boiler Attachments.

No. 134,800.

Patented Jan. 14, 1873.



Witnesses.

Wm. Rheinhart
R. M. Stauffer.

Inventor.

S. B. Hartman
Jacob Stauffer Atty.

UNITED STATES PATENT OFFICE.

SAMUEL B. HARTMAN, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILER ATTACHMENTS.

Specification forming part of Letters Patent No. 134,800, dated January 14, 1873.

To all whom it may concern:

Be it known that I, SAMUEL B. HARTMAN, of the city of Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Steam Wash-Boilers, of which the following is a specification:

The nature of my invention relates to the removable bottom of a steam wash-boiler in which the tubes are carried through the upper perforated portion, and also through a partial second bottom, which extends from either side, leaving a water-space between them and a central vertical partition, which latter is provided with wings or deflectors to overcome several objections experienced when there is a difference of temperature from the nature of the stove, in the two ends of an oblong boiler, as most generally used, and for producing a more certain action and promote or accelerate the process of steam-washing.

The drawing clearly shows the construction in which S S shows the ordinary spouts; A, an ordinary perforated bottom raised on a rim, *a*. The spouts S extend through the bottom A and open through a second bottom or shelf, B, into a lower chamber over the proper bottom of the boiler F'; *c* shows a central partition from the upper or perforated portion A down to the bottom of the boiler F, closing the communication between the spouts S. This partition *c* has on each side a curved water shed or shield, D; the free edge is above the bottom F', yet allowing a sufficient water-space between the second partial bottom or shelf B, on each side of the partition, as well as above the shed or shield D, which, acting as deflectors, turn the condensed wa-

ter-currents to their respective spouts on either side of the partition, to be again converted into steam to ascend through the spouts, and discharged upon the clothing contained between them in the boiler. The arrows show the direction of the water-currents.

I am aware that inclined deflecting cross-plates, attached to a perforated bottom, inside of the spouts, and inclined downward to near the bottom of the boiler, are designed to meet the object I have in view, by means of an open water-space between said plates and the bottom. This arrangement I do not claim; but, for want of a central partition, *c*, with its deflecting shields D, there is a tendency to produce commotion and an interference in the water-currents, which my arrangement obviates, as set forth, and greatly facilitates the action in the process of washing.

It will be seen, also, that my shelves B are nearly parallel to the upper surface A, and connected with the foot-rim *a*, within an inch of the partition, as shown.

What I claim as my improvement in that class of steam wash-boilers which are provided with perforated removable bottoms, raised on a foot-rim and supporting-spouts, is—

The central partition *c*, deflecting shields D, water-shelves B, when the spouts S open beneath them and extend through the perforated surface A of the combined bottom, all arranged in the manner shown, for the purpose specified.

S. B. HARTMAN.

Witnesses:

THOS. W. BROWN,
JACOB STAUFFER.