

(No Model.)

A. D. WEISS.
WASH BOILER.

No. 511,979.

Patented Jan. 2, 1894.

Fig. 1.

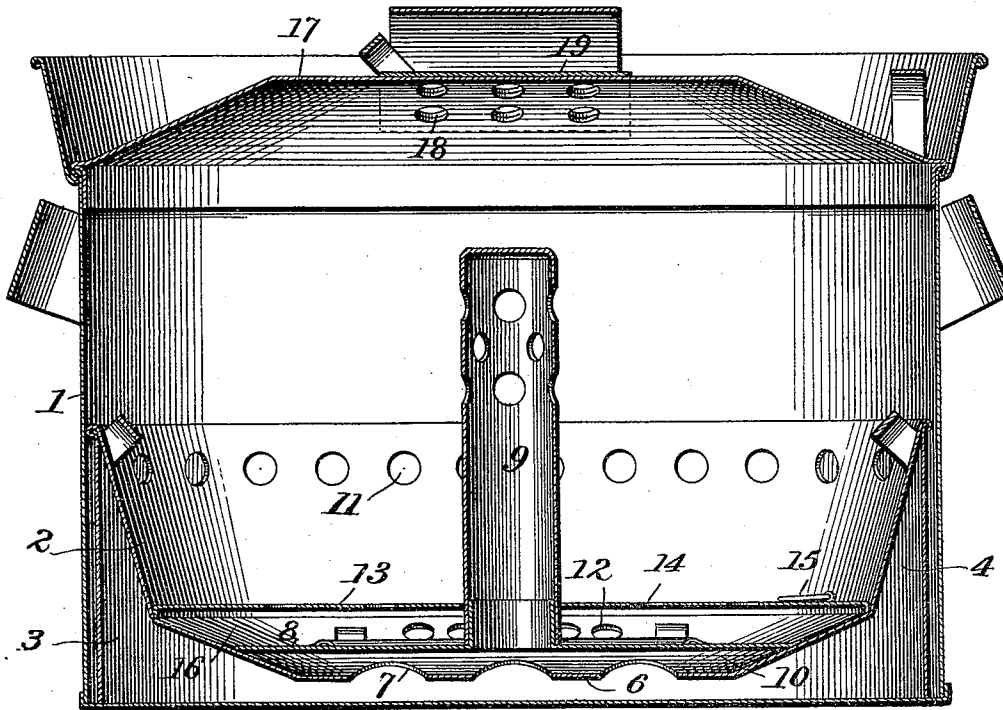


Fig. 2.

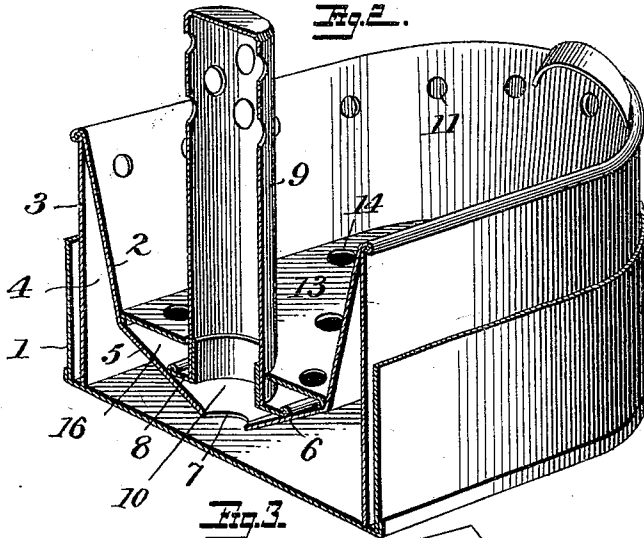
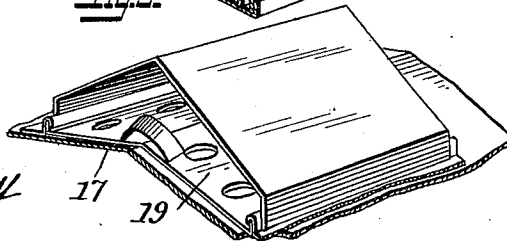


Fig. 3.



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WASHBOILER.

SPECIFICATION forming part of Letters Patent No. 511,979, dated January 2, 1894.

Application filed July 8, 1893. Serial No. 479,925. (No model.)

To all whom it may concern:

Be it known that I, ARKLESS D. WEISS, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Steam-Washers, of which the following is a specification.

My invention relates to certain new and useful improvements in washing-boilers and it consists in a novel construction, arrangement and combination of parts, all as more fully hereinafter described.

In the accompanying drawings, in which like reference signs refer to similar parts throughout the several views, Figure 1 is a longitudinal central section of my improved boiler. Fig. 2 is a perspective sectional view of one-half of the inner vessel, or steamer, and Fig. 3 is a perspective view of the lid, illustrating the steam valve.

My improved washer is intended to operate with a small quantity of water, averaging about two inches in depth, the operation of loosening the dirt and separating it from the clothes being accomplished principally by the circulation of steam. Such a boiler is very convenient as a washer, for the reason that there is little weight to handle. It is also economical and rapid because the water reaches the boiling point in a few minutes.

My improved washing apparatus is preferably made separate from the boiler proper so that the latter may be used without it for other purposes if desired.

In the drawings 1 indicates the boiler proper and 2 indicates the inner vessel, which I shall call the steamer, in which the clothes rest. The vessel 2, as above stated, might be connected permanently to the boiler, but I prefer to provide it with a support in the form of a skirt 3 somewhat deeper than the steamer 2 and surrounding it and attached to it at its upper edge. The sides of the steamer 2 are sloped inward so as to leave a space 4 between it and the skirt. The bottom 5 of the steamer, which is preferably V-shaped, does not quite reach to the bottom of the boiler, leaving a space 6 below it. In the bottom 5 are several perforations 7 and above the perforations is a dividing plate 8 which

supports a stand-pipe 9 centrally. Between the bottom 5 and the dividing plate 8 is a space 10 which is in communication with the stand-pipe 9. The stand-pipe extends about three-fourths of the distance to the top of the boiler and is perforated near its top to permit steam and water to escape and mingle with the clothing which is being washed. The steamer 2 is provided with two series of perforations, one series 11 near its upper edge and another series 12 in the bottom 5.

Resting upon the bottom 5 at its junction with the sides of the vessel 2 is a removable bottom 13 forming a support for the clothes having perforations 14 and a lifting handle or ring 15. Between the plate 13 and the V-shaped bottom 5 is a considerable space 16.

For relieving the pressure within I provide the boiler lid 17 with a series of perforations 18 and a sliding plate or valve 19 having similar perforations and sliding in flanges which hold it close to the lid.

In operation the boiler is filled with water about to the depth of the dividing plate 8 and the clothes after being soaked a few minutes in cold water are placed within the steamer 2 upon the perforated bottom 13 and around the stand-pipe 9. The boiler is then placed on the fire and on account of the small amount of water it commences to boil almost immediately. Steam forms in the space 4 and passes into the body of the clothes through the openings 11. It also forms in the space 16 beneath the perforated bottom and passes up through the openings 14. In the space 10 both steam and water will collect and the pressure of the steam will drive more or less water up through the stand-pipe 9. A considerable portion of steam will also pass out of the perforations in the stand pipe directly into the mass of clothes being washed.

I have found that by the use of my improved steam washer the clothes can be cleansed very rapidly and thoroughly.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a steam washing boiler the combination with the boiler proper, of an inner removable vessel or steamer 2 having sloping

sides, which are perforated, and a V-shaped bottom 5, also provided with perforations, a perforated support 13 for the clothes above the bottom 5, a dividing plate between the bottom and the clothes support, and a stand-pipe resting on said dividing plate and having perforations at its upper end, substantially as described.

2. The combination with the boiler proper, of an inner vessel or steamer having sloping perforated sides, a surrounding skirt 4 forming a support for said vessel, a V-shaped per-

forated bottom 5 in the vessel, a dividing plate 8 resting on said bottom and supporting a stand-pipe 9, and a perforated support 13 for the clothes resting upon the bottom 5 above the dividing plate, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ARKLESS D. WEISS.

Witnesses:

W. L. RAEDER,
JOHN KNAUBER.