

HENRY W. PELL.

Improvement in Wash-Boilers.

No. 115,234.

Patented May 23, 1871.

FIG. 1.

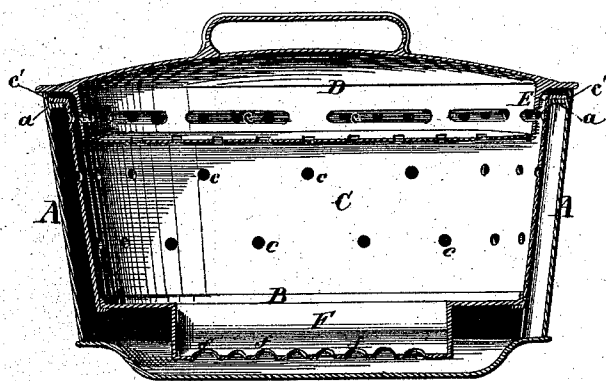
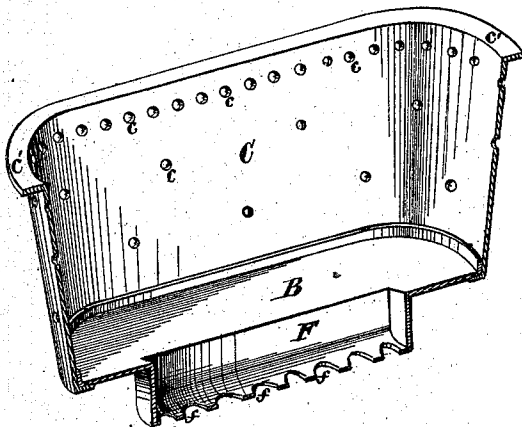


FIG. 2.



WITNESSES.

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United States Patent Office.

HENRY W. PELL, OF ROME, NEW YORK.

Letters Patent No. 115,234, dated May 23, 1871.

IMPROVEMENT IN WASH-BOILERS.

The Schedule referred to in these Letters Patent and making part of the same.

I, HENRY W. PELL, of Rome, in the county of Oneida and State of New York, have invented a new and useful Washing Attachment for Boilers, of which the following is a specification.

Nature and Objects of the Invention.

The subject of the invention is a removable inner boiler, which may preferably be employed in connection with a double cover, such as is described in my patent of the 18th of April, 1871.

My present improvement consists in providing a removable inner shell with a deep perforated channel in the bottom to prevent steam or suds being forced up through the bottom of the said inner boiler, but at the same time to allow a free passage of water downward into the reservoir or water-space between the two boilers. The said water is forced upward between the inner and outer boilers, entering the inner boiler through perforations in the sides thereof, or in the double cover if one is used, then percolating down through the clothes so as to produce a perfect circuit of hot suds through the clothes, the effect of which is to cleanse them in a very short time without friction or violence.

The great advantage of using a removable inner shell or auxiliary boiler is that it admits of readily cleansing all the parts of the apparatus.

Description of the Accompanying Drawing.

Figure 1 is a longitudinal section of the entire apparatus.

Figure 2 is a perspective view of the removable inner shell or auxiliary boiler.

General Description.

A represents the body of a sheet-metal boiler, which may be made of common construction and of any approved shape.

B C represent, respectively, the bottom and sides of the removable inner boiler.

The sides are provided with apertures, *c*, of any necessary number, and arranged as may be found

most efficient. I prefer to employ a large number near the upper margin, as represented.

c is a flange projecting outwardly from the top of the inner boiler, and resting on a flange or lugs, *a*, on the interior of the outer boiler, so as to support the inner shell at a proper height within it.

D represents a flanged lid covering the outer boiler proper, and furnished with an inner perforated plate, E, between which and the outer cover is a water-passage, as is described in my patent before referred to.

F is a sink or channel extending below the bottom B within the pit of the boiler proper, if such boiler be formed with a pit, and extending nearly to the bottom thereof.

In the bottom of this channel is a number of perforations, *f*, through which the water passes downward.

The operation of the apparatus will be clearly understood from the foregoing description.

The bottom B may be made separable from the sides, if desired, and supported by an inwardly-projecting flange. Without this separation, however, all the parts are readily accessible for cleansing when the inner shell is removed from the boiler proper.

I have thus provided a washing apparatus as efficient as any automatic boiler in use, while it is of economical construction and perfectly easy to keep in order.

Claims.

I claim as my invention—

1. The combination of the bottom B, the sides C, apertures *c* in upper part of sides, and the deep channel F extending longitudinally of the bottom, and formed with perforations *f* for the passage of water, all as herein described, for the purpose set forth.

2. The combination of the inner boiler B C F and the double perforated lid D E, constructed and operating as described.

Witnesses:

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