

W. FINLEY.  
Wash-Boilers.

No. 211,465.

Patented Jan. 21, 1879.

Fig. 2.

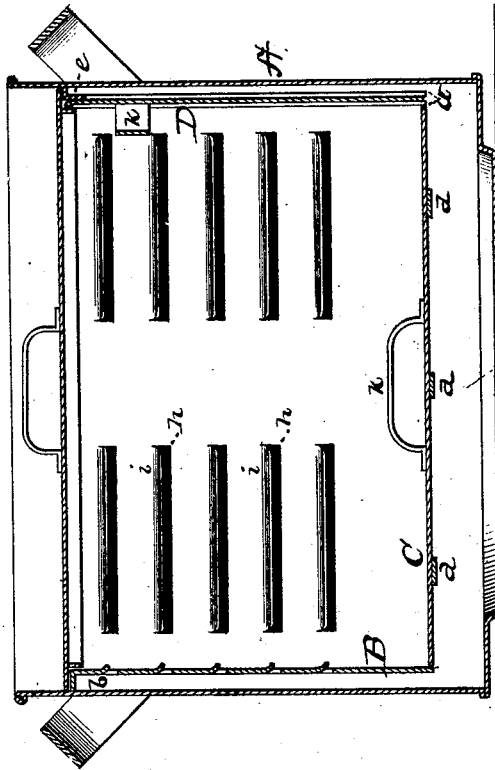
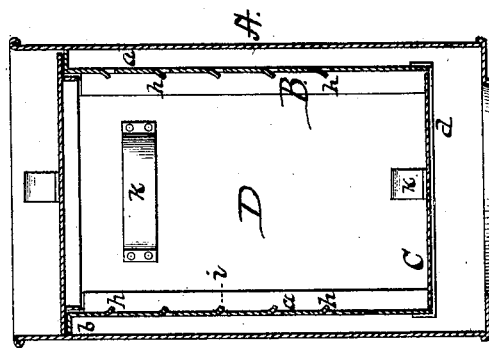


Fig. 1.



WITNESSES

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## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **211,465**, dated January 21, 1879; application filed February 20, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM FINLEY, of Flemingsburg, in the county of Fleming and State of Kentucky, have invented a new and valuable Improvement in Wash-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a central longitudinal section of my improved wash-boiler. Fig. 2 is a central transverse cross-section of the same.

This invention relates to that class of wash-boilers wherein currents of water are caused to flow from bottom to top and upon the clothes within the boiler; and the novelty consists in certain improvements in that class of machines, as will be hereinafter more fully set forth and specifically claimed.

In the annexed drawings, forming a part of this specification, the letter A represents the outer shell of the boiler, and B the inner shell, provided with a false bottom, C. The inner shell terminates at one end in guide or gate ways *a a*, for the reception of the slide D.

The upper end of the inner shell, B, is firmly attached to and supported or suspended by the shelf or ledge *b*, secured near the upper end on the inner side of the outer shell. The lower end of this inner shell is provided with cross or brace rods *d*, serving also as supports for the loosely-fitting false bottom.

It will be observed that this inner shell is continuous on two sides and one end, and extends within about two inches of the bottom of the outer shell.

The other or open end of the shell is provided with guideways *a*, in connection with the overhanging ledge *e*, forming end passages for the slide D. (See Figs. 1 and 2 of the drawings.)

By this construction and arrangement of the outer and inner shells a space is formed between the shells, whereby a continuous circulating-passage for the water is produced. This circulating-passage is closed at the top; but the end and side walls of the inner shell

are provided with a series of oblong slots or openings, *h*, arranged in rows to afford outlets for the jets of expanded water. The upper ends of these openings *h* are provided with projecting shelves or ledges *i*, formed by cutting the openings, for conducting or directing the jets of water upon the clothes to be cleansed resting upon the false bottom.

The end slide is designed to be perforated in the same manner as the side walls of the inner shell.

The false bottom and end slide, provided with handles *k*, are removable, to admit of readily cleansing the boiler after a wash.

The boiler is also supplied with a tight-fitting cover resting upon the upper edge of the inner shell, substantially as shown.

Operation: The clothes are laid in soap-suds over night. Next morning the boiler is filled with boiling water, so as to cover the false bottom. Soap the clothes as for ordinary washing. The clothes should then be folded and laid within the boiler upon the false bottom, pressing the edges tightly against the sides of the inner shell. Under the application of heat the water expands, and is forced up the intermediate passage between the inner and outer shells, and is discharged through perforations or slots in the inner shell on top of the clothes in jets, whence it percolates through the mass, and through the spaces around the false bottom, carrying the dirt extracted with it, which is deposited as sediment on the bottom of the boiler. Add one gallon of boiling water, and the circulation is continued until the clothes are thoroughly cleansed, when they are removed, rinsed, and wrung for the clothes-line.

What I claim is—

A clothes-washer consisting, essentially, of the outer shell, A, and inner shell, D, the latter provided with a series of oblong openings, *h*, for discharging the water, and a series of ledges, *i*, arranged over the openings, for directing the water upon the clothes, substantially as described.

WILLIAM FINLEY.

Witnesses:

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