J. D. EGLER.

Wash-Boiler.

No. 167,082. Patented Aug. 24, 1875.

Fig. 1.

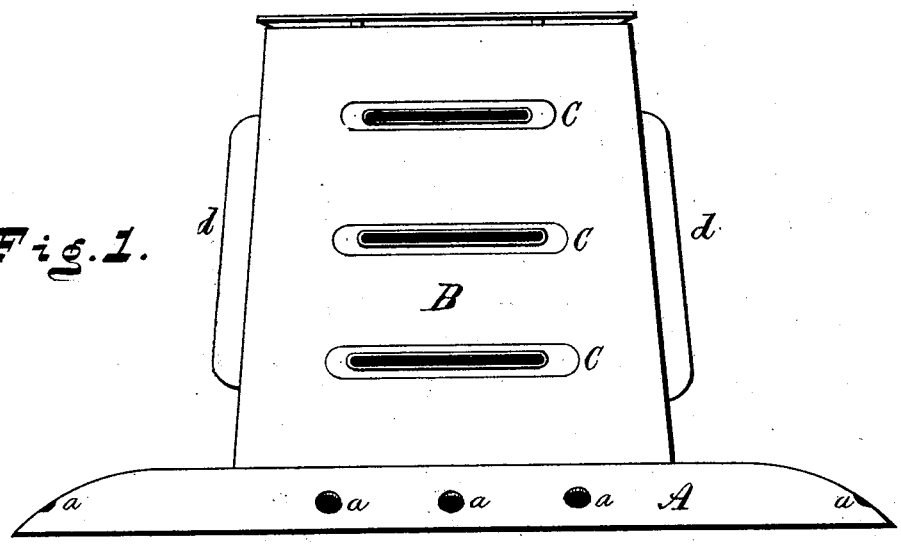
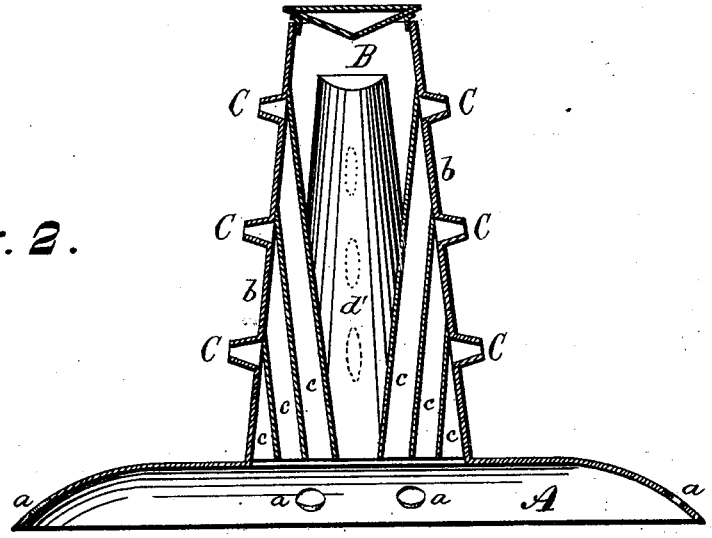


Fig. 2.



Witnesses
P. B. Reilly
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UNITED STATES PATENT OFFICE.

JACOB D. EGLER, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **167,082**, dated August 24, 1875; application filed May 31, 1875.

To all whom it may concern:

Be it known that I, JACOB D. EGLER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Wash-Boilers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a vertical transverse section through the middle.

My invention relates to attachments to wash-boilers in which steam is the agent used to soften the dirt in the goods or clothes, and thereby render them capable of easy rinsing and cleaning. It consists in a concave base or flange, perforated under the water-line to admit water and confine the steam, which is then forced upward and out into and about the clothes through a number of distinct and separate outlets, causing a thorough permeation of steam through the clothes, while the outlets form a series of projections to retain the clothes in place, the lid being provided with escape-valves and slides to regulate the pressure.

Reference being had to the drawings herewith, A represents the concave base, perforated at, *a*, points below the water-line. B represents the body or upper part, consisting of sloping walls *b*, open at top and bottom. In the sides are outlets C, to which, from the base, lead the flues *c*, each flue having but one inlet and outlet. The end walls are perforated at several points, all opening into one outlet, *d*, at each end. To these lead the flue (which I prefer to make semi-cylindrical) *d'*, which also has but one inlet at the bottom. All corners are rounded off, so as to prevent tearing. The center constitutes a flue, opening all around the top of the body.

The attachment being placed in the boiler, water is poured in till it covers the base perforations. Then the clothes are packed in about the open space between the sides of the attachment and the boiler, after which the lid is put on, and may be, if desired, fastened down. Then, being heated, the steam evolves and fills the body, after which all the after-produced steam passes into the various flues, and, by the steam constantly evolving, is forced up and out all the different outlets, thus striking into the clothes in a most thorough manner. If the steam pressure becomes too great the valves in the lid may be opened, or the lid itself partially so, to relieve it. The tension of the steam forces it all through the material to be cleaned, and more effectually than water at a boiling heat can ever do; hence the advantage obtained is speed and superior results. The clothes so steamed can, with a few touches, be brought to the highest degree of cleanliness.

I do not claim, broadly, in a steam clothes-washer, the arrangement of steam-escapes at different heights from the base.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is as follows:

The improved steam clothes-washer, consisting of the perforated base A, central oblong and tapering shell B, having flanged openings C, at different heights respectively, and communicating by separate flues *c* with the base A, and having, also, the end flues *d*, all constructed and arranged substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of May, 1875.

JACOB D. EGLER.

Witnesses:
THOS. J. MCTIGHE,
A. CORCORAN.