

H. BICKEL.

Wash-Boiler Attachments.

No. 135,069.

Patented Jan. 21, 1873.

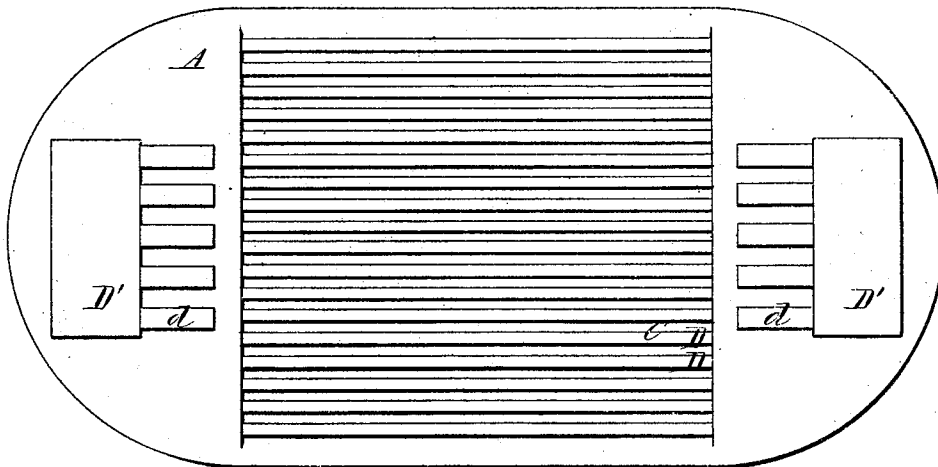


Fig. 1.

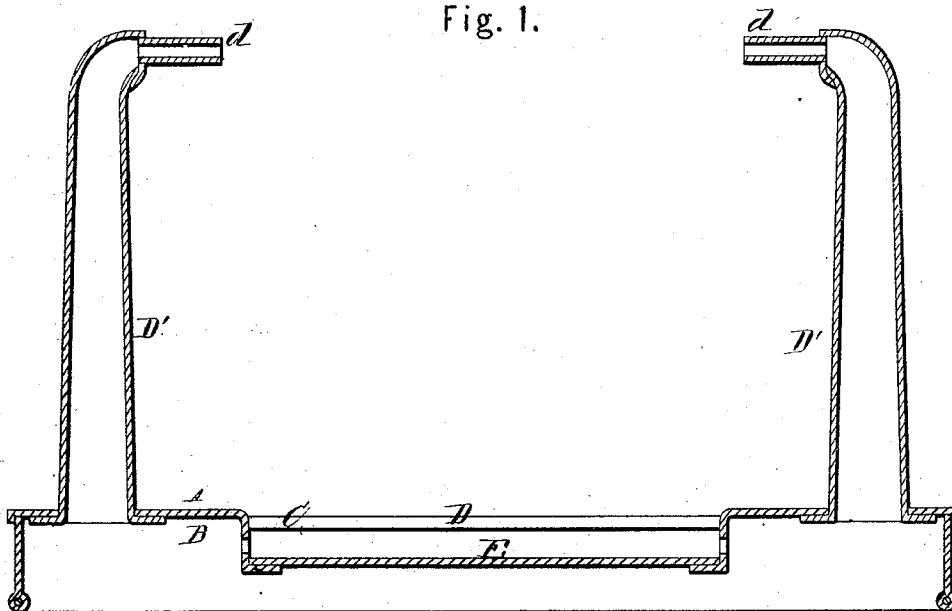


Fig. 2.

WITNESSES.

Villette Anderson.

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UNITED STATES PATENT OFFICE.

HENRY BICKEL, OF MYERSTOWN, PENNSYLVANIA.

IMPROVEMENT IN WASH-BOILER ATTACHMENTS.

Specification forming part of Letters Patent No. 135,069, dated January 21, 1873.

To all whom it may concern:

Be it known that I, HENRY BICKEL, of Myerstown, in the county of Lebanon and State of Pennsylvania, have invented a new and valuable Improvement in Jet-Steam Washers; 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my invention. Fig. 2 is a sectional view of the same.

This invention has relation to a steam clothes-washing apparatus to be used in connection with an ordinary wash-boiler; and it consists in the construction and novel arrangement of the parts, substantially as hereinafter more fully described.

Referring to the drawing, A designates the flat oval bottom of the washer, of a size and shape to fit the boiler nicely, and provided with a depending rim, B, which rests on the bottom of the latter, allowing space between the washer and boiler bottom for sufficient water. C designates an opening in the center of the bottom A, and D parallel bars placed across said opening to hold the clothes. D' indicates flattened or rectangular tubes rising perpendicularly from the bottom A, underneath which they open, and located at the ends of the washer. At their upper ends the

tubes D' are bent over toward each other, contracted, and provided each with a series of small jet-tubes, *d*, running horizontally.

As the water boils in the boiler it rises up in the tubes D', and escapes with the steam in the form of spray from the ends of the tubes *d*, falling thence on the clothes, thoroughly saturating and steaming them, and finally passing off underneath the boiler at the perforated ends of a plate, E, arranged below the opening C.

The plate E is designed to prevent the water from rising at the center of the washer, hence it causes a vacuum to be created, which has the effect of promoting the downward passage of the water which falls on the clothes from the jet-tubes.

What I claim as new, and desire to secure by Letters Patent, is—

The attachment for wash-boilers, herein described, consisting of the bottom plate A having the central opening C, and covered by the longitudinal bars D, and plate E and bent tubes D' with the jet-tubes *d*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY BICKEL.

Witnesses:

E. R. LIGHT,
J. P. S. GOBIN.