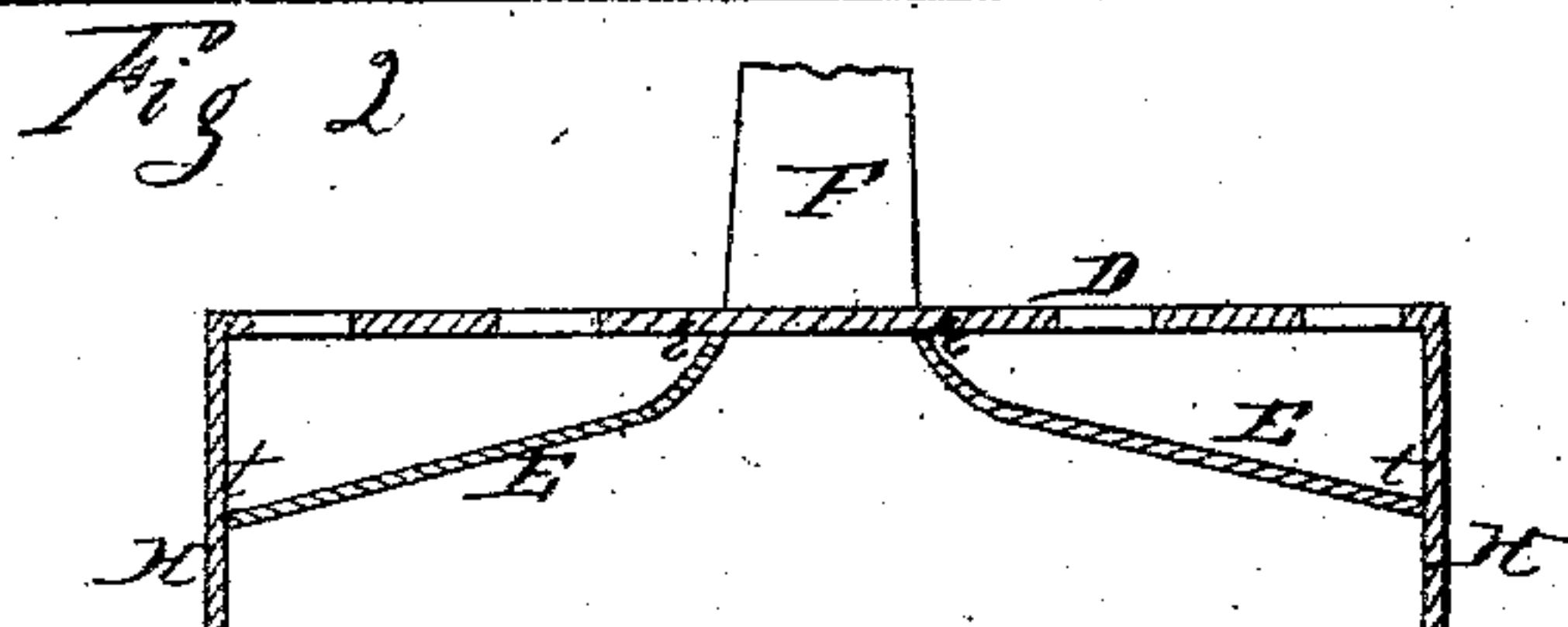
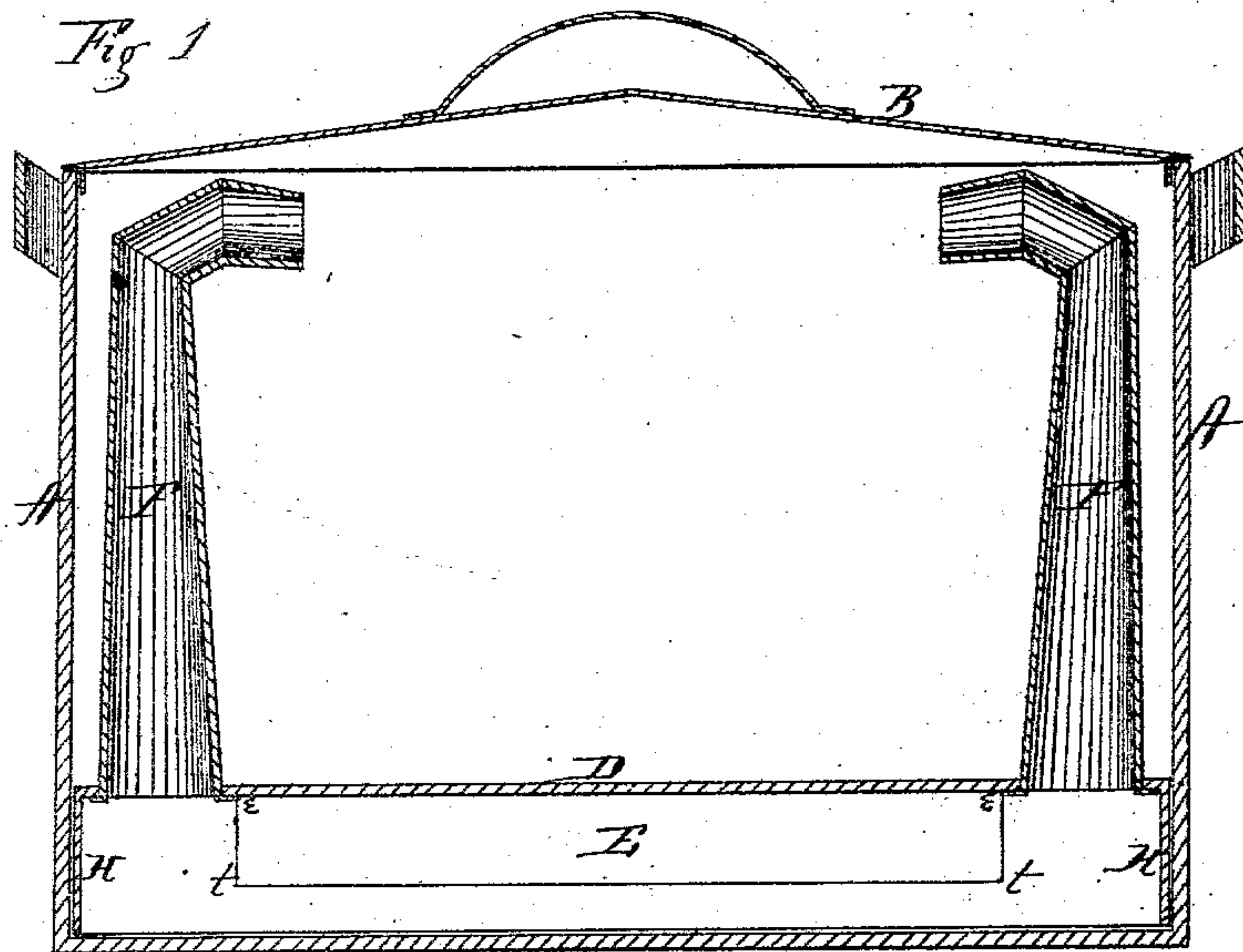


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PATENTED AUG 16 1870

O F Stedman

Wash Boiler



Witnesses

John M. Stebbins

C. L. Querk

Inventor

O. F. Stedman

Alexander Massey

Atty.

UNITED STATES PATENT OFFICE.

OSCAR F. STEDMAN, OF WESTFIELD, NEW YORK.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 106,516, dated August 16, 1870.

To all whom it may concern:

Be it known that I, OSCAR F. STEDMAN, of Westfield, in the county of Chautauqua and in the State of New York, have invented a new and useful Improvement in Wash-Boilers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon forming part of this specification.

The nature of my invention consists in the construction of an apparatus or attachment to be placed within a common wash-boiler, and used in connection therewith, composed of the following-described combination of parts, viz: A movable perforated bottom or plate, surrounded by and supported upon a rim or band, which band is made to fit close around the sides, and rests upon the bottom of the boiler. Passing through and rising from each end of the perforated plate is a tapering tube or pipe, wider at the bottom and bent inward at the top for the purpose of conveying the hot suds forced by the action of the steam from below to the space above the perforated plate, pouring it upon the clothes, which are placed upon the top of the perforated bottom or plate. To prevent the suds and steam from rising through the perforations in the plate and force them directly to the openings of the tapering pipes two sectional longitudinal plates are placed below the perforated bottom, one edge of each being secured to the perforated plate near the center, and the other edge to the upright rim or band that supports the perforated plate, and made of a width sufficient to cover and protect the perforations from the action of the rising steam. These sectional plates are not quite as long as the perforated bottom, thus leaving an opening at either end for the passage of the suds back into the bottom of the boiler. The sectional plates are arranged in such a manner as to allow quite a space between them and the perforated bottom, thus forming a parachute to conduct the suds that

has passed downward through the perforated bottom back into the bottom of the boiler at a point near the openings of the upright pipes, the effect of which arrangement is that the steam generated at the bottom of the boiler acts directly upon it to force it again up the tubes, thus causing the circulation to go on with marvelous rapidity, cleansing the fabrics thoroughly without any rubbing. The plates may be attached permanently, as described, or made removable.

In the annexed drawing, Figure 1 is a longitudinal section, and Fig. 2 is a transverse vertical section of my improvement.

A represents an ordinary wash-boiler, and B the cover thereto. D is a movable perforated bottom, attached to and supported by the band H. E E are longitudinal sectional plates, attached to the perforated plate at *e*, and to the band at *t*. Through each end of the perforated plate D is a tube, F, wider at the bottom, so arranged that the steam and suds generated at the bottom of the boiler and passing along below the sectional plates may pass directly into them. The tubes rising above the perforated bottom are bent inward at the top, so that the steam and suds rising through them are poured directly upon the clothes placed upon the perforated bottom.

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

The combination of the sectional plates E E with the perforated bottom D and upright band H, the whole operating in connection with the tubes F F, substantially in the manner and for the purposes described.

I testify that I claim the foregoing I have hereunto set my hand this 14th day of June, 1870.

O. F. STEDMAN.

Witnesses:

GEO. WILSON,
JOHN LUTHI.