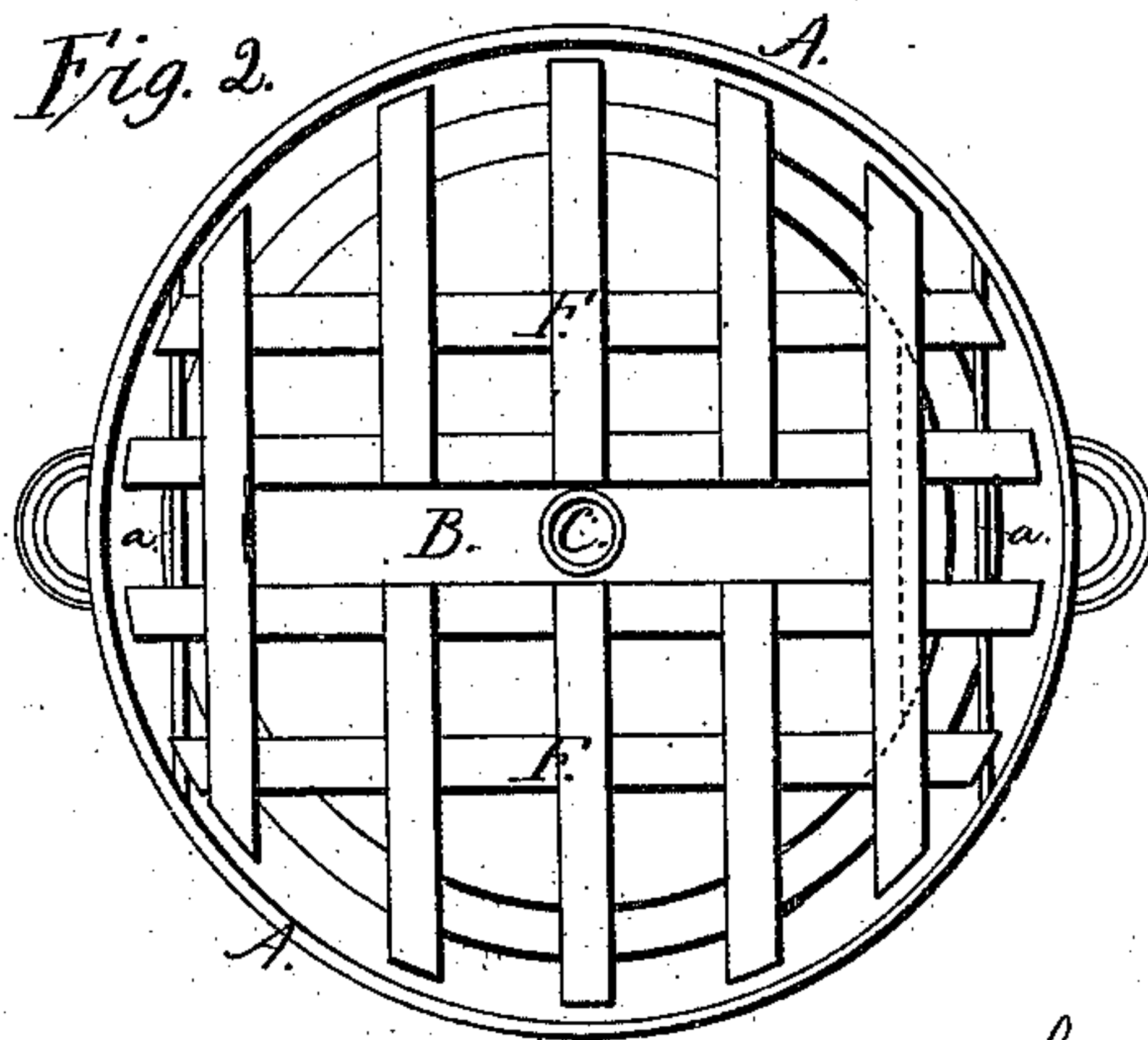
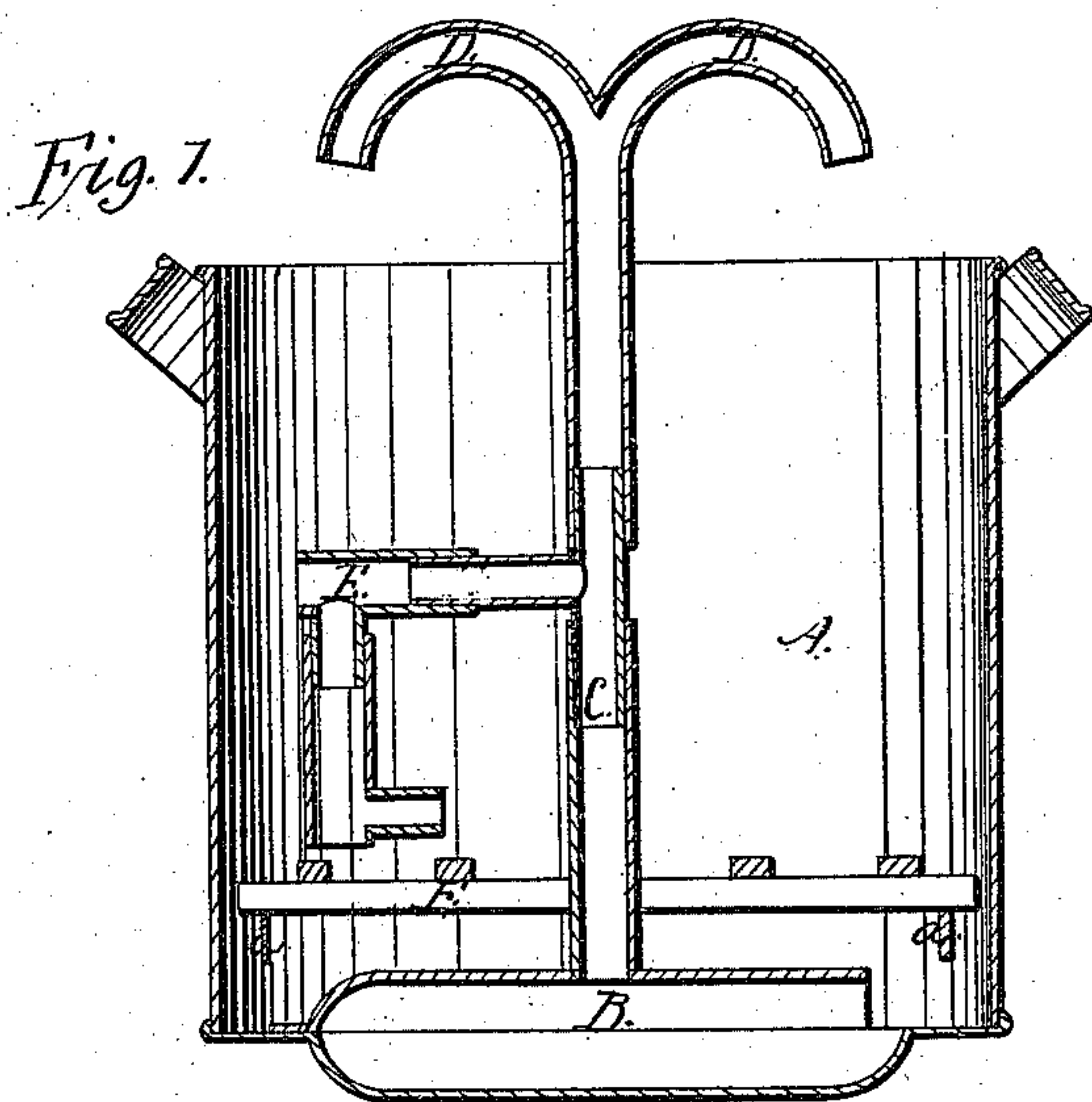


Sweetland & Fenn,

Wash Boiler,

N^o 81,556,

Patented Aug. 25, 1868.



Witnesses:
Leopold Everh
Hamm.

Inventor:
J. B. Sweetland
S. J. Fenn
per Alexander J. Mason
Attys.

United States Patent Office.

J. B. SWEETLAND AND SILAS T. FENN, OF PONTIAC, MICHIGAN.

Letters Patent No. 81,556, dated August 25, 1868.

IMPROVEMENT IN WASH-BOILERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, J. B. SWEETLAND and SILAS T. FENN, of Pontiac, in the county of Oakland, and in the State of Michigan, have invented certain new and useful Improvements in Washing-Boilers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in the construction of a wash-boiler with double bottom, and so arranged that the clothes are not put in the water, but above it, and the steam and hot suds pour into them both from above and from the side.

In order to enable others skilled in the art to make and use our invention, we will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a sectional elevation, and

Figure 2 a plan view.

A represents a wash-boiler made of any shape and size desired. On the bottom of said boiler is a similar bottom, placed upside down, and soldered to it, forming a double bottom, in which the steam is generated. The upper part of this double bottom, B, is cut off, at one end, as shown in fig. 1, allowing free ingress for the water, which can only escape through a hole in the centre of the upper bottom. In this hole a tube, C, is inserted, through which the steam and hot suds pass upwards.

This tube may be made in as many sections as may be required, and it is provided at its upper end with one or more spouts, D D, bent downward, forcing the steam, &c., down on the clothes. One or more side-tubes, E, with spouts, may also be placed on the tube C, so as to force the steam through the clothes from the sides as well as from above.

At a suitable distance above the bottom, B, braces *a a* are secured to the sides of the boiler, and on these braces the rack F is placed.

The advantage of having the reversed bottom without any perforations is, that the steam can escape only as it comes through the spouts or through the opening where the water goes into the bottom.

The only object of having any perforations is to give the water a chance to soak through the clothes and fill the vacuum caused by the water passing up the spout. We avoid the necessity of having such perforations by using the rack F, which rests on the braces *a a* above the reversed bottom, thus saving the power which would otherwise be lost by giving the steam vent through the perforations instead of passing up the tube C, in the centre.

By placing the clothes above the water, instead of in it, we get the full force of the water from the pipe, and it is not deadened by striking the water.

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

The combination of the double bottom B, pipe C, spouts D D, side-pipe E, braces *a a*, and rack F, all constructed as described, and operating substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands, this sixth day of July, 1868.

J. B. SWEETLAND,
SILAS T. FENN.

Witnesses:

A. W. BURTT,
ENOCH M. BEEBE.