

J. O'BRIEN.
Wash-Boiler.

No. 215,657.

Patented May 20, 1879.

Fig. 1.

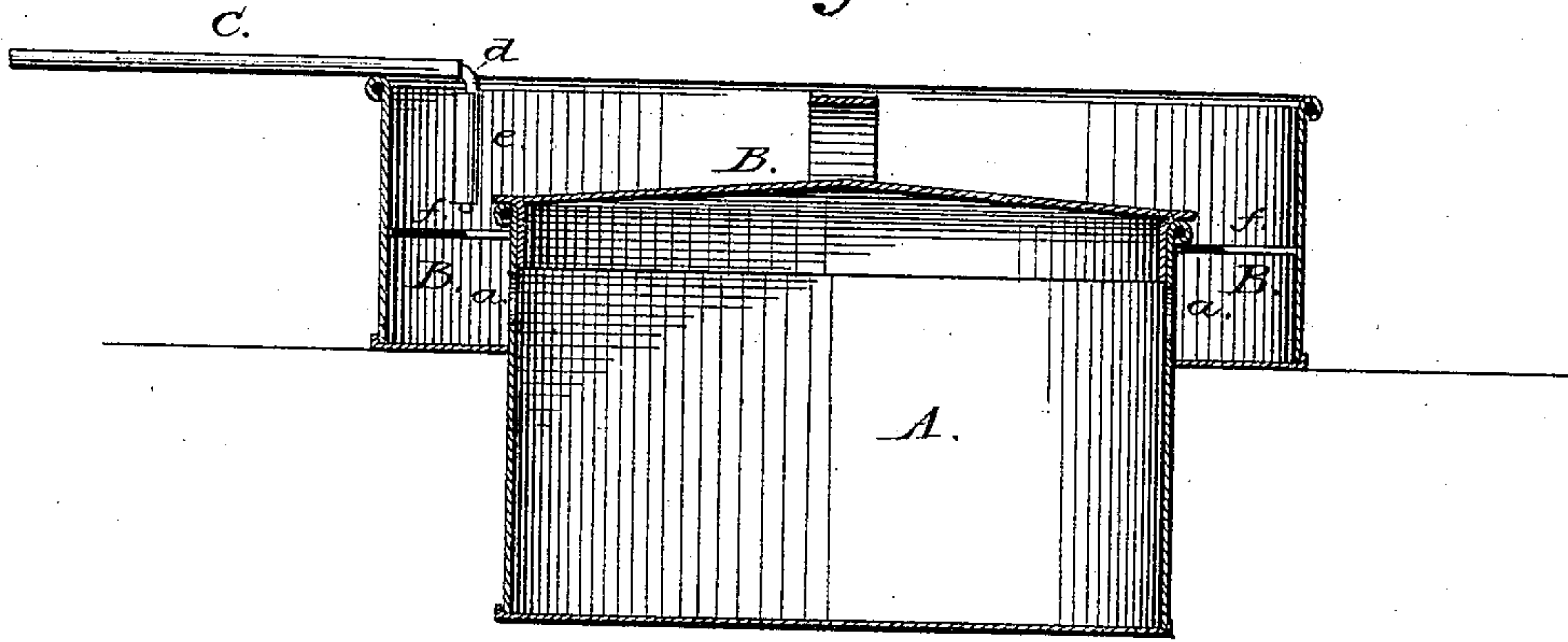
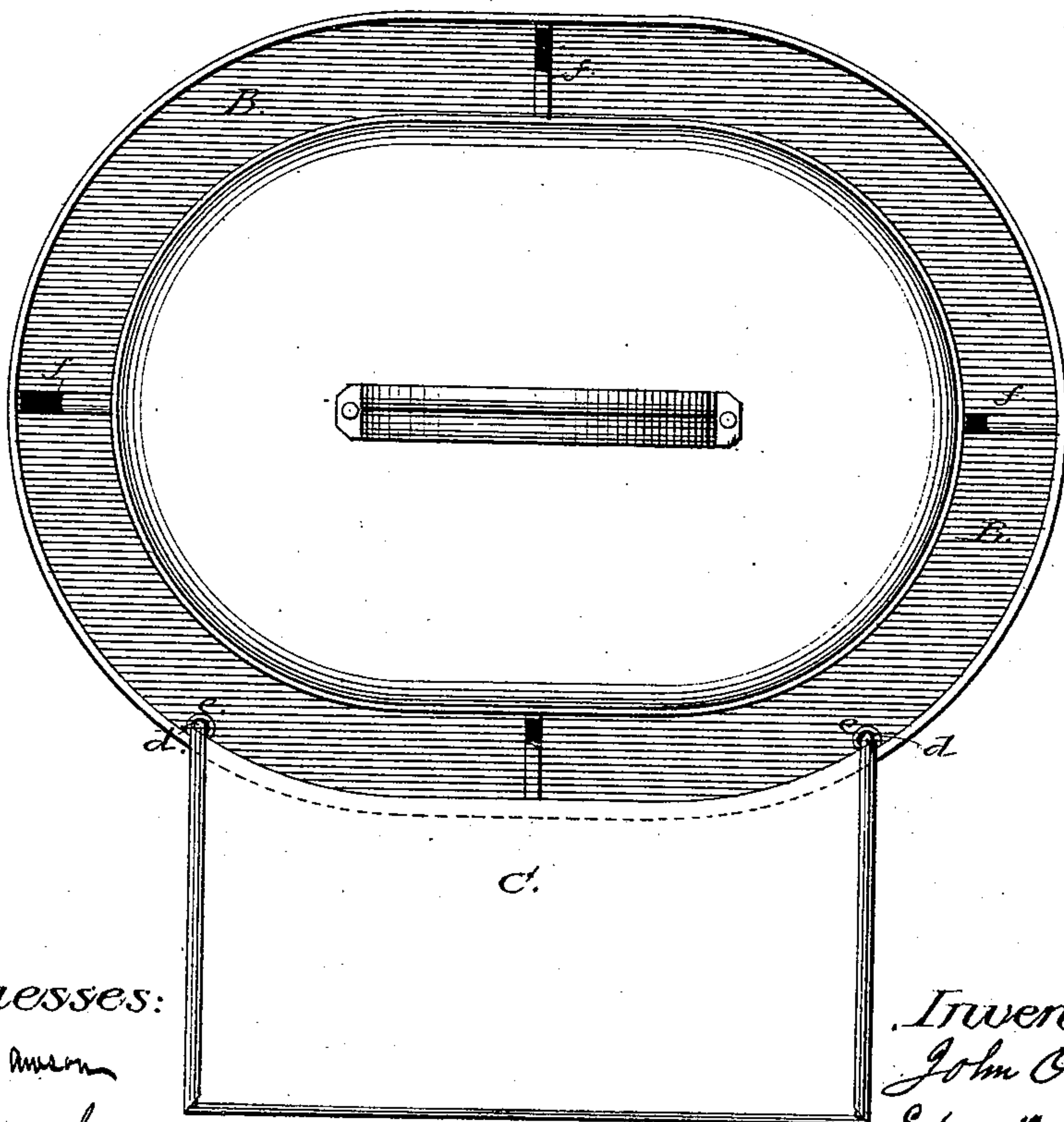


Fig. 2.



Witnesses:
William J. L. Mason
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per Edw. M. Dunn
Att'y.

UNITED STATES PATENT OFFICE.

JOHN O'BRIEN, OF TURNER'S FALLS, MASSACHUSETTS.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **215,657**, dated May 20, 1879; application filed February 28, 1879.

To all whom it may concern:

Be it known that I, JOHN O'BRIEN, of Turner's Falls, in the county of Franklin and State of Massachusetts, have invented certain new and useful Improvements in Wash-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is an improvement in wash-boilers.

It consists of a wash-boiler having openings near its top, which communicate with an open overflow-chamber, provided with a flat bottom, adapted to bear on the plates of a stove, and having its vertical walls extending above the top edge of said boiler, as will be hereinafter fully set forth.

Figure 1 is a vertical section. Fig. 2 is a plan or top view.

Similar reference-letters indicate like parts in all of the figures.

Referring to drawings, A is the boiler, of the usual form, made of sheet metal or other suitable material, provided with openings in its sides (one or more) and a suitable cover. B is the overflow-chamber, having a horizontal bottom and upright sides, secured to the outside of the boiler with a water-tight joint, and following the general outline of the vessel to which it is attached.

The openings *a a*, provided in the sides of the boiler, are intended to allow the free passage of steam and water into the overflow-chamber B. This overflow-chamber, which surrounds the boiler, and has its outline corresponding with it, has its vertical rim or wall extending above the top of said boiler, to serve as a guard to prevent the overflow of water from rushing upon the plates of the heater or stove.

Stays *f* are fixed at suitable points between the vertical rim of the overflow-chamber and the outer surface of the boiler proper, to give

to the bottom and walls of said chamber additional strength of attachment.

Within the vertical rim of the overflow-chamber are secured sockets *e e*, to receive the legs *d* of the table C. This table C, which is intended as a rest for the articles as they are taken from the boiler, is formed of a plain piece of metal, strengthened at its narrow edges by wire inclosed by swaging. By extending said wires I form the legs *d*, which are bent down at right angles to the plane of the table.

In an ordinary boiler without the overflow-chamber the sockets *e e* might be attached to the periphery, and the table applied as previously mentioned.

The boiler is provided with a cover like those in ordinary use.

In using my boiler it is unnecessary to remove the top to allow of an escape of steam, as the openings will always afford suitable vent, and allow the excess of water produced by expansion to pass into the chamber B.

It is important to my boiler that the openings *a a* be above the horizontal surface of the overflow-chamber, in order that when the boiler is properly filled there will always be a small quantity of water in the said chamber, to prevent the heat from the stove from opening or disconnecting the joints of the metal while in the act of boiling, or when the boiling has subsided.

It is also of importance that these openings *a a* be placed sufficiently below the top edge of the boiler to allow of placing the top or cover without having its rim cover or close them.

I do not wish to be limited in the use of my principle to domestic boilers, as boilers made on a large scale might be used for cleansing staple goods, &c.

The table C, for the support of the articles, when fixed in place, should have a slight inclination inward, so as to shed the drippings toward the vessel to which it is attached. This table, being readily detachable, serves as a convenience in transferring the articles of clothing from the boiler to the wash-tub.

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

A wash-boiler provided with openings *a* near its top, in combination with the open overflow-chamber provided with a flat bottom, adapted to bear on the plates of a stove, and having its vertical walls extending above the top edge of said boiler, as specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN O'BRIEN.

Witnesses:

JAMES S. GRINNELL,
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