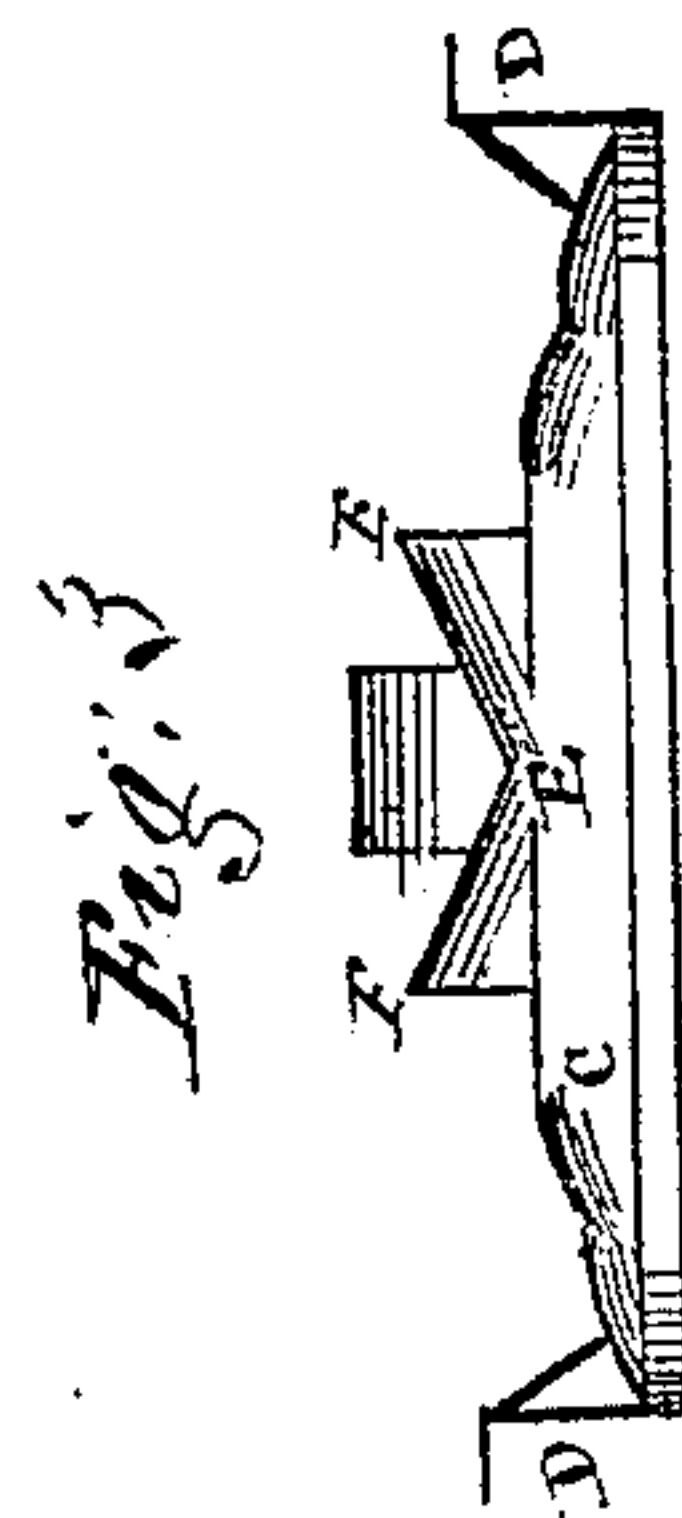
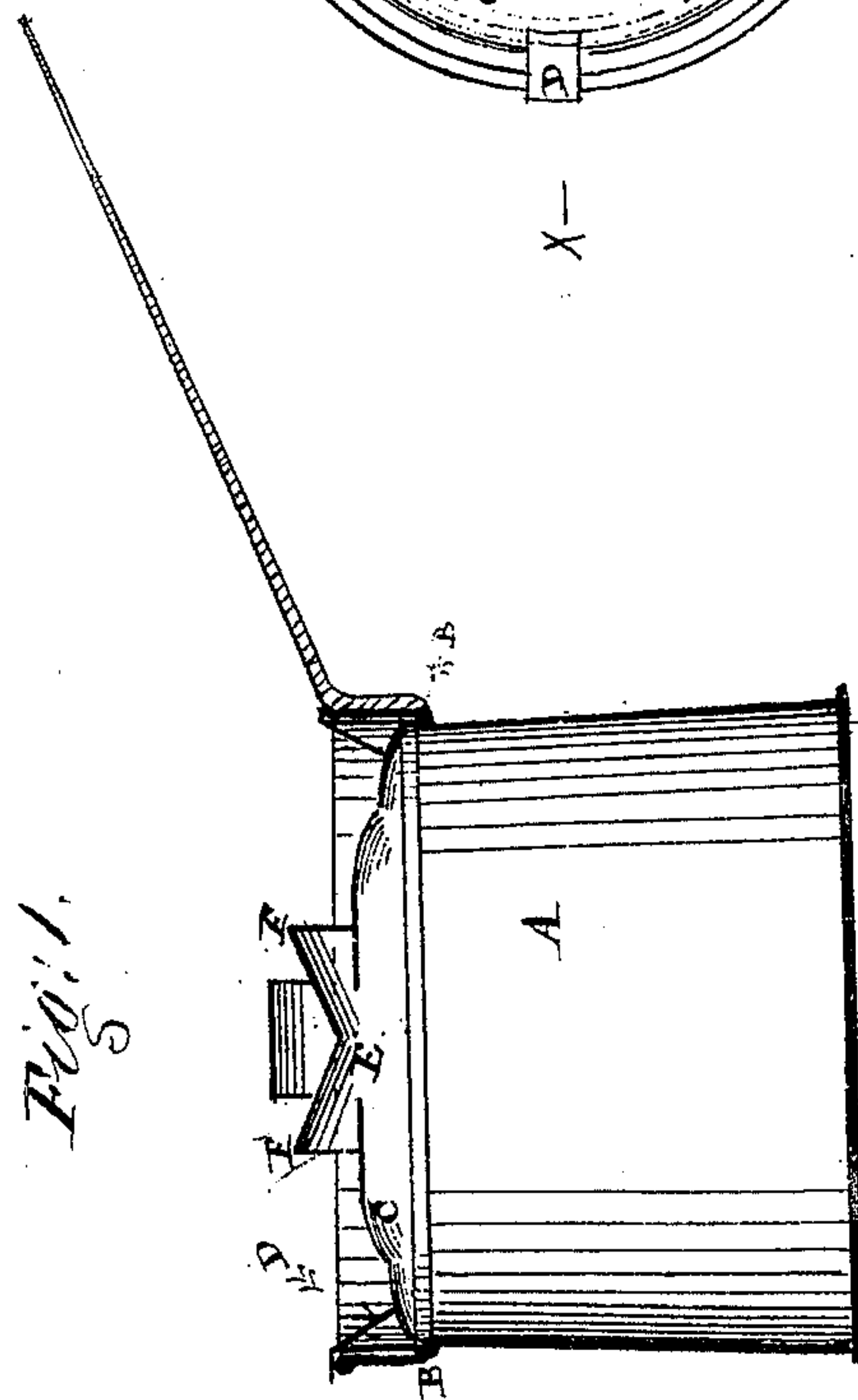
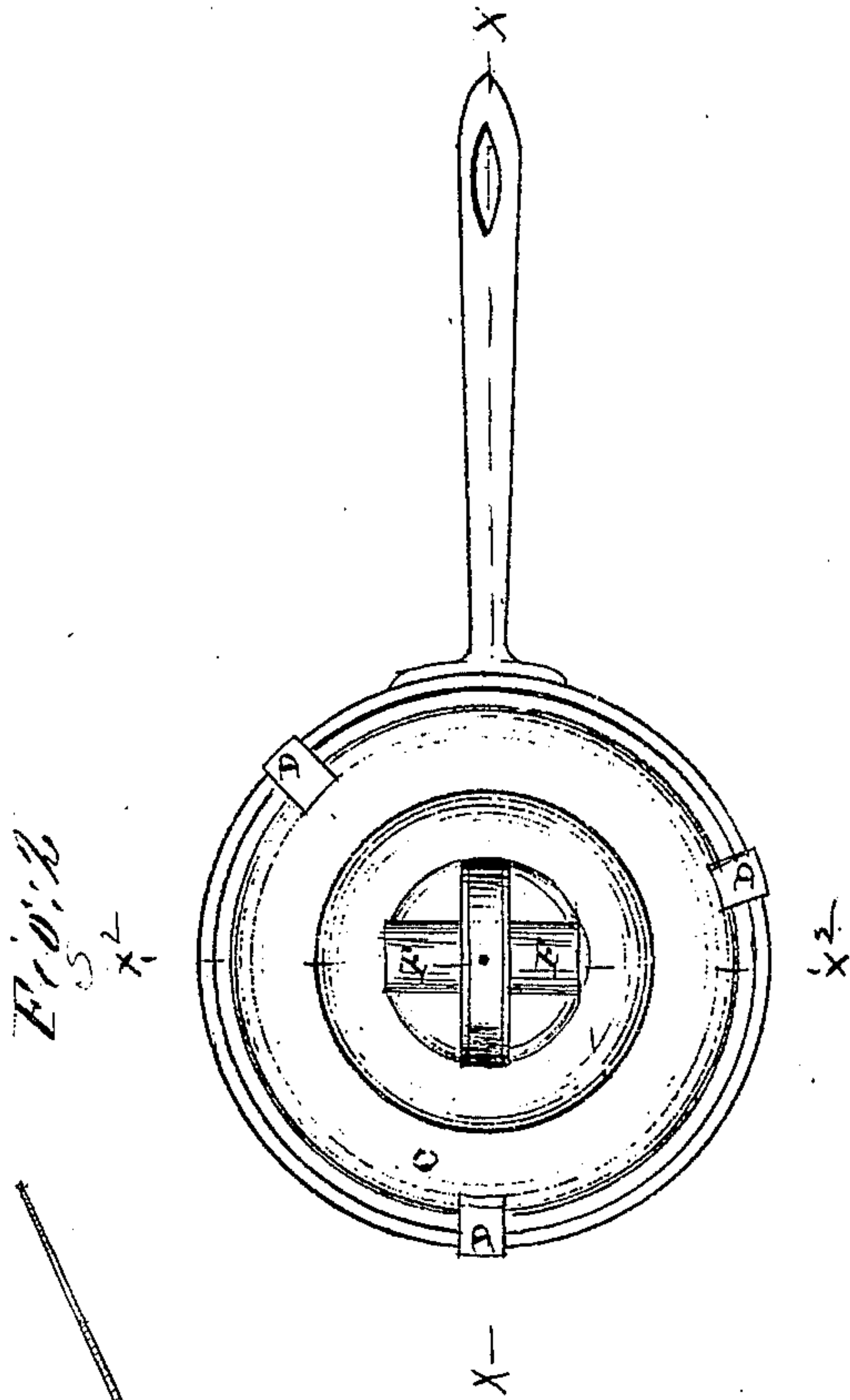


W. B. WATKINS.
BOILER OR STEW PAN.

No. 94,679.

Patented Sept. 7, 1869.



Witnesses
Charles L. Barritt
Franklin Barritt

Inventor
W. B. Watkins

United States Patent Office.

WILLIAM B. WATKINS, OF JERSEY-CITY, NEW JERSEY.

Letters Patent No. 94,679, dated September 7, 1869.

IMPROVEMENT IN BOILERS OR STEW-PANS.

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

To all whom it may concern:

Be it known that I, WILLIAM B. WATKINS, of Jersey City, State of New Jersey, have invented certain new and useful Improvements in Boilers, Sauce, or Stew-Pans, to prevent their contents from boiling over; and I do hereby declare that the following is a full description of the same.

The object of my invention is the same as described in my previous application for a patent for an improved boiler-cover, but as I therein specified certain vent-tubes as the means, in connection with others, whereby I accomplished the object of the invention, and as such tubes may be dispensed with in the precise manner therein used, and thereby technically, perhaps, avoid a patent based upon their use, it has been deemed safest, for obtaining full protection for the invention, to present a claim for the different way of constructing the cover, to carry out the idea embodied in the first application.

The nature of my invention, therefore, consists in making a boiler-cover with a vent-hole (or holes, as may be desired) in it, with an upper covering to the hole, as a shield-plate against scalding the hand, when lifting the cover, and at the same time diverting the overflow of water, through the vent-hole, to the outer edge of the cover. Also, in making the cover so as to fit loosely within and below the upper edge of the boiler, and resting upon a ledge formed in the side of the boiler, or attached thereto, as may be desired.

But to describe my invention more particularly, I will refer to the accompanying drawings, forming a part of this specification, the same letters of reference, wherever they occur, referring to like parts.

Figure 1 is a vertical section of the boiler or stew-pan, through the line $x x$, fig. 2.

Figure 2 is a plan view of the same.

Figure 3 is a detached cut sectional view of the cover, through the line $x^2 x^2$, fig. 2.

Letter A represents an ordinary stew-pan or boiler, having a ledge, B, formed in its sides, a little way below its upper edge, as a means of supporting the cover C, when the hangers D are dispensed with for that purpose.

When the ledge is used, holes or perforations will be formed in the edges of the cover, to allow the water to flow through them, back to the body of the boiler,

but when the hangers are used, the same object is to be accomplished by making the cover of a less diameter than that of the inside of the boiler, and leave a marginal space all around it, for the water to flow back by to the body of the boiler.

To prevent all tendency of the cover rising, in consequence of the pressure of steam underneath, when boiling, it is proposed to use slide-latches, or make the hangers act like clamps against the inside edge of the boiler, and thus keep the cover down in its place below the edge of the boiler, and thus cause the expanding volume of water in the boiler to escape through the vent-hole E in the cover.

This vent-hole is made in the central part of the cover, under the handle, (though it may be subdivided into two or more holes, if desired,) and covered by ashield, F.

The object of this is to shield the hand from getting scalded, if not thus protected, when attempting to take off the cover; also, to deflect the water escaping through the vent-holes toward the edge of the cover, that it may return to the body of the boiler again.

It will be obvious that the edge of the cover must be below the upper edge of the boiler, to have the objects carried out by the invention, to wit, preventing the boiling over of the contents of a boiler, and returning the overflowing water back to the body of the boiler, by the circulation established by the devices combined with the cover.

Having now described my invention, I will proceed to set forth

What I claim, and desire to secure by Letters Patent of the United States—

I claim the combination of the hangers D with a boiler-cover of less area than the area of the boiler, for the purpose of suspending the cover loosely within the boiler, that the overflowing water through the vent-holes E may readily find its way back to the body of water in the boiler, and thus prevent the water running over the edges of the boiler.

W. B. WATKINS.

Witnesses:

FRANKLIN BARRITT,
CHARLES L. BARRITT.