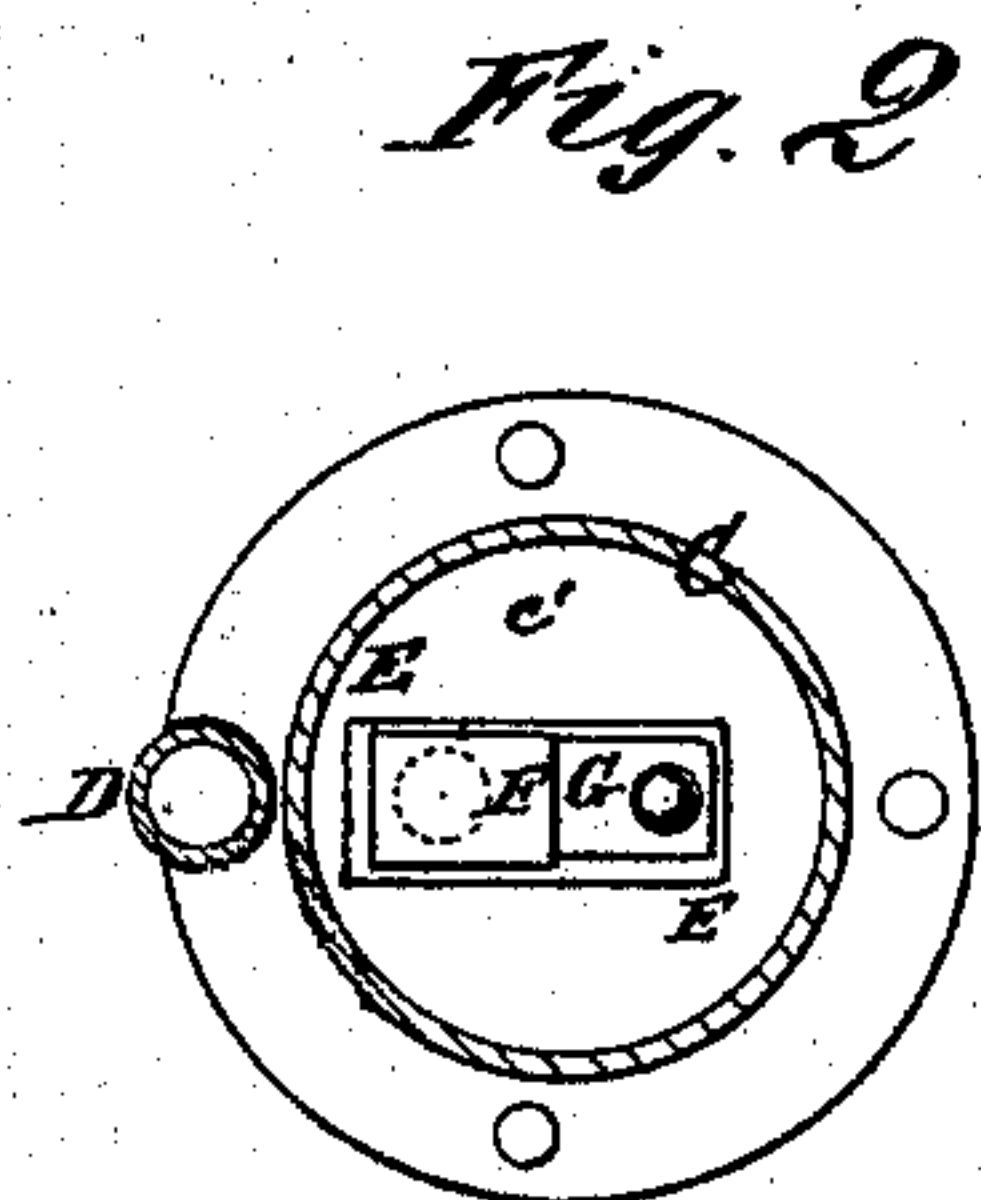
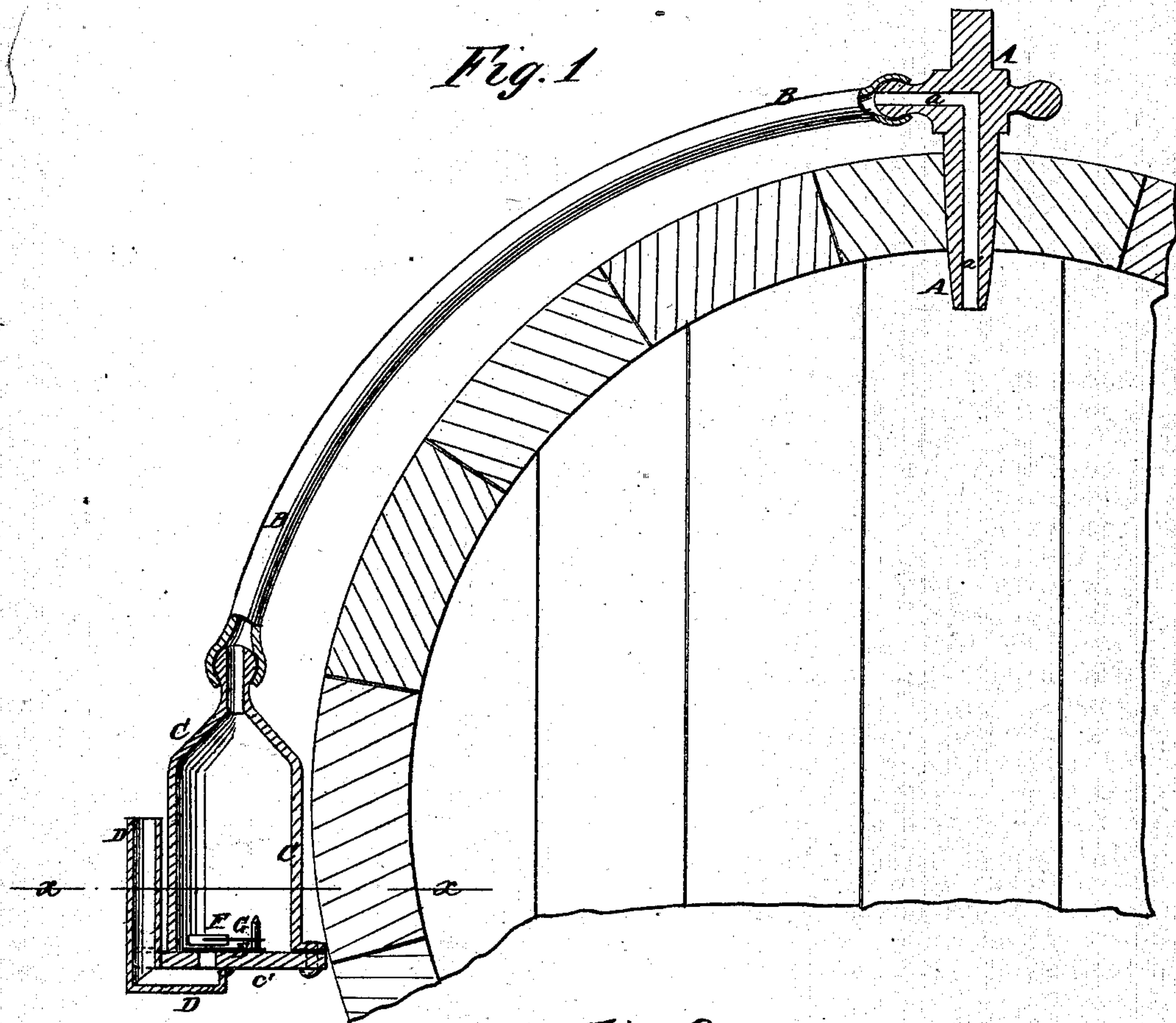


L. WINTERBAUER.
Liquid Sealed Valves.

No. 139,347.

Patented May 27, 1873.



Witnesses:
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UNITED STATES PATENT OFFICE.

LOUIS WINTERBAUER, OF NEW YORK, N. Y.

IMPROVEMENT IN LIQUID-SEALED VALVES.

Specification forming part of Letters Patent No. 139,347, dated May 27, 1873; application filed February 8, 1873.

To all whom it may concern:

Be it known that I, LOUIS WINTERBAUER, of the city, county, and State of New York, have invented a new and useful Improvement in Liquid-Sealed Valve, of which the following is a specification:

Figure 1 is a detail section of my improved valve, shown as applied to a beer-cask. Fig. 2 is a detail horizontal section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention relates to barrels or casks of fermented liquors on draft; and consists in allowing the ingress of air to fill the vacuum made by the withdrawal of liquid while the egress of the gases is prevented, as hereinafter described and pointed out in the claim.

A represents a plug or spigot, which is designed to be driven into a hole in the upper side of the cask or vessel, and which is made with a projection or arm upon each side for convenience in drawing it out when required. *a'* is a channel or passage leading up from the inner end and out through one of the arms of the said plug A, which arm is so formed as to receive the end of a small rubber tube, B. The other end of the tube B is connected with the case C of the valve, which case is made with a detachable bottom, *c'*, which is secured air and water tight to the body of the case C. D is a small tube connected with a hole in the bottom *c'* and extending up to a convenient height along the side of the body of the case C,

and its upper end is left open. The hole in the bottom *c'* of the case C is covered by a small rubber flap, E, which is secured at one end to the bottom *c'*. Upon the rubber flap E, directly over the hole in the bottom *c'*, is placed a weight, F, of zinc or other suitable substance, and which is made exactly flat upon its lower side. The weight F is secured to a rubber flap, G, which is secured to the bottom *c'* by the same pin that secures the flap E to said bottom.

In using the valve the case C is half filled, more or less, with water, or other suitable liquid, so as to closely seal the valve. This construction entirely prevents the escape of gas from the cask or vessel, and at the same time allows the air to pass in freely to take the place of the liquid drawn from the cask. The agitation of the liquid in the valve by the in-rushing air keeps the valve-seat and valve-flaps washed clean so that they will always fit closely and be perfectly tight.

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

The case C *c'* having flap-valve and open tube D, the flexible pipe B, and the hollow plug A, combined and applied to a cask of fermented liquor, substantially as and for the purpose described.

LOUIS WINTERBAUER.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSIER.