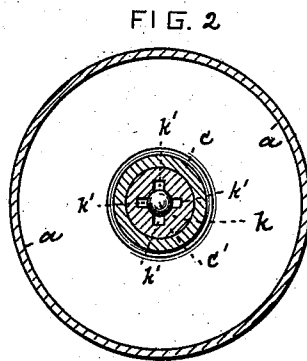
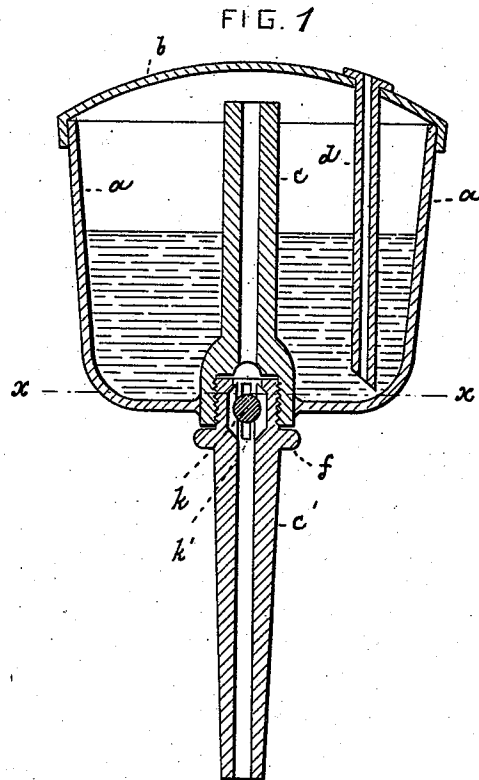


(No Model.)

A. SCHÜTZ & A. WEBER.  
VENT FOR CASKS OR BARRELS.

No. 429,323.

Patented June 3, 1890.



WITNESSES

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*their attorneys*

# UNITED STATES PATENT OFFICE.

ANTON SCHÜTZ AND AUGUST WEBER, OF SOLINGEN, GERMANY.

## VENT FOR CASKS OR BARRELS.

SPECIFICATION forming part of Letters Patent No. 429,323, dated June 3, 1890.

Application filed October 15, 1889. Serial No. 327,097. (No model.)

*To all whom it may concern:*

Be it known that we, ANTON SCHÜTZ and AUGUST WEBER, both of Solingen, Germany, have invented an Improved Vent for Casks and Barrels, of which the following is a specification.

This invention relates to an improved vent for casks and barrels, so constructed that it will exclude air when the barrel is closed, but will admit air when the barrel is drawn from. While admitting the air the vent will, however, exclude most of the impurities carried by the same.

The invention consists in the various features of improvement more fully pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical longitudinal section of our improved vent. Fig. 2 is a cross-section on line *x x*, Fig. 1.

The letter *a* represents a cup having a tightly-closing cover *b* and adapted for the reception of water or any other suitable liquid. Through the lower side of cup *a* there projects into it a tube *c*. This tube is by a screw-joint connected to a second tube *c'*, which extends below the cup, so that it may be driven into the barrel or through the bung-hole, with its flange *f* resting upon the stave or the edge of the bung-hole. The upper end of the tube *c* extends into the cup above the water-level. An additional tube *d* enters the upper side of the cup through the tightly-fitting cover and extends downward below the water-level.

In use the vent closes the barrel air-tight when the latter is not tapped; but when the faucet is opened the partial vacuum created will cause the fresh air to pass through tube *d*, thence through the water seal, and finally through tubes *c c'* into the barrel.

In order to prevent foaming liquids from rising up into the cup *a*, the tube *c'* is provided with an enlargement, which constitutes a seat for a ball-valve *k*. At the lower end this valve-seat has slots *k'*, which admit air into the barrel when the valve is in its normal lowermost position. When the valve is forced up by pressure from the liquid or foam in the barrel, the valve will close communication between the barrel and the cup *a*.

We claim as our invention—

The combination of cup *a* with a tightly-closing cover *b*, a tube *d*, entering the cup from its upper side, a tube *c*, entering it from its lower side, a tube *c'*, connected to tube *c* and provided with a slotted valve-seat, and with a ball-valve *k* within said seat, substantially as specified.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

ANTON SCHÜTZ.  
AUGUST WEBER.

Witnesses:

CARL KRUEGER,  
JOH. HÜGLIN.