

(No Model.)

M. SCHUETZ.

VENT PLUG.

No. 355,033.

Patented Dec. 28, 1886.

Fig. 1.

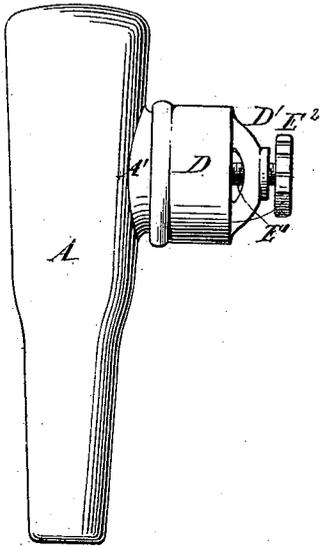


Fig. 2.

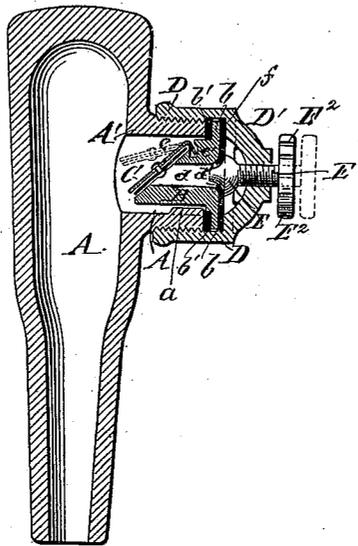


Fig. 3.

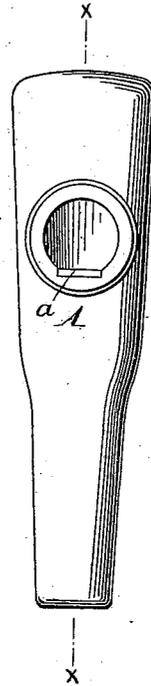


Fig. 5.

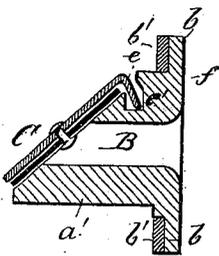


Fig. 4.

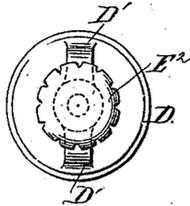
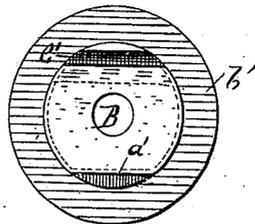


Fig. 6.



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VENT-PLUG.

SPECIFICATION forming part of Letters Patent No. 355,033, dated December 28, 1886.

Application filed April 19, 1886. Serial No. 199,307. (No model.)

To all whom it may concern:

Be it known that I, MAX SCHUETZ, of the city, county, and State of New York, have invented certain new and useful Improvements in Vent-Plugs, of which the following is a specification.

This invention relates to an improved vent-plug for beer and other kegs; and the invention consists of a vent-plug having a laterally-extending tubular valve portion, a plug fitted in said tubular portion and having a central vent-opening, means for retaining said valve portion, and an interior flap-valve that is hinged by a flange to a transverse recess at the upper part of the inclined face of the plug.

The invention consists, secondly, of a vent-plug having a laterally-extending screw-collar, a perforated valve in said portion, a screw-collar for retaining the plug, and an auxiliary screw-valve supported in a yoke of the tubular valve seat, said screw-valve being fitted to a valve-seat of the vent opening, so as to close the vent plug entirely whenever the operation of the same is to be interrupted.

In the accompanying drawings, Figure 1 represents a side elevation of my improved vent-plug. Fig. 2 represents a vertical central section of the same, showing the auxiliary screw-valve in closed position. Fig. 3 is an end elevation of the vent-plug with the valves removed. Fig. 4 is an end view of the auxiliary screw-valve for closing the vent; and Figs. 5 and 6 are respectively a vertical longitudinal section of the valve of the vent-plug and an end view of the valve-plug.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a hollow vent-plug, which is made of suitable cast metal in the usual size and shape, and tapering at the lower part, so as to be driven easily into the vent-bung of the beer or other keg. The upper part of the vent-plug A is made heavier, so as to resist the force of the blows on the same. A tubular valve portion, A', extends laterally at the upper part of the plug A, said tubular portion having a straight guide-piece, a, at the lower part for the flattened lower part, a', of a centrally-perforated valve-plug, B. The plug B is provided with an exterior collar, b, that is tightly fitted by an intermediate packing-ring, b', against the outer

edge of the tubular valve portion A', and retained thereon by a screw-collar, D. The interior part of the valve-plug B has a downwardly-inclined face or seat, and is provided with a flap-valve, C, which is provided with a suitable packing at its under side, so as to close the central vent opening, d, of the valve-plug B. The flap-valve C is hinged to the valve-plug B by a bent flange, e, which flange engages a transverse recess, e', at the upper part of the inner face of the valve-plug B, as shown in Figs. 5 and 6.

The operation of the vent-plug described is the same as that of other vent-plugs in use—that is to say, when the same is driven into a bung of the keg and the liquid drawn off through the faucet, the flap-valve C is lifted by the pressure of the atmosphere so as to admit air to the interior of the keg, while at the moment when the faucet is closed the flap-valve C is tightly pressed by the pressure of the gas in the keg on the inclined seat of the plug B, so as to close the vent-opening d and prevent the escape of the carbonic-acid gas in the keg. The valve-plug B is securely held in position in the tubular portion A' by a ring-shaped collar, D, that is screwed over the exteriorly-threaded tubular valve portion A', and provided with a diametrical bail or yoke, D', at the center of which a screw-nut is formed for the threaded shank E' of an auxiliary valve, E, which fits tightly into the valve-seat d' at the outer end of the vent-opening d of the valve-plug B. The outer end of the shank E' is provided with a milled head, E², by which the valve can be readily adjusted in the yoke D', so as to close or open the vent-opening d, as required. An elastic packing, f, is interposed between the vent-plug B and a shoulder of the collar D, said packing being provided with a central opening equal in size with the vent-opening d. The auxiliary valve E presses, on being closed, on the packing f, so as to produce the hermetical closing of the vent-opening. The auxiliary valve E serves for the purpose of closing the vent-plug A entirely, when it is desired to preserve a portion of the liquid in the keg over night, as thereby the passage of air through the vent-plug to the interior of the keg, as well as the escape of carbonic-acid gas from the same to the outside, is prevented.

When it is desired to draw from the keg,

the auxiliary valve E has to be opened by turning the same, upon which the valve of the vent-plug performs its function in the usual manner.

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

1. The combination, with a vent-plug having a laterally-extending tubular valve portion provided with a flat guide portion, of a centrally-perforated valve-plug fitted into said tubular portion and provided with a flattened portion, an inclined inner face and a transverse recess above said face, means for retaining said valve-plug in position, and a flap-valve having a bent flange extending into said transverse recess, substantially as set forth.

2. The combination of a vent-plug having a tubular valve portion, a valved plug having a central vent-opening, a collar screwed on the tubular valve portion and provided with a yoke, and an auxiliary valve fitted into a seat of said vent-opening and adjustable in said yoke, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

MAX SCHUETZ.

Witnesses:

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