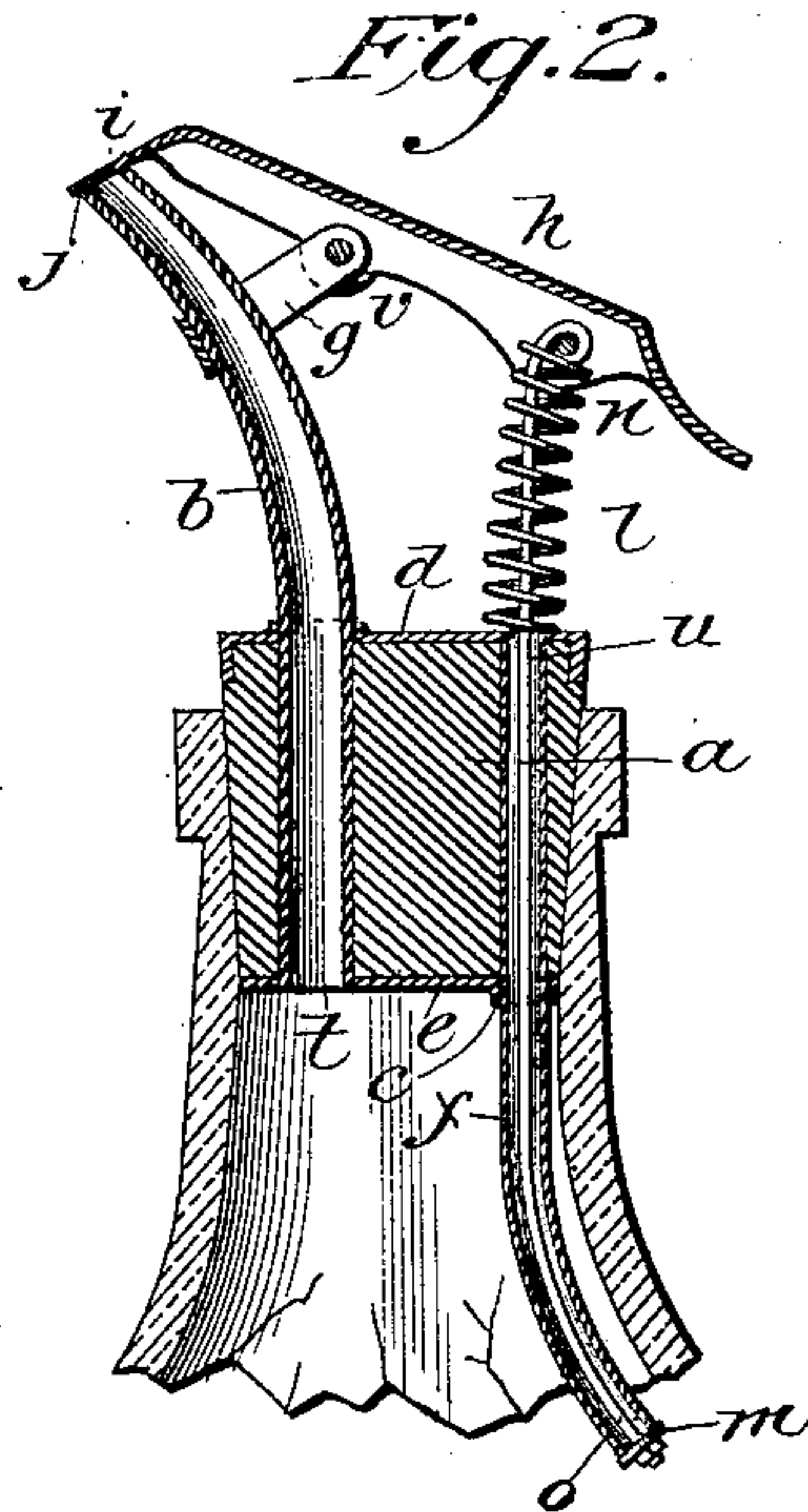
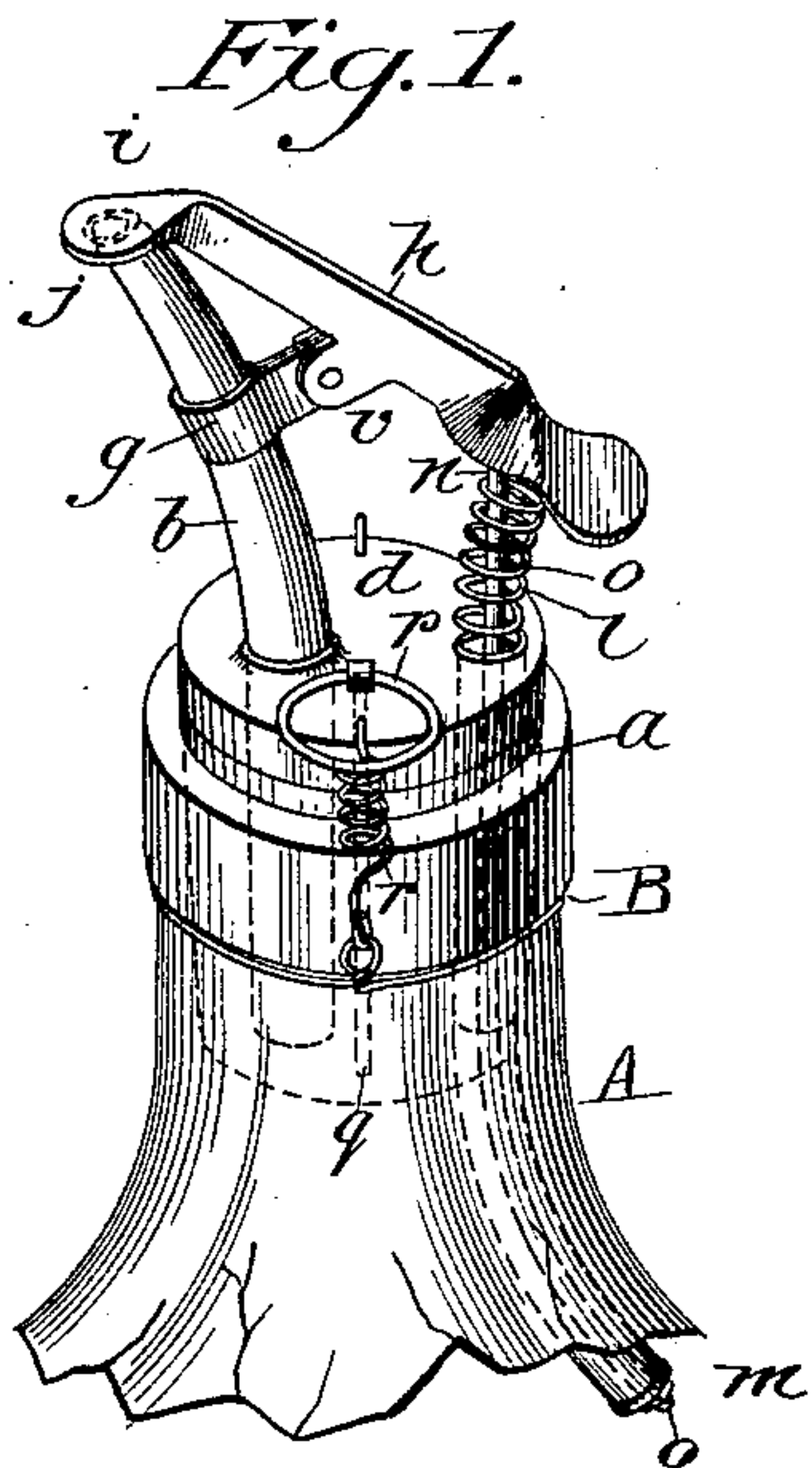


(No Model.)

E. HEYER.  
VALVED BOTTLE STOPPER.

No. 434,782.

Patented Aug. 19, 1890.



*Witnesses.*

*Geo. A. Mackie*  
*J. N. McDonald*

*Inventor.*

*Ernst Heyer.*

# UNITED STATES PATENT OFFICE.

ERNST HEYER, OF SCAMMONVILLE, KANSAS.

## VALVED BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 434,782, dated August 19, 1890.

Application filed April 12, 1890. Serial No. 347,715. (No model.)

### *To all whom it may concern:*

Be it known that I, ERNST HEYER, a citizen of the United States, residing at Scammonville, in the county of Cherokee and State of Kansas, have invented certain new and useful Improvements in Draft Stoppers and Nozzles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to improvements in draft nozzles and stoppers or covers for cans, bottles, and the like, and the novelty will be fully understood from the following description and claim, when taken in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of the upper portion of a can or bottle with my improvements applied. Fig. 2 is a vertical sectional view of the same.

Referring by letter to the said drawings, A indicates a portion of a can or bottle, which may be of any ordinary or approved form, carrying around its neck a wire or band B, for a purpose which will be presently explained.

*a* indicates the cork or stopper, which is preferably made of rubber, although it may be of other suitable material. This stopper is provided at its bottom with a metallic plate *e* and at its top with a similar plate *d*, which has a depending flange seated in a recess of the stopper *a*.

*b* indicates the draft-tube, which may be of the form usually employed. This tube passes through the stopper *a*, and may be fixed at its lower end to the lower plate *e*, so as to communicate with the interior of the vessel or receptacle.

*f* indicates a vent-tube, which also passes through the stopper *a* and has its lower end curved, as shown, and extending a sufficient distance into the can A. This vent-tube, which is arranged, preferably, at a diametrical point from the draft-tube, extends into the receptacle or can at such a point that when said can has been tilted to pour from its draft-tube the lower end of the vent-tube will assume a position above the liquid to be drawn. The vent-tube *f* may be secured at its upper

end to the upper plate *d*, and a shoulder or washer *c* employed below the plate *e* to fix said tube in position.

*g* indicates a yoke or arm clamped at a suitable point on the draft-tube, and its outer end has fulcrumed to it a thumb-lever *h*. The thumb-lever *h*, which is of a form substantially as shown, has its outer end bent, as at *j*, so as to snugly cover the discharge end of the draft-tube *b*. This thumb-lever is normally held covering the draft-tube by means of a spring *l*, which has its lower bearing upon the stopper and its upper bearing against the inner under side of said lever. The lever is preferably provided with lug-journals, and a pin employed to hinge or fulcrum the lever on the clamp *g*.

*O* indicates a valve-rod, which is shaped to correspond with the curvature of the vent-tube and passes through the same, as shown. This rod is connected at its upper end with the inner end of the lever *h* and passes through the spring *O*; and also the vent-tube is provided at its lower end with plug or valve *M*, designed to normally close the lower end of the vent-tube.

*P* indicates a pull-ring, which is secured to a rod. (Better shown in dotted lines on Fig. 1 of the drawings.) This rod passes through the stopper and is secured at its lower end to the lower plate *e*, the ring being upon the plate *d* to afford a convenient means for drawing the cork or stopper.

*r* indicates a connection, which is here shown as a spring, for connecting the stopper with the bottle or can to which it is to be applied. This spring has its lower end secured to the neck-band B, and its upper end is adapted to be secured to the stopper by means of a hook or otherwise.

In operation when it is desired to draw from the bottle or cask containing liquid, the user grasping the bottle places his thumb upon the inner end of the lever *h*, thus depressing the spring and opening the vent-tube, and at the same time uncovering the draft-tube, and as the vessel is tilted to pour from air will be freely admitted into the vessel, and the draft may be momentarily shut off by the operator simply releasing his thumb from the lever.

A device of this character is of great im-



portance to miners and others in filling lamps, as it requires little or no care in drawing the oil, and a lamp might be filled without any waste whatever, the corks being protected  
5 from destruction by rats and the like.

Having described my invention, what I claim is—

The combination, with the bottle-stopper having the upper and lower plates *d* and *e*, of  
10 the vent-tube *f*, extending down through the cork from the upper plate, the draft-tube *b*, extending up through the cork from the lower plate, the thumb-lever *h*, having its forward

end *i* adapted to close the draft-tube and fulcrumed on said tube, the rod *o*, passing through  
15 the vent-tube, with its upper end secured to the thumb-lever carrying the valve *m*, and the spring *l*, surrounding the rod carrying the valve and bearing at its lower end upon the  
20 cork and its upper end bearing against the under side of the thumb-lever, as shown, all adapted to operate substantially as specified.

ERNST HEYER.

Witnesses:

GEO. R. MACKIE,  
J. N. McDONALD.