

June 19, 1923.

1,459,704

G. W. BENNETT
GAS VENT FOR CONTAINERS

Filed Aug. 2, 1922

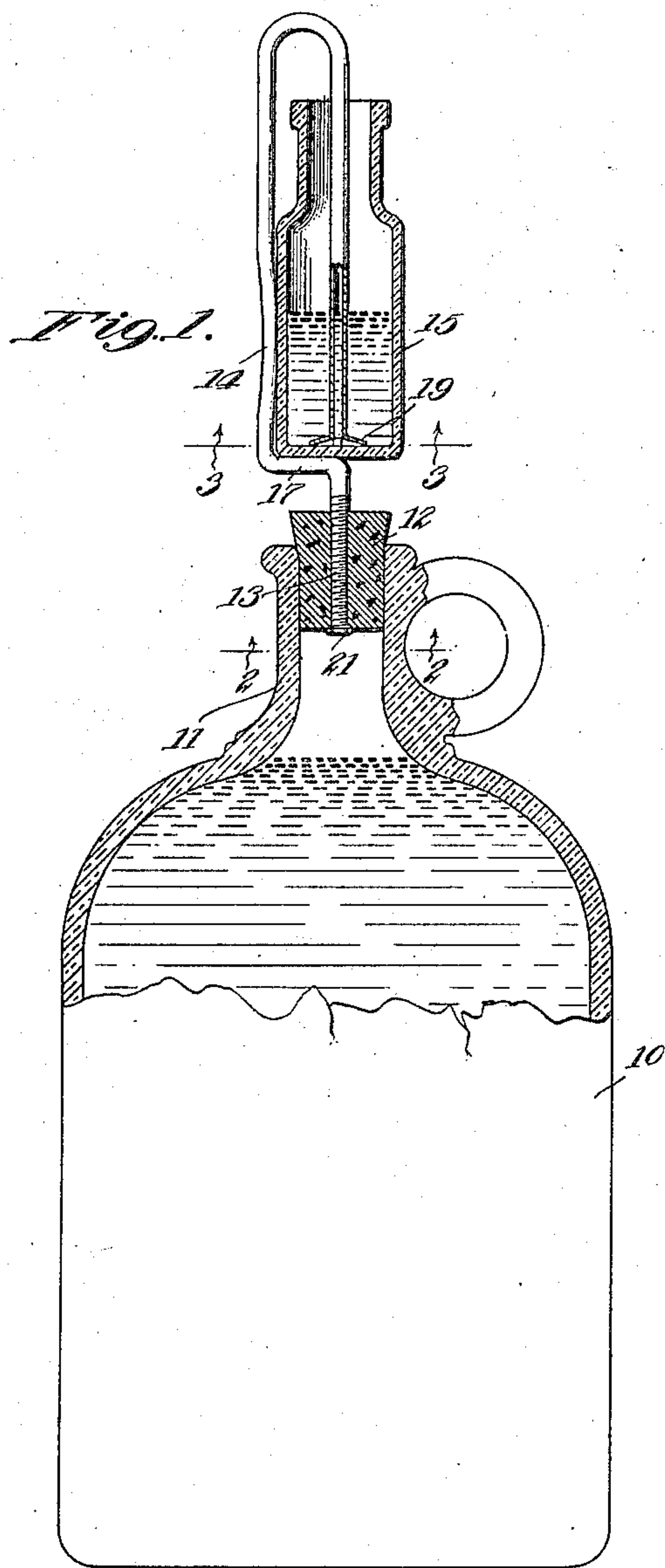


Fig. 2.

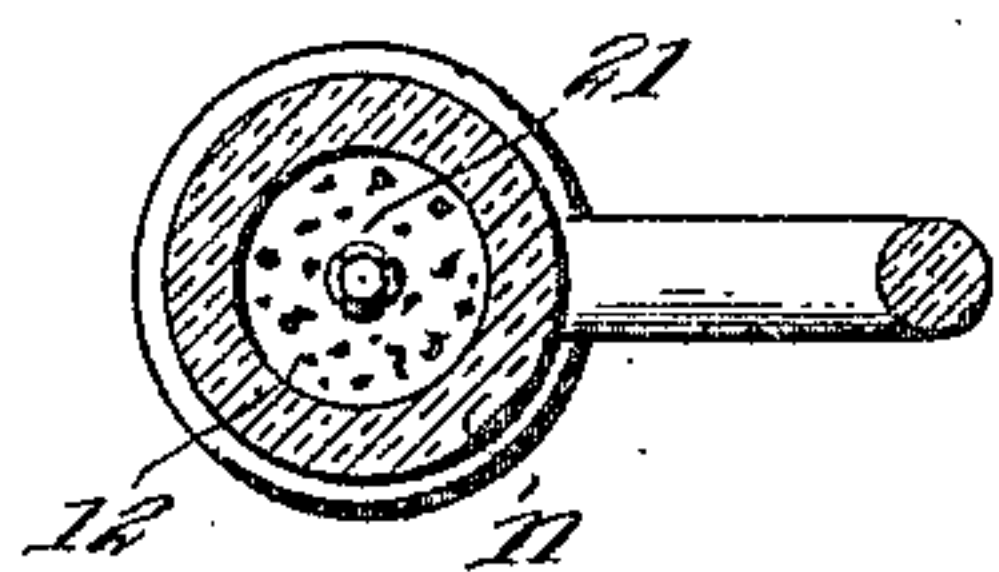


Fig. 3.

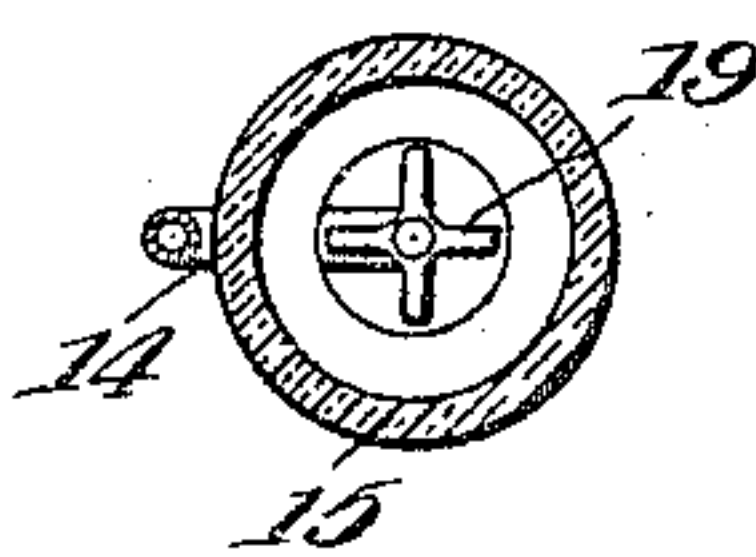
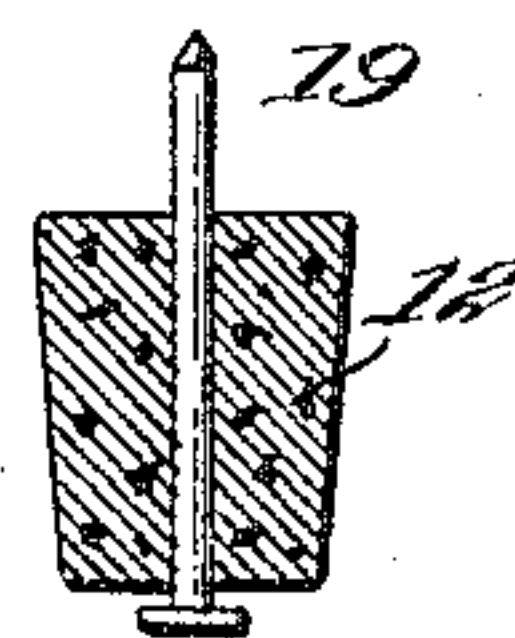


Fig. 4.



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WITNESS:

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UNITED STATES PATENT OFFICE.

GEORGE W. BENNETT, OF CINCINNATI, OHIO.

GAS VENT FOR CONTAINERS.

Application filed August 2, 1922. Serial No. 579,219.

To all whom it may concern:

Be it known that I, GEORGE W. BENNETT, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Gas Vents for Containers, of which the following is a specification.

The object of this invention is to provide means for preventing the admission of air to a container, at the same time permitting gas which may be formed therein to escape.

A further object is to provide a stopper with a tubular element extending there-through and extending into a smaller open mouthed receptacle, to a point below the water line thereof, so that gas may escape from the container, without admitting air. With the foregoing and other objects in view, the invention consists in the novel construction and arrangement of elements, described, illustrated and claimed, it being understood that modifications may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings, Figure 1 is a view, chiefly in vertical section, showing the device as applied to a liquid container; Figures 2 and 3 are sections on the lines 2—2 and 3—3, respectively, of Figure 1; Figure 4 is a vertical section through the cork, showing a device to be inserted therein prior to the insertion of the vent tube, and then removed.

The container 10 includes a neck portion 11 into which is fitted a stopper, or cork, designated 12. This stopper is apertured longitudinally, and the threaded end 13 of a tube 14 is screwed into the stopper, and makes airtight connection therewith, the stopper of course making airtight connection with the neck portion of the container.

A smaller receptacle 15 or bottle is designed to contain water, in order to provide a water seal, and the tube 14 extends into the bottle and to a point near the bottom portion thereof.

The tube 14 may be curved as shown, in order that it will of itself form a clamp or supporting device for the bottle, engagement being effected at the points shown,—

that is along the outer side, and below the bottom, an offset 17 being formed in the tube and constituting a bottle rest.

It is obvious that the attachment described may be removed when removing the stopper, and that gas which may be formed within the container will escape through tube 14, but air will not be admitted to the container 10, because of the water seal. Means may be provided for preventing the tube from becoming obstructed.

I prefer to force a headed pin or nail 19 through the cork from the lower end, and insert the lower toothed end 21 of the tube over the projecting point of the pin and screw it down, until entirely through the cork. The pin is then removed, and the inserted tube is free from obstruction. The end of the tube within bottle 15 may be split and outwardly deflected as shown.

What is claimed is:

1. In a device of the class described, a container, a stopper therefor, a tubular element extending through the stopper, a receptacle for containing liquid, the tube extending into said receptacle to a point below the liquid level therein, and said tube being deflected to form receptacle retaining means.

2. In a device of the class described, a stopper for a container, a receptacle for containing a liquid to provide a liquid seal, a tube extending into the receptacle to a point below the liquid level therein, and extending downwardly along the outer wall of the receptacle and through the stopper, said tube being offset, and the offset portion being located beneath the bottom of the receptacle.

3. In a device of the class described, a container, a stopper therefor, a receptacle to be mounted above the container, a tubular clamping element for mounting the receptacle, said element extending into the receptacle to a point near the bottom thereof, and an offset portion formed in the tubular element at a point for engaging and supporting the bottom of the receptacle when the neck portion is engaged by the clamp.

In testimony whereof I affix my signature.

GEORGE W. BENNETT.