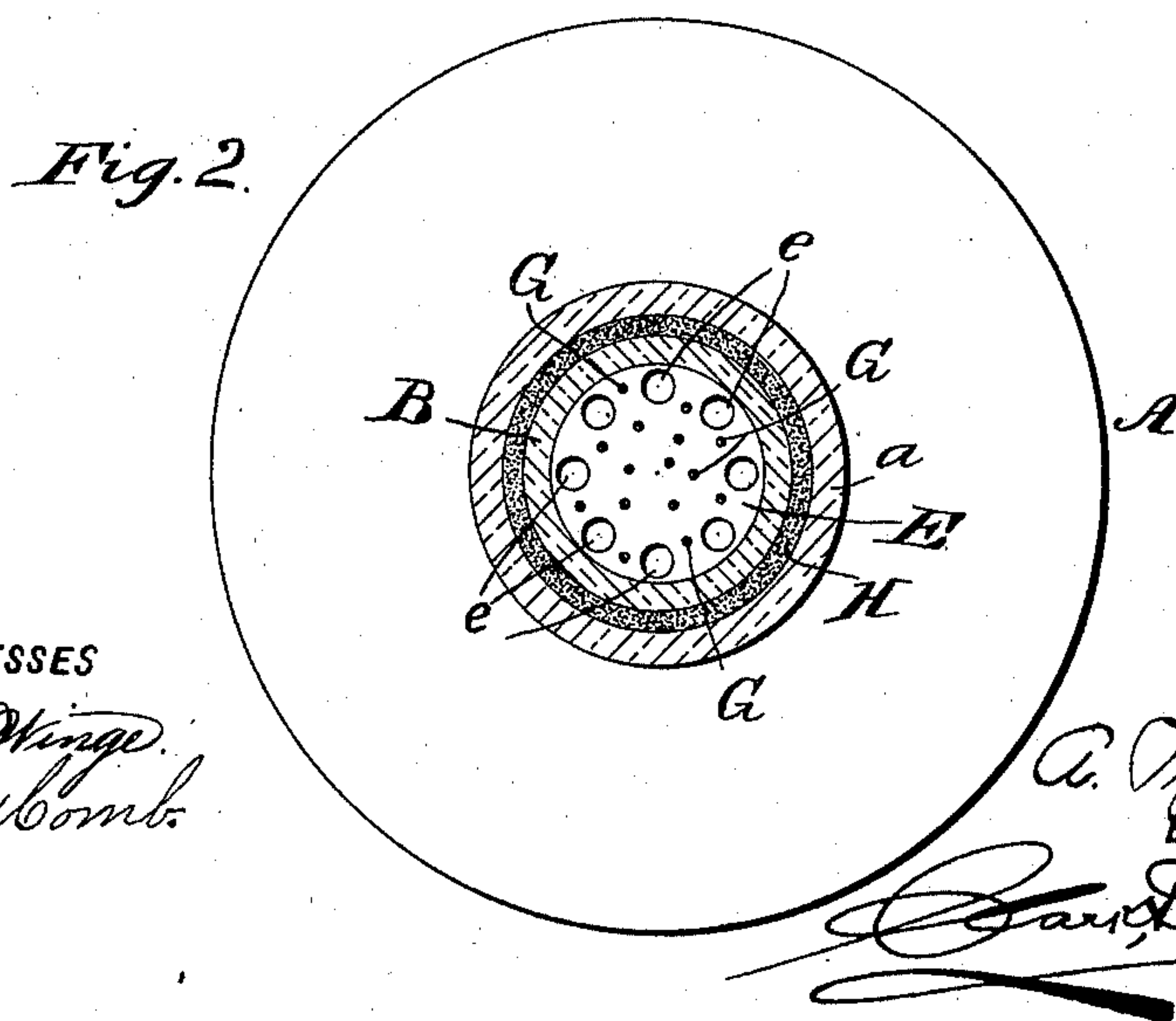
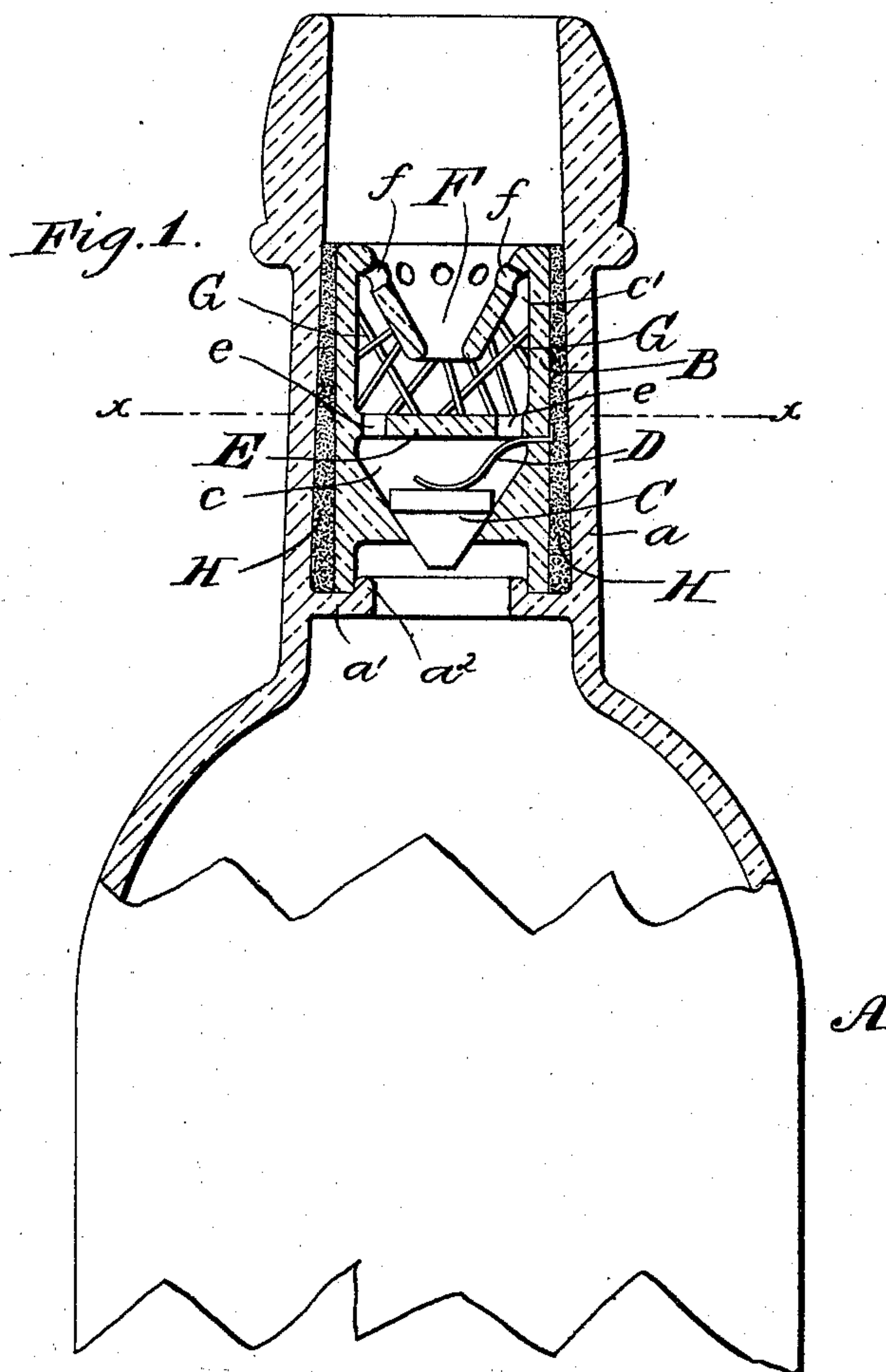


(No Model.)

A. MAZZANOVICH.
BOTTLE.

No. 604,120.

Patented May 17, 1898.



WITNESSES

O. C. Winge.
P. M. Comb.

INVENTOR

A. Mazzanovich.

BY

Garrett & Deemert & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

ANTON MAZZANOVICH, OF NEW YORK, N. Y.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 604,120, dated May 17, 1898.

Application filed July 2, 1897. Serial No. 643,185. (No model.)

To all whom it may concern:

Be it known that I, ANTON MAZZANOVICH, a citizen of the United States, and a resident of New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Bottles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to improvements in bottles and means for closing them, the object thereof being to prevent the reuse and refilling of the bottle after it is emptied of its original contents, whereby certain frauds now practiced upon manufacturers of proprietary compounds and the public can be prevented.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical elevation of the upper portion of my improved bottle, illustrating a part thereof broken away in cross-section; and Fig. 2 is a sectional plan view taken on the line $x x$ of Fig. 1.

In the practice of my invention I form within the neck a of the bottle A an annular shelf a' , having a flange a^2 extended upwardly from the inner edge thereof. This said shelf is adapted to support the bottle-closing mechanism, which comprises a glass cylinder B and a valve C for normally closing the cylinder. This said valve is seated within a conical recess c in the cylinder B, and it is maintained in its closed position by means of a light plate-spring D. This spring is preferably composed of whalebone or other non-corrosive material and the valve C is composed of cork.

Located above the recess c within the cylinder B is a partition E, having apertures e leading therethrough for fluid-outlet from the bottle.

The upper edge of the cylinder C has a funnel F projected inwardly and downwardly therefrom, the lower end thereof being opened and the wall thereof being pierced by a series of apertures f , adapted for discharging fluid from the bottle.

The recess c' , located between the funnel F and the partition E, is filled up with a network of fine glass threads or strips G, adapted to prevent tampering with the valve C by means of a wire instrument.

In the use of the device the bottle is first filled to any desired height and the cylinder is then placed within the neck thereof, its lower edge resting upon the shelf a . The space between the cylinder and the inner wall of the surface of the neck is then filled in with Portland or other cement H, and the same is allowed to harden until the cylinder becomes practically integral with the neck of the bottle. The space above the cylinder may then be closed by means of any suitable removable cork or stopper.

To discharge the bottle, it is simply necessary to invert it in the ordinary way, and the pressure and weight of the liquid against the valve C will unseat the same and allow the liquid to flow into the recess c , thence through the apertures d into the recess c' , and out through the apertures f to the outer end of the neck of the bottle, from whence it is discharged into any suitable vessel.

Having emptied the bottle, it is obvious that it will be impossible to refill the same without removing the cylinder B and its connected parts, and owing to the fact that said cylinder is composed entirely of glass it will not be possible to remove the same without breaking it and thus effacing the distinctive characteristics of the bottle.

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

1. In a bottle, the combination of an annular flanged shelf formed in the neck thereof and a cylindrical casing resting upon said shelf and tightly secured within the neck, a network of glass in the casing, said casing having the inlet thereto normally closed by means of a spring-pressed cork valve and having the outlet therefrom partly closed by means of a downwardly-extended funnel, said funnel having perforations leading therethrough for discharge of fluid from the cylinder, substantially as shown and described.

2. In a bottle-closing device, the combination of a cylindrical casing having two recesses therein which are separated by means

of a perforated partition, the lower recess being normally closed by means of a spring-pressed cork valve and the upper recess being partly closed by means of a perforated
5 funnel, this latter recess containing a network of fine glass, all parts of the cylinder being formed integrally with each other, and a bottle having an annular shelf in the neck thereof for engagement with the said cylinder,
10 der, and means for securing the cylinder to

the neck, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 30th day of June, 15 1897.

ANTON MAZZANOVICH.

Witnesses:

C. SEDGWICK,
B. McCOMB.