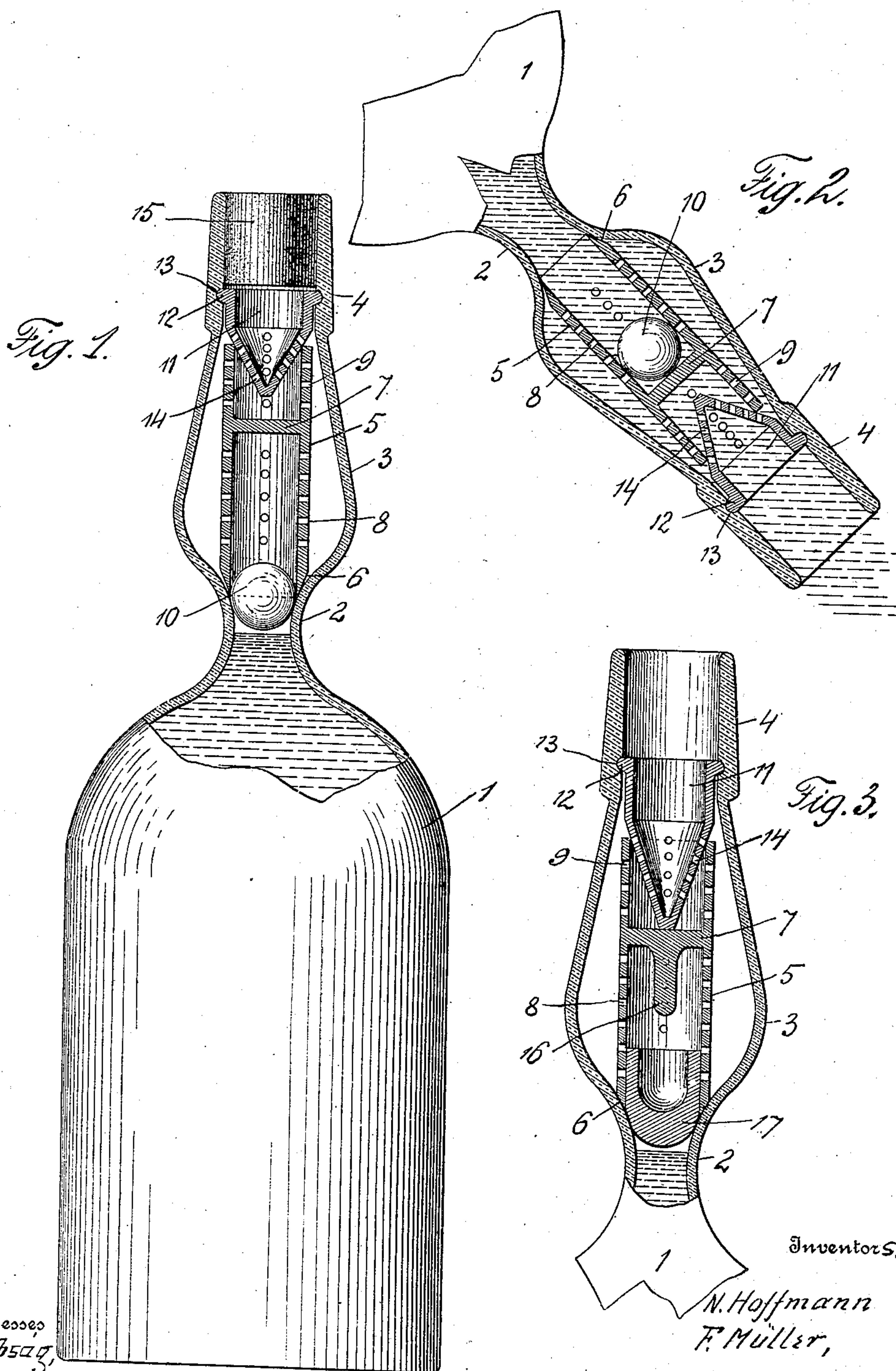


No. 886,807.

PATENTED MAY 5, 1908.

N. HOFFMANN & F. MÜLLER.
BOTTLE.

APPLICATION FILED JAN. 16, 1908.



Witnesses
A. H. Rabson,

A. S. Butler

By

Inventors:

N. Hoffmann
F. Müller,

H. E. Everitt

Attorneys

UNITED STATES PATENT OFFICE.

NICOLAS HOFFMANN AND FRANK MÜLLER, OF PITTSBURG, PENNSYLVANIA.

BOTTLE.

No. 886,807.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed January 16, 1908. Serial No. 411,079.

To all whom it may concern:

Be it known that we, NICOLAS HOFFMANN and FRANK MÜLLER, subjects of the King of Hungary, residing at East Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bottles, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to bottles, and similar receptacles, and the primary object of our invention is, to provide novel means for preventing the refilling of a bottle.

A further object of our invention is to break up the nefarious practice of persons fraudulently refilling bottles that have contained popular brands of merchandise, and then disposing of the same as the original goods.

With the above and other objects in view which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described, and then specifically pointed out in the appended claims.

In the drawings:—Figure 1 is a vertical sectional view showing a part of the body of the bottle in elevation, the valve being shown in the closed position. Fig. 2 is a sectional view of a portion of our bottle illustrating the same in a tilted or open position, and Fig. 3 is a sectional view of a portion of a bottle illustrating a modification of our invention.

In the accompanying drawings, 1 designates a bottle having a neck 2, which is bulged or flared, as at 3, this bulged or flared portion of the neck terminating in a stopper collar 4.

Mounted in the flared portion 3 of the bottle neck is a tube 5 having a tapering end 6 fitting in the neck 2. This tube is provided with a transverse partition 7, with perforations 8 below said partition and perforations 9 above said partition. In the tube 5 below the partition 7 is located a spherical body or closure 10 adapted to close the neck 2, when the bottle 1 is in an upright position. The tube 5 is retained in the flared portion 3 of the bottle neck by a metallic inverted cone-shaped member 11 having a peripheral rib 12 adapted to engage in an annular groove 13 provided therefor in the stopper collar 4. The member 11 is perforated as at 14, and is adapted to protrude into the upper end of

the tube 5 and retain the same centrally of the flared portion 3 of the bottle neck.

An ordinary cork stopper 15 can be used to close the upper end of the bottle, this cork stopper fitting in the collar 4. When the cork stopper 15 is withdrawn and the bottle inverted, the spherical body or closure 10 moves downwardly in the tube 5 and is supported in said tube by the partition 7. The contents of the bottle then passes through the neck 2, perforations 8 into the flared portion 3 of the bottle neck, then through the perforations 9, perforations 14 into the member 11 and out through the collar 4.

In Fig. 3 of the drawings, we have illustrated a slight modification of our invention, wherein the partition 7 of the tube 5 is provided with a depending pin 16, and said tube is provided with a cup-shaped closure 17, this closure fitting over the pin 16 when the bottle is inverted. The member 11 is prolonged whereby the same will engage the partition 7 besides the upper edges of the tube 5.

The tube 5, member 11 and closure 10 are preferably constructed of metal and the member 11 is made of resilient metal whereby it can be sprung into position by the aid of a suitable instrument.

It is thought that our invention will be fully understood from the foregoing description, taken in connection with the drawings, and we reserve the right to make such structural changes as are permissible by the appended claims.

Having now described our invention what we claim as new, is:—

1. The combination with a bottle having a flared or bulged neck, of a perforated tube mounted in the neck of said bottle, a transverse partition arranged in said tube, a closure mounted in said tube beneath said partition and adapted to normally close the neck of said bottle, an inverted cone-shaped perforated member fixed in said neck for holding the upper end of said tube, and a stopper closing the upper end of said neck, substantially as described.

2. The combination with a bottle having a flared or bulged neck, of a tube mounted in said neck and having a partition intermediate its ends, the said tube having perforations above and below said partition, a closure movable in the tube below said partition, and adapted to normally close the neck of said bottle, and an inverted cone-shaped

member fixed in the bottle neck and extending into the upper end of said tube for holding the latter in position.

3. A bottle of the kind described, comprising a neck portion bulged intermediate its ends, a perforated tube mounted in the bulged portion of the neck, a closure mounted within said tube to move therein and normally close the neck of the bottle, means for limiting the movement of the closure in the tube, and a perforated inverted cone-shaped member mounted in the bottle neck and extending into the upper end of said tube for holding the latter in position in the bottle neck.

4. A bottle of the kind described comprising a neck bulged intermediate its ends, a perforated tube mounted in the bulged por-

tion of the neck and having a tapered lower end resting on the inner walls of the bottle neck, a closure mounted for movement in the tube and adapted to normally close the bottle neck; means arranged intermediate the ends of the perforated tube for limiting the movement of said closure; and a perforated inverted cone-shaped member fixed in the bottle neck near its upper end and extending into the upper end of the tube for holding the latter in position in the bottle neck.

In testimony whereof we affix our signatures in the presence of two witnesses.

NICOLAS HOFFMANN.
FRANK MÜLLER.

Witnesses:

A. H. RABSIUG,
MAX H. SROLOVITZ.