

(No Model.)

J. P. REDDING, Jr.
BOTTLE.

No. 599,916.

Patented Mar. 1, 1898.

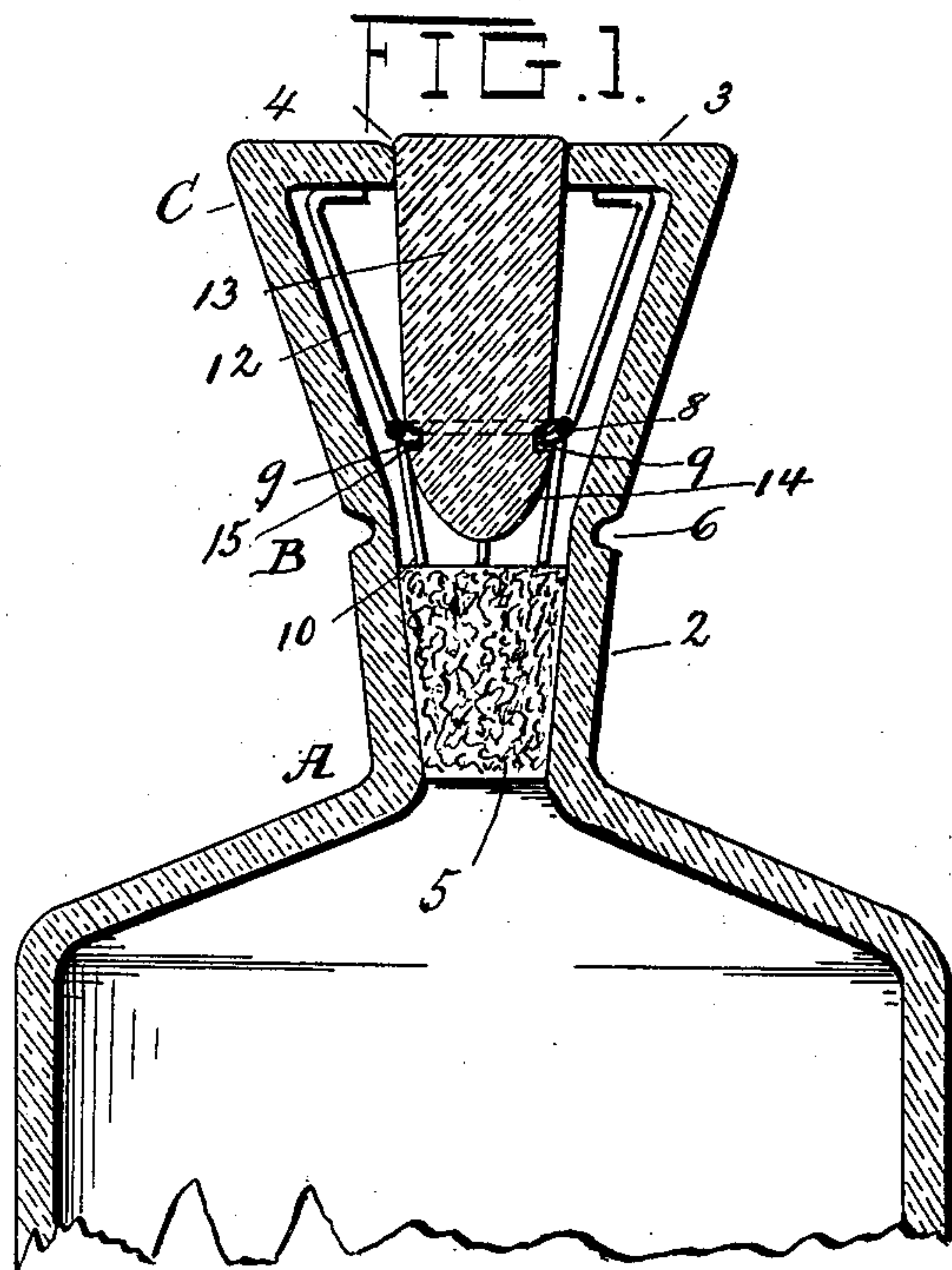


FIG. 2.

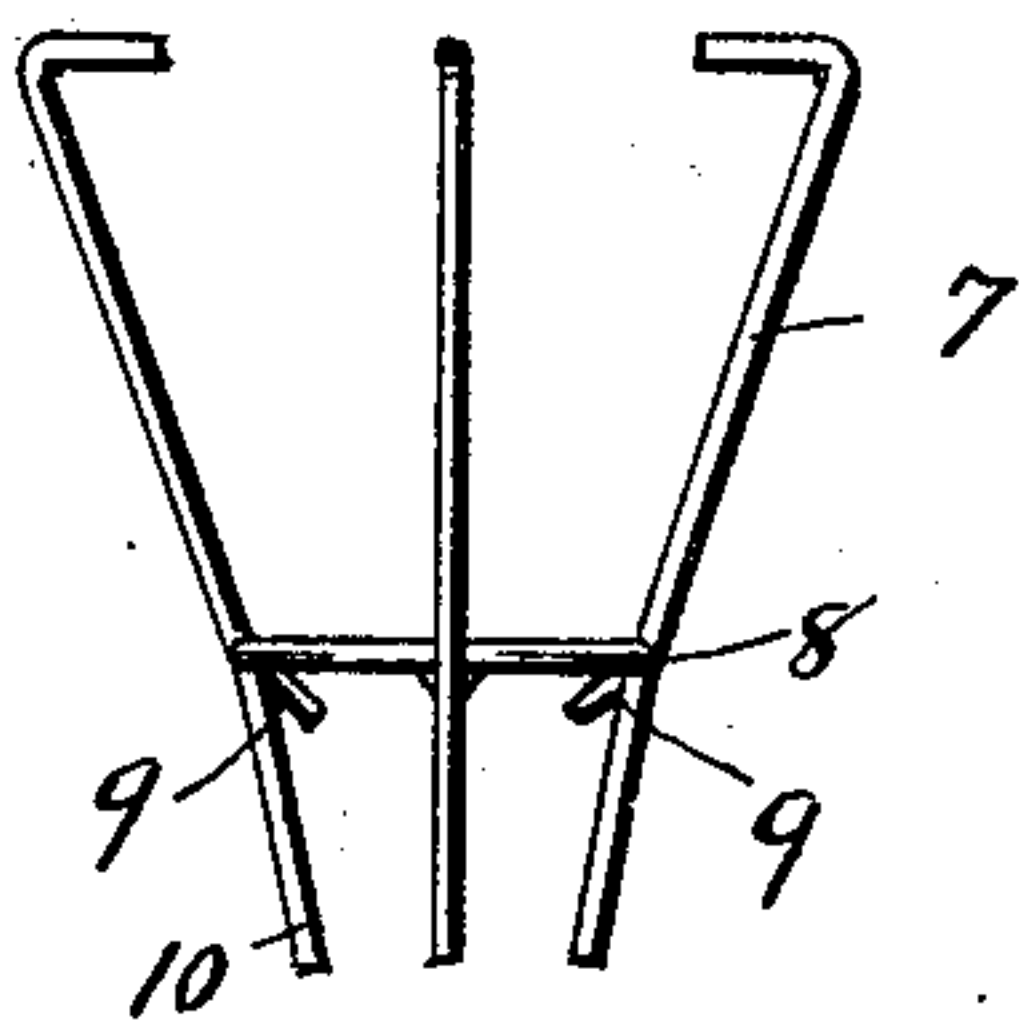
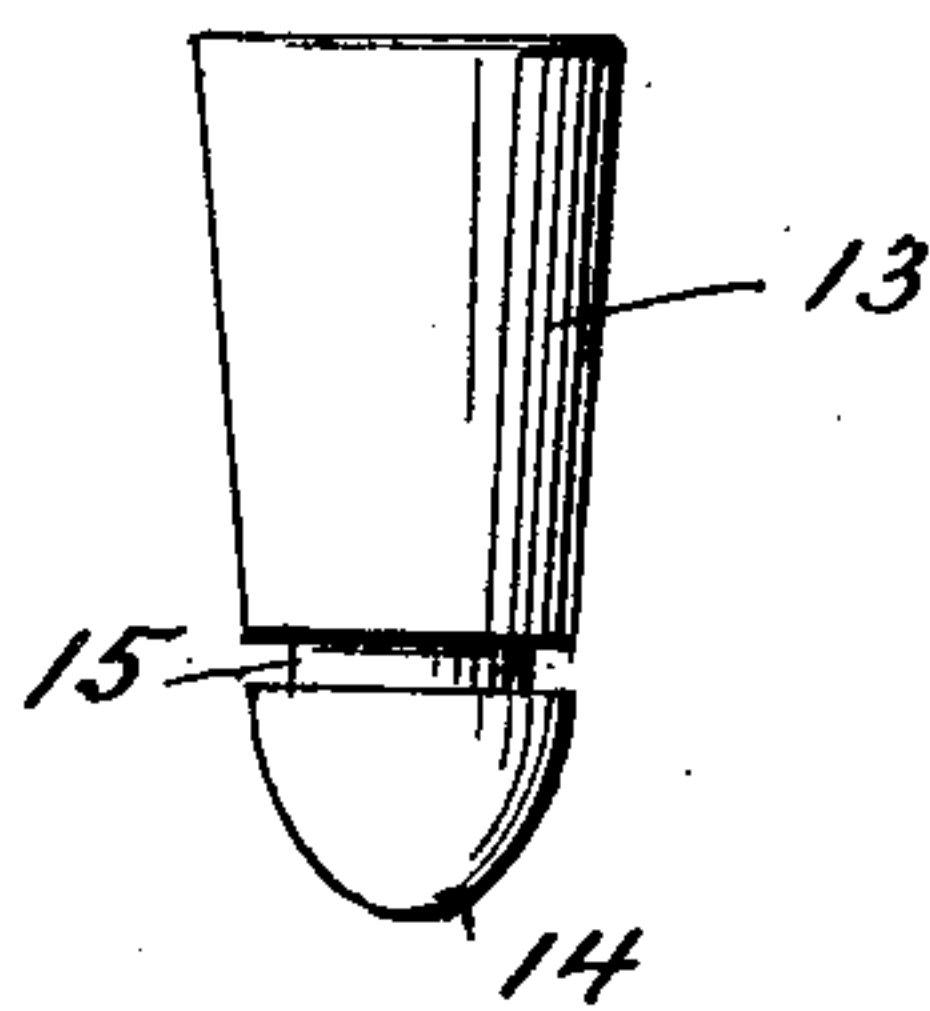


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES P. REDDING, JR., OF CHERRY LAKE, FLORIDA.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 599,916, dated March 1, 1898.

Application filed May 15, 1897. Serial No. 636,828. (No model.)

To all whom it may concern:

Be it known that I, JAMES P. REDDING, Jr., a citizen of the United States, residing at Cherry Lake, in the county of Madison and State of Florida, have invented certain new and useful Improvements in Non-Refillable Bottles; 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.

My invention has relation to a non-refillable bottle; and the object is to provide simple and effective means for preventing the surreptitious removal of the cork from the bottle to gain access to its contents and refill it with an inferior article without detection.

With this object in view the invention consists, primarily, in constructing a bottle-neck with an enlarged end to form stop-flanges and in the application of a peculiarly-constructed fastening for securely retaining the stopper in place.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a bottle embodying my invention. Fig. 2 is a side elevation of the fastening means removed from the bottle, and Fig. 3 is a similar view of the seal or impenetrable stopper.

In the drawings, 1 denotes a bottle, and 2 the bottle-neck, which is slightly tapered from A to B and is then tapered abruptly from B to C and having its upper edge turned to form a stopper-flange 3, having a central opening 4 of a diameter corresponding to the tapered opening at the lower portion of the neck. The lowered tapering portion is adapted to receive an ordinary cork 5, and above the upper end of the cork the bottle-neck is formed with a weakened groove 6 and is thickened below said groove.

7 denotes the fastener, which consists of a ring 8, having inwardly-projecting spring-lips 9, downwardly and outwardly projecting legs 10, and upwardly-curved spring-arms 12, the inner ends of which are preferably bent at an angle to the body to contact with the annular flange at the outlet end of the neck.

13 denotes a stopper, which is preferably made of porcelain, glass, or some other impenetrable substance. This stopper has a lower tapering end 14 and midway its length an annular groove 15.

After the bottle has been filled the cork is driven into the lower tapering portion of the neck below the weakening groove. The fastening is now inserted through the central opening in the flange and is pressed down until its legs rest against the upper end of the cork, in which position the spring-arms will fly apart and engage the under side of the annular flange, thus preventing the withdrawal of the fastening. The impenetrable stopper is now inserted and driven through the ring of the fastener until its groove arrives opposite the spring-lips, which will spring into the groove and thus hold the stopper against withdrawal.

To remove the contents of the bottle, the neck portion thereof above the weakened groove is subjected to a blow which will break that portion of the neck from the remaining portion, so as to enable the cork to be withdrawn and the contents of the bottle emptied.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

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

A bottle the neck of which flares from its body portion to its extremity where it is formed with an inwardly-projecting annular flange, having a central opening; said neck being provided with a weakening groove, in combination with a fastener and impenetrable grooved stopper, said fastener consisting of a ring provided with lips that extend downwardly and inwardly, and engage the groove of the stopper, arms projecting downward from said ring below the lower ends of the lips and resting upon a stopper below the weakening groove, and arms projecting upwardly from the ring and inclined outwardly and then bent inwardly and resting against the annular flange, substantially as set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JAMES P. REDDING, JR.

Witnesses:

THOS. Z. MARTIN,
T. J. BLALOCK.