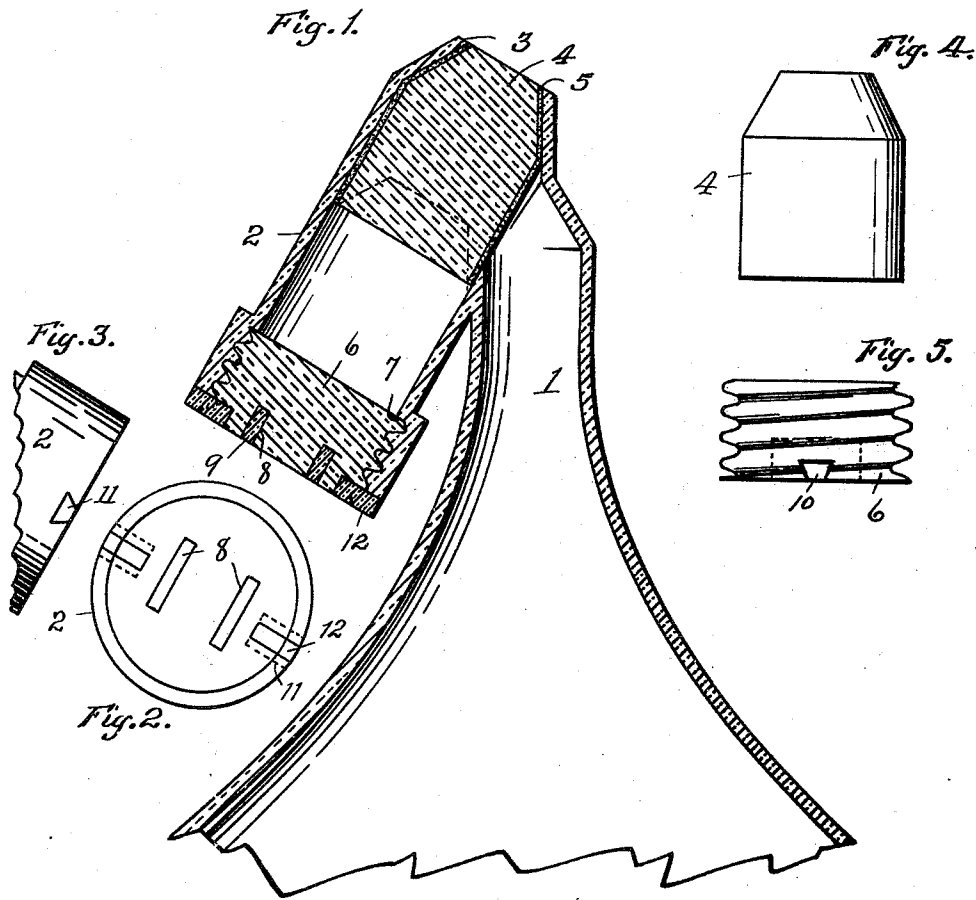


E. B. MILES.
NON-REFILLABLE BOTTLE.
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1,005,996.

Patented Oct. 17, 1911.



EMANUEL B. MILES,

Inventor

Witnesses
J. O. Kelly.
George Young.

364 E. A. Kelly,
Attorney

UNITED STATES PATENT OFFICE.

EMANUEL B. MILES, OF WYOMISSING, PENNSYLVANIA.

NON-REFILLABLE BOTTLE.

1,005,996.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EMANUEL B. MILES, citizen of the United States, residing at Wyomissing, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

This invention relates to improvements in bottles and the object is to provide a bottle from which the contents cannot be withdrawn without revealing that fact.

The invention consists of an angled member formed integral with the bottle neck and into which the sealing stopper is inserted from the under side, and means for closing and locking the opening through which the stopper is inserted.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 is a central sectional view of a bottle showing my invention, with the bottle sealed and locked. Fig. 2 is an end view of the sealing chamber. Fig. 3 is a partial side view thereof. Fig. 4 is a detail of the stopper. Fig. 5 is a detail of the locking plug.

The numeral 1 designates the neck of the bottle, which is formed with a contracted upper end, and which has formed integral therewith, a sealing chamber 2. The bottle neck leads into the chamber 2 near its upper extremity, and the outlet from the bottle is through the upper end of this chamber 2 which is contracted at its upper end 3. A stopper 4, of glass and provided with a sleeve of cork 5 fits snugly in this chamber and is of a shape that conforms with the upper contracted end of the chamber 2. When this cork covered stopper is in closed position, as shown in Fig. 1, it closes the opening from the bottle neck into the chamber and also the contracted outlet 3 of the chamber. The lower end of the chamber is screw-threaded internally and a locking plug 6 is secured therein to close the inlet to the chamber. This plug is made of glass, and when entered to its full depth will seat against a ledge in the chamber wall, 7. When the plug is thus seated, its face is flush with the end of the chamber. The plug is provided with two depressions 8 by means of which it may be engaged by a forked in-

strument during the entering thereof in the chamber opening. After the plug has been thus seated, these openings are each closed with a tight fitting plug 9 of glass, which will fit flush with the surface of the plug 6, and which may be supplied with some adhesive substance to keep them in position.

The plug 6 is formed with two dove-tailed slots 10 at diametrically opposite points on its outer face and the outer edge of the chamber opening is also provided with two like slots 11 and when the plug is seated in its position as shown in Fig. 1, the slots in the plug will register with the slots in the edge of the chamber. Into these slots I place a dove-tailed key 12, of glass, which, when inserted their full length, will be flush with the periphery of the chamber edge. These key pieces may also, if desired, be supplied with sufficient adhesive substance to prevent them from slipping out of position.

To fill the bottle, the stopper 4 is inserted in the chamber 2 from below, until it assumes the position indicated in dotted lines, Fig. 1; the bottle is then filled; the stopper is then forced, by pressure from below, through the chamber opening, into the position shown, when it effectually closes the bottle opening. The locking plug 6 is then screwed into the opening in the chamber until it has reached its seat. This will bring the slots in the plug into register with the slots in the edge of the chamber, and the locking keys are inserted; the openings or depressions 8 in the plug are then closed by inserting the plugs 9. This will leave the bottle sealed and locked, and in order to draw its contents, the stopper must be forced back to the dotted position by pressure from above, through the outlet opening, and when it has been forced to this position, it cannot be drawn up again.

The entire device is of glass, with the exception of the cork liner for the stopper.

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

A bottle having a contracted outlet and a sealing chamber formed integral therewith, said chamber having a contracted upper end, a stopper therefor; a locking plug adapted to close the lower end of the chamber, said plug having a plurality of slots in its outer face; the end of the chamber having corre-

sponding slots adapted to register with the
slots in the plug; locking keys adapted to
engage the chamber end and the plug by
insertion in the slots; means for screwing
5 the plug into position in the chamber, and
plugs for closing said means when the plug
is in position.

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

EMANUEL B. MILES.

Witnesses:

ED. A. KELLY,
CLARA E. YOUNG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
