

(No Model)

P. C. THOMPSON.
NON-REFILLABLE BOTTLE.

No. 583,241.

Patented May 25, 1897.

Fig. 1.

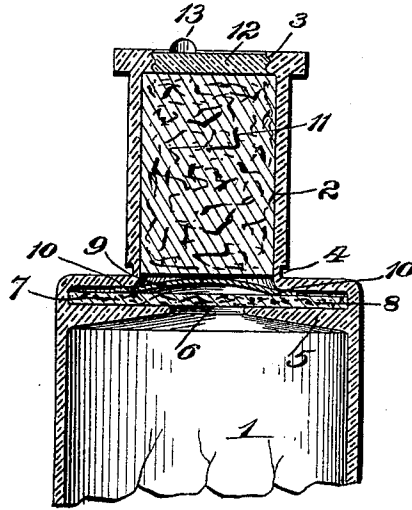
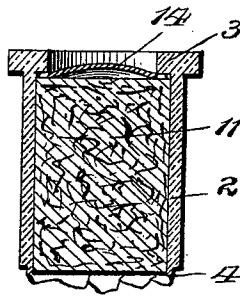


Fig. 2.



WITNESSES

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NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 583,241, dated May 25, 1897.

Application filed December 18, 1896. Serial No. 616,161. (No model.)

To all whom it may concern:

Be it known that I, PHARAOH C. THOMPSON, a citizen of the United States, residing at Garden City, in the county of Franklin and State of Mississippi, have invented certain new and useful Improvements in Non-Refillable Bottles; and I do hereby 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.

This invention has reference to a novel construction in a bottle, the object being to provide a bottle so constructed that in opening the same after having been filled and sealed once it cannot be reused as an original package without detection.

The invention consists in the features of construction hereinafter specifically described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a central vertical section of a bottle constructed in accordance with this invention. Fig. 2 is a similar section of the upper end of the neck portion of the bottle, illustrating a modified construction.

Referring now to said drawings, 1 indicates the body of the bottle, and 2 the neck. The said neck is provided at its upper end with an inwardly-projecting flange 3, while at the point where it joins the body portion of the bottle it is provided with a thin or frangible portion 4, which may consist of an exterior groove in said neck at its juncture with the shoulder. The body portion of the bottle is provided interiorly and near the upper end thereof with an inwardly-projecting flange 5, which extends entirely around the bottle, and is provided centrally with an opening 6, through which the bottle is filled and emptied. Between the flange 5 and the upper end portion of the bottle-body is an annular space or chamber 7.

The above is a description of the bottle as it is made, and in sealing a bottle of this description after it has been filled a thin cork disk 8 is forced through the neck 1 into the annular chamber 7, where it expands, after which a thin metal plate 9 is inserted through the neck. This metallic plate is provided at its edge with the teeth or prongs 10, which

are bent inwardly to allow the plate to be inserted and which by pressure upon the plate after insertion expand, so that the plate cannot be removed. The stopper 11 is then inserted in the usual manner, and being soaked can be forced within the flange 3, so that it expands when inserted and is held by the said flange.

In Fig. 1 is shown the construction for breaking the upper end of the cork 11, and which consists of a glass plate 12, that is screw-threaded into the mouth of the bottle. When inserting this glass plate 12, the latter is provided with a small lug or projection 13, by means of which it can be turned, but which is broken off after it is in place, so that it cannot be removed.

In Fig. 2 is shown a modification which consists of a thin metallic plate 14, that is notched or toothed at its edges, so that these teeth can be bent inwardly, so as to allow it to be inserted in the bottle and afterward bent outwardly, so that it cannot be removed. It will be understood, of course, that both the glass and metal plates can be dispensed with and the upper end of the cork 11 protected by plaster, or, in fact, it can be left unprotected, and the inwardly-projecting flange 3 will prevent its being drawn unless it is cut to pieces.

In opening the bottle the neck is broken at the frangible portion by a blow or the application of heat, while any small pieces of glass will be prevented from entering the bottle by the metallic plate and cork disk. These parts are then removed, which allows the contents to be poured from the bottle.

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

1. A bottle consisting of a body portion, a neck rising from the upper end of said body portion and having a frangible portion at its base, and an interior flange within the body portion of said bottle and extending inwardly from the side walls of the said body portion a little distance below the upper wall of the body portion so as to form an annular space between said upper wall and said flange, said flange also extending inwardly beyond the walls of the neck whereby the opening at the center of the flange is smaller than said neck.

2. The combination with a bottle provided
at the upper end of the body portion with an
annular chamber, a cork and metallic plate
situated within said chamber, a neck having
5 a frangible portion, an inwardly-projecting
flange at the end of said neck, a cork situated
within said neck, and a plate situated within
and held by said flange.

In testimony whereof I have signed this
specification in the presence of two subscrib- ing witnesses.

PHILARAOH C. THOMPSON.

Witnesses:

A. B. JONES,
GERARD BRANDON.