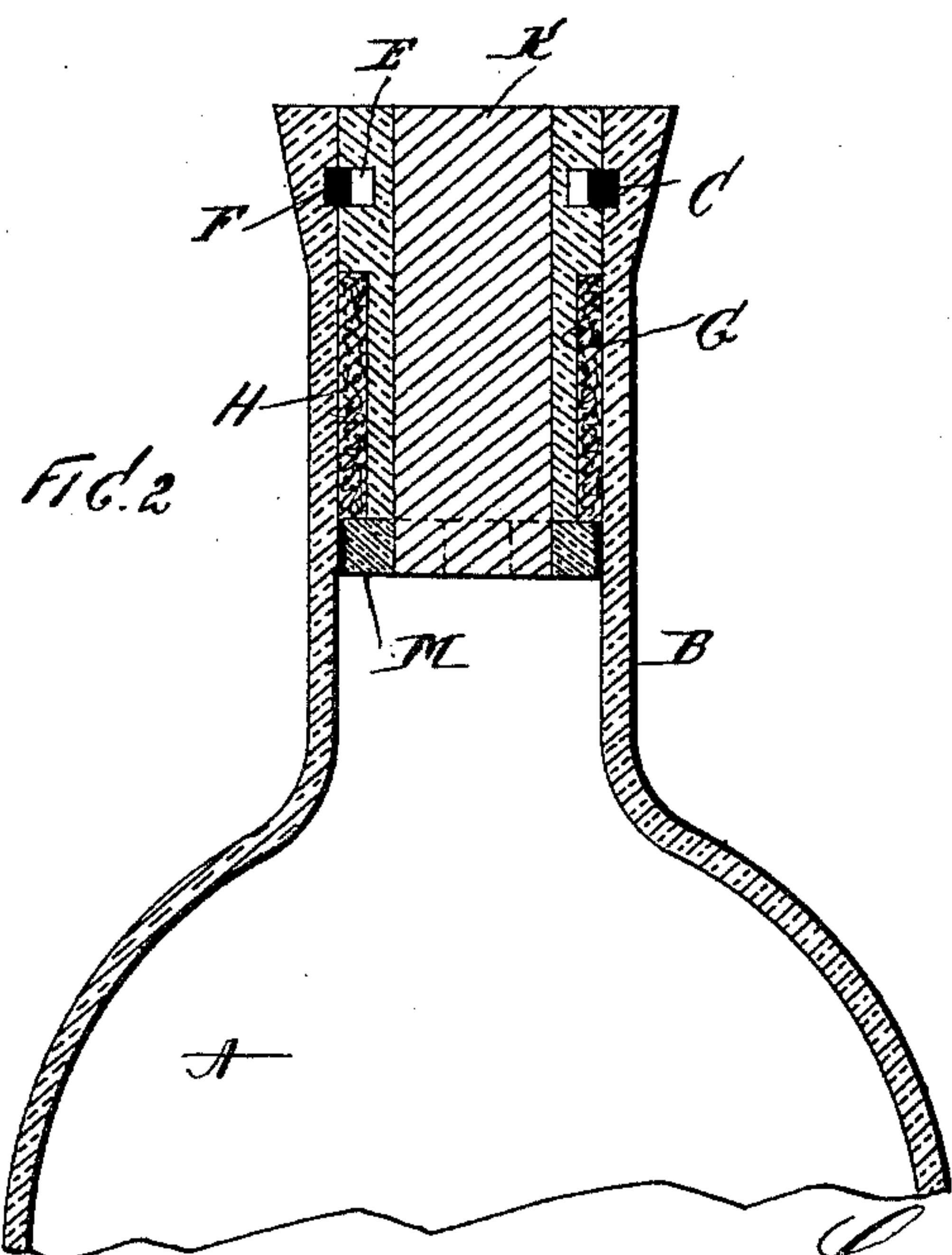
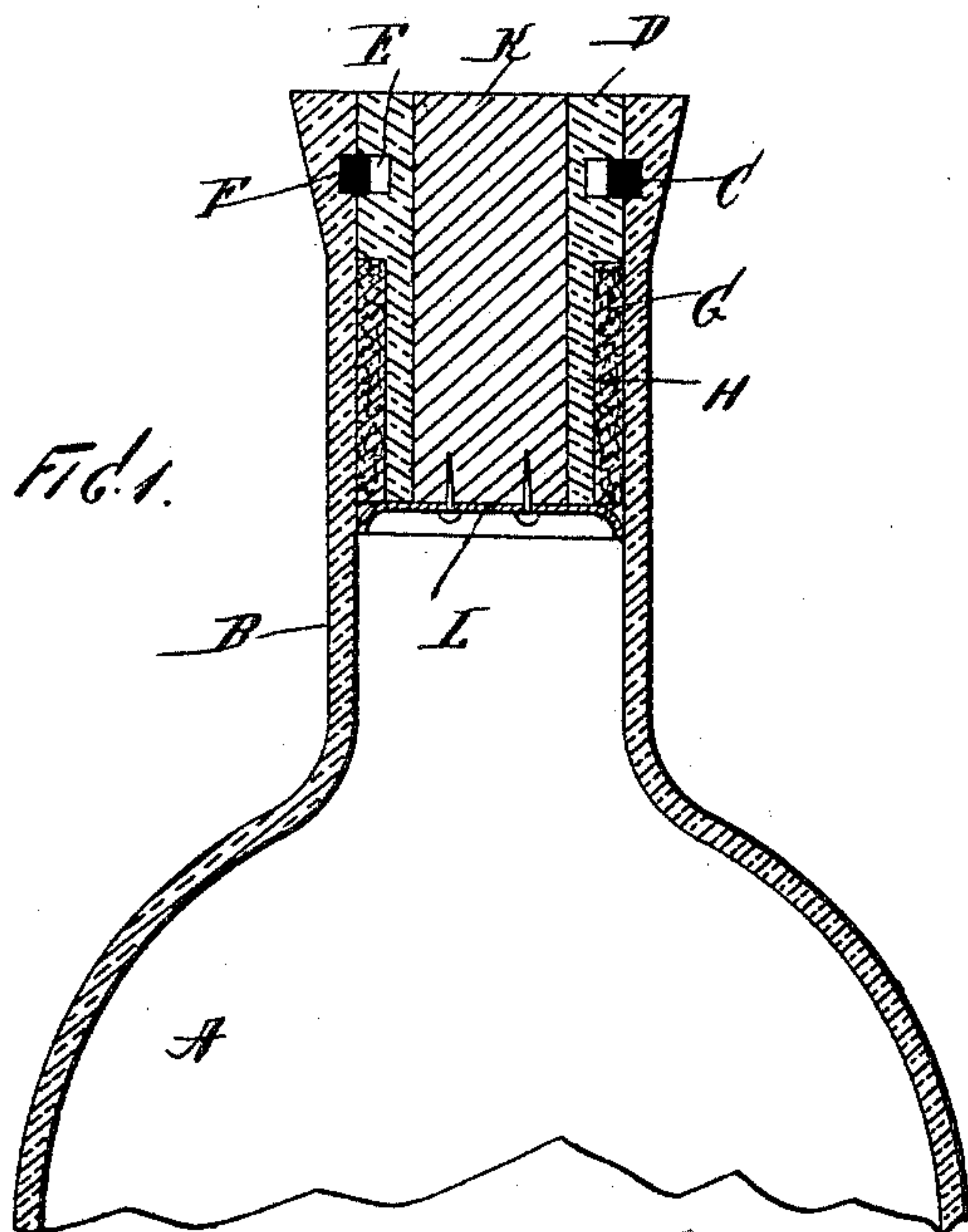


(No Model.)

G. C. PHILLIPS.
BOTTLE.

No. 581,765.

Patented May 4, 1897.



WITNESSES

Wm. Buckler,
C. Gerst.

INVENTOR

George C Phillips
BY
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UNITED STATES PATENT OFFICE.

GEORGE C. PHILLIPS, OF TEXAS CITY, TEXAS, ASSIGNOR OF ONE-HALF TO
WILLIAM WHARTON HOSKINS, OF VELASCO, TEXAS.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 581,765, dated May 4, 1897.

Application filed June 24, 1896. Serial No. 596,750. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. PHILLIPS, a citizen of the United States, and a resident of Texas City, in the county of Galveston and State of Texas, 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 bottles, jugs, jars, and similar vessels; and the object thereof is to provide a vessel of this class which, having been once filled and sealed, cannot be emptied of its contents without leaving evidence of the fact.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which I have shown my invention applied to a bottle, and in which—

Figure 1 is a central vertical section of the upper part of a bottle and the neck thereof provided with my improvement, and Fig. 2 a similar view of a modified form of construction.

In the practice of my invention I provide a bottle A, having a neck B, within which is formed, near the end thereof, an annular groove C, and I also employ a stopper consisting of a tubular casing D, which is adapted at its upper end to closely fit the inner walls of the neck B and which is also provided with an annular groove E, which corresponds with the annular groove C in the neck and which is adapted to register therewith, and placed in said groove is a split spring-ring F, which when the tubular casing D is forced into the neck is adapted to expand into the groove C, so as to prevent the removal of said tubular casing.

The lower part of the tubular casing D is cut away, so as to form an annular chamber G, in which is placed a tubular packing H, of cork or similar material, and I also provide a cylindrical cork or plug K, which is adapted to be forced into the tubular casing D, and secured to the lower end of said cork or plug K is a disk L, of spun glass, mica, or similar flexible and non-corrosive material, which

when the cork or plug K is pulled out will also be drawn out and collapsed or otherwise injured, so that it cannot be again used.

The operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

When the bottle has been filled, the stopper, comprising the tubular casing D, the annular packing H, of cork or similar material, and the cork K, is forced into the neck thereof in the usual manner, and the ring F in this operation will expand and securely hold the tubular casing D in place, and the latter cannot be removed under any circumstances. The annular packing H, of cork, is designed to prevent the contents of the bottle from reaching the spring F, and the disk L may be of any desired shape or size, but is so formed as to be forced into the neck of the bottle without breaking or otherwise injuring the same.

When it is desired to empty the bottle, the cork K is withdrawn in the usual manner, and this operation collapses the disk L, and this condition of the disk or the absence thereof will be proof that the bottle has once been filled and emptied, and I may also place on said disk the name of the manufacturer or proprietor of the contents of the bottle, and a suitable label may be placed on said bottle, describing the disk L and the object thereof.

In the construction shown in Fig. 2 I substitute for the disk L a ring M, which is preferably made in sections, said sections being connected with the lower end of the cork in any desired manner, and the separate parts thereof may be composed of glass or any desired material which will not be affected by the contents of the bottle, and when the cork K is pulled out the separate parts of the ring M will be detached and drop into the bottle, and they cannot be afterward connected with another cork, for the reason that in order to do this the tubular casing D must first be removed, and this cannot be done without breaking off the neck of the bottle. The operation of this form of construction will be substantially the same as that hereinbefore described, and it will thus be seen that I accomplish the object of my invention by means of a device

which is well adapted to produce the result for which it is intended and which does not add materially to the cost of the bottle.

5 The stopper herein shown and described may be placed lower in the neck of the bottle, if desired, and an ordinary cork may be inserted above the same, and other changes in and modifications of the construction herein described may be made without departing
10 from the spirit of my invention or sacrificing its advantages.

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

15 The combination with a bottle having an annular interior groove C, near the orifice of the neck, of a tubular casing D adapted to fit within the neck of the bottle and having

annular exterior grooves E adapted to register with the groove C and a spring-ring F 20 adapted to engage said grooves and retain said tubular extension within the bottle-neck, the lower end of said tubular casing being restricted or cut away, a tubular packing-ring H secured in said cut-away portion, a cork or 25 plug K adapted to enter said casing and a disk upon said cork, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 16th day of June, 1896.

GEORGE C. PHILLIPS.

Witnesses:

W. W. HILL,

CHARLES S. ROGERS.