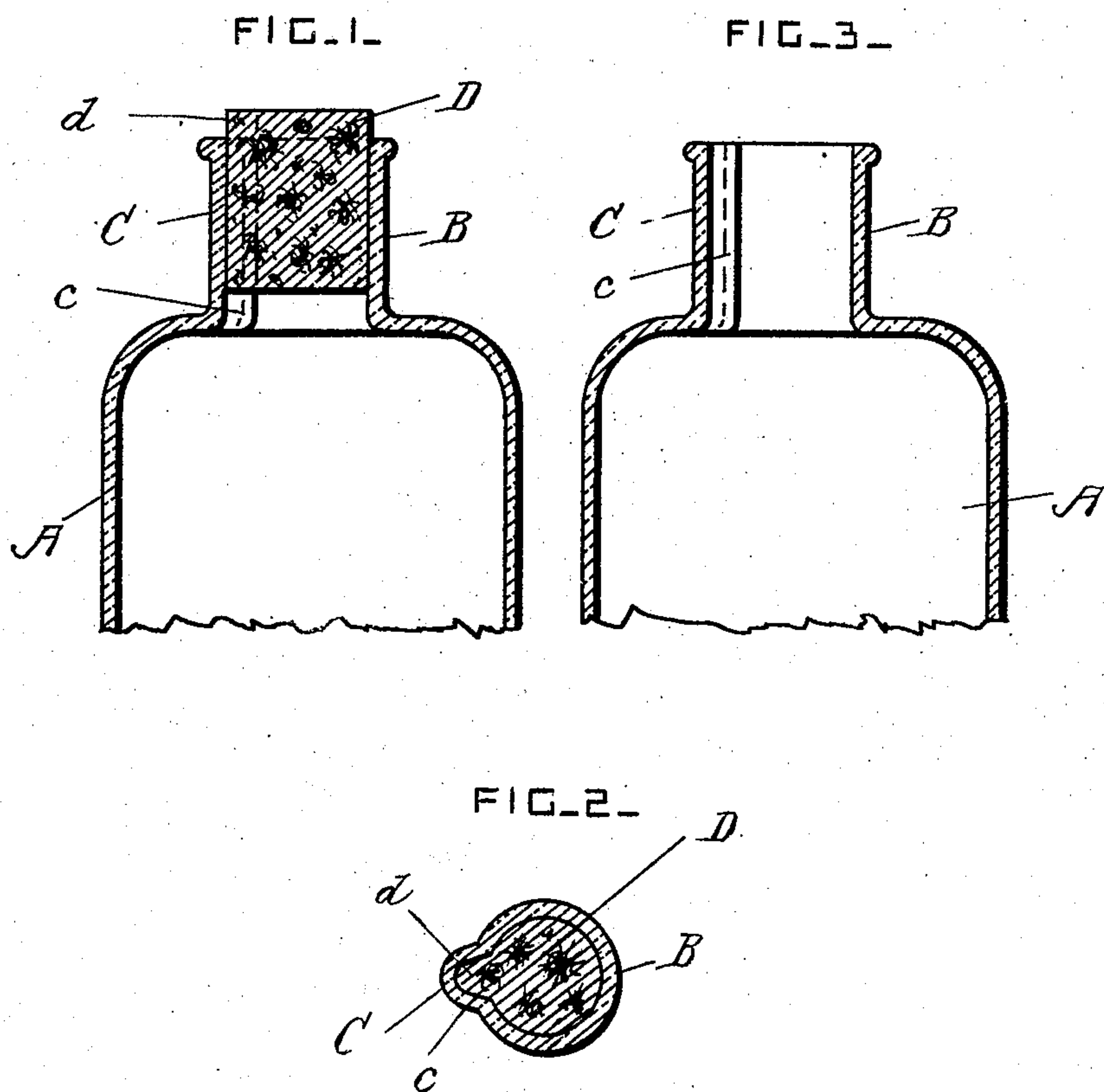


No. 816,120.

PATENTED MAR. 27, 1906.

H. E. PAYNE.
BOTTLE STOPPER.
APPLICATION FILED DEC. 9, 1905.



WITNESSES:

J. H. McG. Pool
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UNITED STATES PATENT OFFICE.

HARRY EUGENE PAYNE, OF WOODSTOCK, VERMONT.

BOTTLE-STOPPER.

No. 816,120.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed December 9, 1905. Serial No. 291,085.

To all whom it may concern:

Be it known that I, HARRY EUGENE PAYNE, a citizen of the United States, residing at Woodstock, in the county of Windsor and State of Vermont, have invented certain new and useful Improvements in Bottle-Stoppers; 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 relates to devices for closing bottles; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a vertical section through the upper part of a bottle provided with closing devices according to this invention. Fig. 2 is a cross-section through the bottle neck and stopper. Fig. 3 is a vertical section similar to Fig. 1, but with the stopper removed.

A is a portion of a bottle formed of glass or any other approved material, and B is the neck at the top of the bottle. The neck is provided upon one side with a projecting rib C, having a longitudinal groove *c* on the inside of the neck. This groove extends for the full length of the neck, and when not closed by a specially-constructed stopper it forms a communication between the interior of the bottle and the atmosphere.

D is the stopper, which is formed of cork or any other approved material. The main portion of this stopper is circular in form,

and it fits in the bottle-neck. This stopper has a longitudinal projection *d* upon one side of it, which fits in the groove *c* of the bottle-neck.

When the bottle-neck is closed by means of the stopper D, no liquid can pass out of the bottle. When the stopper D has been withdrawn and an attempt is made to close the bottle by means of an ordinary round cork, the bottle cannot be stopped tightly, and the liquid can be poured out of it in a small stream.

What I claim is—

1. The combination, with a bottle-neck provided with an internal groove extending its full length and communicating with the interior of the bottle, of a stopper which fits the said neck and which is provided upon one side with a longitudinal projection which fits the said groove.

2. The combination, with a bottle-neck provided with an externally-projecting rib on one side and having an internal groove in the said rib, which extends the full length of the said bottle-neck and communicates with the interior of the bottle, of a stopper which fits the said neck and which is provided upon one side with a longitudinal projection which fits the said groove.

In testimony whereof I have affixed my signature in the presence of two witnesses.

HARRY EUGENE PAYNE.

Witnesses:

KARL A. PEMBER,
J. R. PEMBER.