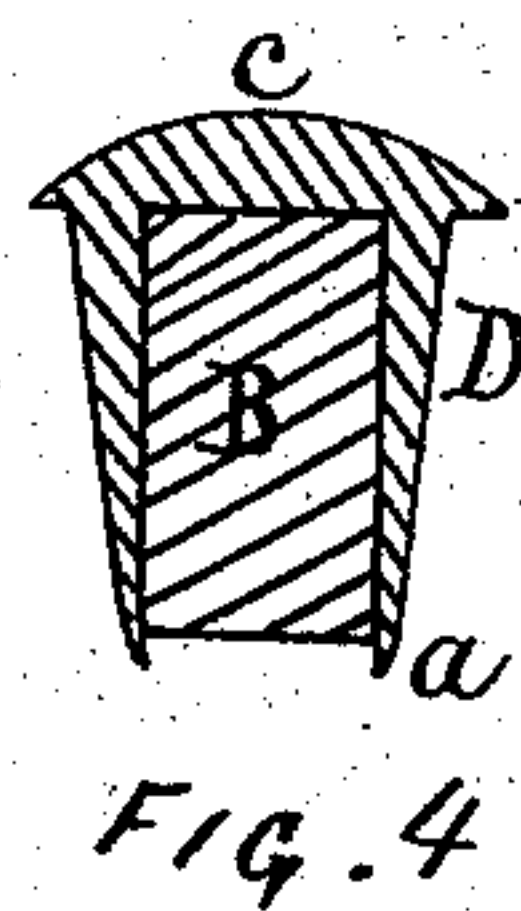
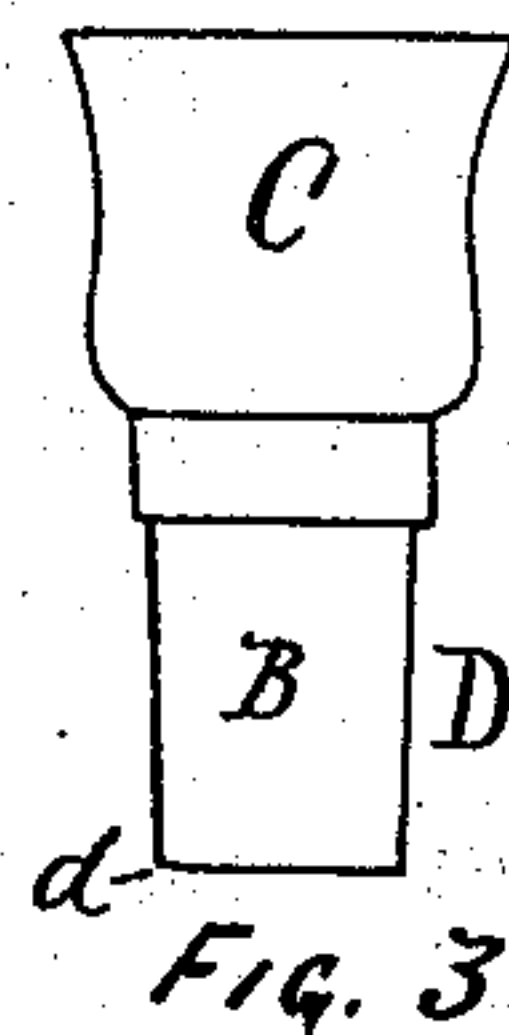
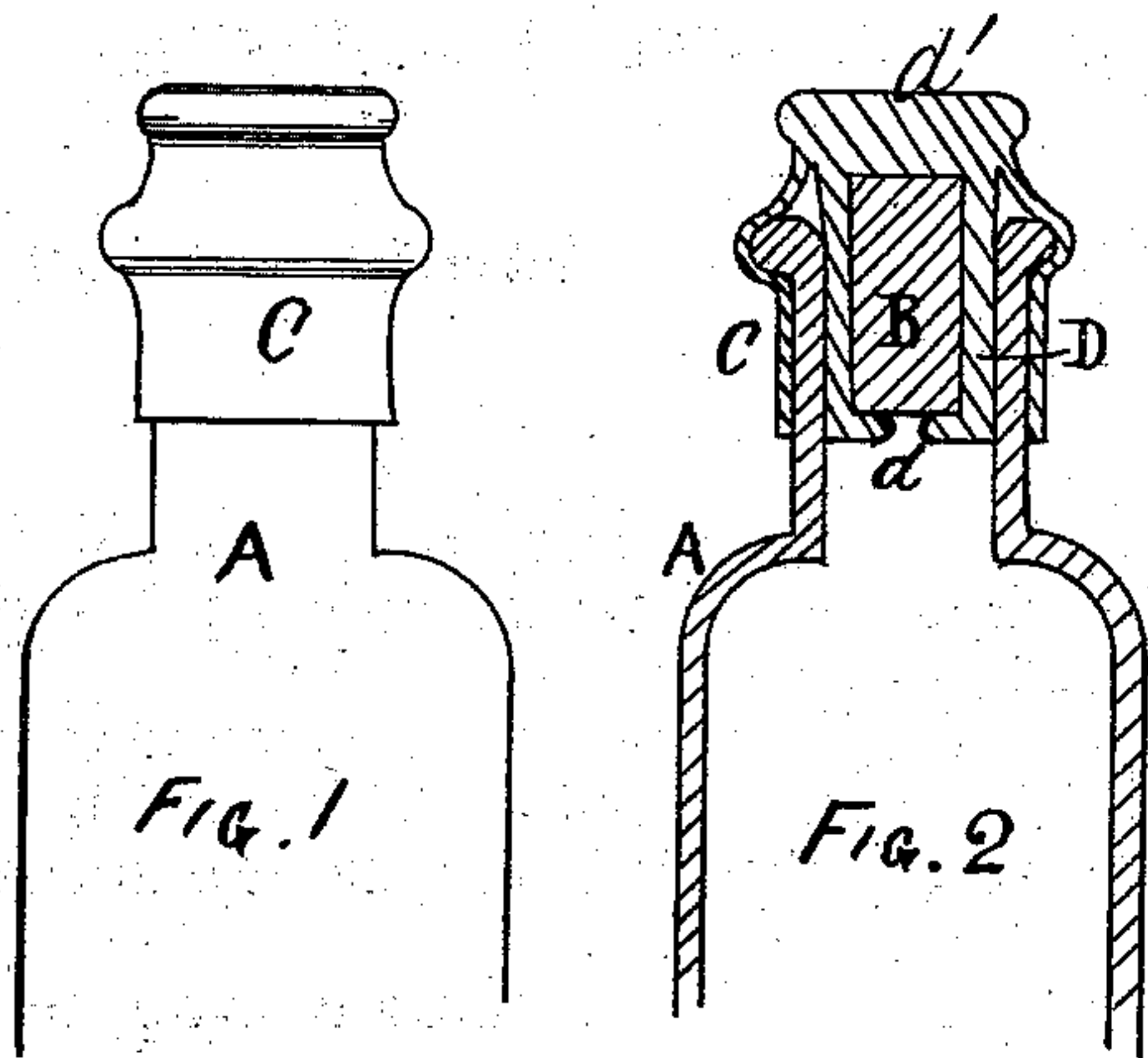


E. HARRIS.
Bottle-Stoppers.

No. 156,219.

Patented Oct. 27, 1874.



Witnesses
C. A. Shaw
Geo. G. Shaw,

Inventor
Elbridge Harris

UNITED STATES PATENT OFFICE.

ELBRIDGE HARRIS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. 156,219, dated October 27, 1874; application filed May 27, 1874.

To all whom it may concern:

Be it known that I, ELBRIDGE HARRIS, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Bottle-Stopples, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation, showing my improved stopper applied to a bottle. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a view of the stopper with the cap turned up.

The object of my invention is to provide a rubber stopper having a cork core, wherein the cork may be easily inserted and yet be prevented from escaping from the rubber covering in the act of inserting it in the bottle.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, D is a rubber casing, having a solid head, *d'*, and its lower end open and flanged, as shown at *d*. Made in one piece with the solid head is a cap, C, intended to cover over the outside of the mouth of the bottle after the stopper is inserted. A

cork core, B, is passed into the casing D through the opening *d*, and the flanges close around and hold it.

When the stopper is to be inserted the cap is turned up, as shown in Fig. 3, the stopper inserted, and the cap turned down, as shown in Fig. 1.

The opening *d* being elastic, the cork core is easily inserted and retained. The solid head prevents any tendency of slipping upward on the part of the core.

I am aware that stoppers have heretofore been made with a solid rubber casing around a cork-core; also, that stoppers have been made of a cork core within a rubber casing having both ends open. I am also aware that a solid rubber stopper has been provided with a cap similar to the cap C. Hence I do not claim either of these elements broadly; but

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

As a new article of manufacture, a stopper composed of the rubber casing D, having a solid head, *d'*, and flanged opening *d*, and provided with a cap, C, and inserted cork core B, as set forth.

ELBRIDGE HARRIS.

Witnesses:

C. A. SHAW,
H. E. METCALF.