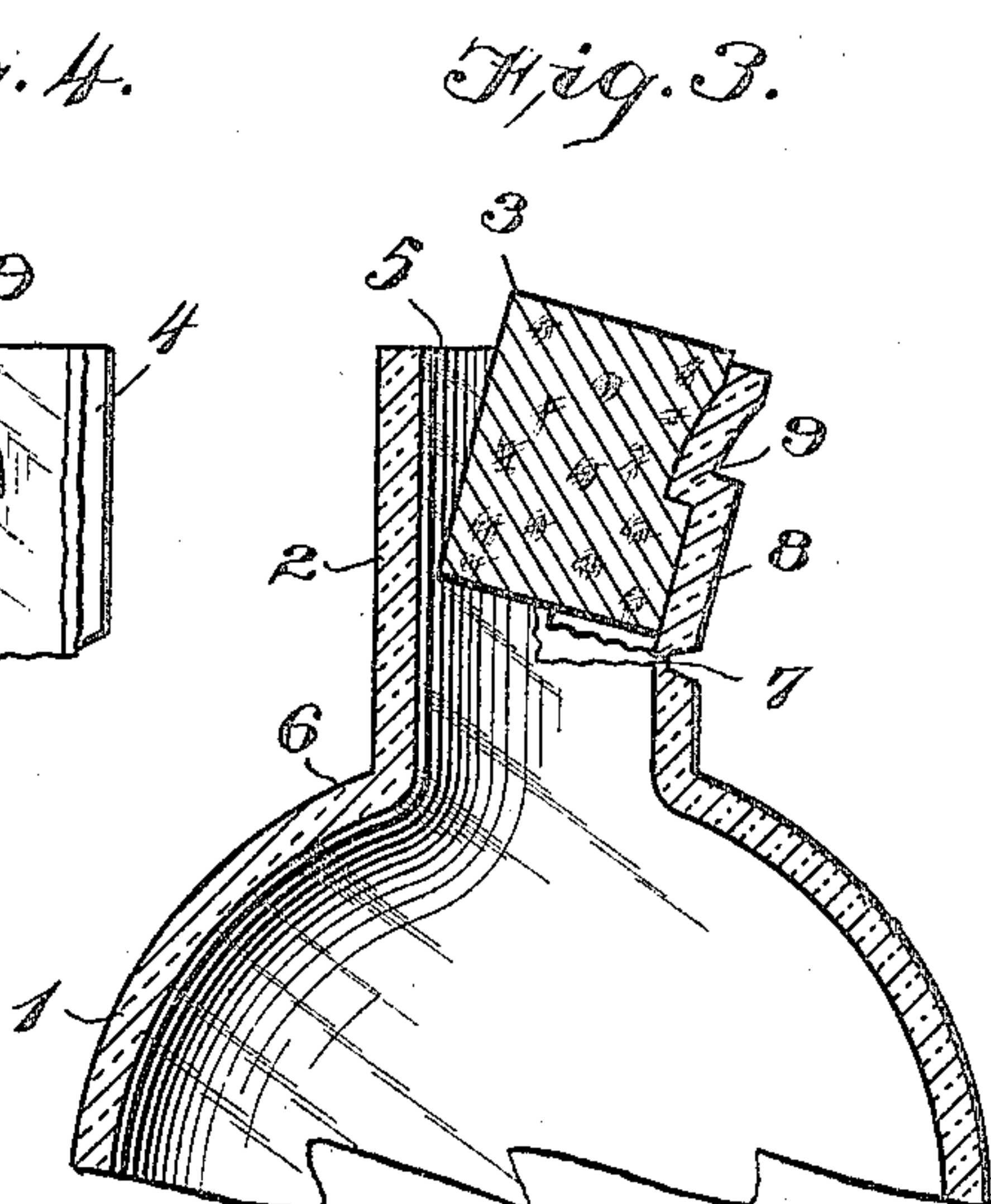
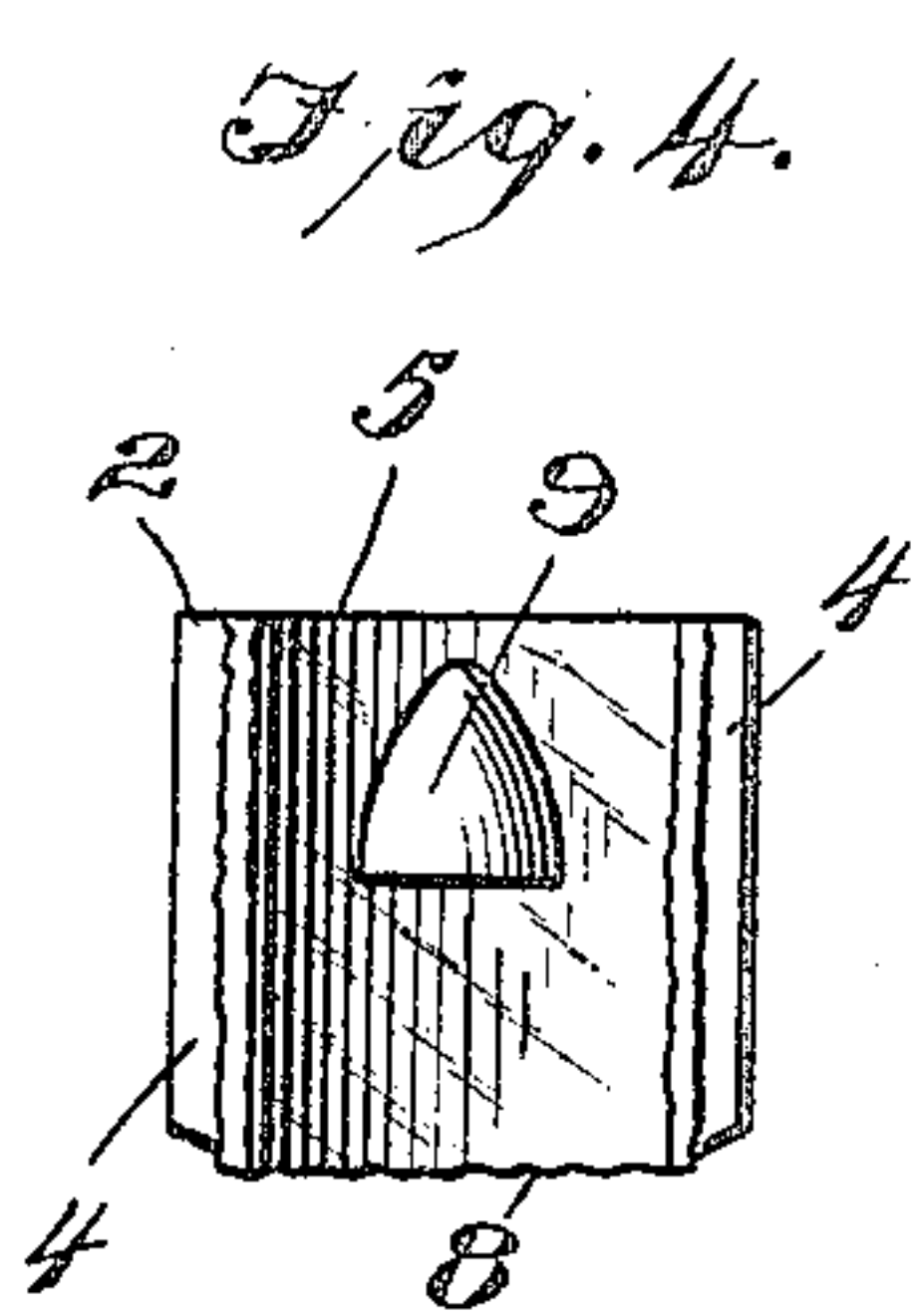
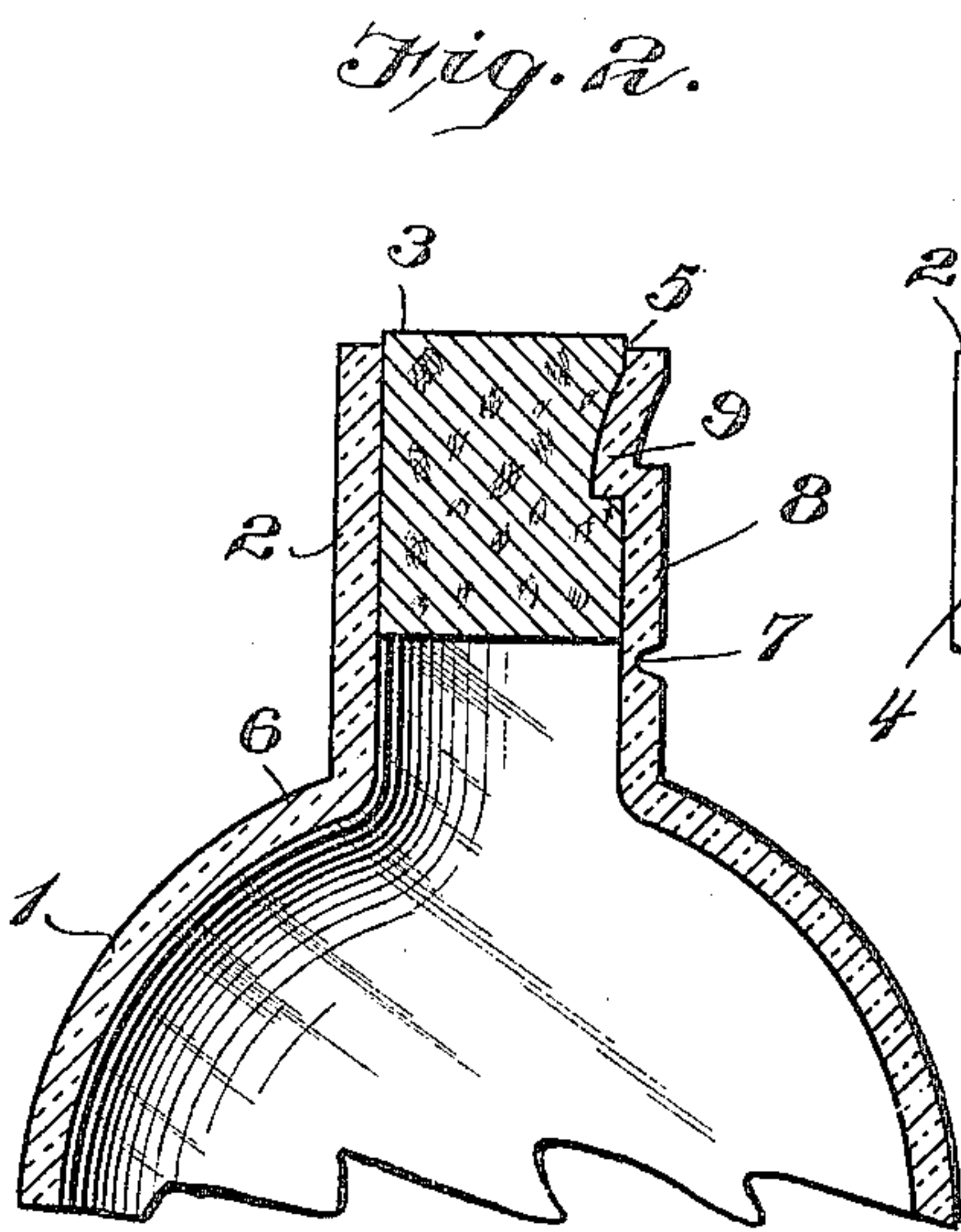
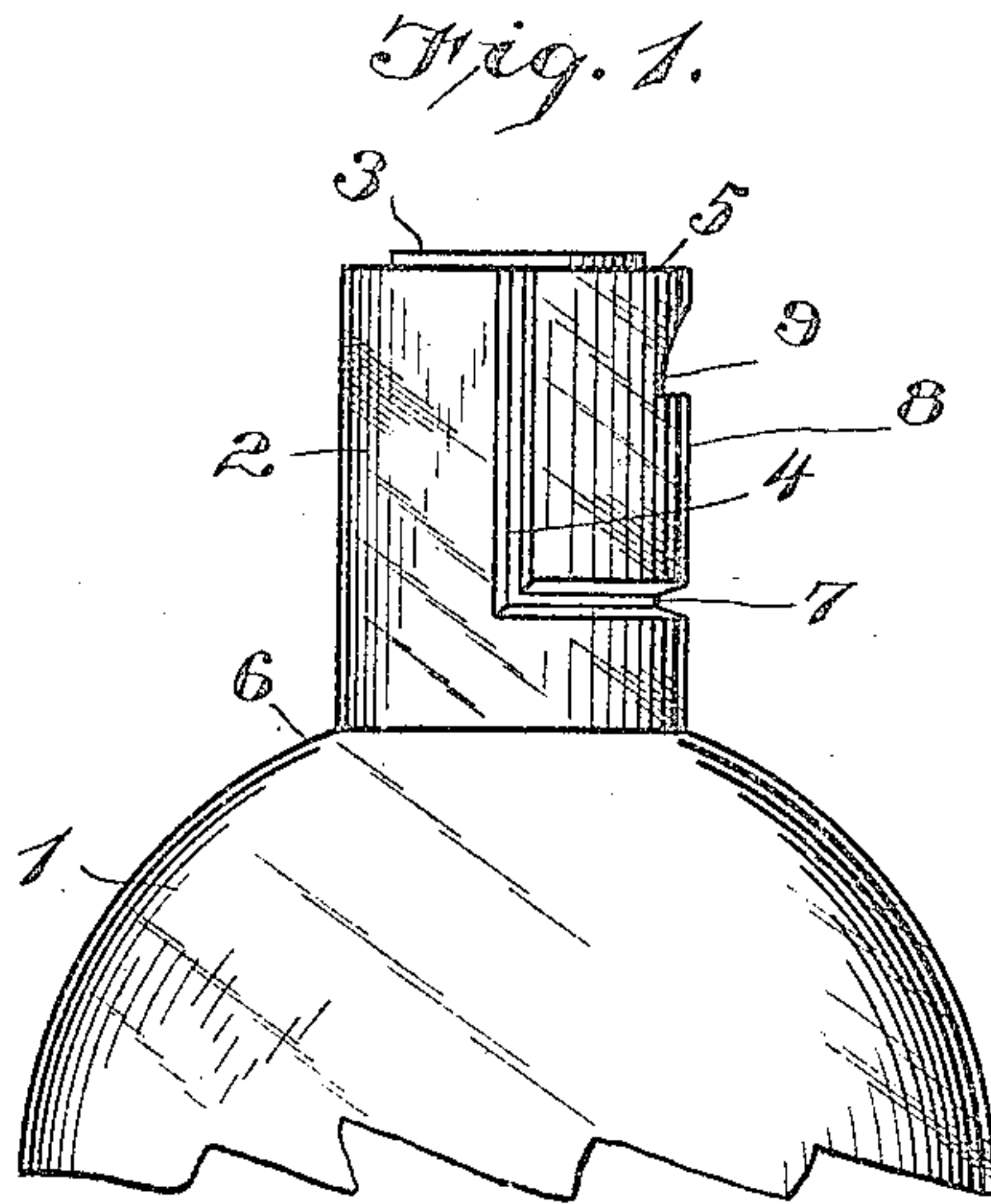


No. 822,739.

PATENTED JUNE 5, 1906.

J. C. HENDERSON.
PROTECTIVE BOTTLE.
APPLICATION FILED OCT. 30, 1905.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES C. HENDERSON, OF LOS ANGELES, CALIFORNIA.

PROTECTIVE BOTTLE.

No. 822,739.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed October 30, 1905. Serial No. 285,004.

To all whom it may concern:

Be it known that I, JAMES C. HENDERSON, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Protective Bottles; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to a protective bottle, but more particularly to that class designated "bottles, breakable necks," and has for its object to provide a device of this class wherein the neck of the bottle must be broken before the contents of the bottle can be poured out.

My invention differs from present devices of this class principally in the fact that after the bottle has been opened it is practically impossible to again cork the bottle, so that it could again be used in shipment, or to so cork or close the bottle as to allow of any amount of handling, thereby practically destroying the bottle, but at the same time not injuring the holding capacity of the same, inasmuch as the original contents can be kept in the bottle until entirely used.

With this object in view my invention consists in the novel construction of the neck of the bottle, and also in the novel construction of the cork-holding tang or shoulder, as will be hereinafter fully described and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is an elevation of the upper portion of a bottle constructed in accordance with my invention. Fig. 2 is a vertical section taken through the same. Fig. 3 is a vertical section illustrating the bottle in the act of being opened; and Fig. 4 is an elevation of the broken-away portion of the neck, showing the cork-holding tang or shoulder.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 indicates a bottle of any form, size, or shape. 2 is the neck, and 3 indicates the cork. In the construction of this bottle it will be noted that no additional parts—such as metal, springs, &c.—are required, the bottle being

blown the same as any ordinary bottle, the construction constituting my invention being made after the bottle is blown and when yet in a plastic condition, thereby adding to the cost of the bottle. After the bottle is blown, therefore, two vertical grooves 4 are provided, extending down the neck 2 from the mouth 5, preferably toward the body 6 of the bottle, and the two grooves 4 are connected at their lower ends by a groove 7, which extends half-way around the neck. That portion 8 of the neck 2 which is bordered by the grooves 4 and 7 is provided with a cork-holding tang or shoulder 9, formed of glass and preferably integral with the bottle, the same being formed thereon after the bottle is blown.

Having thus described the construction of my invention, its operation is as follows: After the bottle has been filled a dry cork is driven into the same, as ordinarily done in corking bottles. When the bottle comes into the hands of the dealer or consumer, the same is opened by giving the neck of the bottle a sharp tap on a solid object; or a suitable tool can be employed to crack the glass of the neck along the vertical grooves 4 and the horizontal groove 7, which will cause that portion 8 which is bordered by the grooves to fall out of the neck, generally carrying the cork with it, as illustrated in Fig. 3. The bottle now being opened the contents can be removed at pleasure, the unbroken half of the neck acting as a spout in pouring out the contents. After the cork while dry is originally driven into the neck the same becomes wet and swells to such a degree that the cork cannot be withdrawn, the cork-holding tang or shoulder locking the cork rigidly within the neck, and any strain sufficient to break the cork would crack the neck and cancel the bottle.

Having thus fully described my invention, I do not wish to be understood as limiting myself to the exact construction as herein set forth, as various slight changes may be made therein which would fall within the limit and scope of my invention, and I consider myself clearly entitled to all such changes and modifications.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. A bottle having its neck provided with two vertical grooves extending from the mouth thereof toward the body of the bottle,

and provided with a groove connecting said vertical grooves at their bottom ends, a tang or shoulder arranged within the neck of the bottle and on the portion thereof bordered
5 by said grooves, the whole being arranged whereby the cork may be removed from the bottle when the neck is broken along the grooves therein, substantially as described.

10 2. A bottle having its neck provided with two vertical grooves extending from the mouth thereof down the neck of the bottle, a cork-engaging tang or shoulder arranged

within the neck of the bottle and on the portion thereof bordered by said grooves, the whole arranged whereby the cork may be re- 15 moved from the bottle when the neck is broken along the grooves therein, substantially as described.

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

JAMES C. HENDERSON.

Witnesses:

T. P. BRITT,
E. C. DUFFY.