

No. 888,309.

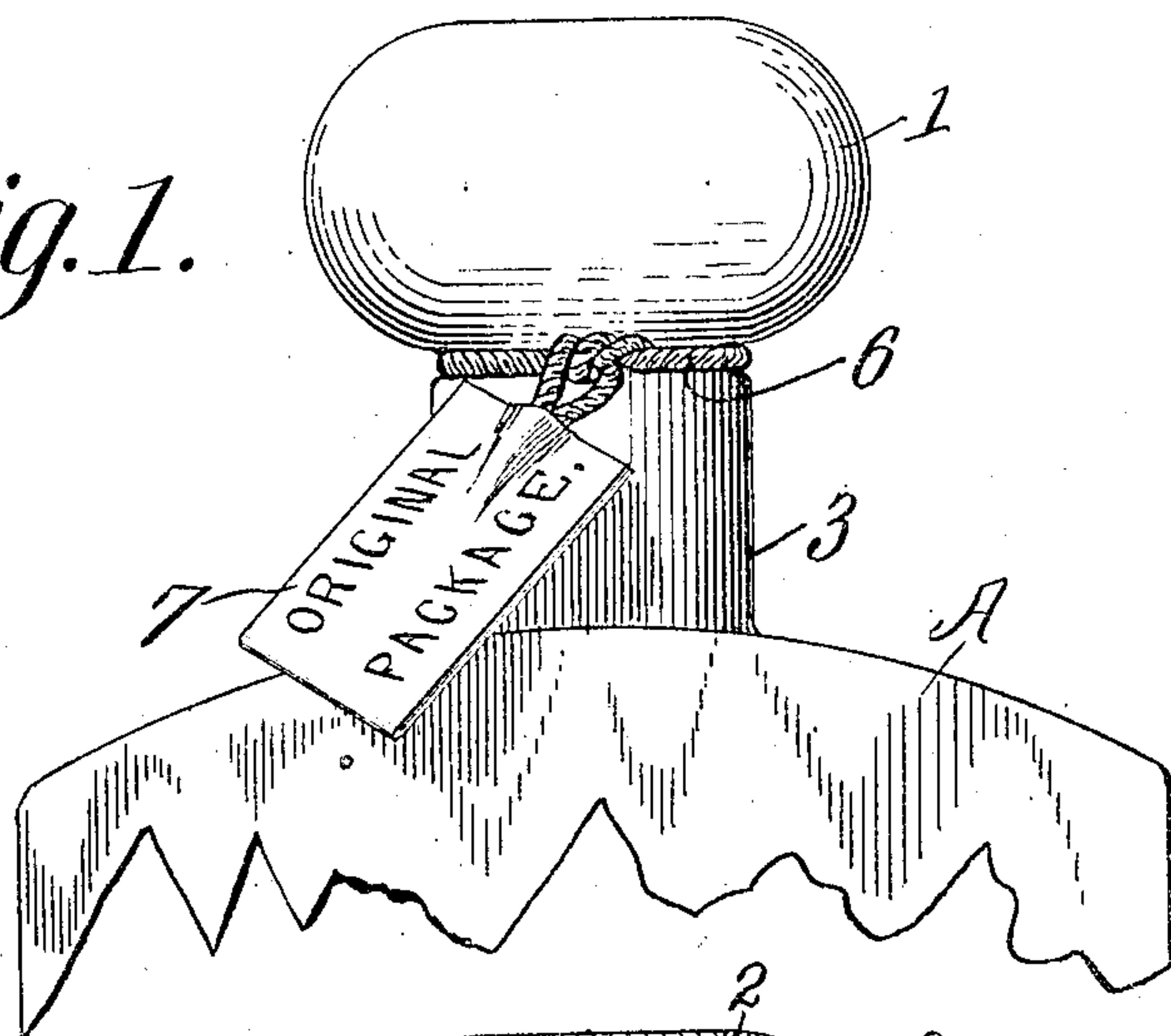
PATENTED MAY 19, 1908.

F. J. COLMUS.

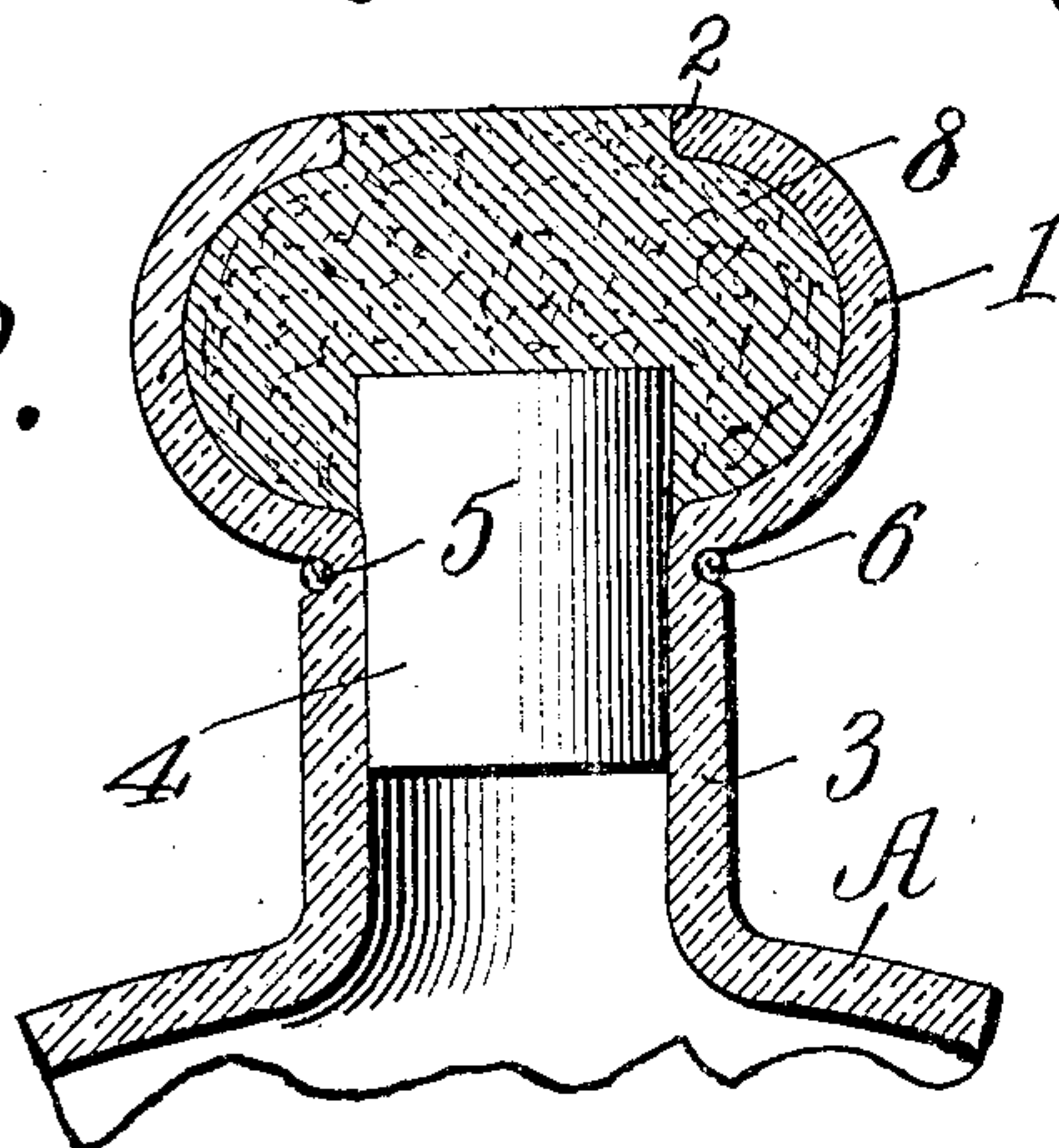
BOTTLE.

APPLICATION FILED JAN. 14, 1908.

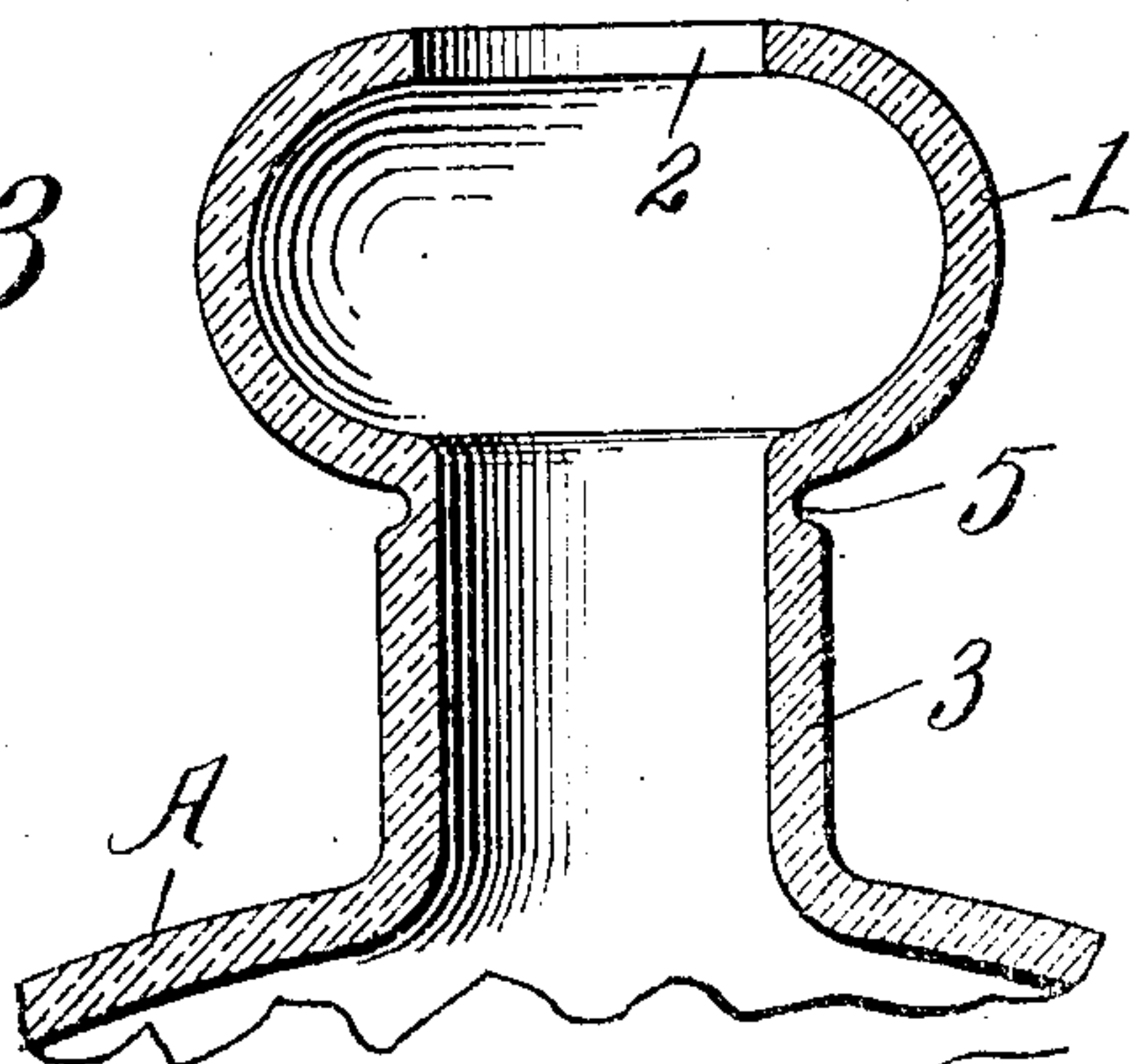
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

Frank B. Wooden.  
E. Walton Brewington.

By

Frank J. Colmus,  
Henry F. Brewington,  
his

Inventor

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# UNITED STATES PATENT OFFICE.

FRANK J. COLMUS, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-THIRD TO HENRY HASCHENBURGER, OF BALTIMORE, MARYLAND.

## BOTTLE.

No. 888,309.

Specification of Letters Patent.

Patented May 19, 1908.

Application filed January 14, 1908. Serial No. 410,717.

*To all whom it may concern:*

Be it known that I, FRANK J. COLMUS, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Bottles, of which the following is a specification.

My invention has relation to means for preventing the further use of a bottle or analogous receptacle after the same has once been opened without detection, thereby throwing about a particular brand of goods a measure of protection which is beneficial to the proprietor and the consumer.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and to the drawings hereto attached in which similar letters and numbers are used to designate like parts in the several views shown therein.

With the foregoing object in view, my invention consists in certain novel features of construction and combination of parts, which will be hereinafter described and pointed out in the claims.

In the accompanying drawings Figure 1 is a side elevation of the invention; Fig. 2 is a section through the bottle neck after having been sealed, and Fig. 3 is a similar view before the bottle is sealed.

The body portion A of the bottle, package or receptacle for receiving the goods may be of any design and size, and is provided with the upper neck 1, having therein the opening 2, and lower neck 3; 4 is the stopper; 5 is an external circumferential groove formed in the wall of the bottle neck, and by reason of the formation of the groove, the wall is considerably reduced in thickness at this point. The groove 5 extends entirely around the neck of the bottle and constitutes a break-line between the parts 1 and 3. By reason of the neck being considerably reduced in thickness by the groove 5, the neck may be easily and readily broken at this point of break-line, by striking the part 1 a smart blow, or subjecting the said part to extraordinary lateral pressure. I have, however, provided a new and more novel means of effectually severing the neck part 1 from the part 3, which will be hereinafter described.

6 is a paraffined cord secured within the external circumferential groove 5, and 7 is a seal for securing the ends of the cord therein; the seal having printed thereon the words "Original package" or other suitable printed matter, signifying that the package has not been tampered with, and that it contains the original contents, and that the package is intact.

8 is a cementing substance for securing the stopper 4 in the bottle neck and to prevent the removal of the said stopper without rendering such removal noticeable; the cement may be made of plaster of paris, mortar, rosin, or any self setting material or composition of matter, which will preclude the removal of the stopper 4 after the said cement material has become set and hardened.

In order that the cement material may be held within the bottle neck and rendered practically non-removal, I have preferably constructed the part 1 of the neck in bulbous form. This form, however, is not essential to the invention as any other form or shape that will securely retain the cementing material will answer every requirement.

My device is operated as follows: After the bottle or receptacle has been filled the stopper 4 is placed in position in the neck part 3, and enough cement 8 is filled into the neck part 1 to fill it flush with the opening therein provided. The paraffined cord 6 is then secured around the neck in the external circumferential groove 5, the free ends of the cord being secured in the seal 7, the seal 7 being made of inflammable material, such as paper and the like, and the cord 6 rendered inflammable by reason of its being paraffined; by igniting the seal the flame is extended to the cord which will burn in the groove 5, the heat caused by the burning cord will cause the glass to suddenly expand and by reason of this sudden expansion, and by reason of the thickness of the walls of the neck being greatly reduced by the formation of the circumferential groove 5 therein, the neck will readily break and become severed at this point.

By this construction I have provided a new and novel means of rendering the original package unfit for further use without the fact of its having once been used being noticeable.

Having fully described my invention, what



I claim as new and desire to secure by Letters Patent, is:

The combination with a bottle or other vessel, the upper portion of the neck of which  
5 is enlarged and of a bulbous shape forming an oblong-ovate shaped cavity between which and the lower portion of the neck is formed an external circumferential groove extending entirely around the bottle neck thereby  
10 greatly reducing the thickness of the walls of the said bottle neck, and forming a break-line between the upper and lower neck portions, of a stopper secured in the lower neck portion, the said oblong-ovate shaped cavity  
15 above the cork being filled with cement or other suitable material, a paraffined cord

extending around the said neck and secured within the said external circumferential groove, and a paper seal having the free ends of the said cord secured therein, the said seal  
20 adapted to be ignited and thereby extend the flame to the said cord, thereby causing the said upper neck part to become severed from the said lower neck part, substantially as described.  
25

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

FRANK J. COLMUS.

Witnesses:

E. WALTON BREWINGTON,  
MARY M. MAGRAW.