

J. M. ANSTEAD & H. BOLLMAN.
BOTTLE AND STOPPER THEREFOR.
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944,166.

Patented Dec. 21, 1909.

Fig. 1.

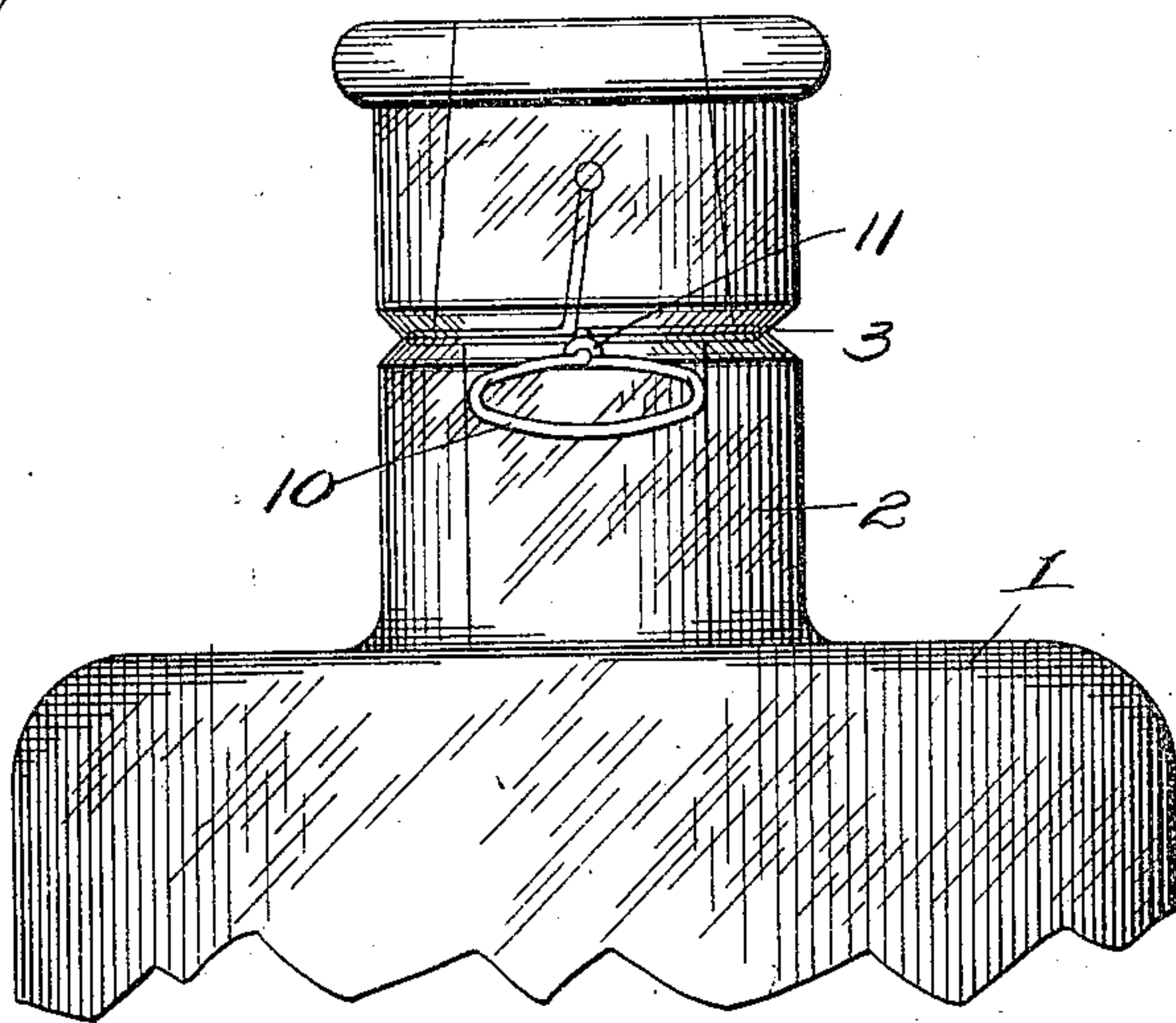


Fig. 2.

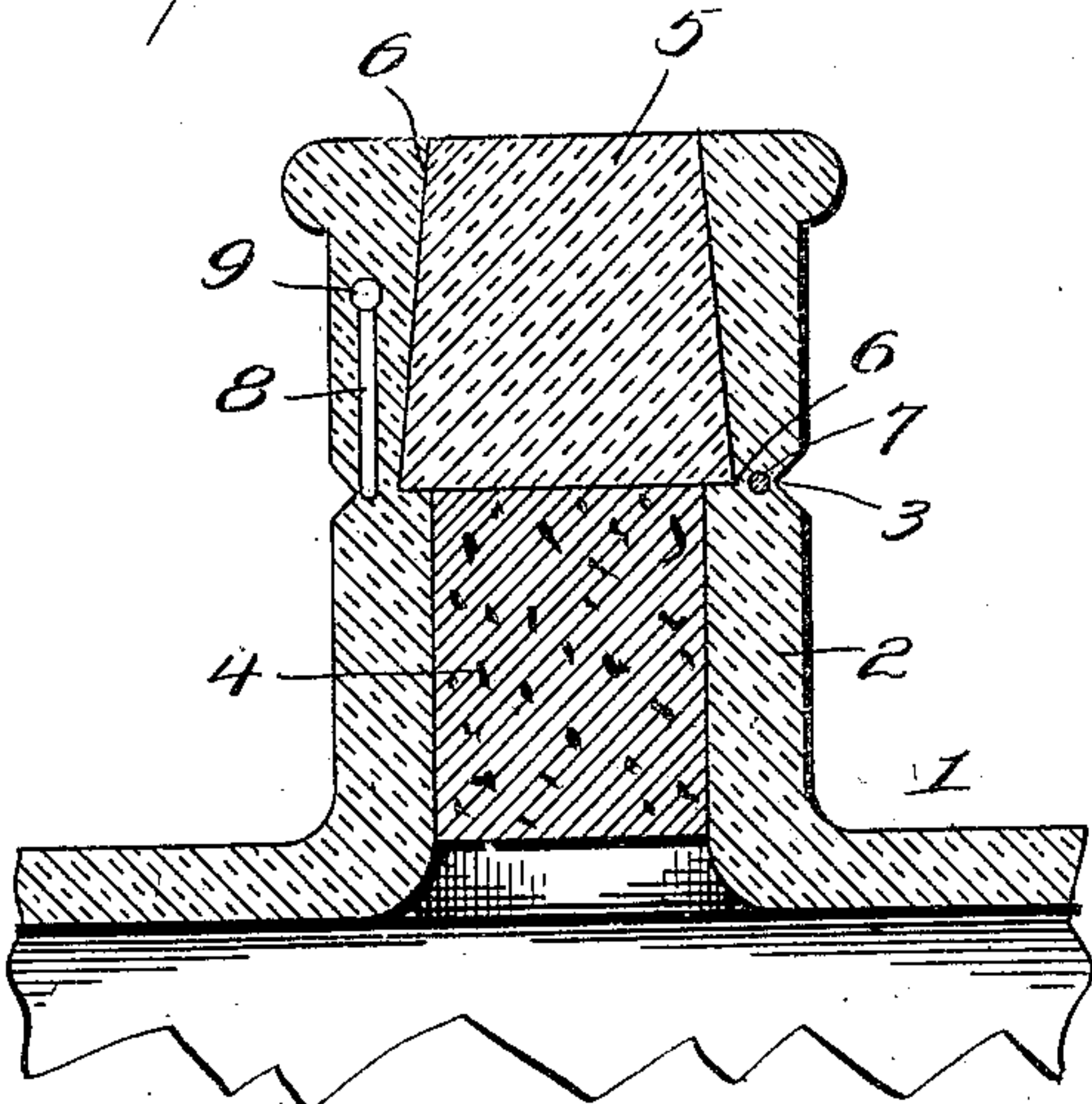


Fig. 3.

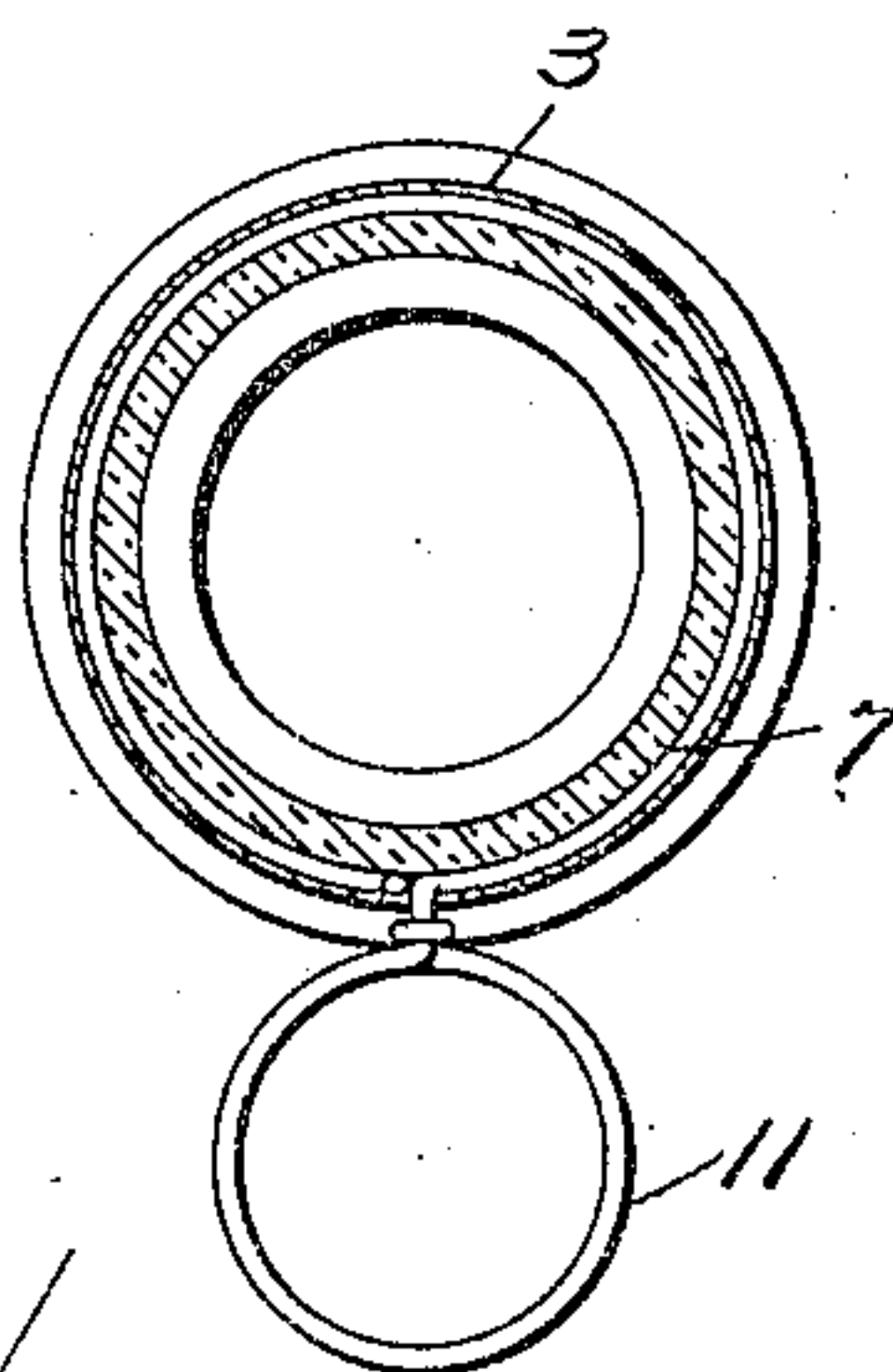
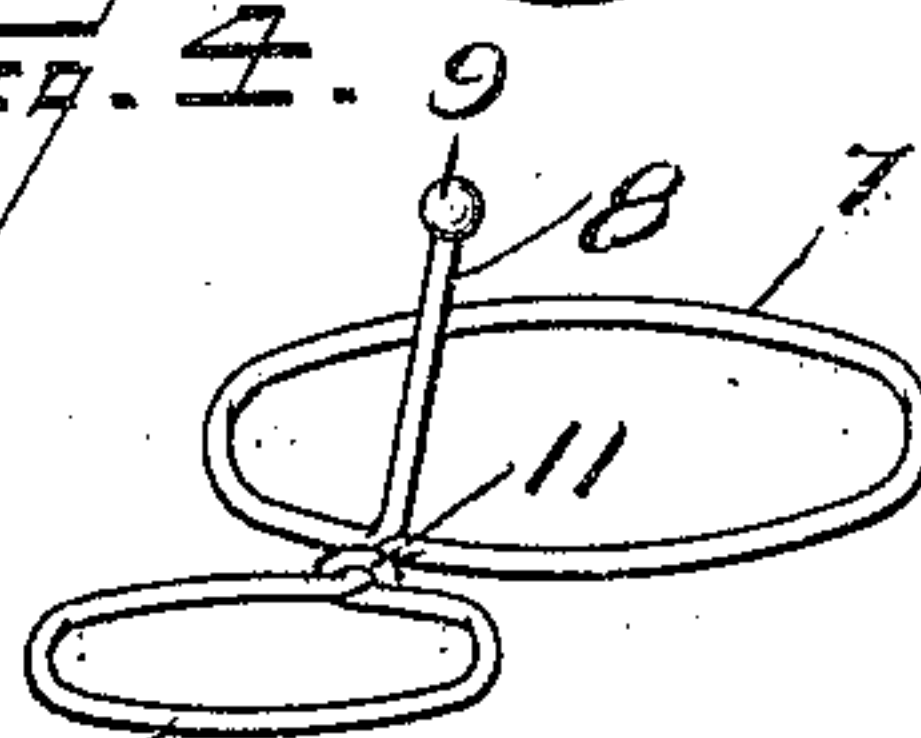


Fig. 4.



Witnesses

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BOTTLE AND STOPPER THEREFOR.

944,166.

Specification of Letters Patent.

Patented Dec. 21, 1909.

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To all whom it may concern:

Be it known that we, JOSEPH M. ANSTEAD and HENRY BOLLMAN, citizens of the United States of America, residing at Fort Meade, in the county of Meade and State of South Dakota, have invented new and useful Improvements in Bottles and Stoppers Therefor, of which the following is a specification.

This invention relates to bottles and stoppers therefor, and one of the principal objects of the same is to provide a bottle of simple construction in which there is provided means for indicating when the bottle has been opened for gaining access to the contents thereof.

Another object of the invention is to provide means for closing the mouth of the bottle and to provide means for detaching the end of the bottle neck to give access to the contents of the bottle and to indicate that the bottle has been opened.

Another object of the invention is to provide a wire opener partially embedded within the neck of the bottle and having a loop for detaching the upper portion of the bottle neck when it is desired to give access to the contents of the bottle.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation of the upper portion of a bottle made in accordance with the invention. Fig. 2 is a vertical sectional view through the neck of the bottle and through the stoppers therein. Fig. 3 is a horizontal section through the neck of the bottle in line with the breaking groove. Fig. 4 is a detail perspective view of the wire opener detached from the bottle.

Referring to the drawing, the numeral 1 designates an ordinary bottle which may be of any desired shape or size, said bottle being provided with a neck 2 having at a point nearly central thereof a breaking groove 3 formed in the outer wall thereof. In the lower portion of the neck of the bottle a suitable cork or stopper 4 is placed, and above the cork or stopper 4 is a plug 5 which may be formed of untempered glass or any suitable plastic material which would harden and set after being placed in the mouth of the bottle. As shown, the plug 5 is larger at the bottom than at the top, and the bottle neck is provided with a shoulder 6 upon which the lower end of the plug 5 rests. It is to be noted that the lower end

of the plug 5 is substantially in line with the breaking groove 3 in the bottle neck.

The wire opener consists of a strand of wire forming a ring 7 which is embedded within the bottle neck in line with the groove 3, or in some instances the ring 7 may be merely held in the groove 3 by means of a suitable plastic compound or material, like wax. To hold the ring 7 firmly in place in the bottle neck the end of the wire is bent upward in the form of a shank 8 having an enlarged ball or head 9. Extending outward from the ring 7 is a finger hold 10 in the form of a loop or ring, and the inner end of said loop is bent around the wire, as shown at 11.

To open the bottle and to gain access to the contents thereof it is necessary to twist the finger hold 10 to break the neck upon the line of the groove 3, thus removing the upper part of the neck and the plug 5. The cork or stopper 4 may then be withdrawn, and the contents of the bottle dispensed. After the bottle has been once opened it cannot be refilled without detection for the reason that the bottle having the upper portion of its neck removed will indicate the fact that it has been opened.

A bottle made in accordance with this invention is simple in construction, may be quickly filled and sealed and cannot be refilled without detection.

Having thus described the invention, what is claimed as new, is:—

The herein described bottle provided with a neck portion having a breaking groove therein, a shoulder on the inner side of the neck in line with said groove, the opening in the neck from said shoulder to the bottle body being of equal diameter from end to end and fitted with a cork stopper, the opening in the outer portion of the neck being larger at the shoulder than at the mouth of the bottle, a plug fitted within said opening, and a wire opener embedded in the neck of the bottle in line with the breaking groove, said opener having a finger loop extending outside the bottle neck.

In testimony whereof we affix our signatures in presence of two witnesses.

JOSEPH M. ANSTEAD.
HENRY BOLLMAN.

Witnesses:

JOHN I. HAIR,
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