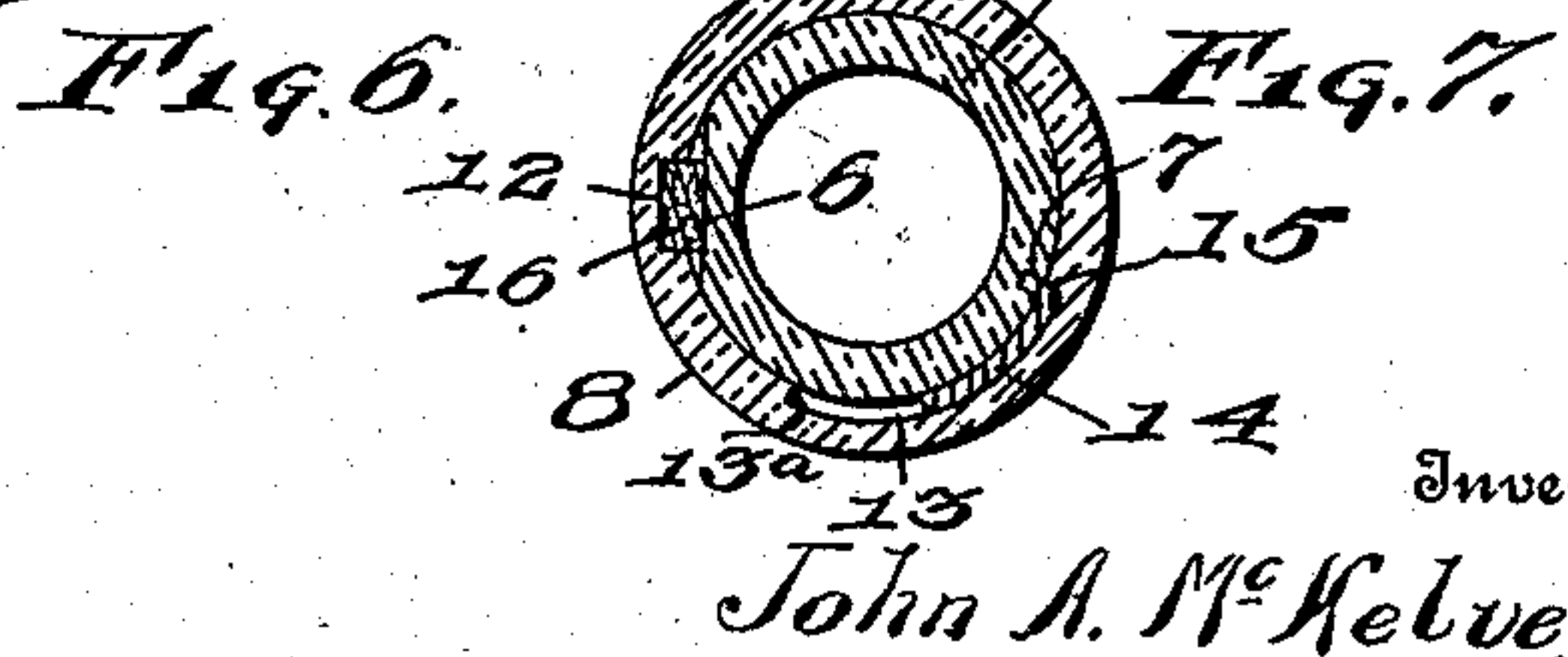
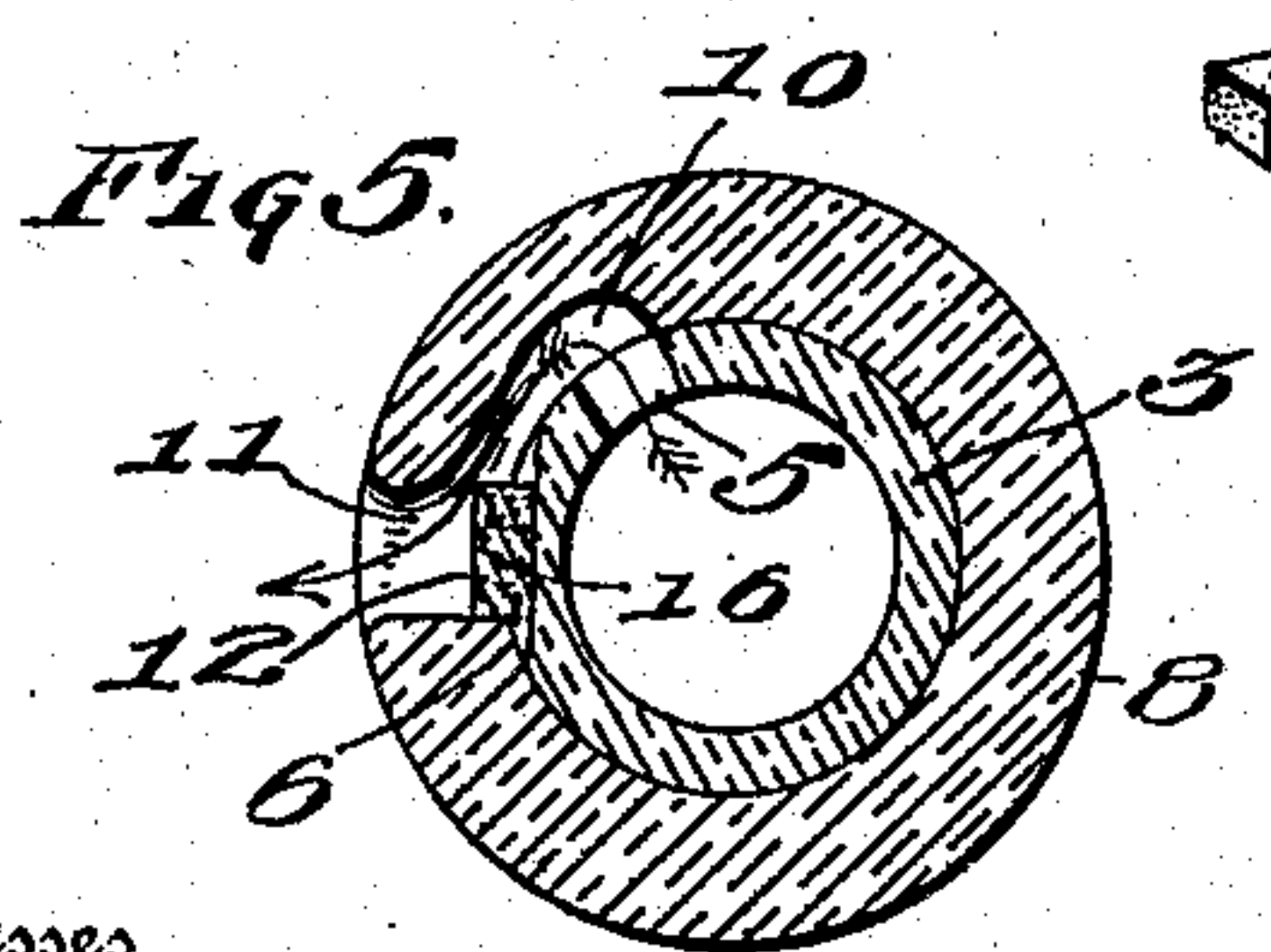
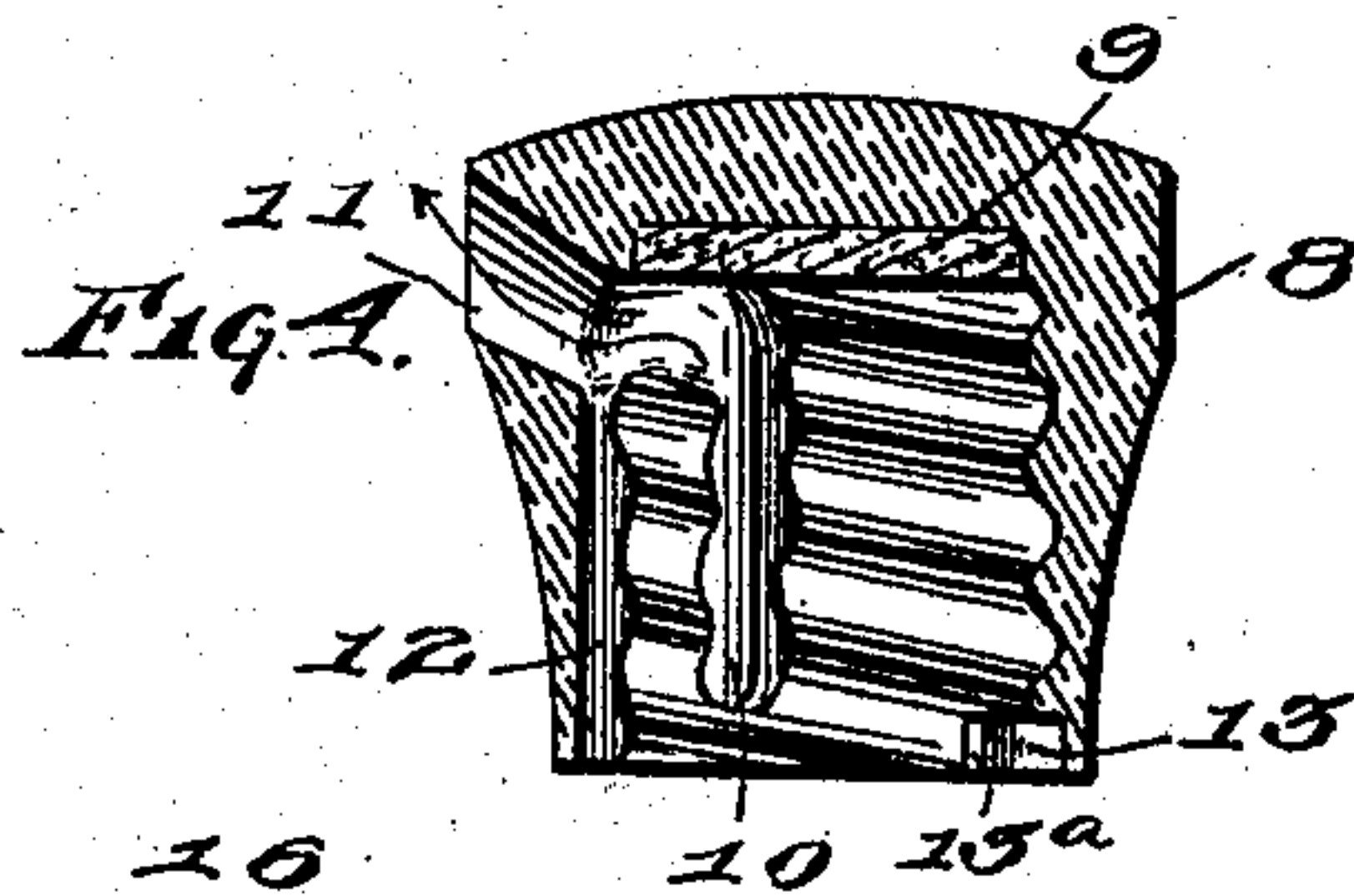
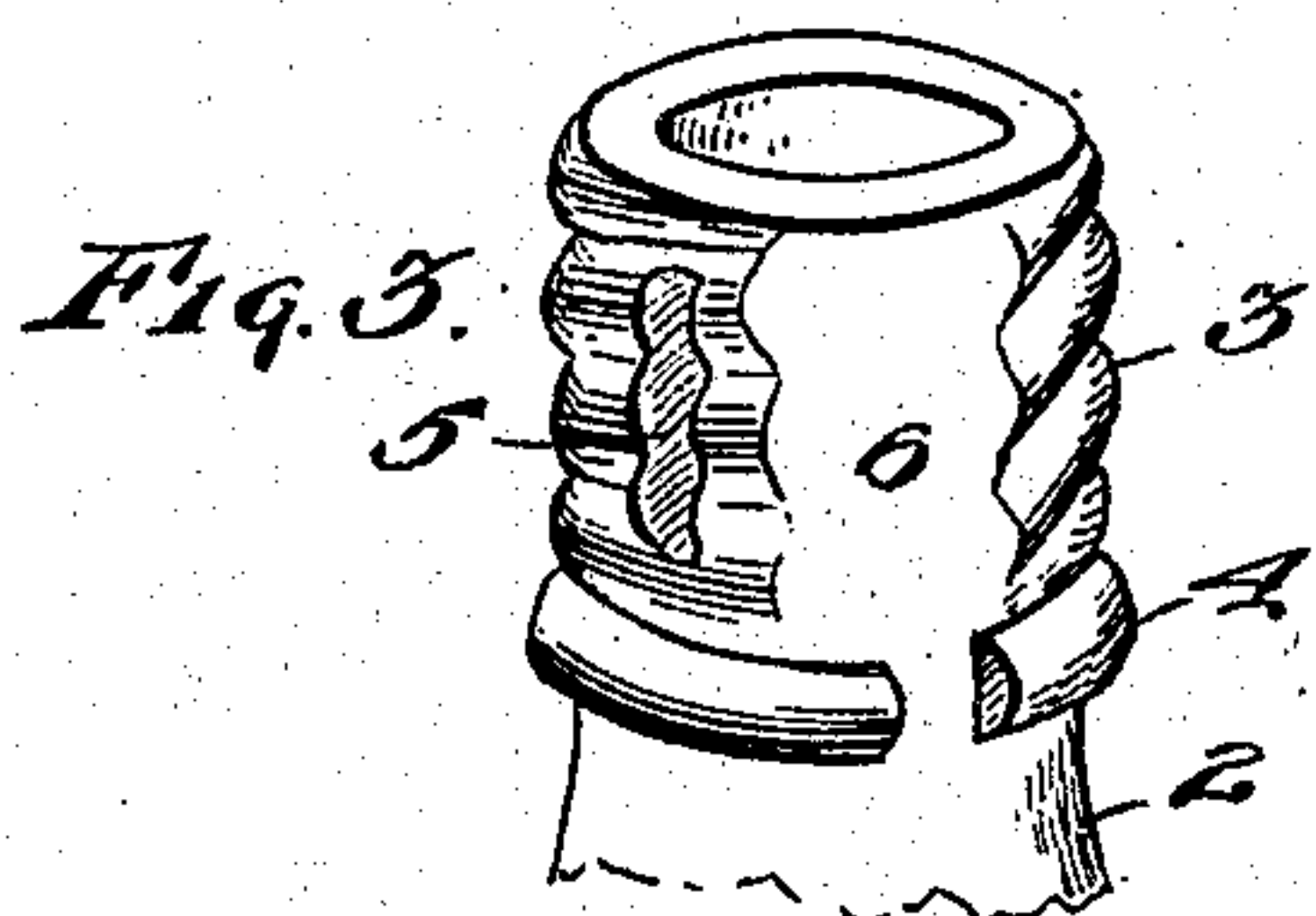
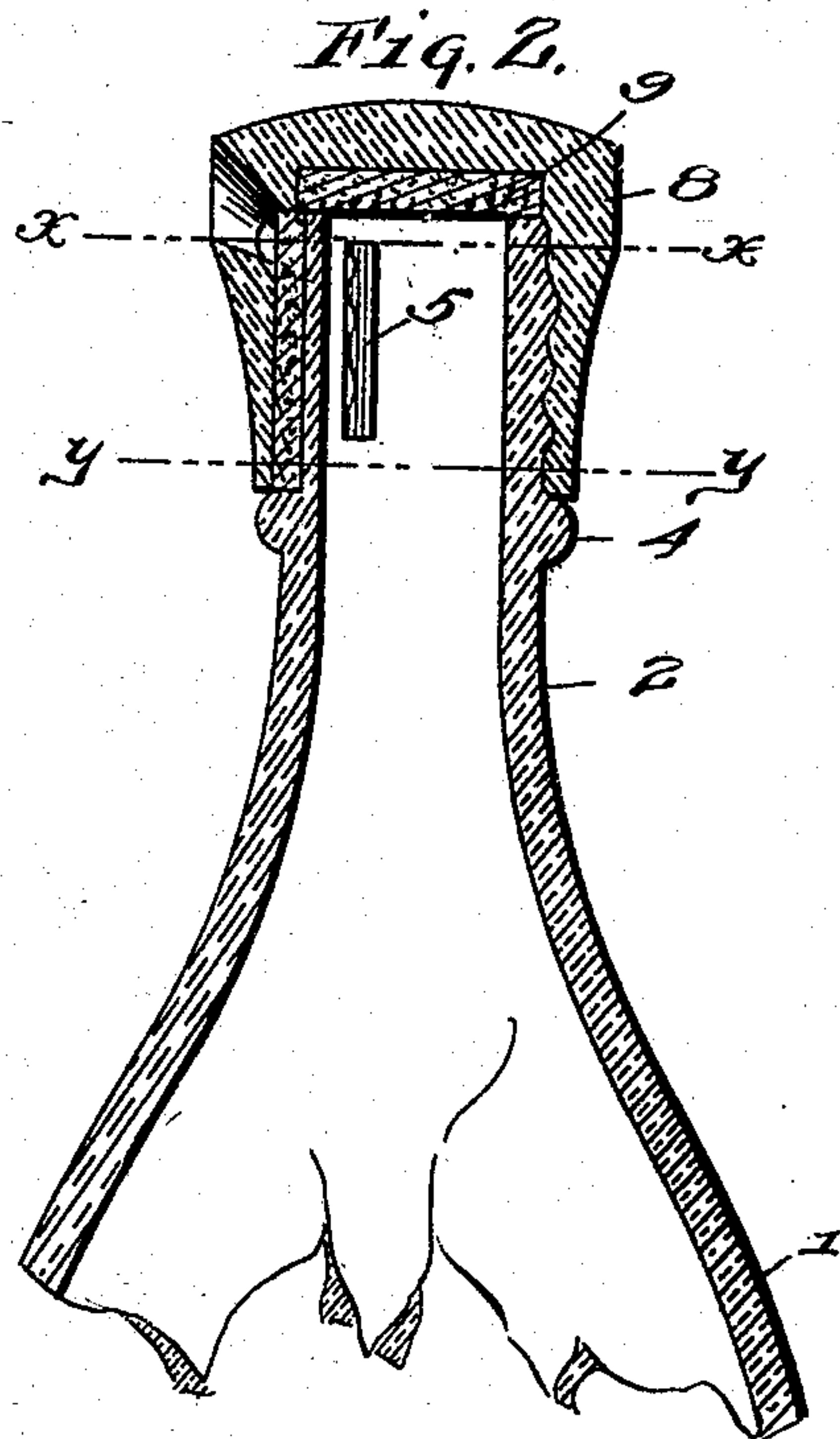
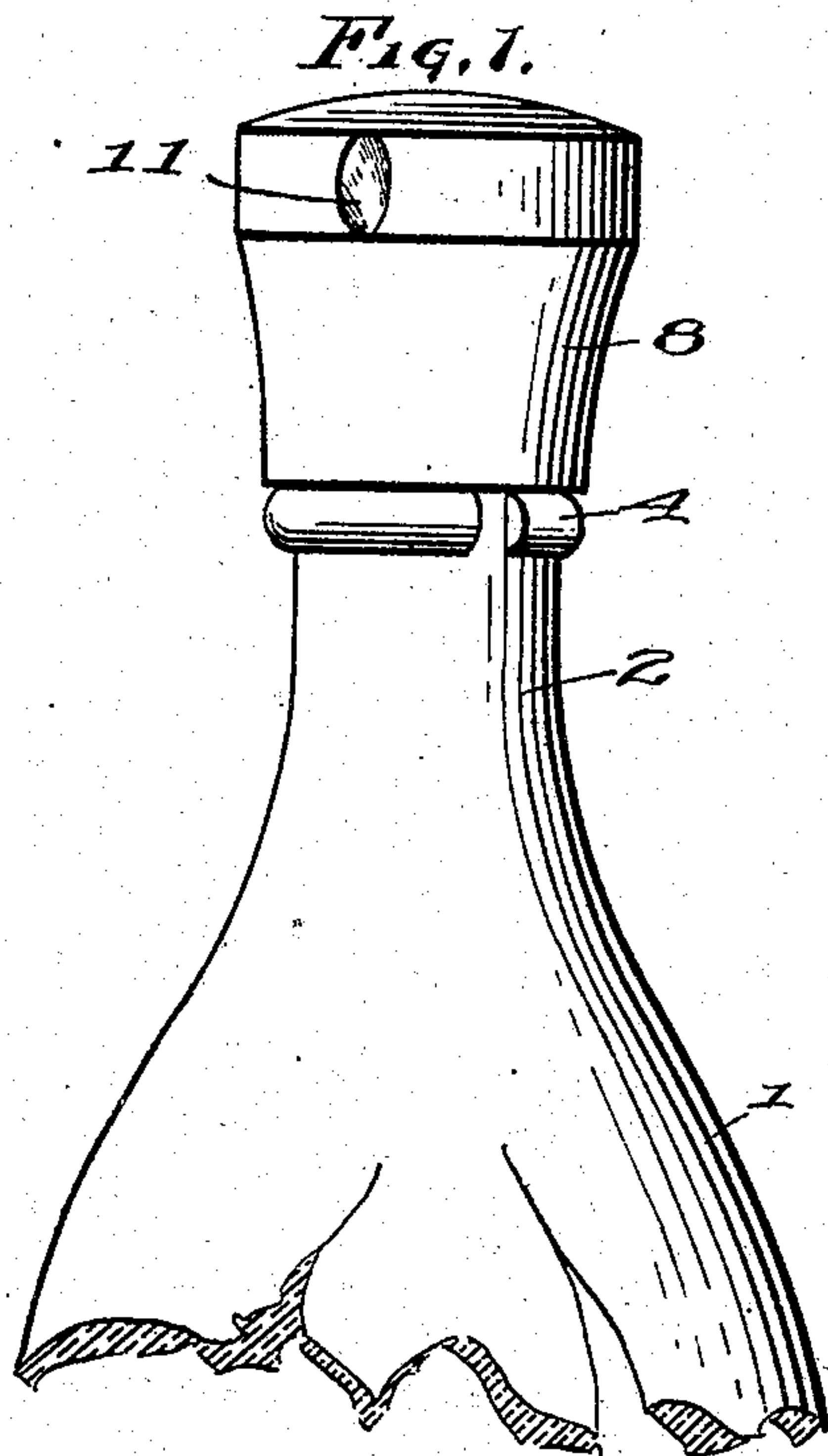


J. A. McKELVEY.  
BOTTLE.

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905,221.

Patented Dec. 1, 1908.



Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN A. McKELVEY, OF PHILADELPHIA, TENNESSEE.

## BOTTLE.

No. 905,221.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed April 1, 1908. Serial No. 424,595.

*To all whom it may concern:*

Be it known that I, JOHN A. McKELVEY, citizen of the United States, residing at Philadelphia, in the county of Loudon and State of Tennessee, have invented certain new and useful Improvements in Bottles, of which the following is a specification.

This invention contemplates certain new and useful improvements in bottles, and aims to provide a bottle which may not be conveniently refilled after the contents have been removed therefrom, and the object of the invention is an improved cap which is designed to be permanently mounted upon the neck of a peculiarly formed bottle, and which may be readily operated to effectually close the mouth of the bottle, or to permit the contents of the bottle to escape freely therefrom.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and then point out the novel features thereof in the appended claims.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a view in elevation of the upper portion of my improved bottle; Fig. 2 is a vertical section thereof; Fig. 3 is a detail view in perspective of the rim of the bottle; Fig. 4 is a longitudinal section of the cap; Fig. 5 is a section on the line  $x-x$  of Fig. 2; Fig. 6 is a detail view in perspective of the cork stopper; and, Fig. 7 is a section on the line  $y-y$  of Fig. 2.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawing, by the same reference characters.

Referring to the drawing, the numeral 1 designates a bottle which may be of any desired construction or design, except that it embodies a neck 2 which is formed at its upper end with an exteriorly threaded rim 3 and with an outstanding bead 4 extending transversely therearound at the lower end of the rim. The rim is formed with a longitudinal slot 5 extending therethrough, and is preferably longitudinally flattened near such slot by breaking away the threads, as indicated at 6, the bead 4 being cut away in alinement with the flattened portion, as

shown. The rim 3 is also formed just above the bead 4 and on the opposite side from the slot and the flattened portion, with an outwardly opening socket 7, shown in Fig. 7.

A cap 8 is designed to inclose the upper end of the neck 2 after the bottle has been filled, and is interiorly threaded so that it may be readily mounted upon said neck and engaged with the threads of the rim, said cap being preferably provided at its upper end with an ordinary cork lining 9 arranged to bear against the upper end of the neck 2 to form a tight joint therewith. This cap is formed in its inner surface with a longitudinal channel 10 which is arranged, in one position of the cap, to be brought into alinement with the slot 5 in the rim, the upper end of said channel being preferably curved and communicating with the opening 11 extending through the upper end of the cap, as shown. The cap is also formed in its inner surface with a transverse recess 13 extending partially therearound at the lower end of the cap, the ends of said recess being preferably abrupt and forming opposing shoulders 13<sup>a</sup>. This recess 13 is designed to receive a keeper 14 which is inserted therein just before the lower end of the cap is screwed against the bead 4, and which is subsequently retained in the recess by such bead. This keeper is formed at one end with an inwardly disposed spring tongue 15 that is arranged, when the cap has been screwed into position, to snap into the outwardly opening socket 7 in the rim 3, to prevent the cap from being disengaged therefrom. The keeper 14 is shorter than the recess 13, and is adapted to permit a limited rotary movement of the cap upon the neck, the movement in each direction being stopped by one of the shoulders 13<sup>a</sup> abutting against the adjacent end of the keeper. The cap is also formed in its inner surface with a longitudinal groove 12 arranged to register with the flattened portion of the rim, an elongated preferably flat cork stopper 16 being inserted through the cut-away portion of the bead into the space between the flattened portion 6 and the groove 12 and fitting in the latter. This cork is arranged, upon the movement of the cap in one direction, to be carried over the slot 5 to effectually close the latter and seal the bottle.

In the practical use of my improved bottle, the cap 8 is moved into the position in which the channel 10 is in alinement with the



slot 5, to establish communication between the interior of the bottle and the outside of the cap, and the bottle is then tilted to a pouring position, the liquid passing through the slot 5 and the channel 10 and being discharged through the opening 11 into the desired receptacle. When it is desired to close the mouth of the bottle, the cap is moved to the position in which the cork stopper 16 is carried over the slot 5 to close the same and effectually prevent the egress of the liquid from the bottle, or the admission of any dust or other impurities into the latter.

From the above description, in connection with the accompanying drawing, it will be apparent that I have provided a simple, durable and efficient construction of bottle which may be readily and quickly closed or opened, according as desired, and which obviously cannot be conveniently refilled.

Having thus described the invention, what I claim is:

1. The combination with a bottle formed in its neck with a slot, of a cap rotatably mounted on the neck and permanently secured thereon, said cap being formed in its inner surface with a channel and an opening extending therethrough in communication with the channel, said channel being arranged to register with the slot in the neck, said cap being also formed in its inner surface with a groove, and a stopper fitting in the groove and arranged to be carried over the slot to close the same.

2. The combination with a bottle having a neck formed with a longitudinal slot, of a threaded cap arranged to be mounted on the neck and engaged with the threads of the rim, means for permanently securing the cap

upon the neck and permitting its rotation thereon, said cap being formed in its inner surface with a longitudinal channel and with an opening extending therethrough in communication with the channel, the channel being arranged to register with the slot in the rim, said cap being also formed in its inner surface with a longitudinal groove, and a stopper fitting in the groove and arranged to be carried over the slot to close the same.

3. The combination with a bottle having a neck formed with a rim and with an annular bead extending therearound at the lower end of the rim, said rim being formed with a longitudinal slot, of a cap formed in its inner surface with a longitudinal channel and with an opening extending therearound in communication with the channel, said channel being arranged to register with the slot said cap being also formed in its inner surface with a longitudinal groove, said rim being longitudinally flattened in alinement with the groove, and the bead being cut away in alinement with the flattened portion, a stopper arranged to be inserted through the cutaway portion of the bead into the space between the flattened portion of the rim and the groove, said stopper fitting in the groove and being designed to be carried over the slot upon the movement of the cap in one direction, and means for permanently securing the cap upon the neck, to permit its rotation thereon.

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

JOHN A. McKELVEY. [L. S.]

Witnesses:

W. B. SIMPSON,  
EDDA LINEBERRY.