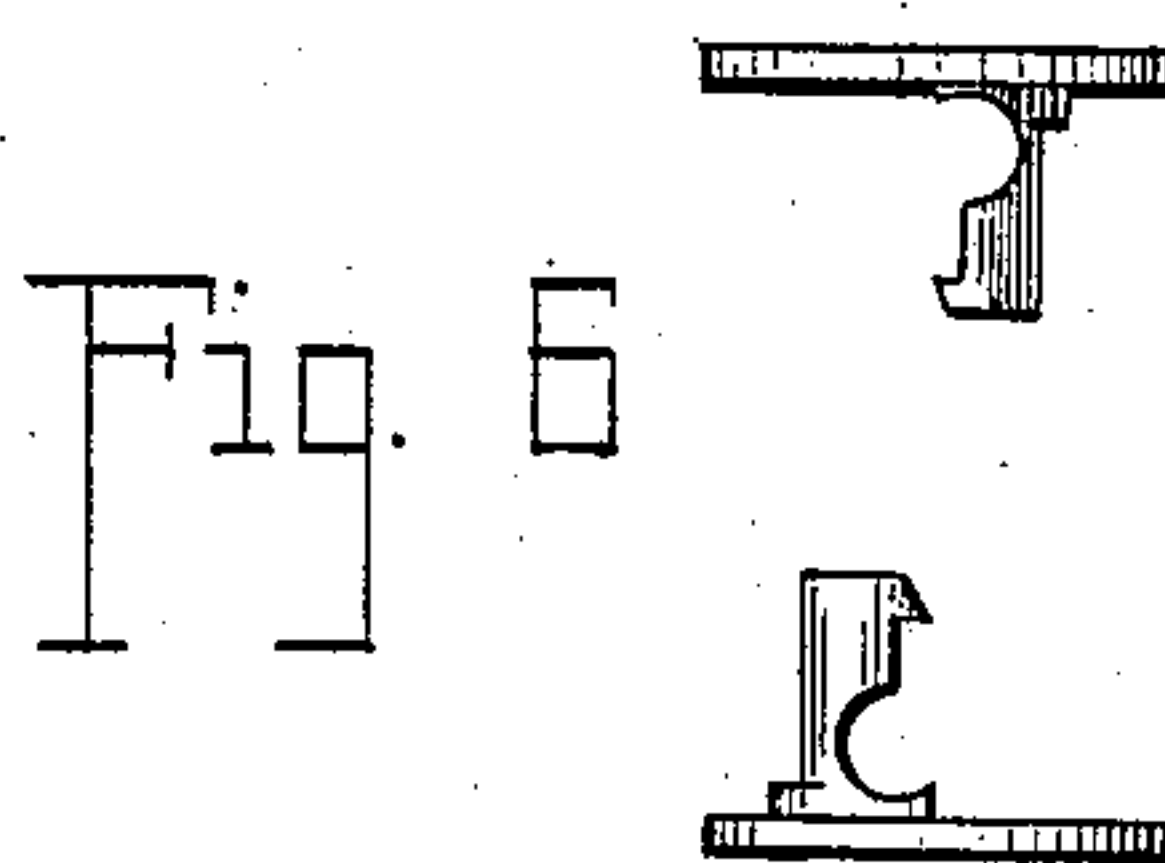
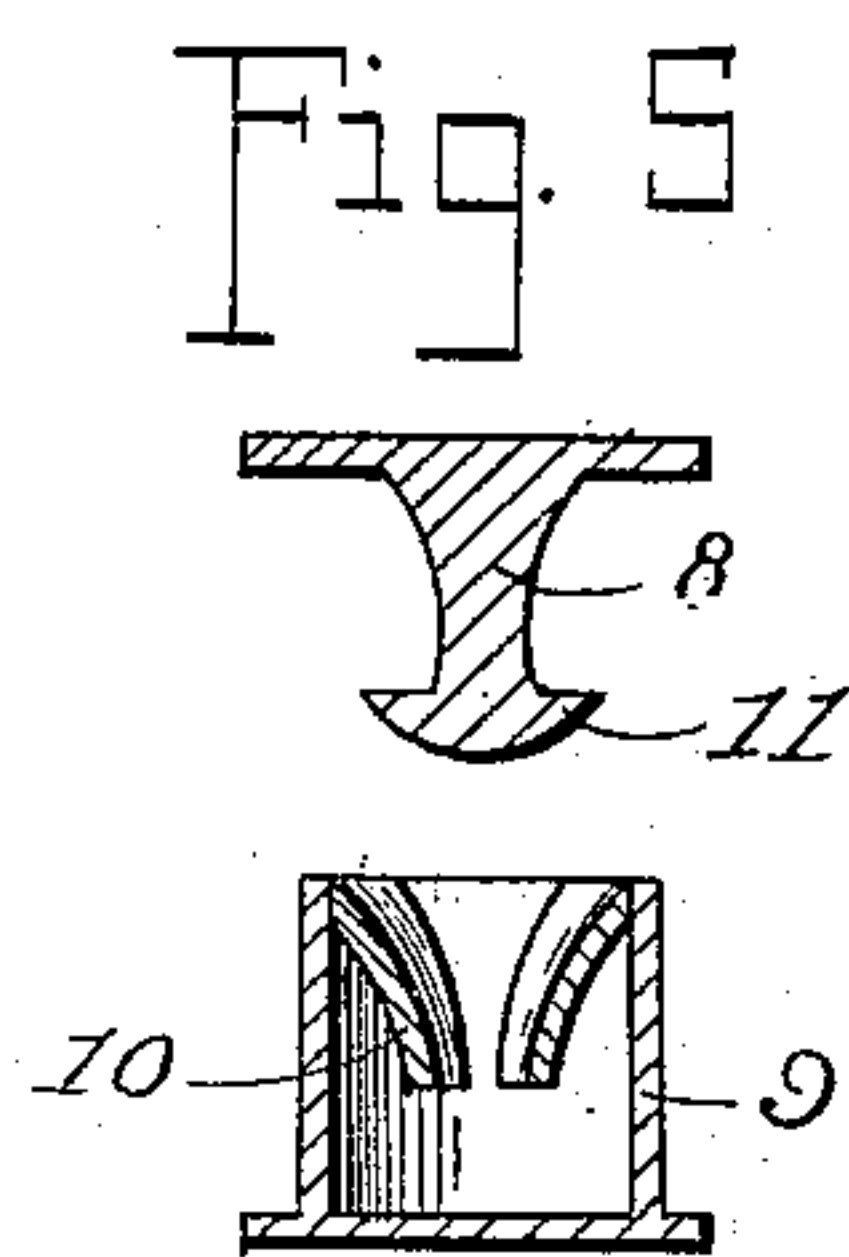
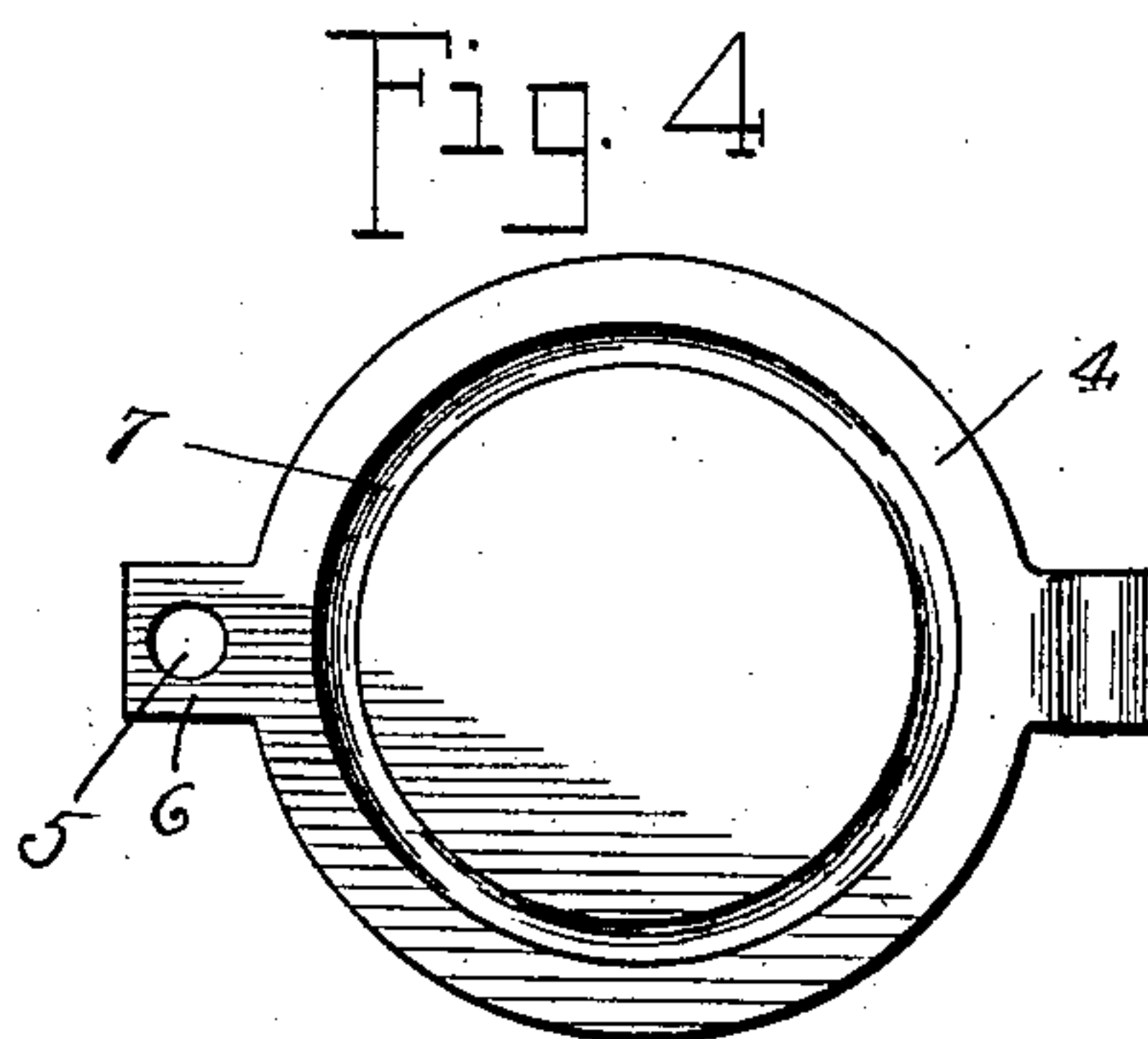
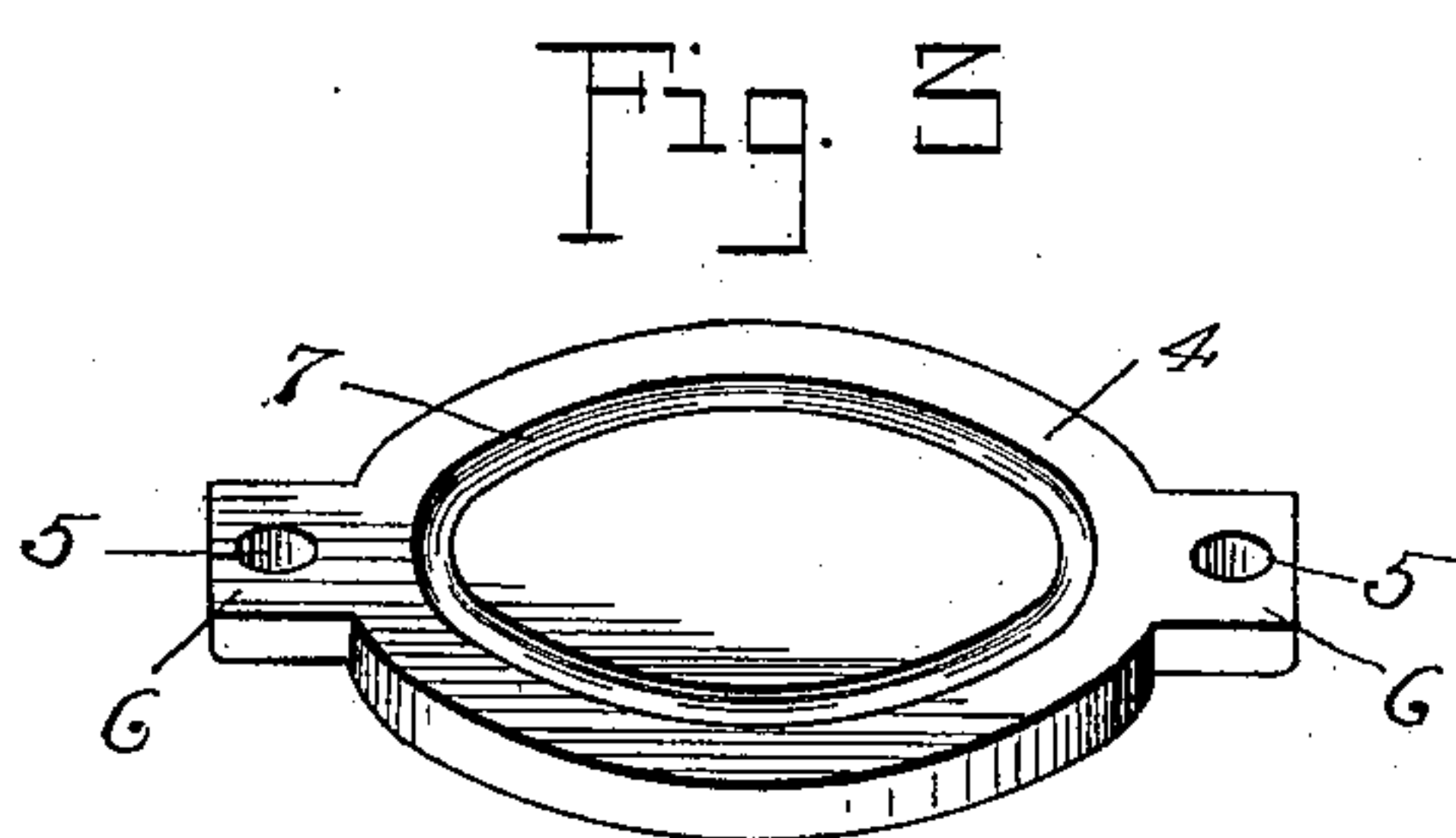
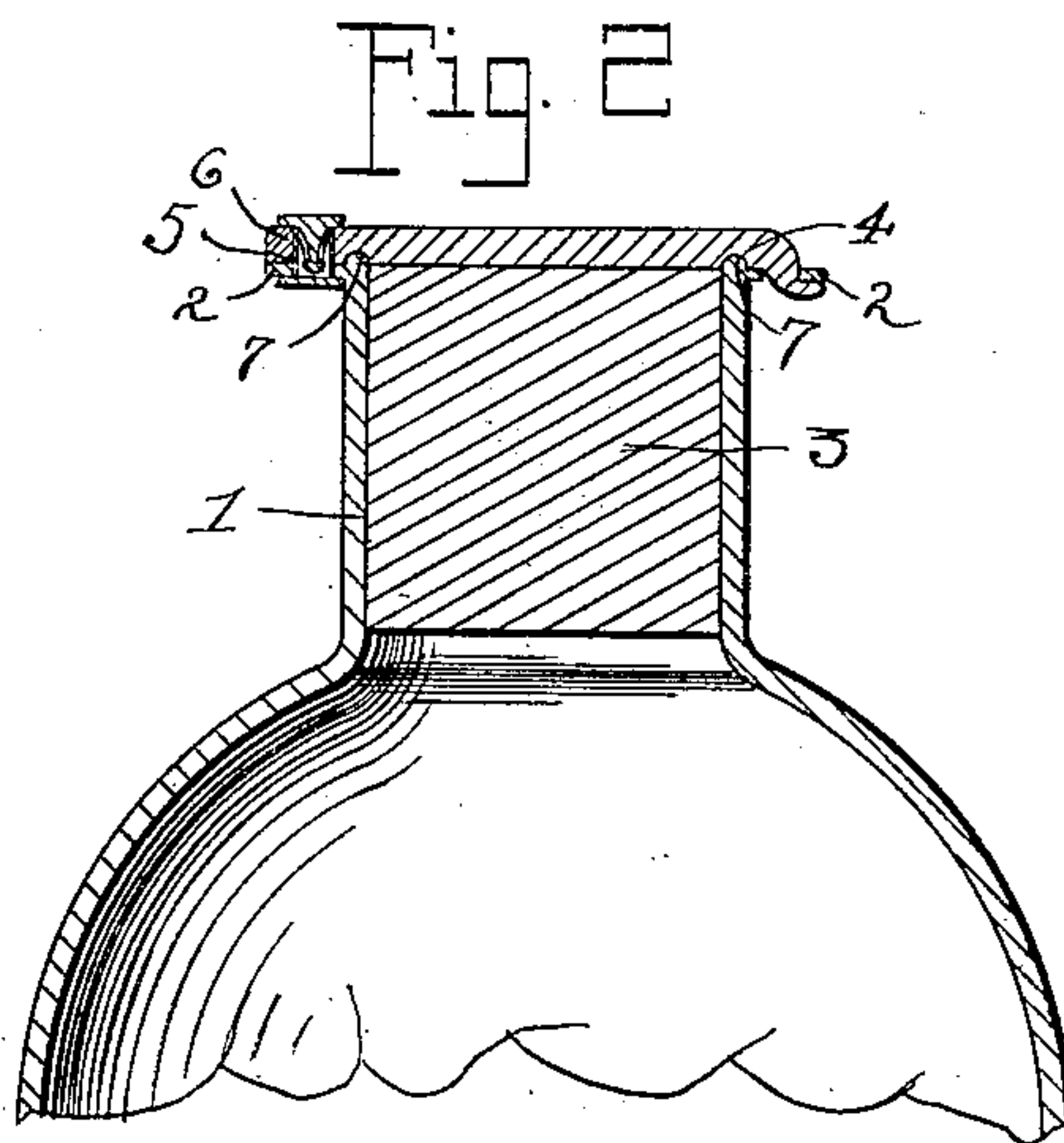
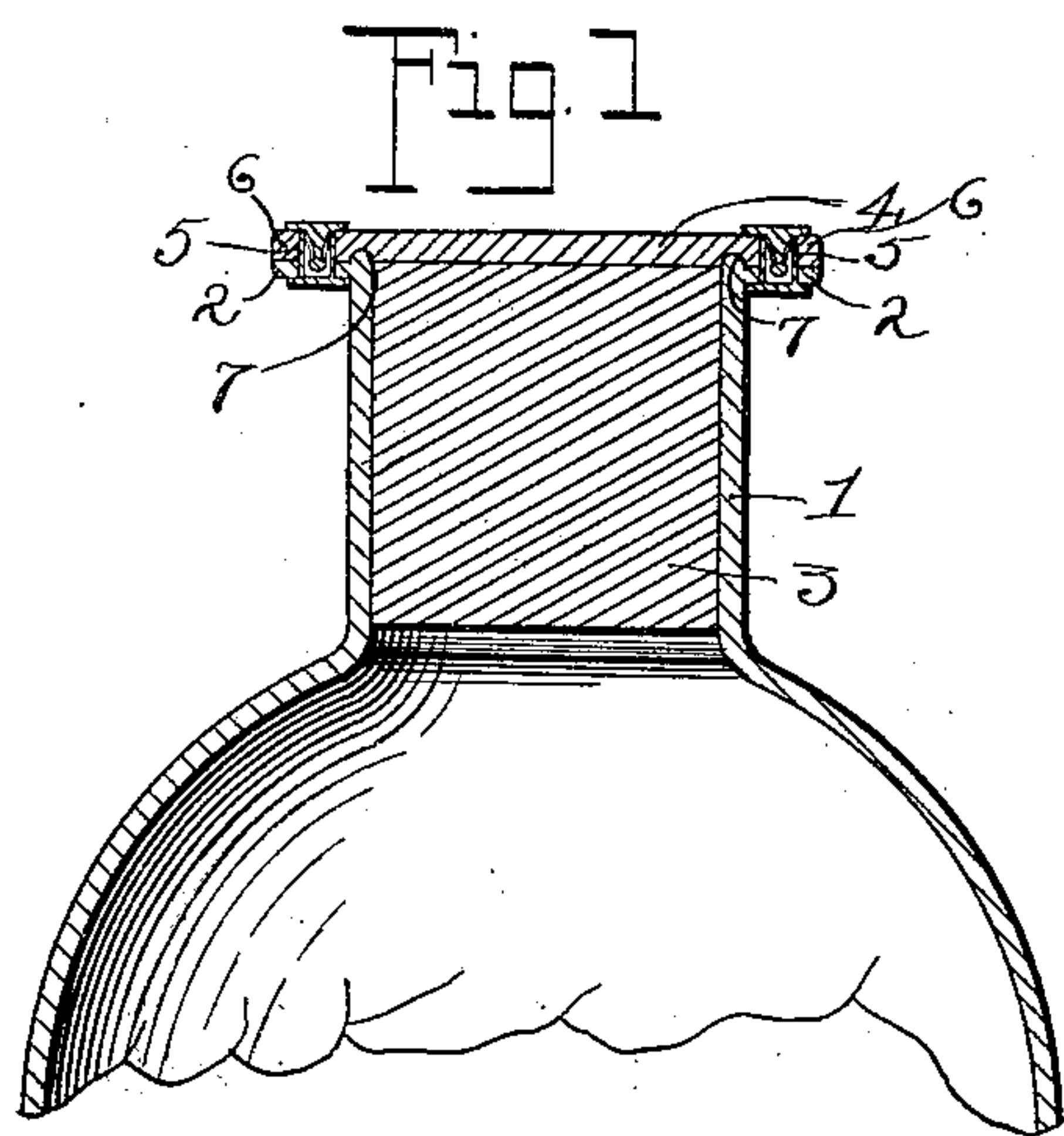


(No Model.)

W. H. YOUNG & J. F. GODLEY.
BOTTLE.

No. 600,108.

Patented Mar. 1, 1898.



Witnesses

J. H. Proply
V. J. Evans

Inventors

Willard H. Young
John F. Godley
By John Wedderburn
Attorney

UNITED STATES PATENT OFFICE.

WILLARD H. YOUNG AND JOHN F. GODLEY, OF TRENTON, NEW JERSEY.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 600,108, dated March 1, 1898.

Application filed July 15, 1897. Serial No. 644,659. (No model.)

To all whom it may concern:

Be it known that we, WILLARD H. YOUNG and JOHN F. GODLEY, of Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Bottles; and we do hereby 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.

The invention relates to a bottle of the so-called "non-refillable" type, in which after the bottle has been once filled and sealed it becomes necessary to break a portion of the bottle in order to remove the seal and cork therefrom, the breakage of a portion of the bottle serving to prevent the refilling of the same without detection after the original contents have been used.

It consists in providing the neck or mouth of the bottle with perforated ears and in the combination therewith of a cap correspondingly perforated and secured to the ears by means of rivets which prevent the removal of the cap without breaking the ears from the mouth or neck of the bottle, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a vertical section through the neck of a bottle, showing the improvement applied. Fig. 2 is a similar view showing a modification in the manner of attaching the cap. Fig. 3 is a bottom perspective view of the cap detached. Fig. 4 is a bottom view showing the cap made in the form of a strap. Fig. 5 is a detail view showing one form of rivet for securing the cap to the ears. Fig. 6 shows a modification in the form of the rivet.

1 indicates the neck of a bottle provided at or near its mouth with oppositely-disposed perforated lugs or ears 2.

3 indicates the cork, and 4 the cap, which may be either of glass or metal and in the circular or disk form shown in Fig. 3 or in the form of a strap, as shown in Fig. 4. This cap is provided on opposite sides, or at its ends where made in the strap form, with perforations 5, through which it is secured to the perforated lugs or ears on the neck of the bottle. Where the cap-plate is made in the disk form shown, it may be provided with oppo-

sitely-disposed lugs or ears conforming to those on the neck of the bottle, as shown at 6, and in either construction of the cap it is provided with a groove 7, conforming to the annular neck or mouth of the bottle, so as to fit snugly over the same for retaining its position thereon.

The rivets indicated in Fig. 5 are made in two parts 8 and 9, the one to telescope within the other, as shown in Fig. 5, the outer or larger portion being provided with inwardly-projecting springs 10, which serve as jaws to grasp and hold the projecting barbs 11 on the inner end or point of the part 8, so that when the two parts are pressed together the spring-jaws 10 engage and hold the jaws 11 and prevent the removal of the rivets from the perforations in the bottle-neck and cap.

In Fig. 6, instead of being made cylindrical in form, the parts of the rivet are shown semi-cylindrical and provided with interlocking hooks or barbs which serve to hold them in place when forced in opposite directions through the perforations in the cap and lugs on the bottle-neck. Where the cap-plate is made of glass, it will be made heavier or thicker than the lugs on the neck of the bottle, so that any blow for the purpose of breaking the cap loose from the neck of the bottle will serve to break the lugs on the bottle-neck instead of breaking the cap.

In Fig. 2 one of the projecting lugs or ears on the cap is shown made in hook form, adapting it to engage the corresponding ear in the neck of the bottle, the opposing lug on the bottle being riveted to the cap by means of the telescoping rivets shown. The form of the rivets, it will be apparent, may be varied, but those shown, in which the rivet is made in two parts with opposing barbs adapted to pass by and interlock in putting the rivets in place, are found to be effective in operation and to effectually secure them from being tampered with when in place for the purpose of removing the cap. The lugs on the neck of the bottle, and also those on the cap conforming thereto, may be differently disposed from those shown so long as the cap is adapted to be firmly riveted to the perforated ears of the neck of the bottle after the bottle has been filled and properly corked. The bottle

itself may be of any usual or preferred form or construction, the formation thereon of the perforated lugs or ears and the securing of the cap thereto by means of rivets which are
5 made so that they cannot be removed after the cap has been secured in place serving to provide a simple and cheap construction of bottle and at the same time one in which the original contents of the bottle cannot be re-
10 moved without breaking either one or both of the perforated ears from the bottle-neck.

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

15 1. The combination with a bottle the neck of which is provided with a perforated lug or ear, of a perforated cap-plate, and a two-part rivet, the parts of which enter from opposite directions and interlock for securing said cap-
20 plate to the bottle, substantially as described.

25 2. The combination in a bottle, of the neck provided with oppositely-disposed lugs or ears, a grooved and perforated cap-plate for engaging and covering the mouth of the bottle, and a two-part rivet, the parts of which are adapted to be engaged by pressure for se-

curing the cap-plate to the bottle, substantially as described.

3. In a non-refillable bottle, the neck of the bottle provided with perforated, oppositely- 30 disposed lugs or ears, a cap-plate having a hook projection for engaging one of said ears, and a two-part rivet for connecting the opposite ear of the bottle with the cap-plate, substantially as described. 35

4. In a bottle provided on its neck with oppositely-disposed lugs or ears, one of which is perforated, the combination therewith of a perforated cap-plate for covering the mouth of said neck, and a two-part rivet, the parts 40 of which are arranged to pass by and to engage each other by means of hooks or barbs formed thereon for uniting the cap-plate to the bottle, substantially as described.

In testimony whereof we have signed this 45 specification in the presence of two subscribing witnesses.

WILLARD H. YOUNG.
JOHN F. GODLEY.

Witnesses:

THEO. C. MAPLE,
W. O. LAWRENCE.