

(No Model.)

2 Sheets—Sheet 1.

A. L. ELDER.
SAFETY SEAL FOR BOTTLES.

No. 603,559.

Patented May 3, 1898.

Fig. 1.

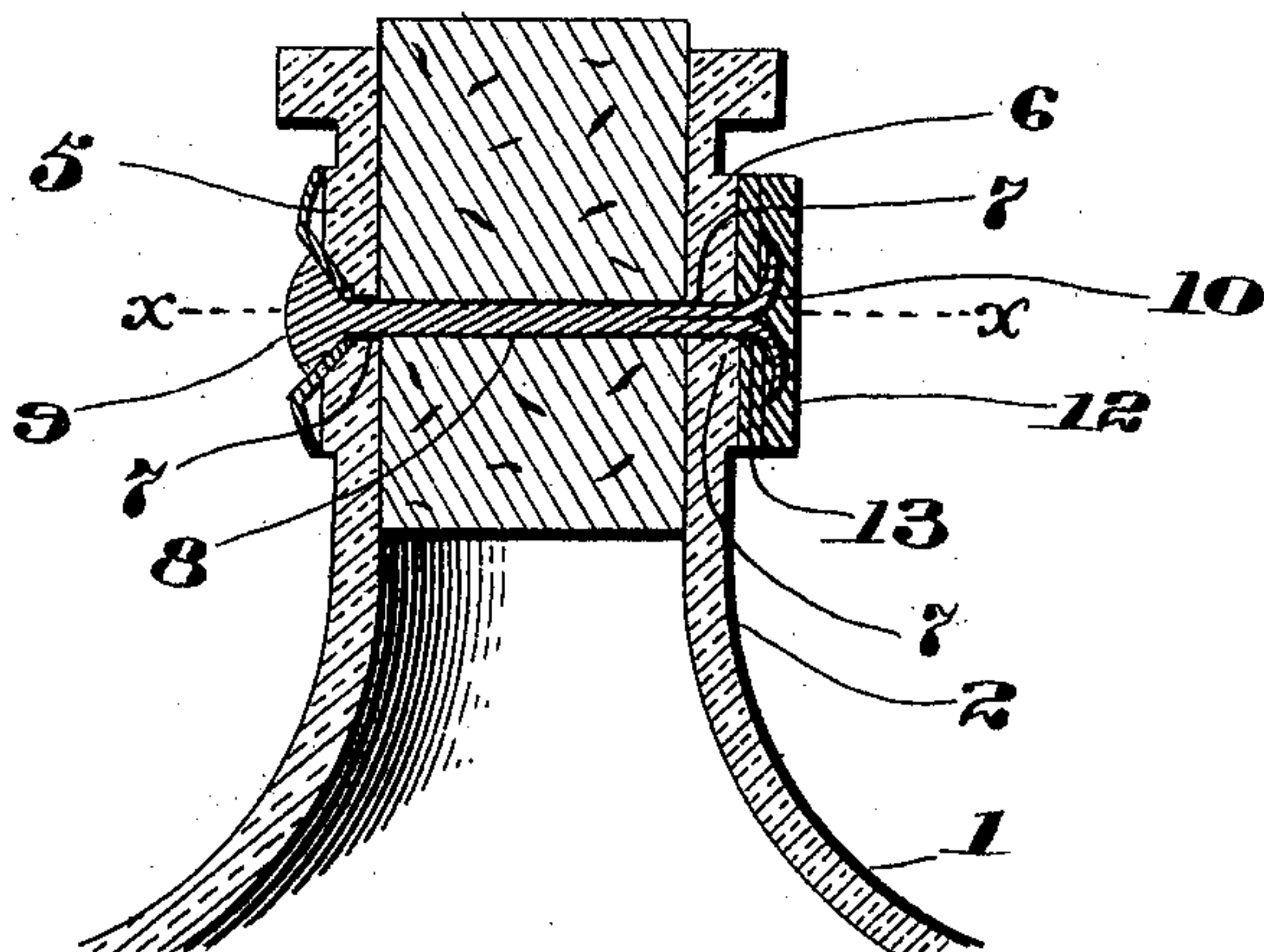


Fig. 2.

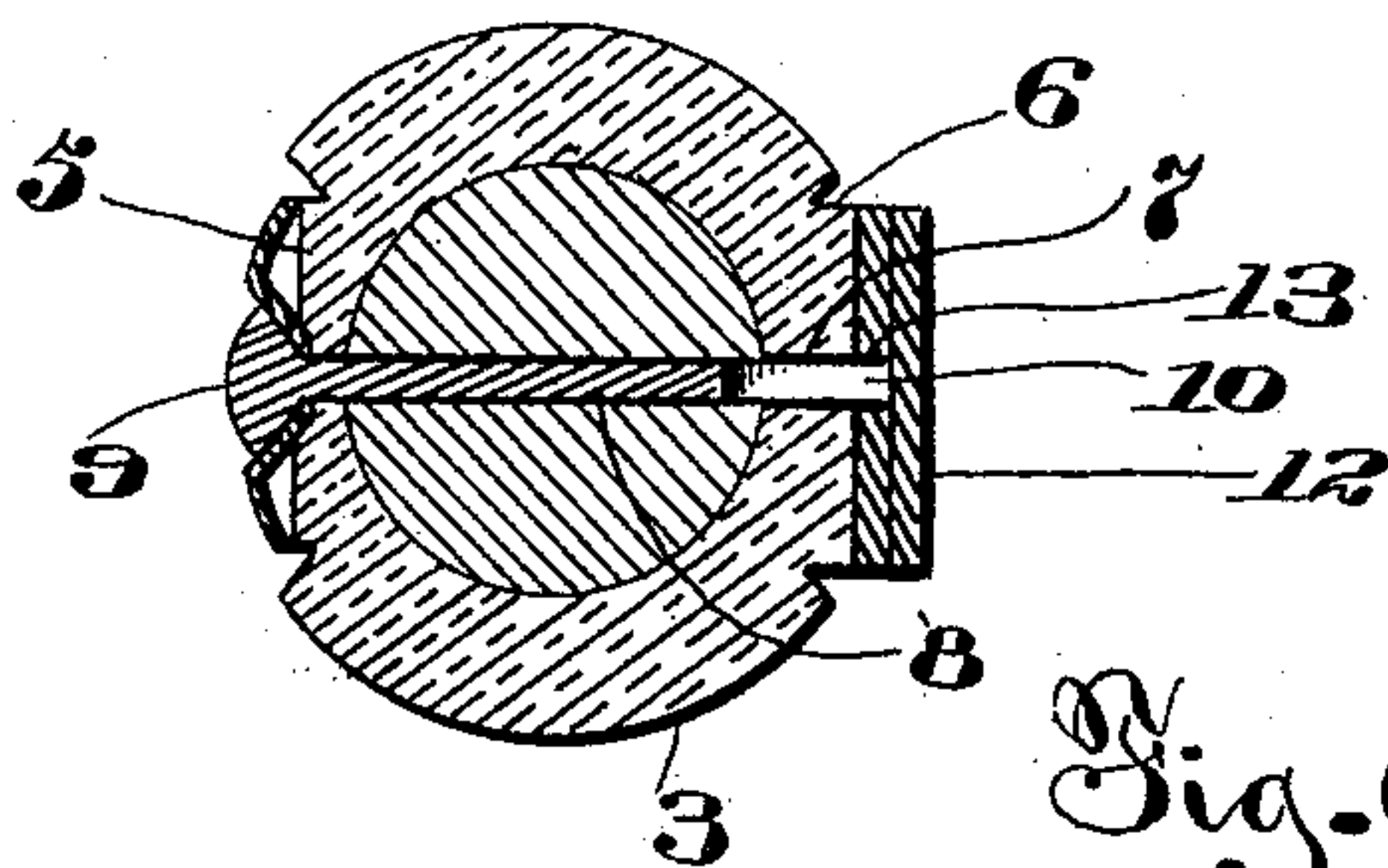


Fig. 3.

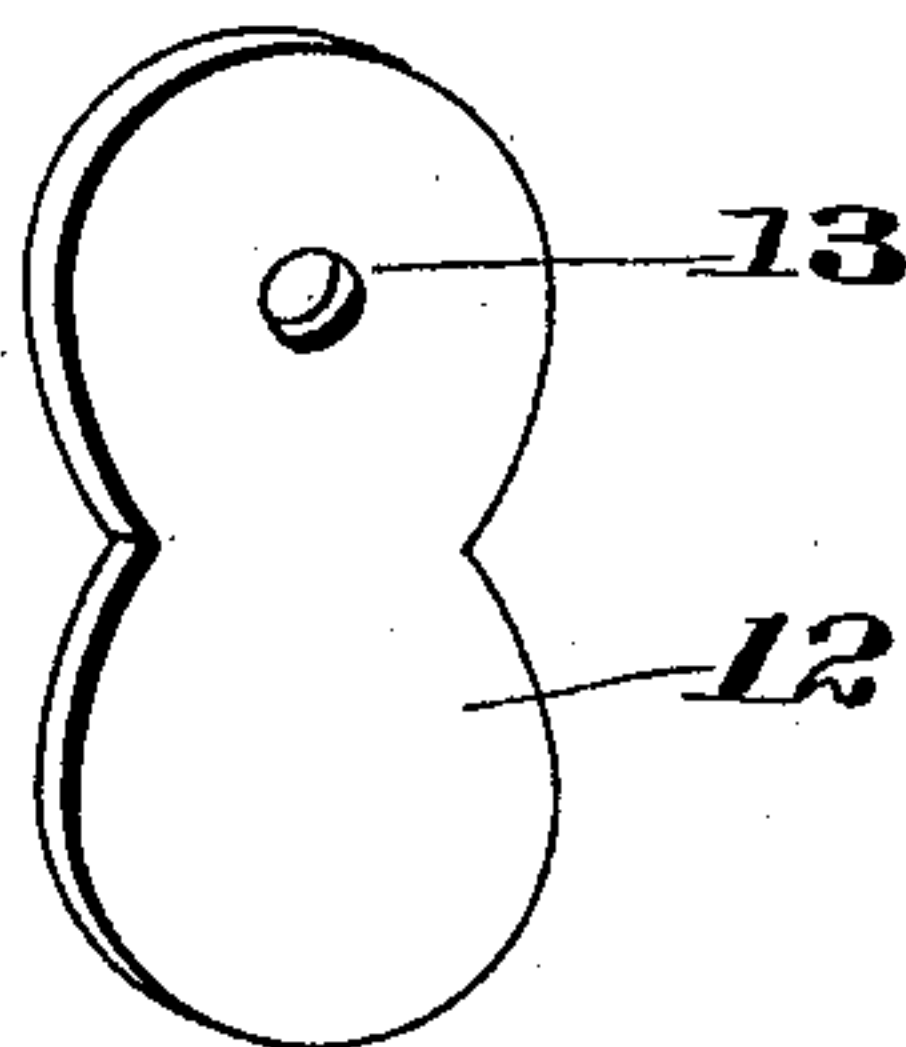
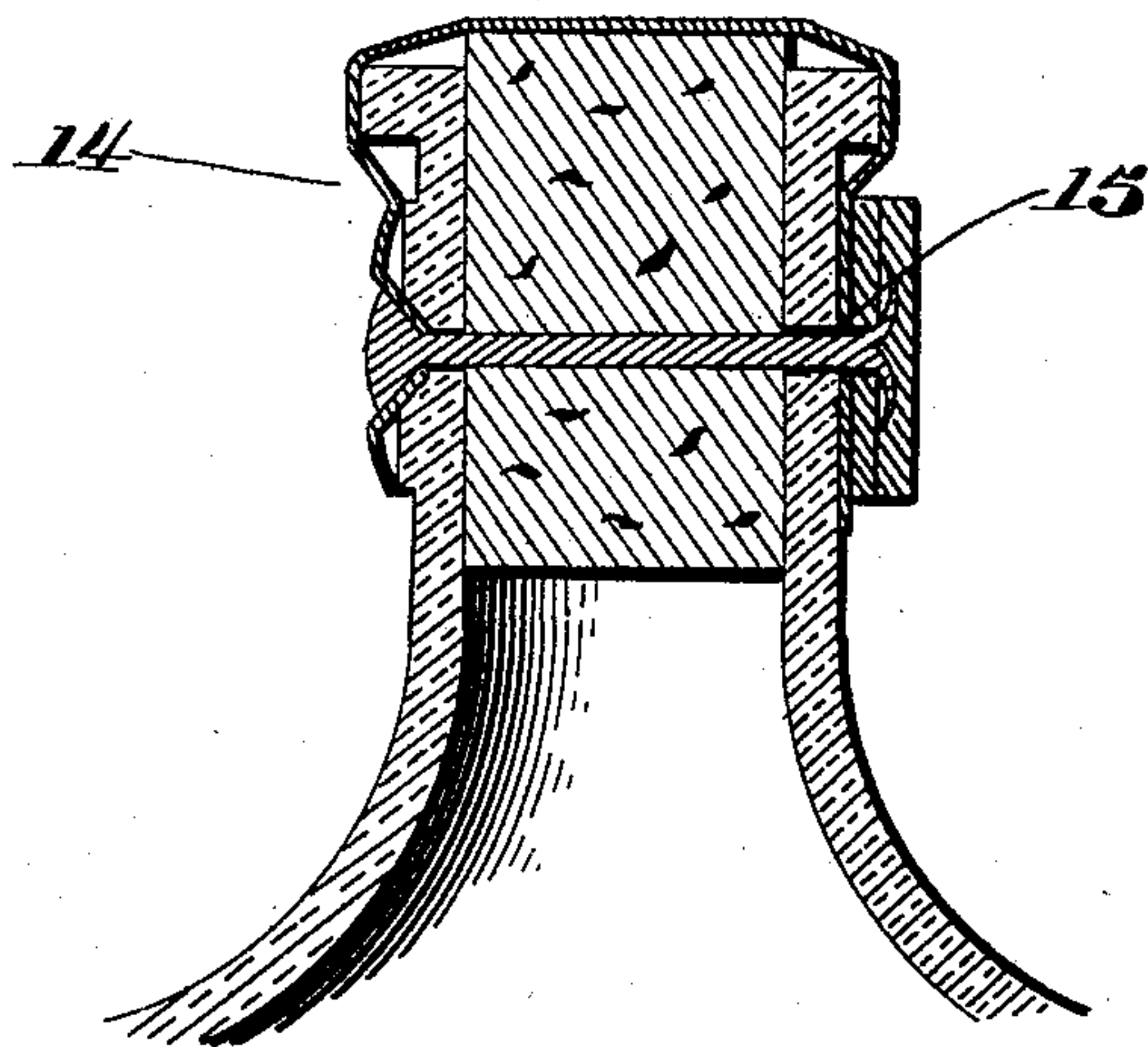


Fig. 6.



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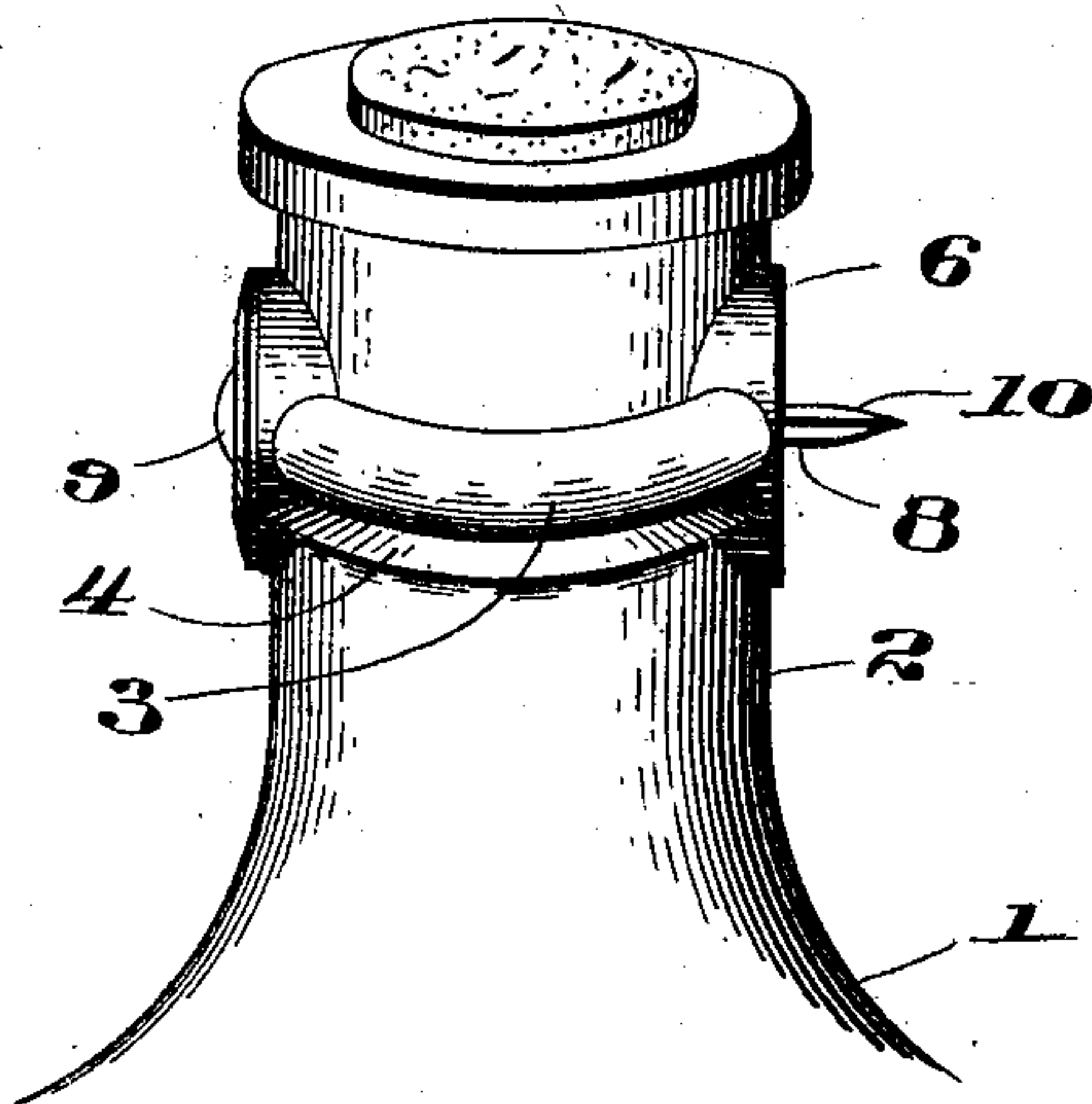


Fig. 3.

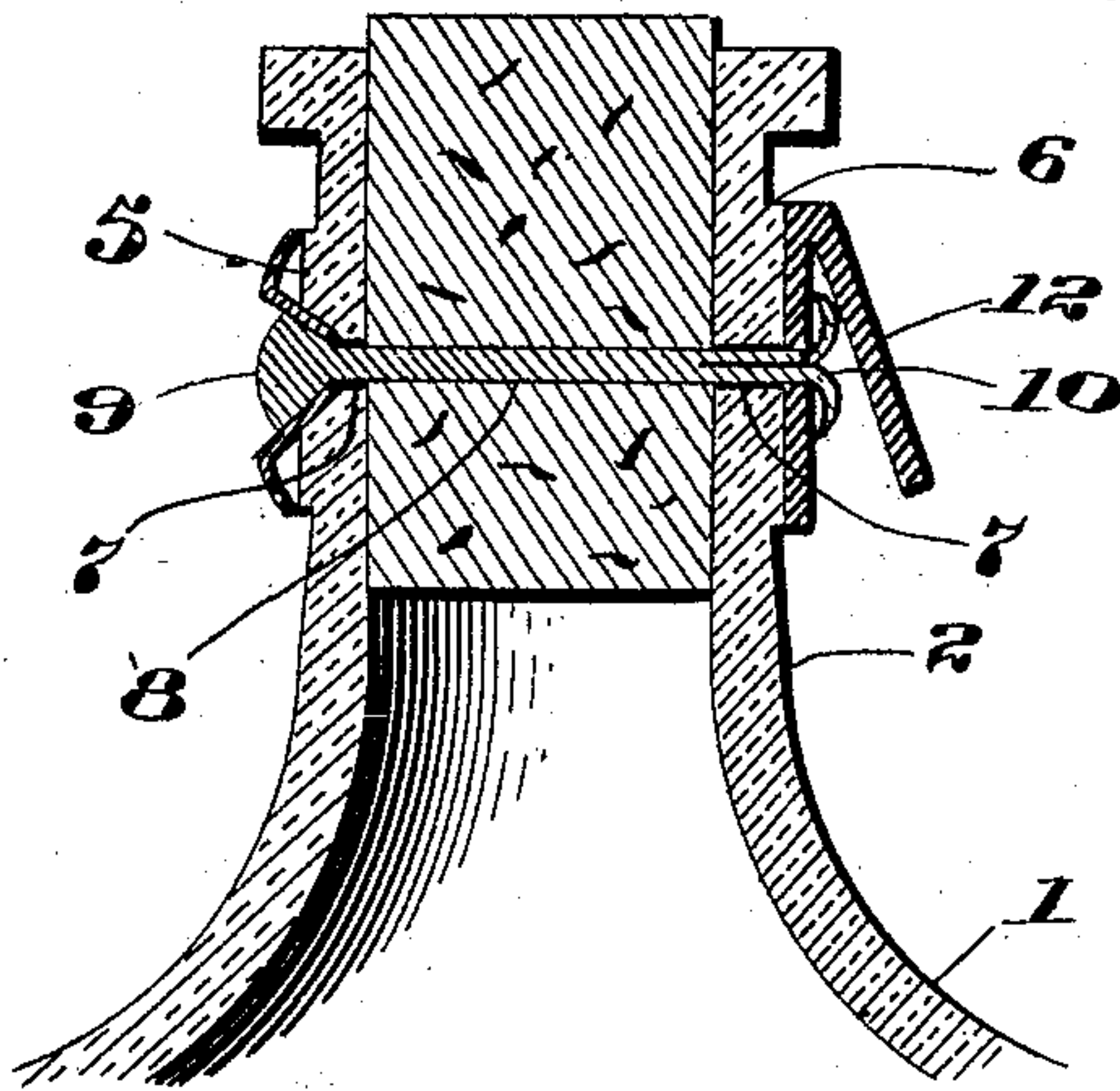


Fig. 4.

Fig. 5.

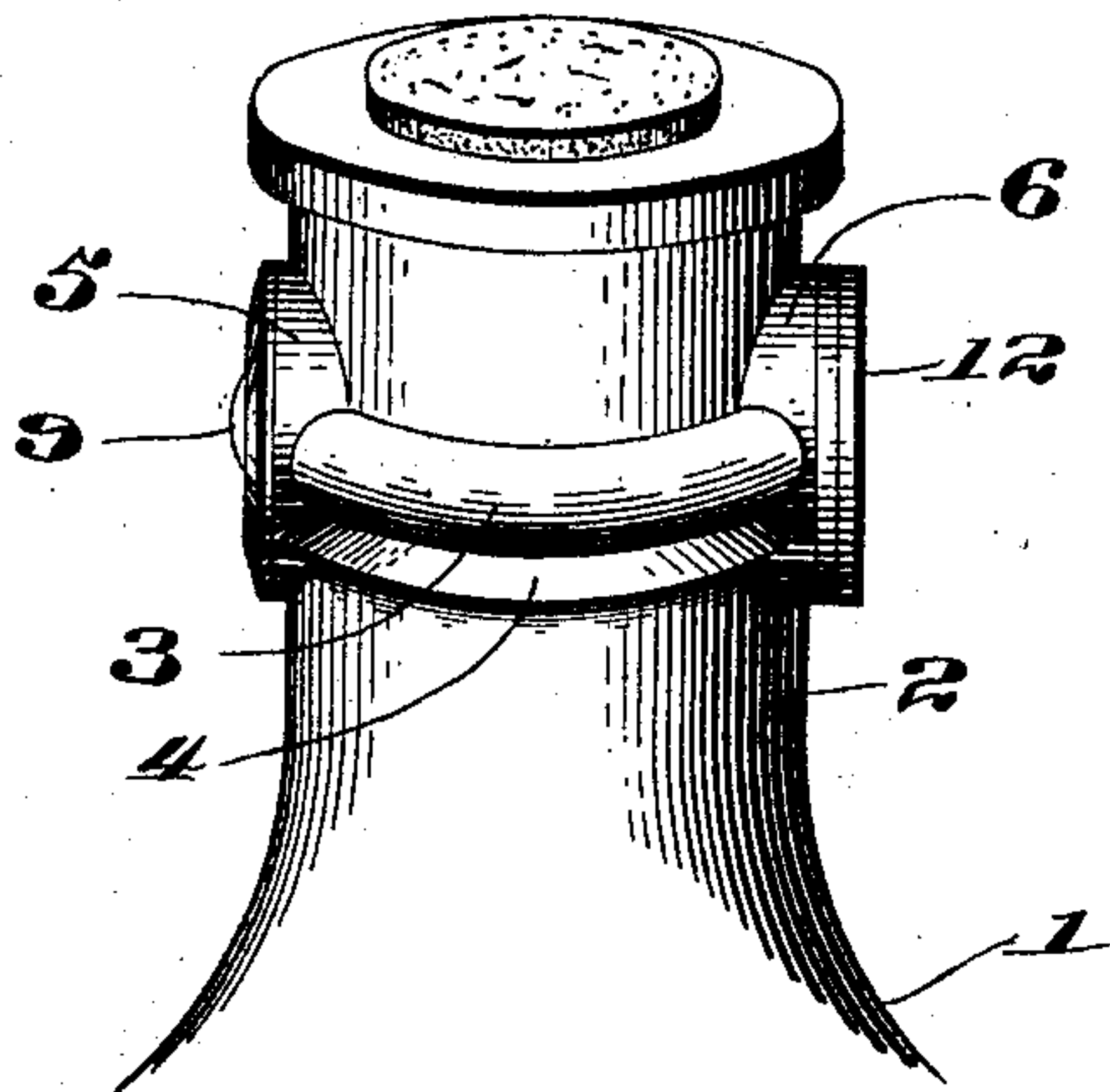


Fig. 7.

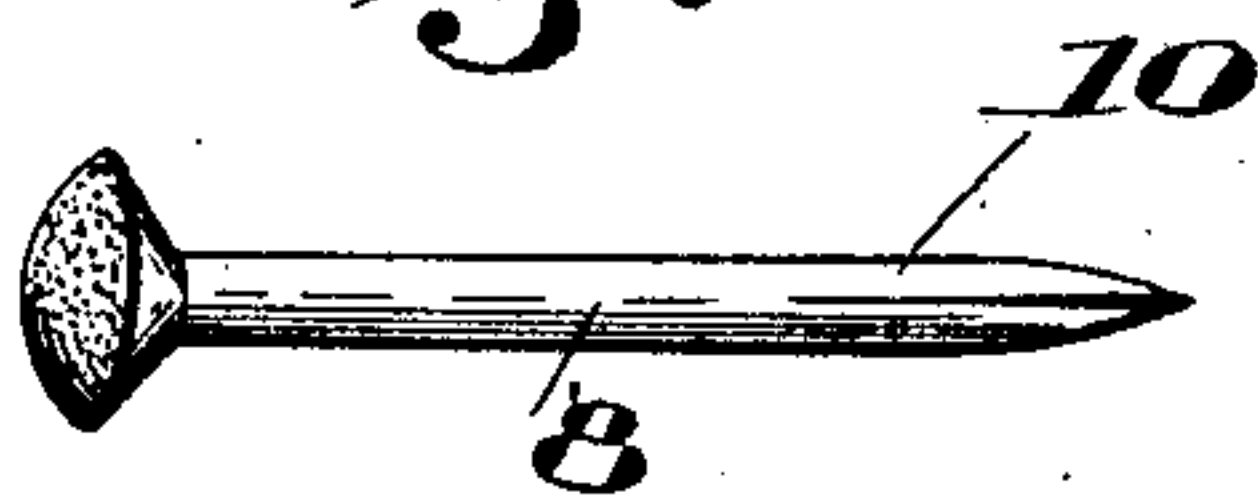
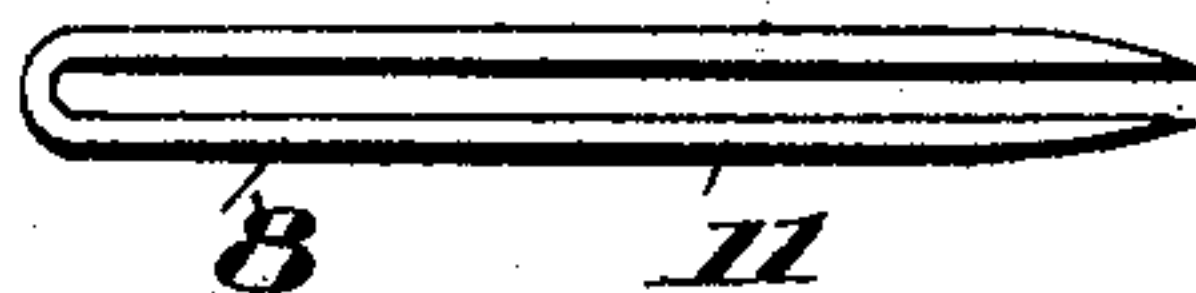


Fig. 8.



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UNITED STATES PATENT OFFICE.

AMY L. ELDER, OF ASPEN, COLORADO.

SAFETY-SEAL FOR BOTTLES.

SPECIFICATION forming part of Letters Patent No. 603,559, dated May 3, 1898.

Application filed May 28, 1897. Serial No. 638,604. (No model.)

To all whom it may concern:

Be it known that I, AMY L. ELDER, of Aspen, in the county of Pitkin and State of Colorado, have invented certain new and useful
5 Improvements in Safety-Seals for Bottles; and I 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.

10 My invention relates to non-refillable bottles; and its object is to provide an improved form of bottle which shall plainly indicate that the same has been tampered with after the contents have been placed therein.

15 My invention consists in certain novel features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a cross-section through the upper part of a
20 bottle, showing my device applied thereto. Fig. 2 is a section on the line X X of Fig. 1. Fig. 3 is a detail perspective view showing the device as it appears when first inserted. Fig. 4 shows the seal applied thereto. Fig. 5
25 is a perspective view showing the bottle when properly sealed. Fig. 6 is a modified form of the device in which a sealing-strip passing over the top of the bottle is used. Fig. 7 is a perspective view of one form of my sealing-
30 pin. Fig. 8 is a similar view of a modification thereof, and Fig. 9 is a perspective view of my seal before application.

The numeral 1 indicates the body of a bottle, which is provided with a neck 2. The
35 neck is provided with an enlarged portion 3. A breaking-groove 4 is formed immediately beneath the enlarged portion. Seats 5 and 6 are formed diametrically opposite each other, the center of said seats being on a line with
40 the breaking-groove or near it. An opening 7 is formed in each one of said seats. A pin 8, provided with a suitable ornamented or embossed head 9, is adapted to extend through said openings. This pin may be split at the
45 end thereof, as indicated at 10, or may consist of two separate portions, as shown at 11. A seal 12 is provided with an opening 13 in the middle thereof. The seal 12 consists of
50 two nearly-circular portions of soft metal adapted to fold one upon the other.

In operation my bottle is filled with any desired contents, and a cork of the ordinary form

is inserted. The sealing-pin is then passed through the cork and through the openings in the center of the seal. The ends are forced
55 apart and the remainder of the seal turned over the same. The seal is then violently compressed by any suitable instrument and is preferably marked with the trade-mark of the manufacturer or such other character as
60 the occasion may suggest.

In the modified form of my device a strip of metal 14 is formed upon the head of the sealing-pin. This is adapted to extend over the
65 top of the bottle, as shown. A hole 15 is provided therein, which is adapted to register with the hole through which the sealing-pin passes. In applying this form of device the only difference is that the sealing-strip that
70 extends over the top must be also passed over the sealing-pin when the same has been passed through the neck of the bottle.

In order to remove the contents of the bottle, it is necessary to either disturb the seal or break the neck of the bottle in the usual
75 manner. In any event the evidence that the bottle had been tampered with would be plain and it would be impossible to open the bottle without occasioning so much loss of time as to render the purpose for which the bottle was
80 opened of no avail.

It is obvious that many minor changes may be made in the form of my device without departing from the principles herein described. I do not therefore desire to confine myself to
85 the exact form herein shown and described, but wish to include all such as properly come within the scope of my invention.

Having thus described my device, what I claim as new, and desire to secure by Letters
90 Patent, is—

1. In a non-refillable bottle, the combination with a neck having two diametrically-disposed openings therein, with seats surrounding the same, of a wire adapted to pass
95 through said openings, and having one end formed of separable parts adapted to be upset, and a seal to receive and cover the upset parts of said wire, substantially as described.

2. In a non-refillable bottle, the combination with a neck having diametrically-disposed openings therethrough, of a flange
100 formed around the said neck, a frangible portion formed below said flange, seats surround-

ing said openings, a headed split pin adapted to pass through said openings, and means for securing said pin in said openings, substantially as described.

- 5 3. In a non-refillable bottle, the combination with a neck having diametrically-disposed openings therethrough, of a flange formed around said neck, a frangible portion formed below said flange, seats surrounding
10 said openings, a headed split pin adapted to pass through said openings, and a soft-metal seal adapted to secure the split end of said pin, substantially as described.

- 15 4. In a non-refillable bottle, the combination with a neck having two diametrically-disposed openings therethrough and a breaking-groove therearound, of a flange formed above

said breaking-groove, seats formed around said openings, a pin provided with a split end adapted to pass through said openings, a head formed upon said pin provided with an extended strip having an opening near the end thereof, and a seal comprising two similar portions one of which has a central opening adapted to fit the split end of said pin, substantially as described.

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

AMY L. ELDER.

Witnesses:

E. W. YOUNG,
ABE MECKLENBURG.