

No. 724,655.

PATENTED APR. 7, 1903.

H. R. BELL.
BOTTLE AND STOPPER THEREFOR.

APPLICATION FILED MAY 20, 1902.

NO MODEL.

Fig. 1

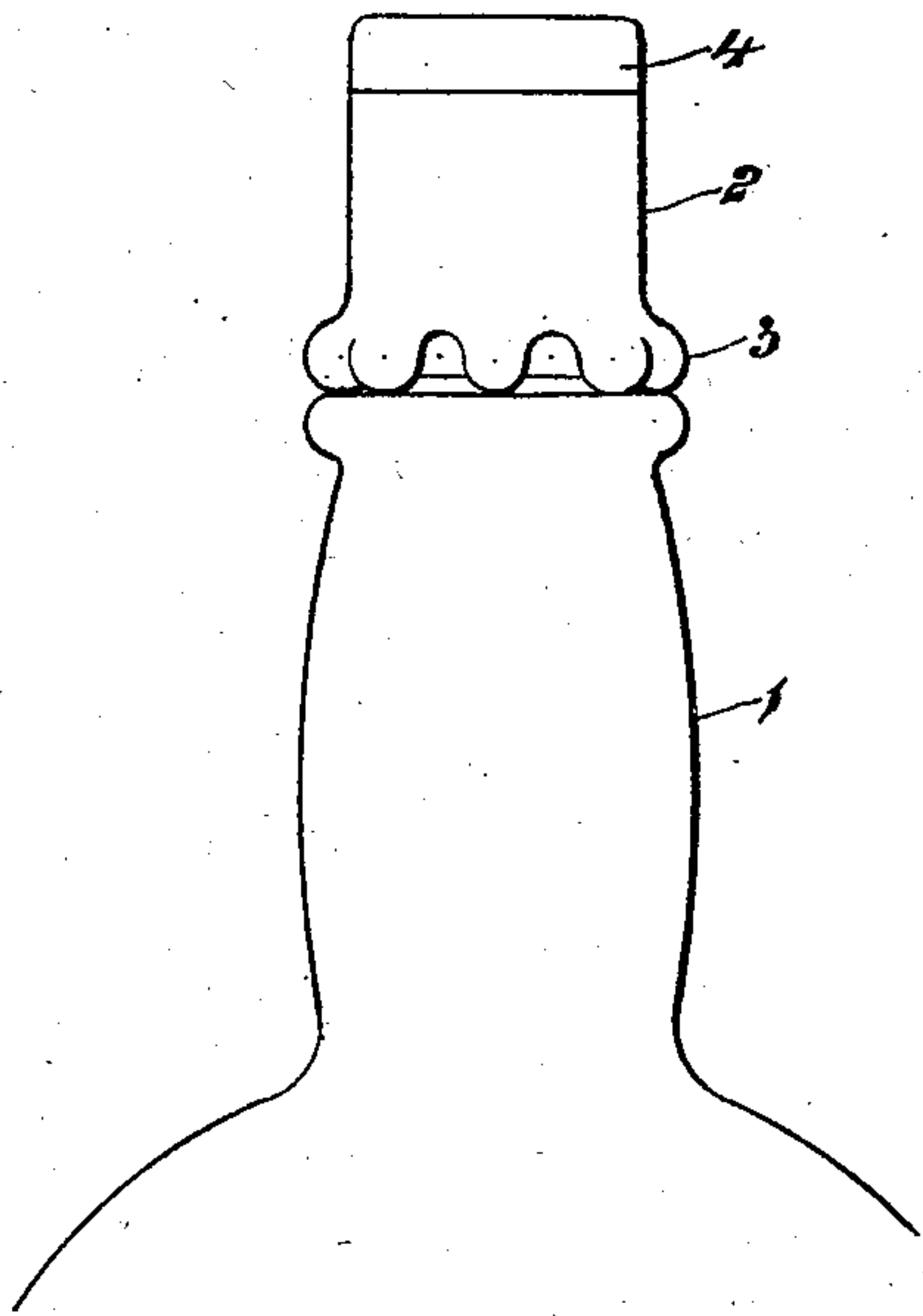


Fig. 2

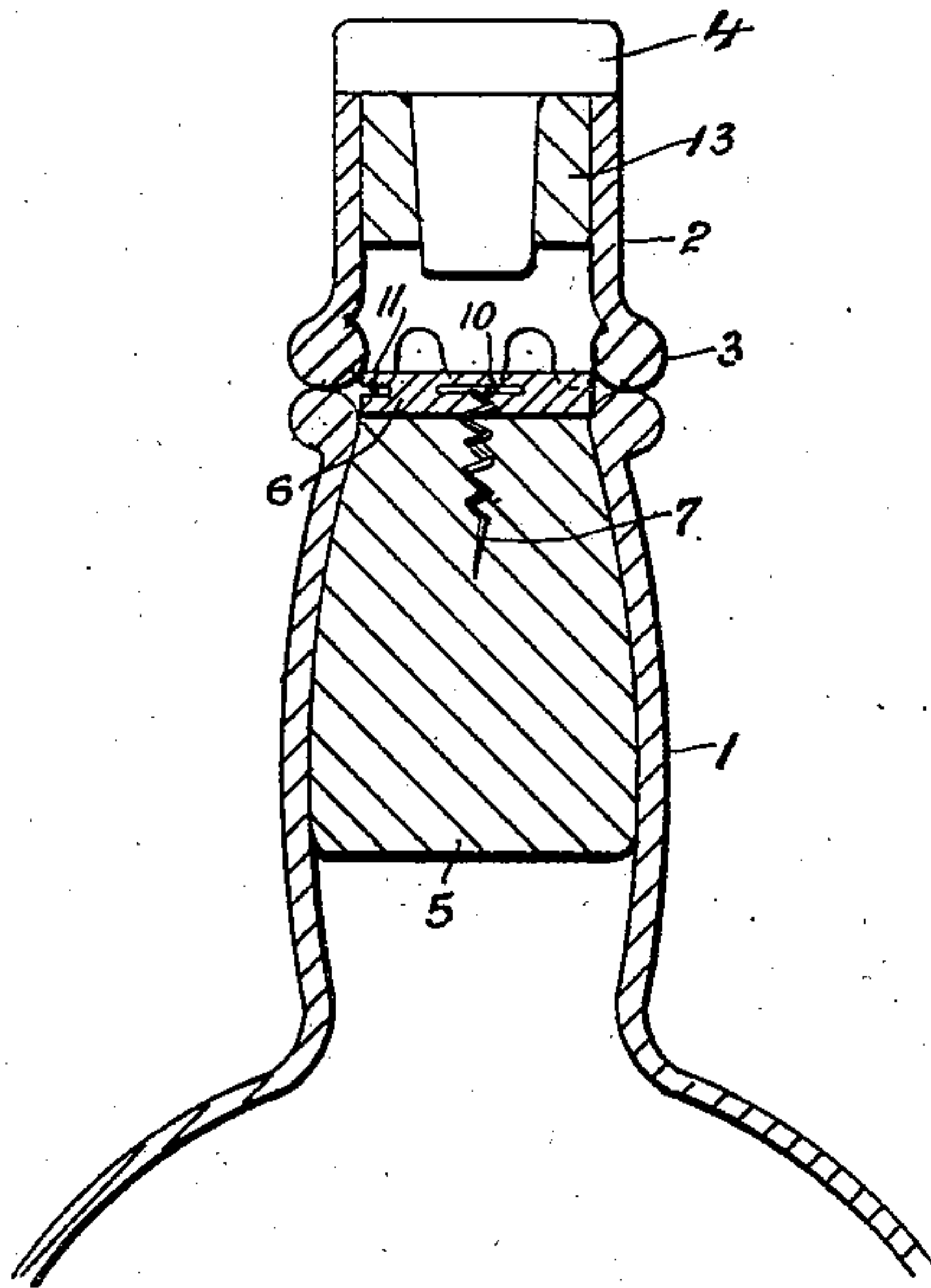
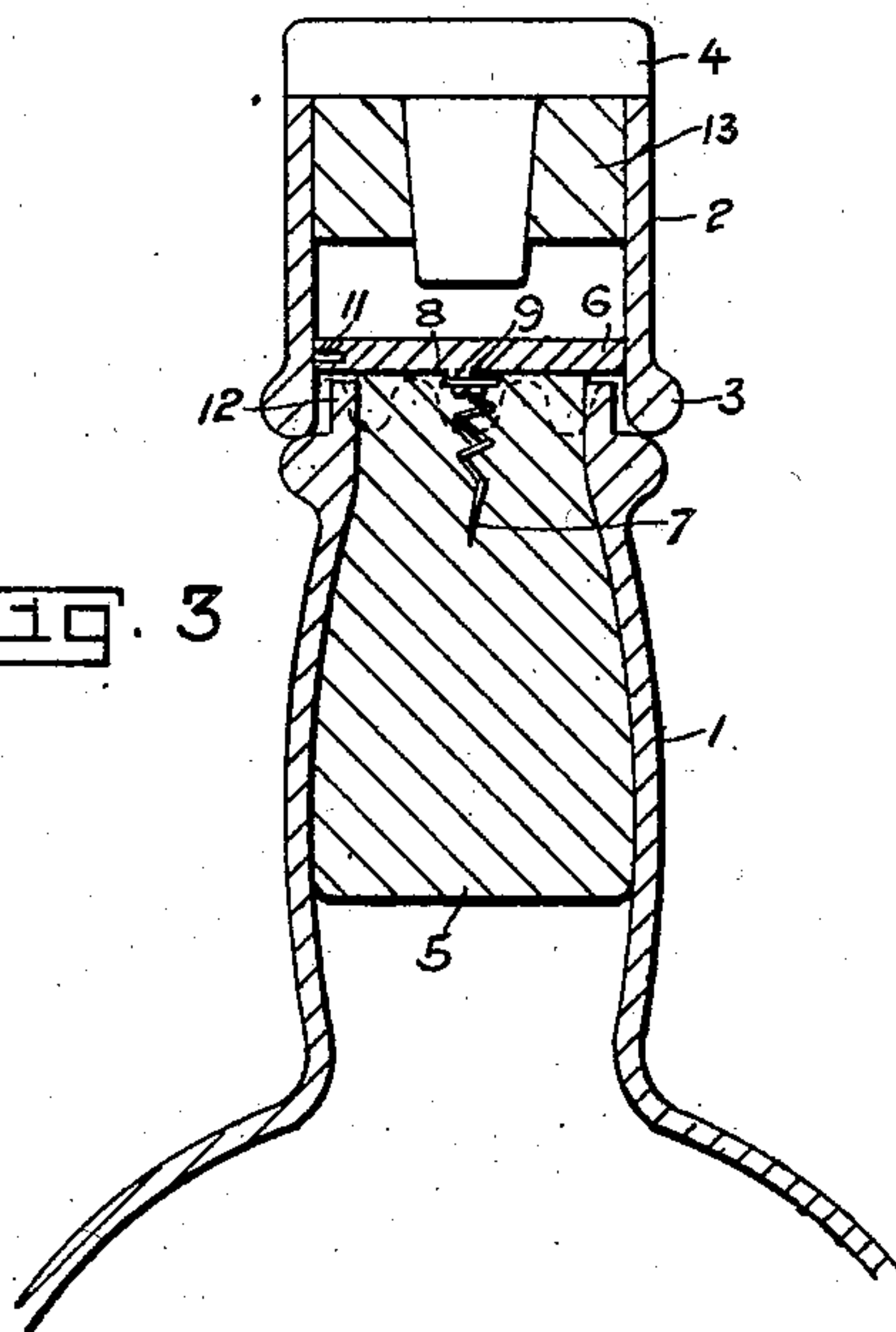


Fig. 3



Witnesses
A. M. Gillman, Jr.
A. E. Hausmann.

Inventor
Horace R. Bell
by
J. H. Freeman
Attorney

UNITED STATES PATENT OFFICE.

HORACE ROLAND BELL, OF LYTTTELTON, NEW ZEALAND.

BOTTLE AND STOPPER THEREFOR.

SPECIFICATION forming part of Letters Patent No. 724,655, dated April 7, 1903.

Application filed May 20, 1902. Serial No. 108,215. (No model.)

To all whom it may concern:

Be it known that I, HORACE ROLAND BELL, a subject of His Majesty the King of Great Britain and Ireland, residing at Lyttelton, in the Provincial District of Canterbury, in the Colony of New Zealand, have invented new and useful Improvements in Bottles and Stoppers Therefor, of which the following is a specification.

10 According to this invention the stopper of a bottle cannot be withdrawn and the contents of the same drawn off without mutilating the bottle, which when thus mutilated cannot be refilled and sold as the production
15 of the original merchant or tradesman without detection.

I make the neck of my bottle with a top which can be readily severed from the main portion of the neck by joining the parts by
20 means of narrow uniting-pieces or uniting-pieces having points of connection of small section. An outer cork is fitted into the detachable top of the neck. In the neck below the uniting-pieces is a second or main cork,
25 and a metal disk or cap provided with a screw is fixed to this main cork. The bottom of the disk may be flush, or nearly so, with the bottom of the uniting-pieces or it may enter the detachable top of the neck.

30 To open the bottle, the top of the neck is sharply rapped, when it will break off. The disk is then unscrewed from its cork, a hole in the edge of the disk being provided for the purpose. The main cork is thus left free to
35 be withdrawn by an ordinary corkscrew. While the bottle is in use the cork of the detachable top can be used in the main part of the neck.

40 By my invention particles of glass cannot fall into the liquid contained by the bottle when the detachable top is broken from the neck.

The neck can be provided with a capsule in the ordinary way.

45 The accompanying drawings illustrate the invention.

Figure 1 is an exterior view of the neck of a bottle and stopper made according to my invention. Fig. 2 is a vertical section of the
50 same, and Fig. 3 is a similar section showing a modification.

Similar numerals of reference indicate similar parts.

1 is the neck of the bottle; 2, the detachable top of the same.

3 represents uniting-pieces.

4 is an outer cork or stopper; 5, the main cork.

6 is a hard-metal disk covering the top of the main cork and fixed thereto by a screw
60 7, which I prefer to make of wire, having its upper end 8 passed through a lug 9, made solid with or attached to the disk, as shown by Fig. 3, or it may be attached by twisting the wire upon itself to form a coil 10 and
65 then casting the disk upon and embedding the coil, as shown by Fig. 2.

11 is a hole or slot in the edge of the disk for the reception of any suitable pointed instrument for screwing the disk from the
70 cork. The disk may be fixed, as shown by Fig. 2, flush, or nearly so, with the bottom of the uniting-pieces, or it may be raised above the said uniting-pieces, as shown by Fig. 3, and the neck may be provided with an extension 12, covering the openings between
75 the uniting-pieces, and thus prevent tampering with the disk through such openings.

The bottle is filled with liquid before the main cork 5 and stopper 4 are inserted. After filling the bottle the main cork 5, with its hard-metal disk 6 in position, is inserted and then the stopper 4 and its washer 13 of cork or the like are placed in position.

To open the bottle and withdraw the contents, the top 2 is sharply struck, when it will break off where the uniting-pieces 3 connect with the neck 1. The disk 6 is then unscrewed from the cork 5 by inserting a suitable instrument in the hole 11. The main
90 cork is thus left free to be withdrawn by an ordinary corkscrew. After the top 2 has been broken off and while the bottle is still in use the stopper 4 may be withdrawn from the top 2 and used in the neck 1 in place of
95 the cork 5. The disk being made of hard metal cannot be tampered with when the stopper 4 is withdrawn; but the top 4 must be broken off to afford access to the hole 11 in the edge of the disk.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with the neck of a bottle,
a top provided with a stopper and connected
to the neck by uniting-pieces which may be
readily broken, a cork in the neck of the bot-
5 tle, a disk of hard metal attached to the top
of the cork by a screw, substantially as set
forth and a hole in the edge of the disk for
receiving an instrument whereby the said

disk may be unscrewed from the cork, sub-
stantially as set forth. 10

In witness whereof I have hereunto set my
hand in presence of two witnesses.

HORACE ROLAND BELL.

Witnesses:

A. H. HART,

F. R. SMITH.