

No. 688,226.

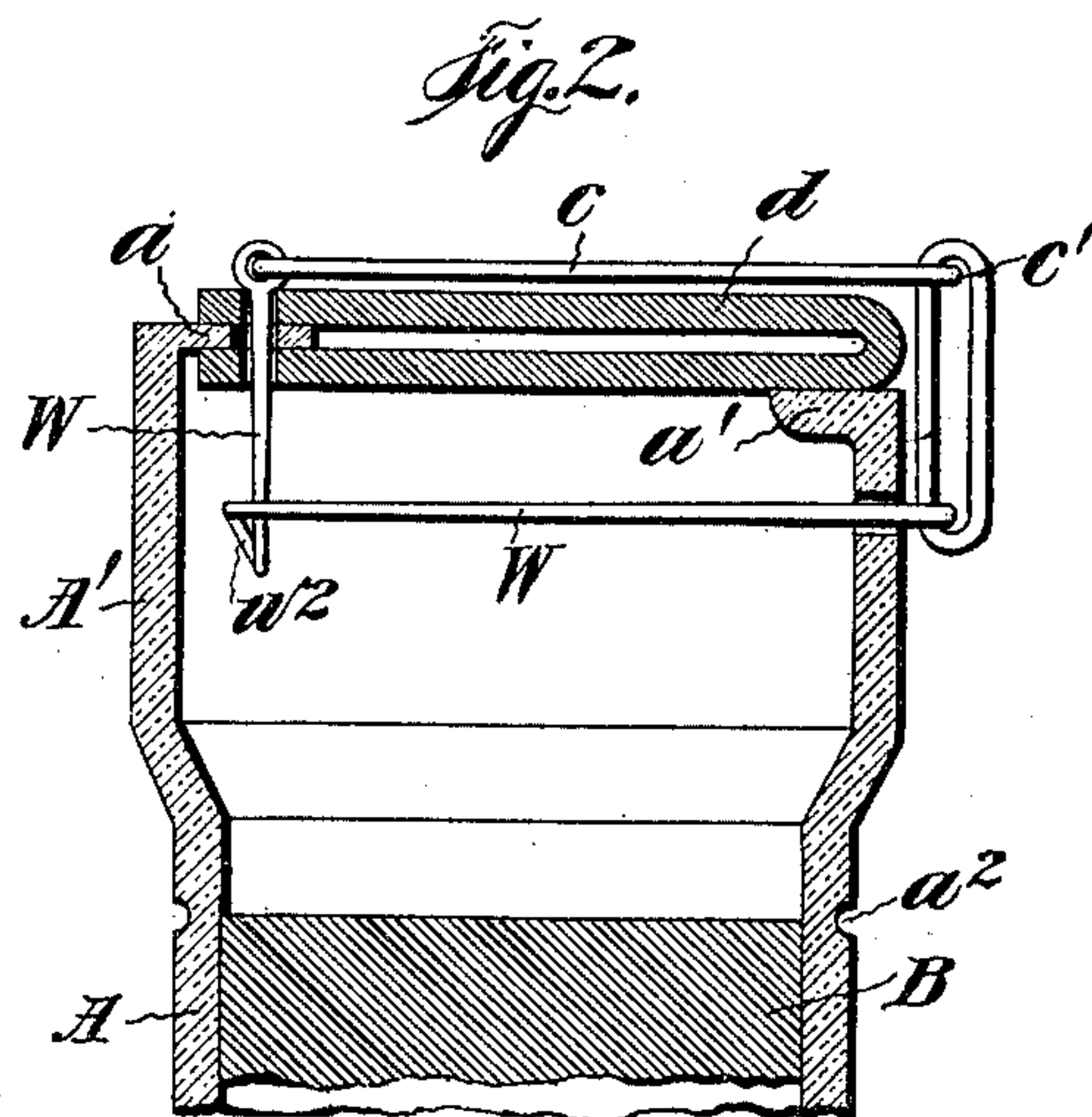
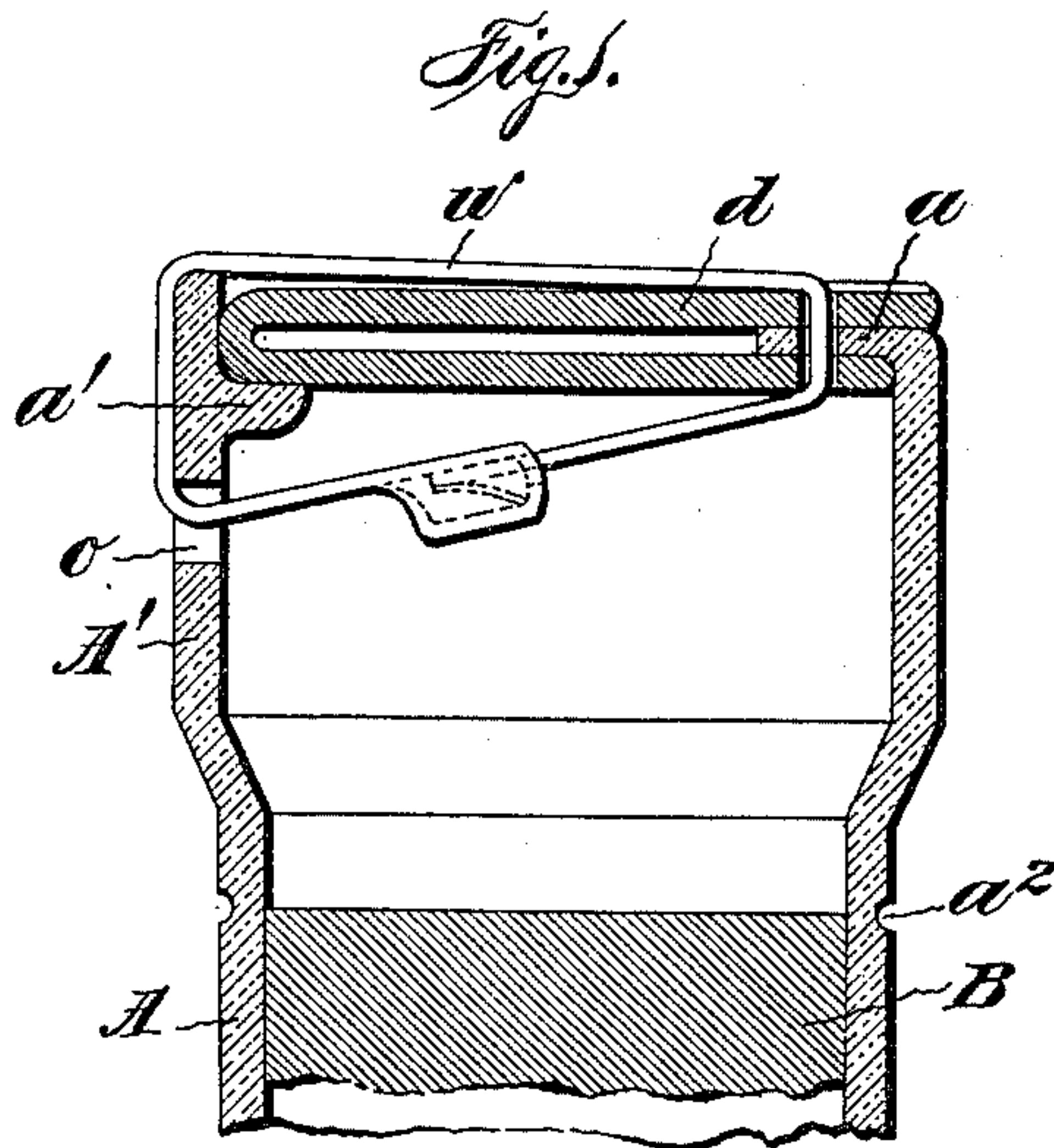
Patented Dec. 3, 1901.

C. CARR.

APPARATUS FOR CLOSING BOTTLES OR JARS.

(Application filed Aug. 26, 1901.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

CAROLINE CARR, OF HIGHGATE, LONDON, ENGLAND.

## APPARATUS FOR CLOSING BOTTLES OR JARS.

SPECIFICATION forming part of Letters Patent No. 688,226, dated December 3, 1901.

Application filed August 26, 1901. Serial No. 73,304. (No model.)

*To all whom it may concern:*

Be it known that I, CAROLINE CARR, spinster, a subject of the King of Great Britain, residing at No. 8 North Hill, Highgate, London, England, have invented a new and useful Improvement in Apparatus for Closing Bottles, Jars, or the Like, of which the following is a specification.

My invention relates to certain improvements in means for closing bottles, jars, and like vessels, especially designed to prevent fraudulent refilling or tampering with their contents. This type of bottle-sealing devices forms the subject of my British Patent No. 15,935 of 1899 and of a patent of the United States granted to me April 2, 1901, No. 671,011; but the devices set forth in said patents have proved less suitable in practice for the purpose in view than the new construction set forth herein.

In order to make my invention clear, I have illustrated the same in the accompanying drawings, in which—

Figure 1 is a vertical section of the upper portion of the neck of a bottle with my improvements applied, and Fig. 2 is a similar view showing a slight modification.

In the drawings, A indicates the neck of the bottle, which is extended, as shown at A', beyond the seat for the stopper B and has a circumferential external recess  $a^2$  on or about a line with the upper edge of the seat for said stopper, so as to reduce the thickness of the glass to such an extent that said extension, which is preferably of greater diameter than that of the neck proper, A, will readily break off or can readily be broken off.

On the rim or mouth of the extension A' is formed an inwardly-projecting preferably flat horizontal lip  $a$ , and within said extension substantially opposite lip  $a$  but below the same is formed a similar lip  $a'$ , serving as a bearing or seat for the sealing device, which consists of a piece or disk  $d$  of glass or metal, preferably U-shaped in cross-section, so as to receive the lip  $a$  between its members, said disk seating on the lip  $a'$ . The lip  $a$  has a hole through it, and in the extension A' below lip  $a'$  is formed an opening  $o$ . The retaining device for the disk  $d$  may, as shown in Fig. 1, consist of a wire  $w$ , one end of which has a resilient hook and the other end constructed

to be engaged by said hook, so that when the parts are applied, as shown in Fig. 1, the stopper B cannot be withdrawn without breaking the extension A' off the neck A of the bottle. In applying this sealing device the hook end of the wire  $w$  is pushed through disk  $d$  and lip  $a$  and bent at a suitable angle. The disk is then seated on lip  $a'$ , the wire  $w$  laid or bent across it and its free end bent so that when passed through the aperture  $o$  it will engage the hook end of said wire, as shown. A similar arrangement is shown in Fig. 2, the retaining device being constructed in the form of a chain which has preferably but two links, one,  $c$ , of sufficient length to extend across the piece or disk  $d$  of glass or metal and a short link  $c'$ , both having connected therewith a rod or wire, each provided at its free end with a hook  $w^2$ , so that when wire  $w$  on chain-link  $c$  is passed through disk  $d$  and lip  $a$  and wire  $w'$  on chain-link  $c'$  through aperture  $o'$  the hook ends of the two wires are brought into engagement and locked together, thus also preventing the stopper B from being drawn out without breaking off the extension A' of the neck of the bottle. The extension A' of the neck A of the bottle is of such a diameter relatively to said neck and seat for the stopper B that the lips  $a$  and  $a'$  will not interfere with the corking of the bottle.

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

1. The combination with a bottle having at its mouth an inwardly-projecting perforated lip, and a second lip within said mouth opposite to but below the first-named lip; of a piece or disk of glass or metal recessed to engage or straddle the upper lip and seating on the lower one, said piece or disk having a hole through it in register with that in the upper lip, and a metallic fastening device extending across the piece or disk, one end of said device passing through said piece or disk and upper lip and the other through a hole below the lower lip, the free ends of said retaining device constructed to interlock, for the purposes set forth.

2. The combination with a bottle, the neck of which is extended beyond the seat for the stopper and provided at the mouth with an



inwardly-projecting perforated lip and with  
a second lip within said mouth opposite to  
and below the first-named lip; of a perforated  
piece or disk of glass or metal recessed to en-  
5 gage or straddle the upper lip and seat on the  
lower one, the perforation in said piece or  
disk in register with the perforation in said  
upper lip, and a metallic fastening device ex-  
tending across the piece or disk through the  
10 same and through the upper lip and through  
a hole below the lower lip, the ends of said  
fastening device constructed to interlock  
within the extension of the neck, for the pur-  
poses set forth.

15 3. The combination with a bottle, the neck  
of which is extended beyond the seat for the  
stopper and provided with an external an-  
nular recess on a line with the upper edge of  
said stopper-seat, said extension having at  
20 its mouth an inwardly-projecting lip, and a  
second lip within said mouth opposite to but  
below the first-named lip; of a piece or disk  
of glass or metal recessed to engage or strad-  
dle the upper lip and seating on the lower  
25 one, said piece or disk having a hole through  
it in register with one in the upper lip, and a  
metallic fastening device extending across  
the piece or disk, one end of said device pass-

ing through the piece or disk and upper lip  
and the other through a hole in the neck ex- 30  
tension below the lower lip, the free ends of  
said retaining device constructed to interlock,  
for the purpose set forth.

4. The combination with a bottle having at  
its mouth an inwardly-projecting lip, and a 35  
second lip within said mouth opposite to but  
below the first-named lip; of a piece or disk  
of glass or metal recessed to engage or strad-  
dle the upper lip and seating on the lower  
one, said piece or disk having a hole through 40  
it in register with one in the upper lip, and a  
metallic fastening device consisting of a chain  
having a rod or wire at each end, one of said  
rods passing through the piece or disk and  
upper lip, and the other through a hole below 45  
the lower lip, said rods or wires constructed to  
interlock within the mouth of the bottle, for  
the purpose set forth.

In testimony whereof I have signed my  
name to this specification in the presence of 50  
two subscribing witnesses.

CAROLINE CARR.

Witnesses:

HERBERT SEFTON JONES,  
LEONARD E. HAYNES.