

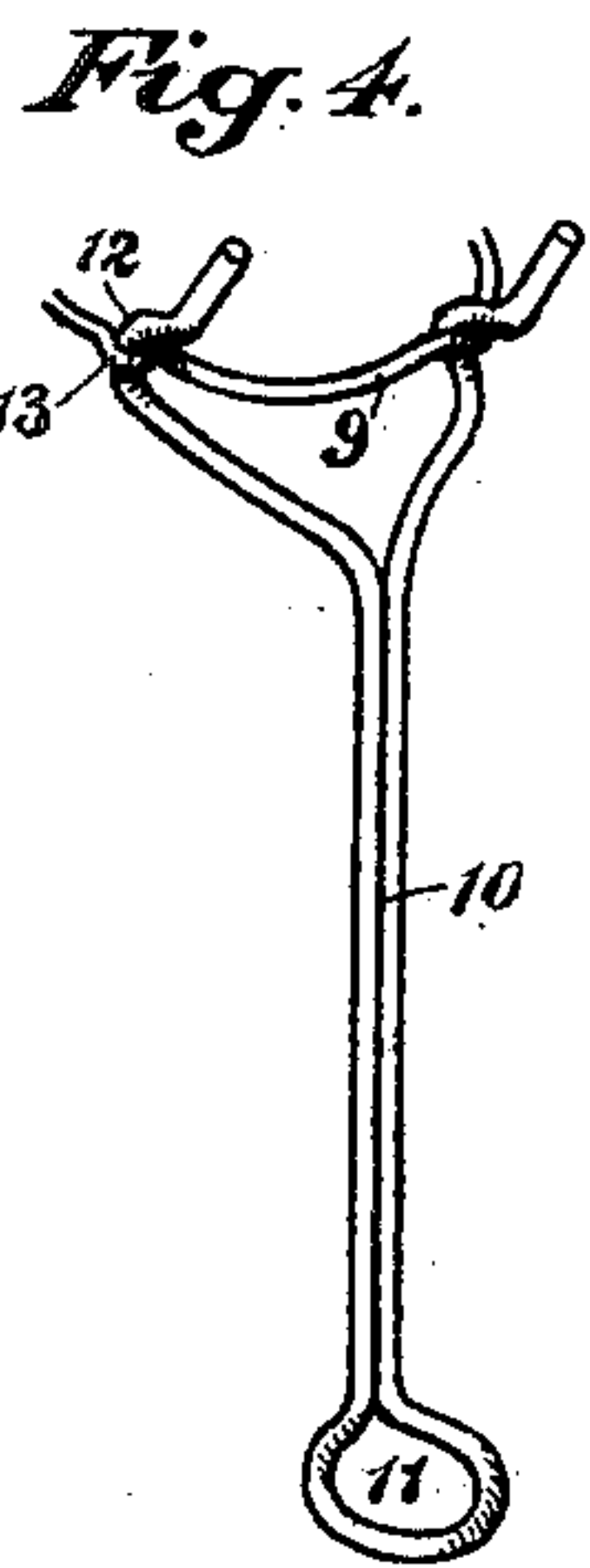
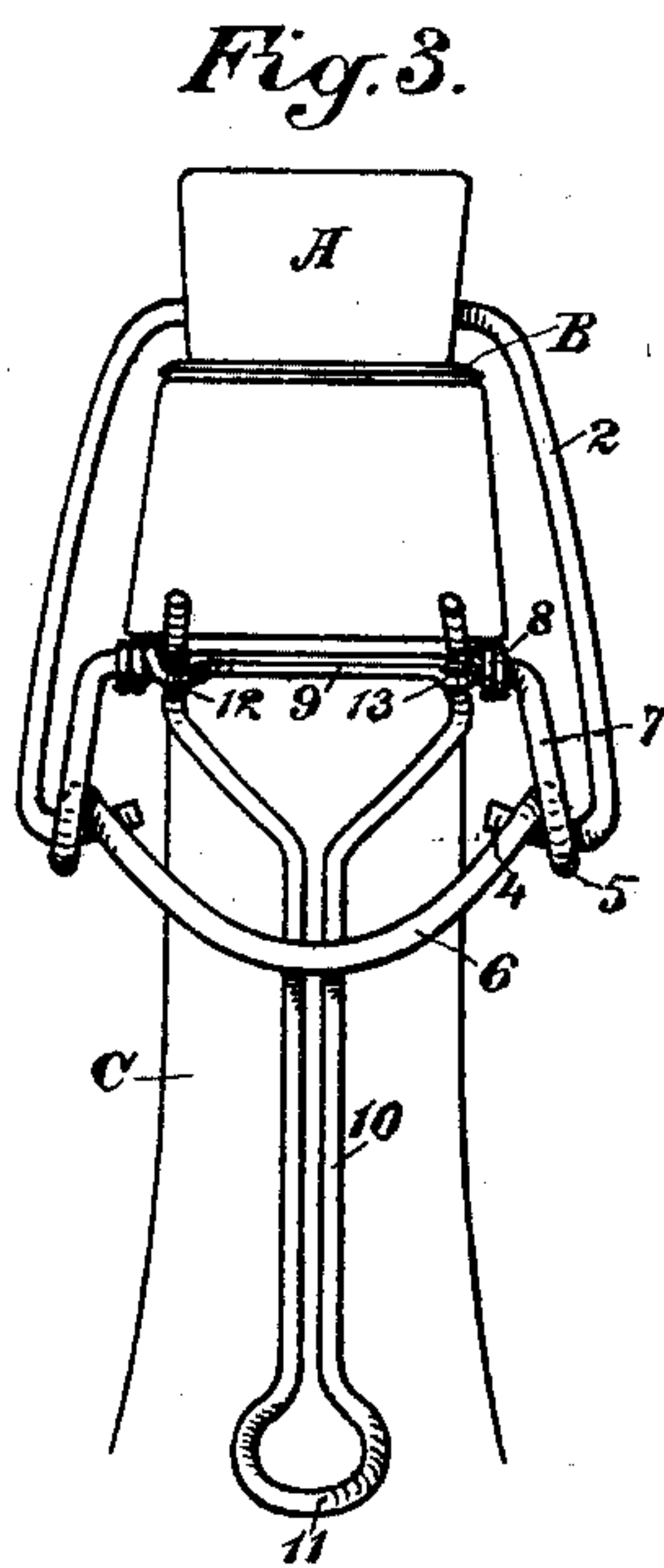
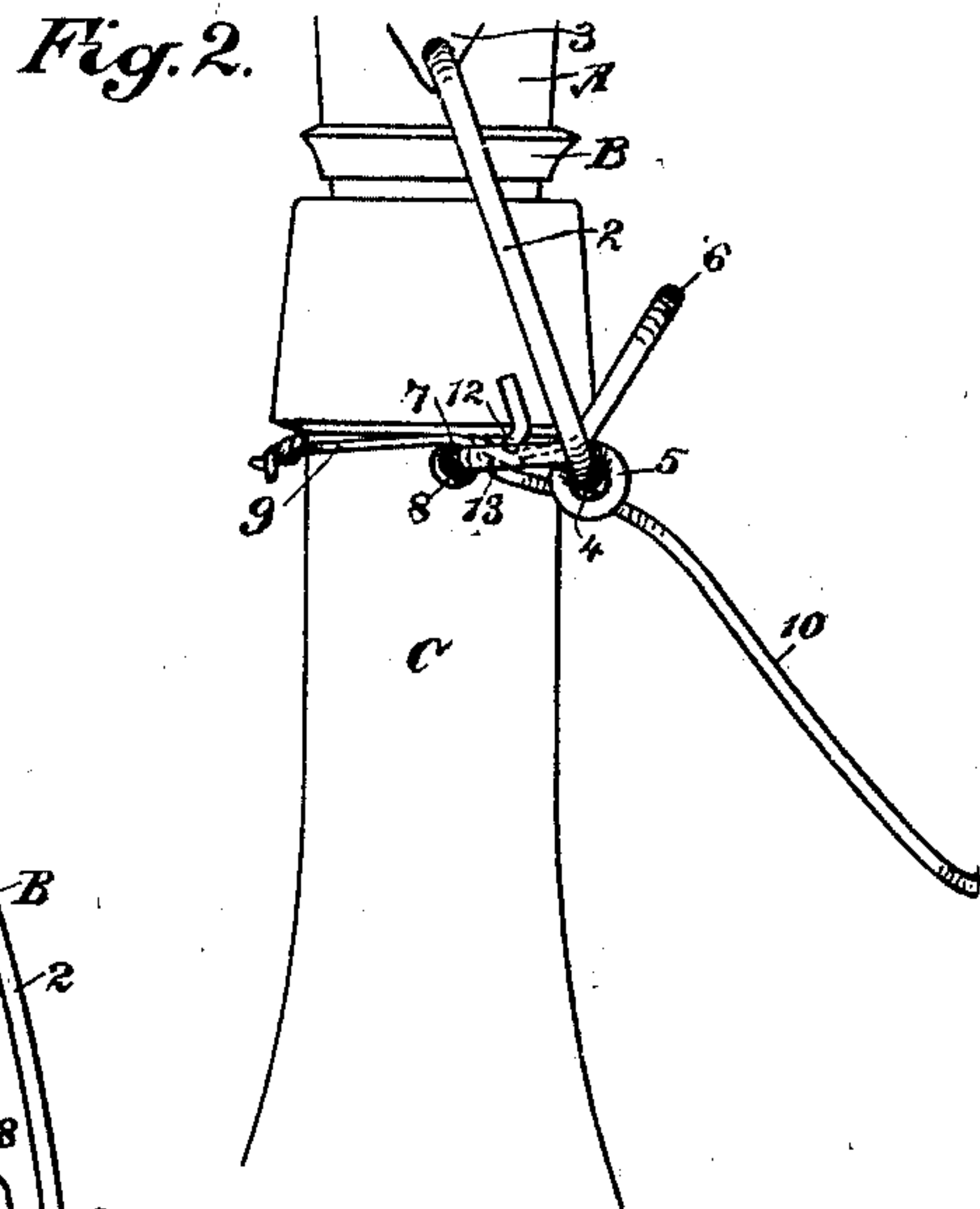
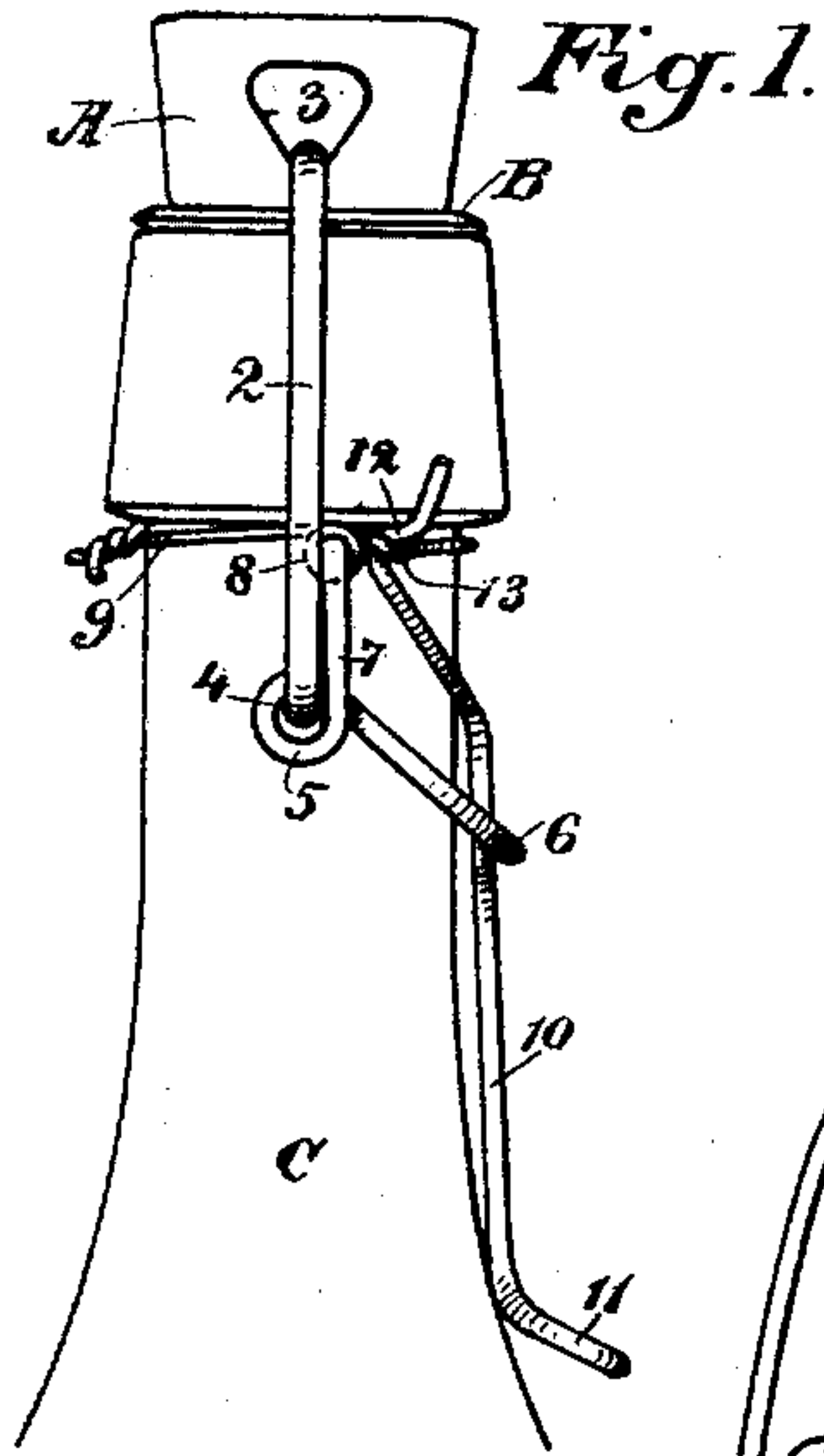
No. 703,113.

Patented June 24, 1902.

H. A. CLARK.
BOTTLE STOPPER ATTACHMENT.

(Application filed Feb. 8, 1902.)

(No Model.)



Witnesses,
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UNITED STATES PATENT OFFICE.

HARRY A. CLARK, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO J. E. DALY, OF SAN FRANCISCO, CALIFORNIA.

BOTTLE-STOPPER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 703,113, dated June 24, 1902.

Application filed February 3, 1902. Serial No. 92,377. (No model.)

To all whom it may concern:

Be it known that I, HARRY A. CLARK, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Bottle-Stopper Attachments; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an attachment for bottle-stoppers of that class in which a stopper has a link passing through a hole in the rigid portion of the stopper and the ends of the link connected with a lever fulcrumed to the bottle by a wire or clamp surrounding the bottle-neck, so that when the loop of the lever is pressed down against the neck of the bottle it acts through the link to draw the stopper downward and force the soft or flexible portion tightly into the bottle-neck to form a closure, and when the lever is lifted up and turned about its fulcrum it releases the link and the stopper and allows the latter to be removed. In this class of attachments the lever is made in the form of a curved loop, which when the stopper is forced into the bottle lies closely against the side of the neck, and the pressure is so great that it is very difficult to lift this lever to release the stopper.

It is the object of my invention to provide an attachment whereby this lever may be easily disengaged and lifted to release the stopper.

Referring to the accompanying drawings, Figure 1 is a view of the upper portion of a bottle with my attachment in its place, showing the bottle closed. Fig. 2 is a similar view with the stopper released. Fig. 3 is a front view of the same. Fig. 4 is a detail of the releasing-lever.

A is a porcelain or other suitable stopper of hard material, and B is a soft washer or cushion, which is forced into the neck of the bottle C, so as to form a tight closure by forcibly drawing down the portion A of the stopper. This is effected by means of a link 2, passing through an open slot 3 in the stopper, and the two ends of this link extend down upon each side of the bottle-neck and are turned inwardly, as at 4, to pass through loops 5 upon each side made by one turn upon

each side of the curved lever 6. From this curve the ends of the lever extend up and are bent at right angles, as shown at 7, and are inserted into loops or coils 8 made in the wire 9, which is twisted around and encircles the neck of the bottle. The lever 6 ordinarily lies against the bottle-neck, approximately following its curvature, and when it is thus closed the pull of the link 2 in the loop 5 of the lever tends to keep the curved portion 6 tightly against the bottle, making it very difficult, and especially for those unaccustomed, to open it.

In my invention I form a supplemental lever 10, which is fulcrumed in the wire 9, which surrounds the bottle-neck and which extends sufficiently below the main loop or curvature of the lever 6 to give a sufficient purchase by which to raise the lever and allow the elasticity of the stopper B by its pull upon the link 2 to throw the parts into the position as shown in Fig. 2, when the stopper will be loose and easily removed.

The lever 10 may be formed of an independent piece bent, as shown at 12, so as to pass through spaces formed between the wire 9 and the bottle-neck, as shown at 13. By a slight pull upon the projecting end 11 of the lever 10 the lever 6 will be moved about its fulcrum until it passes the center about which it turns—that is, the line of the loops 8—when it will fly up and allow the cork to be removed.

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

1. The combination with a bottle-stopper, a link fitted thereto and extending down upon each side of the bottle, and a lever having one portion fulcrumed upon each side of the bottle and an intermediate portion loosely connected with the lower ends of the link, of a lever fulcrumed to the bottle and passing downwardly through, and adapted to bear outwardly against, the lower portion of the first-named lever, to raise the latter from its closed position against the bottle.

2. The combination with a bottle-stopper of a bent link extending therethrough and having inturned lower ends, a curved lever partially surrounding the bottle-neck having loops in which the inturned ends of the link

are fitted, a wire surrounding the bottle-neck having loops in which the ends of the lever are turnable, and a supplemental lever fulcrumed to said wire and passing through and
5 adapted to bear outwardly against the curved portion of the first-named lever to raise said lever from its closed position against the bottle-neck.

3. A bottle-stopper-releasing device consisting of a lever fulcrumed to the neck-band
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of the apparatus, extending downwardly from the stopper-holding-link actuating-lever, and having an outwardly-turned loop at its lower end.

In witness whereof I have hereunto set my hand.
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HARRY A. CLARK.

Witnesses:

S. H. NOURSE,
JESSIE C. BRODIE.