

No. 847,892.

PATENTED MAR. 19, 1907.

A. C. BOOTH.
BOTTLE CAP PULLER.
APPLICATION FILED AUG. 29, 1906.

Fig. 1.

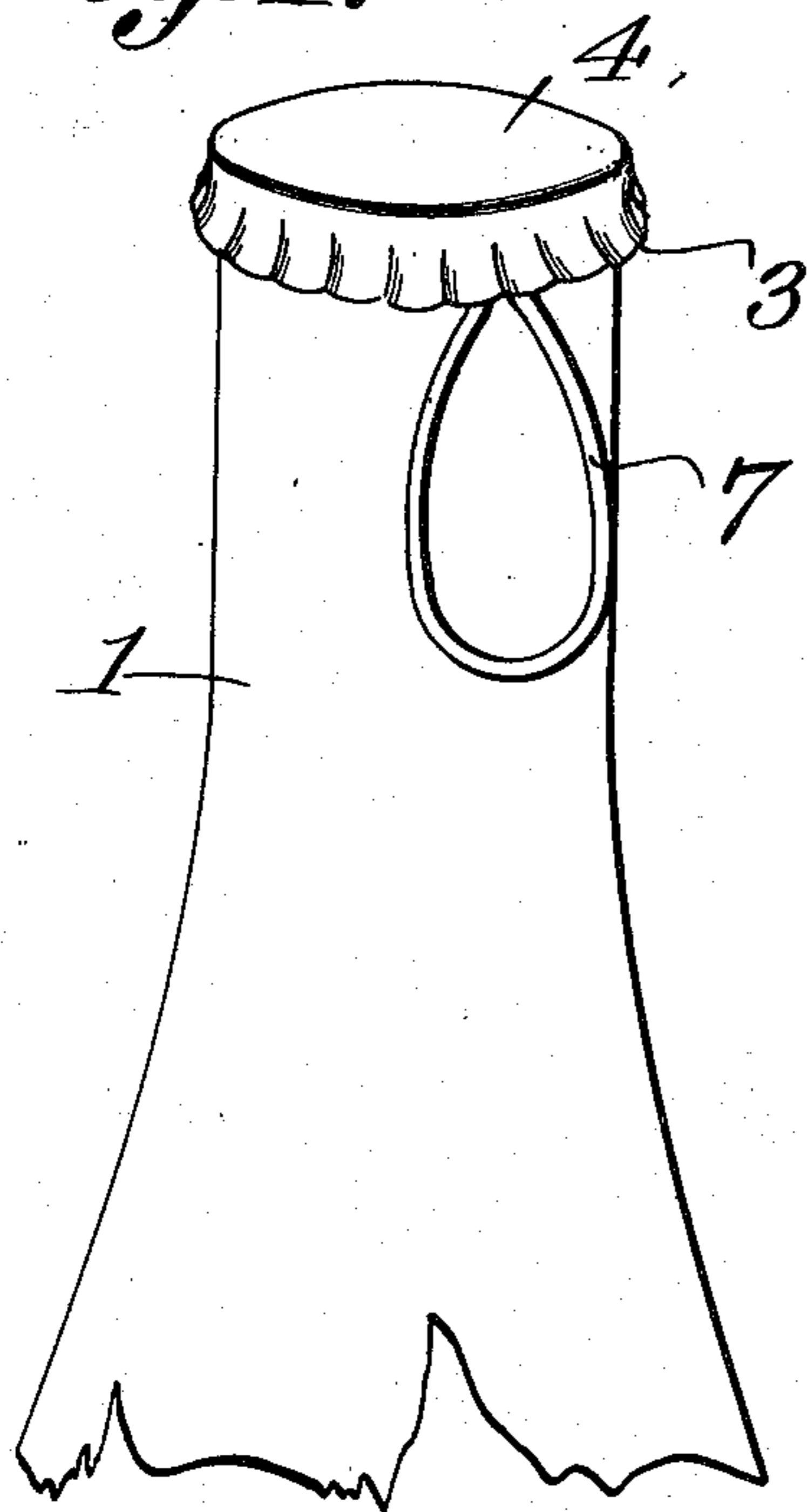


Fig. 2.

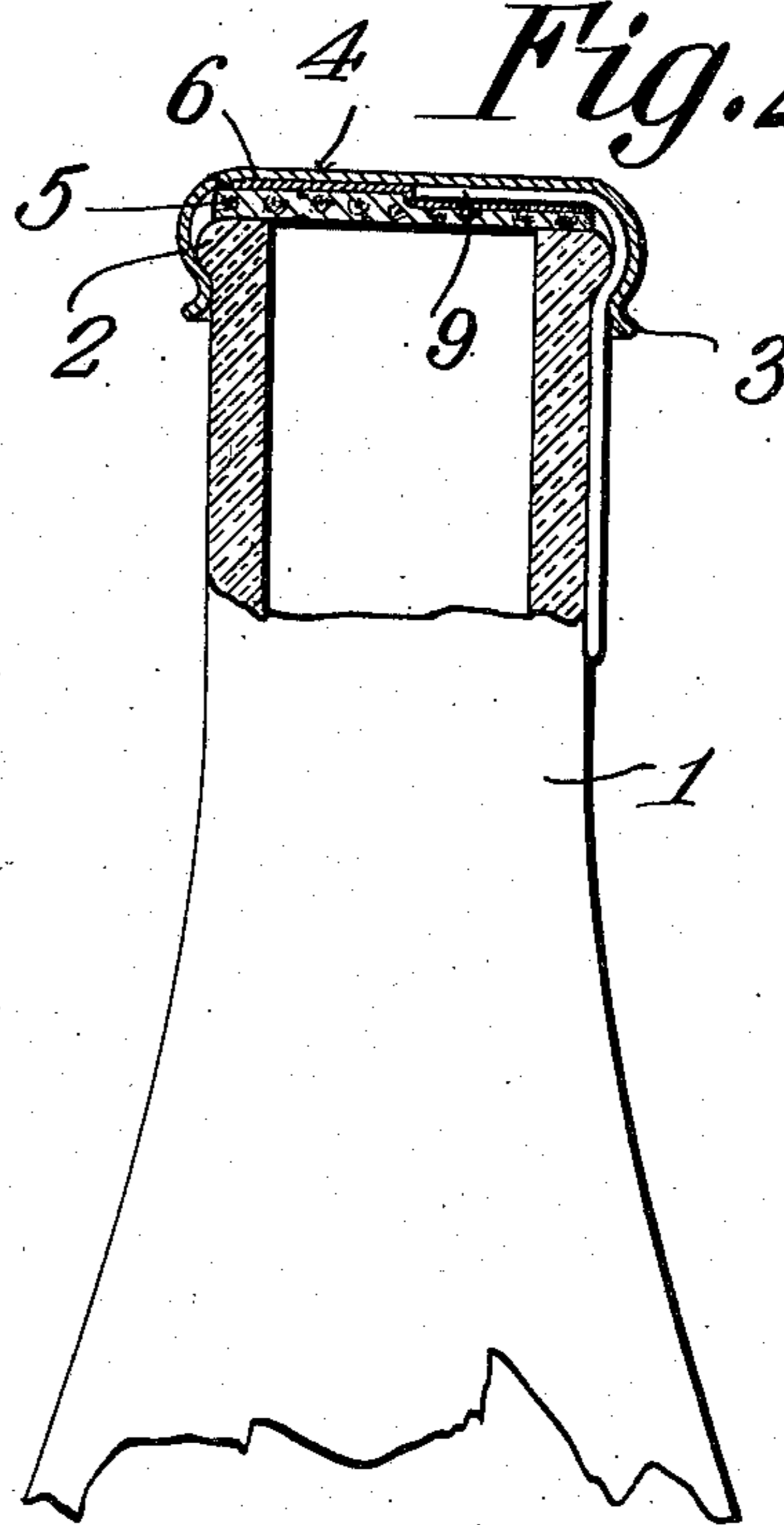


Fig. 3.

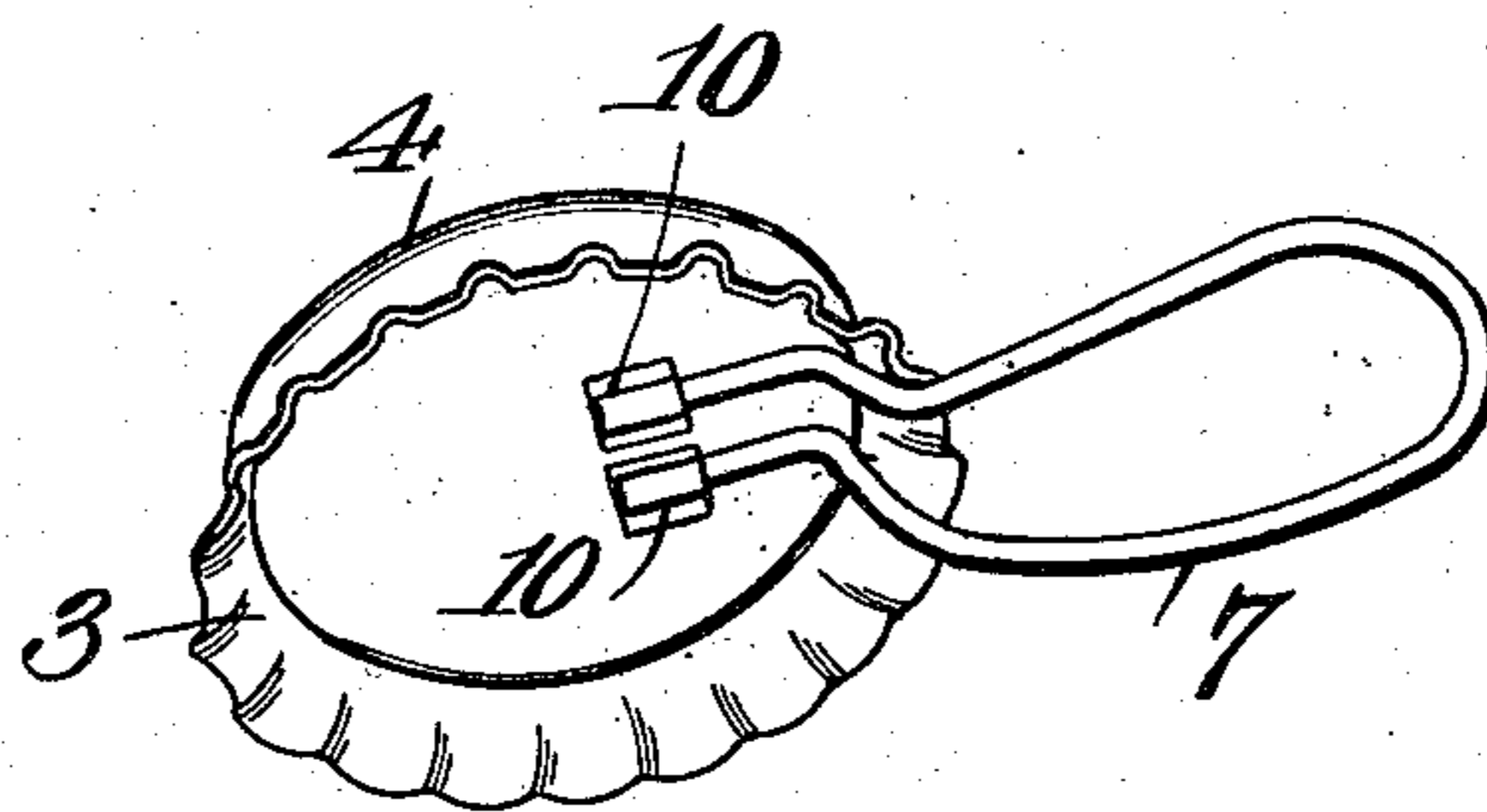
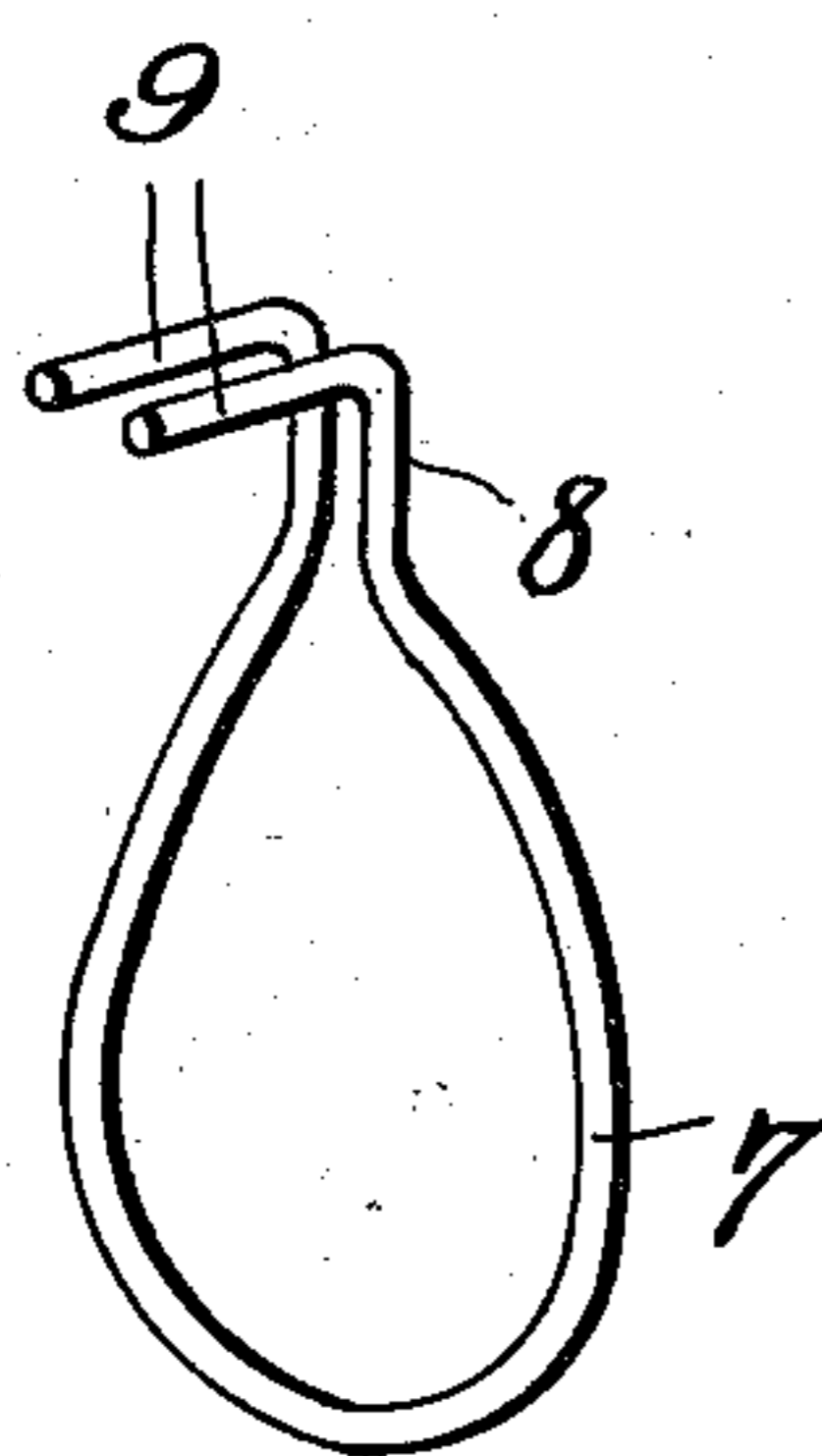


Fig. 4.

WITNESSES:

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ALBA CASSIUS BOOTH, OF BURLINGTON, VERMONT.

BOTTLE-CAP PULLER.

No. 847,892.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed August 29, 1906. Serial No. 332,516.

To all whom it may concern:

Be it known that I, ALBA CASSIUS BOOTH, a citizen of the United States, residing at Burlington, in the county of Chittenden and State of Vermont, have invented a new and useful Bottle-Cap Puller, of which the following is a specification.

This invention relates to caps for bottles, and more particularly to means whereby the caps can be readily pulled off of the bottles without the necessity of employing any separate tool for that purpose.

The object of the invention is to provide a cap-puller which can be conveniently used in connection with the ordinary bottle-caps and which when not in use will be out of the way and will not interfere with the packing of the bottles.

The invention consists of a looped wire, the ends of which are disposed between the cork and the metal of the cap, while the rear portion of said loop normally extends downward from the cap close to the neck of the bottle. This wire is fastened in place by the same operation followed in crimping the cap to secure it upon the bottle.

The invention also consists of certain other novel features of construction and combinations of parts, which will be hereinafter more fully described, and pointed out in the claim.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings, Figure 1 is a perspective view of a portion of a bottle having this invention applied thereto. Fig. 2 is a section through the cap and cork. Fig. 3 is a detail view of the puller detached, and Fig. 4 is a perspective view of a cap having a modified form of puller therein.

Referring to the figures by characters of reference, 1 is a bottle-neck having an annular bead 2, such as ordinarily employed, around the mouth thereof, and this bead is adapted to be engaged by the crimped flange 3 of a metal cap 4, such as commonly employed, said cap having a cork disk 5 and a paper disk 6 therein, the cork disk being adapted to clamp against the end of the neck, so as to seal it. The foregoing features do not constitute any part of the present invention, which relates to means whereby such a cap can be quickly removed from engagement with the bead 2. As shown in the drawings, this device consists of a wire bent to form a loop 7, while the ends thereof are bent laterally to form angularly-disposed ex-

tensions 9. These extensions are fitted between the disk 6 and the cap 4, and when the cap is secured in place the loop 7 fits tightly between the flange 3 and the bead 2 and lies close to the neck 1. The loop is brought into this position by the hood of the capping-machine usually employed for fastening the caps in place.

With the parts assembled in the manner described and as shown in Fig. 2 it becomes merely necessary when it is desired to open a bottle to bend the loop 7 upward and to insert a finger therethrough and pull upon it. The angular ends of the loop cannot, of course, be withdrawn from the cap, and therefore by exerting a sufficient pressure on the loop the flange of the cap will be pulled out of engagement with the bead 2.

Instead of forming the loop in a piece which is separate from the cap the same can be soldered thereto, as shown at 10 in Fig. 4.

It will be seen that this puller attachment can be made very cheaply and can be used in connection with the caps ordinarily employed without requiring the employment of any special form of machine for fastening it thereto or for placing it upon the bottle. As the loop rests close to the bottle-neck it will not prevent the bottles from being tightly packed nor will it detract from their appearance.

While it has been stated that the ends of the device should be inserted between the disk 6 and the top of the cap, it will of course be understood that, if preferred, said ends may be inserted between the cork and the disk.

The preferred form of the invention has been set forth in the foregoing description; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of the claim.

What is claimed is—

A pulling device for bottle-caps comprising a looped wire having substantially parallel portions, and parallel ends extending therefrom at an angle thereto.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALBA CASSIUS BOOTH.

Witnesses:

F. W. ELLIOTT,

WM. M. DULLAHAN.