

A. CHRISTIN.
Bottle-Stopper.

No. 161,863.

Patented April 13, 1875.

Fig: 1.

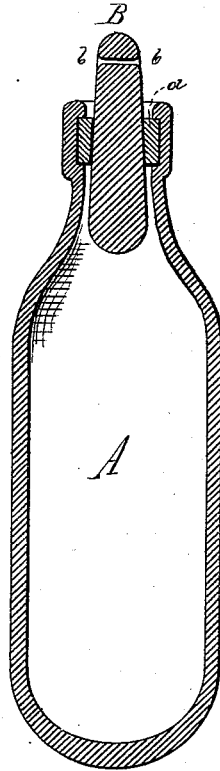
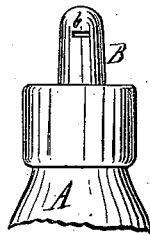


Fig: 2.



Attest.
Edward Barthel.
Witness

Inventor.
A. Christin
By Atty
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UNITED STATES PATENT OFFICE.

ARTHUR CHRISTIN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **161,863**, dated April 13, 1875; application filed December 21, 1874.

To all whom it may concern:

Be it known that I, ARTHUR CHRISTIN, of Chicago, in the county of Cook and State of Illinois, have invented an Improvement in Bottle-Stoppers, of which the following is a specification:

The nature of my invention relates to an improvement in bottle-stoppers of that class that are more especially intended to be used in bottles containing mineral waters and other gaseous fluids under pressure; and it consists in a tapered glass stopper of such length that it cannot turn in the bottle, in combination with a rubber, cork, or other ring expanded into a recess in the neck of the bottle, the said stopper having a socket formed in each side of its upper or smaller end, to enable it to be grasped by a pair of tongs while the bottle is being filled.

Figure 1 is a vertical section of a mineral-water bottle fitted with my improved stop and collar. Fig. 2 is a side elevation of the neck and stopper.

In the drawing, A represents a bottle having an annular groove or recess molded in its neck to receive an annular collar, *a*, of india-

rubber, cork, or other suitable material, which can be expanded into it. B is a tapered glass stopper, of such length that it cannot turn in the bottle, and which is to be inserted before the collar *a*. The top of the stopper has a pair of sockets, *b*, molded in its top, on opposite sides, or a hole may be molded entirely through, to receive the lower ends of a pair of tongs to hold it up while the bottle is being filled, drawing the stopper into the collar when the bottle is full, after which the internal pressure forces the stopper farther into said collar, and thus prevents leakage. To open the bottle, it should be reversed, and the stopper pushed inwardly.

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

The tapered stopper B, provided with the sockets *b*, in combination with a bottle whose diameter is less than the length of said stopper, and is provided with a collar, *a*, substantially as described.

ARTHUR CHRISTIN.

Witnesses:

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