(No Model.)

G. VODICKA.

BOTTLE STOPPER.

No. 586,981 Patented July 27, 1897.

Fig. 1.

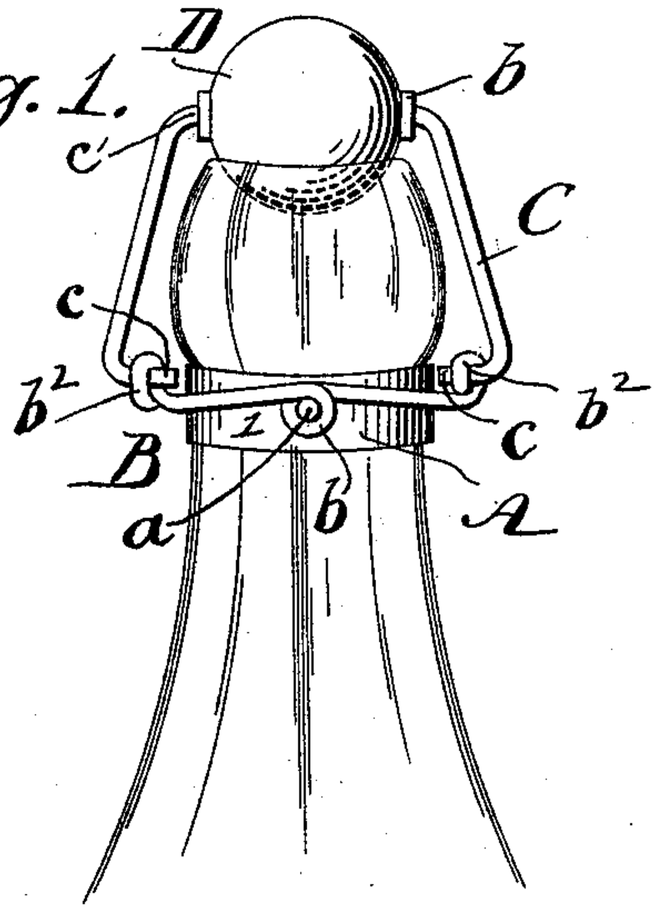


Fig. 2.

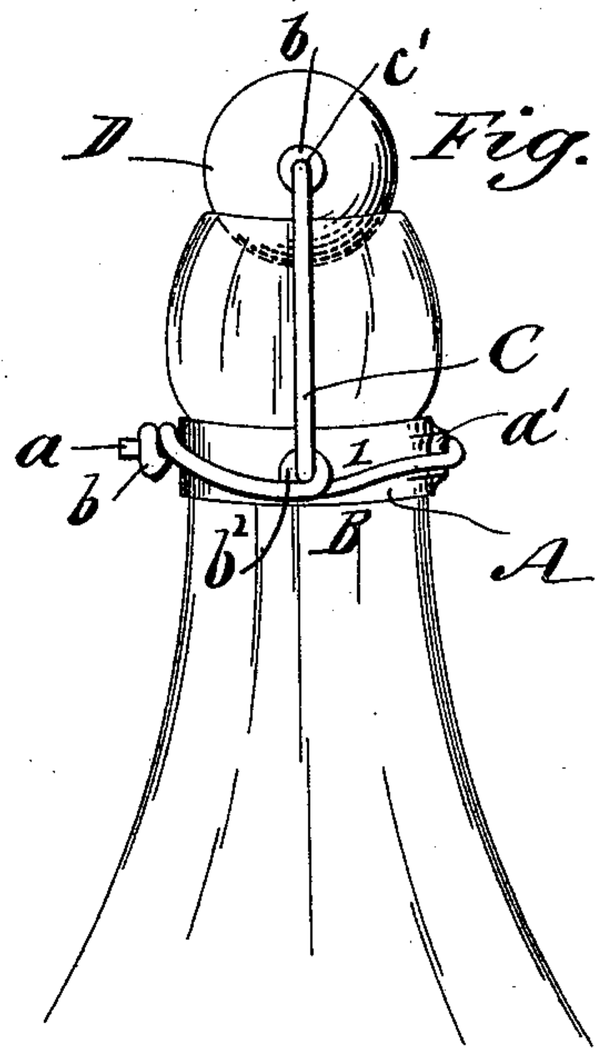


Fig. 3.

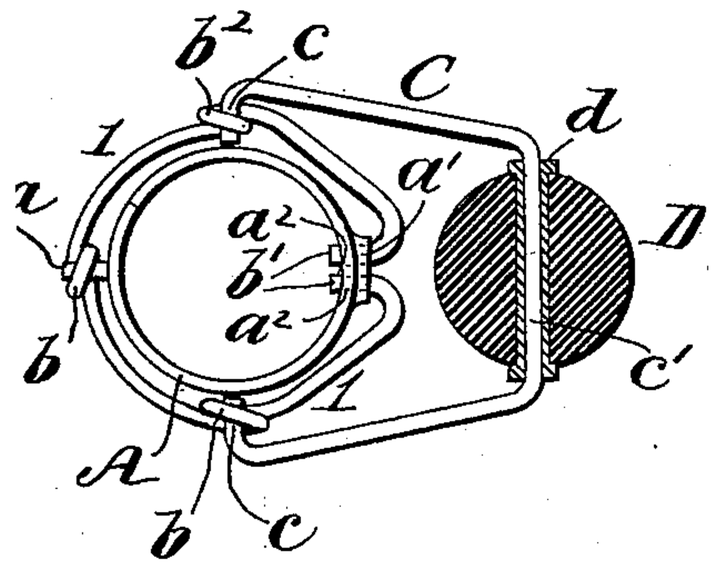
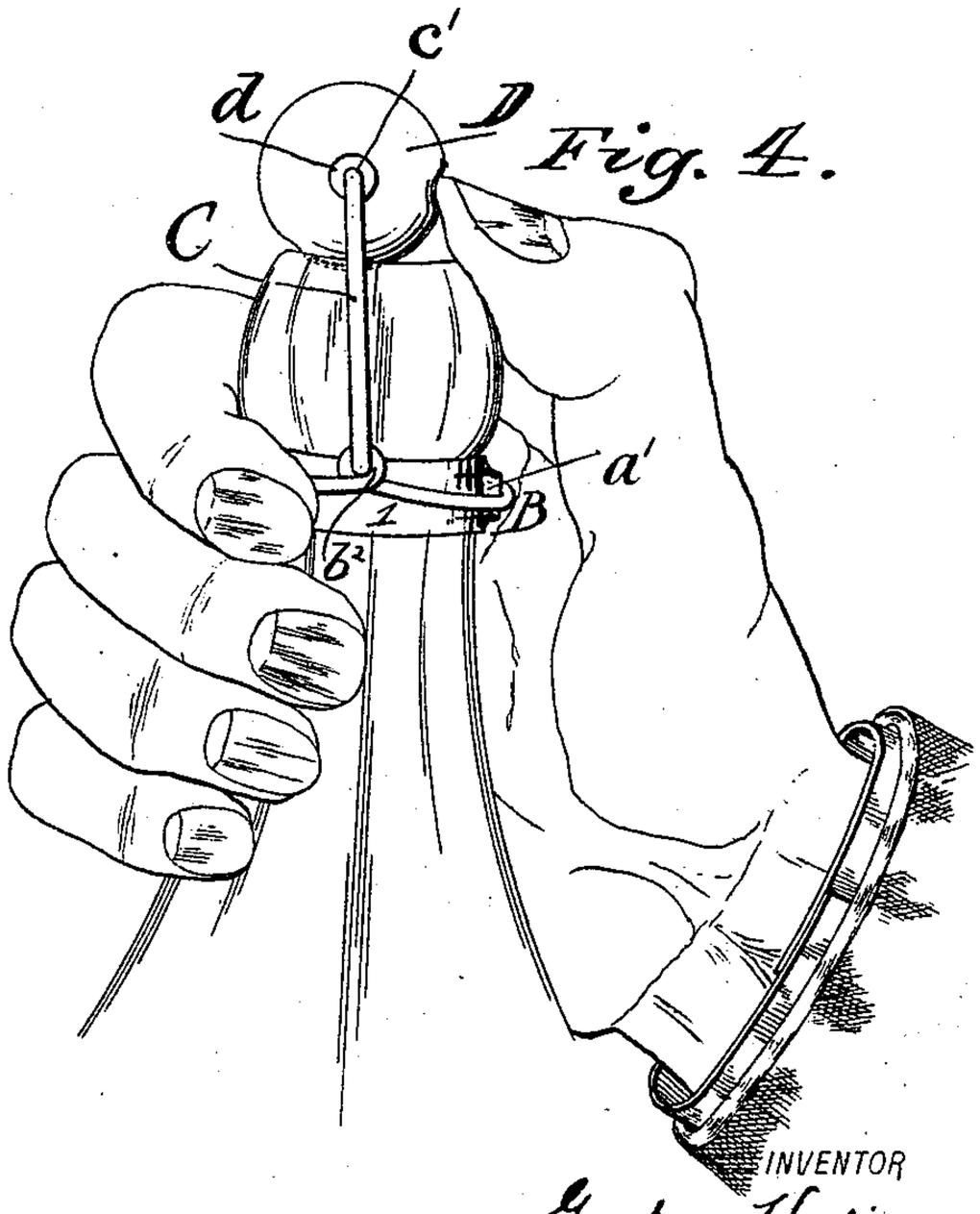


Fig. 4.



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UNITED STATES PATENT OFFICE.

GUSTAV VODICKA, OF NEW YORK, N. Y.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 586,981, dated July 27, 1897.

Application filed December 1, 1896. Serial No. 614,047. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV VODICKA, a citizen of the United States, and a resident of New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters and figures of reference indicate corresponding parts.

This invention relates to improvements in bottle-stoppers, the object thereof being to supply a durable and inexpensive article of this character for attachment to the neck of any common bottle, which is not liable to accidental displacement and which can be readily operated for opening the bottle with one hand and in either of two directions.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical elevation of the neck of a bottle having my improved stopper attached thereto. Fig. 2 is a similar view taken from another direction. Fig. 3 is a plan view of the device removed from the bottle, and Fig. 4 is a perspective view illustrating the mode of operating the invention when uncorking the bottle.

In the practice of my invention I provide, primarily, a split collar A, of resilient metal, whereby the same can be forced over the neck of a bottle to engage under the flange thereof. Projecting from one side of this said collar is a pin a, and from the opposite side is a lug a', which has apertures a^2 leading therethrough. Mounted upon this collar is a spring B, which is secured to the pin a by means of a loop b and to the lug a' by means of inwardly-projecting arms b'. This spring is further provided upon each side thereof with loops b^2, which engage with arms c of an approximately U-shaped bow C. This said bow has mounted thereon a flexible ball D, which acts as a stopper for closing the bottle, and the ball is preferably supplied with a tubular bearing d, which engages with the horizontal portion c' of the bow C.

The two side portions 1 of the spring B are normally depressed or looped downwardly, whereby the ball or stopper D is maintained in tight engagement within the neck of the bottle, as illustrated in Figs. 1 and 2 of the drawings.

To open the bottle, it is simply necessary to push against the ball D, as illustrated in Fig. 4 of the drawings. This action will draw the spring upwardly for the purpose of releasing the ball, and after the same passes beyond the edge of the neck of the bottle it will drop down and bear loosely against the side thereof.

The operation of closing the bottle is accomplished in a similar manner—that is, by forcing the ball beyond the outer edge of the neck—whereby, because of the resilient action of the spring B, it will be automatically forced within the neck of the bottle, thus forming a secure closure.

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

1. A bottle-stopper, comprising a split collar for engagement with the neck of a bottle and a circular spring mounted upon said collar and a bow connected to said spring and a revoluble ball mounted upon said bow, said ball adapted to close the neck of the bottle, substantially as shown and described.

2. In a bottle-stopper, the combination of a split collar having a resilient ring mounted thereon, said ring having loops forming part thereof which carry a swinging bow and a ball pivotally attached to the said bow for closing the neck of the bottle, substantially as shown and described.

3. The combination of the split collar having the pin and lug projected from opposite sides thereof and the circular spring mounted thereon; with the bow which engages with loops of the said spring and the ball of flexible material which is mounted on the horizontal portion of the bow, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 23d day of November, 1896.

GUSTAV VODICKA.

Witnesses:

C. SEDGWICK,

B. MCCOMB.