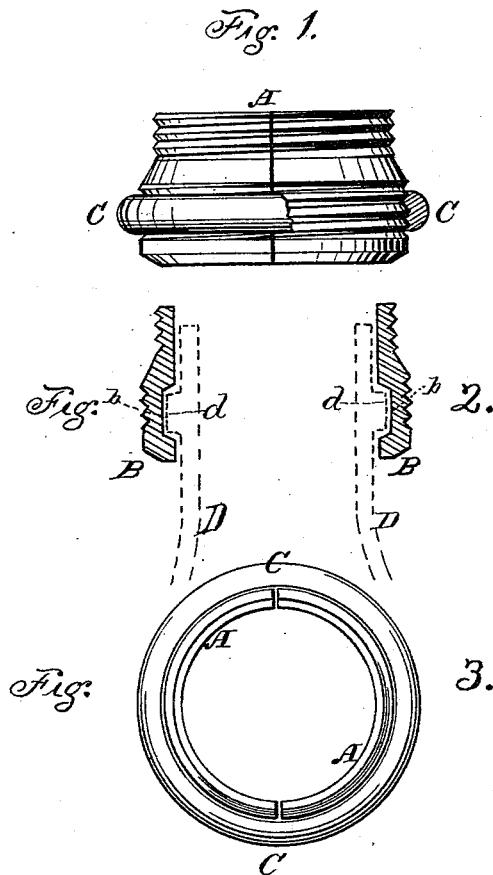


E. B. REQUA.
Removable Nozzle for Bottle.

No. 212,055.

Patented Feb. 4, 1879.



Witnesses.

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ELIAS B. REQUA, OF JERSEY CITY HEIGHTS, NEW JERSEY.

IMPROVEMENT IN REMOVABLE NOZZLES FOR BOTTLES.

Specification forming part of Letters Patent No. **212,055**, dated February 4, 1879; application filed August 5, 1878.

To all whom it may concern:

Be it known that I, ELIAS B. REQUA, of Jersey City Heights, Hudson county, New Jersey, have invented certain new and useful Improvements in Bottle-Tops for Effervescing Liquids, whereof the following is a specification:

This invention relates to that class of siphon-bottles in which the cap carrying the discharge spout or nozzle is screwed upon a nozzle arranged upon the neck of a bottle.

Its object is to provide an easily attachable and removable screw-threaded metallic nozzle for a bottle designed to receive a screw-threaded cap.

It consists in an externally screw-threaded nozzle or tube composed of two semi-cylindrical parts, having an internal configuration adapted to fit over and extend under a shoulder on a bottle-neck, and an internally screw-threaded ring adapted to fit around and engage with the lower portion of said nozzle or tube, forming a hoop to hold the two parts together, and leaving free the upper portion of the nozzle for the reception of a correspondingly screw-threaded cap.

In the accompanying drawings, Figure 1 is a side elevation of the invention, a portion of the hoop or ring being broken away. Fig. 2 is a vertical central section of the invention with the hoop or ring removed, and the position of the bottle-neck shown in dotted lines. Fig. 3 is a top view of the invention.

The letter A indicates the externally screw-threaded nozzle, composed of the two sections B B, and C is an internally screw-threaded ring or hoop, which fits upon and engages with the lower portion of said nozzle, and holds the two parts B B together. In the inner surface of the lower portion of the nozzle A is an annular recess, *b b*, which is adapted to embrace a projection or shoulder, *d*, upon the neck D of the bottle.

In the present instance the lower portion of the nozzle is represented as having a diameter somewhat greater than that of the upper portion, so that the shell of the nozzle may be of

very nearly uniform thickness from top to bottom; and, further, by this construction is avoided the necessity of screwing the hoop or ring C down over the entire length of the nozzle before bringing it to its proper place. This ring or hoop, when in place, besides performing its function of holding the two parts of the nozzle together, and permitting their ready separation and the removal and replacement of the nozzle, forms a neat finish for the base of the said nozzle, and is entirely independent of the attachment of the cap. After the cap is in place, therefore, the breakage or accidental displacement of the ring or hoop would not affect the cap.

My invention is intended mainly to be used in connection with bottles for aerated mineral waters or effervescent liquors, and to adapt said bottles to receive caps having discharge-spouts connected with tubes which project into the bottles; but, as will be seen, the nozzle may receive a simple internally screw-threaded cap, and may be applied to any bottle having its neck adapted to fit the interior of the said nozzle.

The method of engaging the interior of the nozzle with the neck of the bottle may, of course, be varied, and a projection from the nozzle may be adapted to engage in a recess in the neck, so that I do not confine myself to any particular configuration of the interior of the nozzle.

What I claim is—

The replaceable bottle-nozzle consisting of the separate screw-threaded sections B and the internally screw-threaded hoop or ring C, adapted to fit upon and engage with the lower portion of the nozzle when the two parts are placed together, leaving the upper portion free, said nozzle having its interior surface adapted to engage with and fit directly upon the neck of a bottle, substantially as described.

ELIAS B. REQUA.

Witnesses:

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