T. W. SYNNOTT.

Bottle.

No. 162,117. Patented April 13, 1875.

Fig. 1.

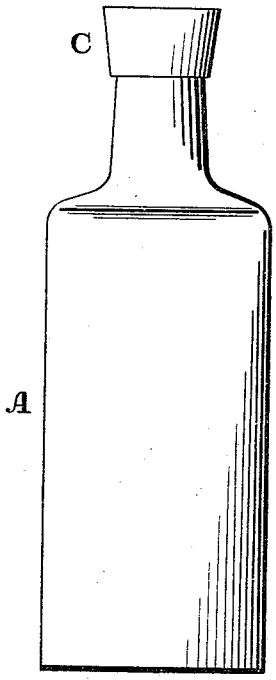
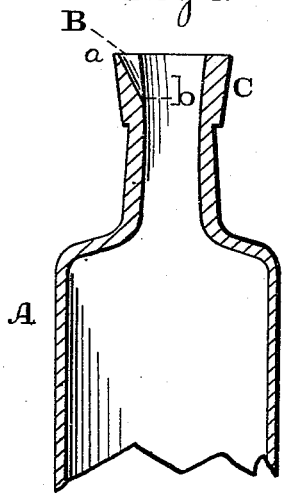



Fig. 3.



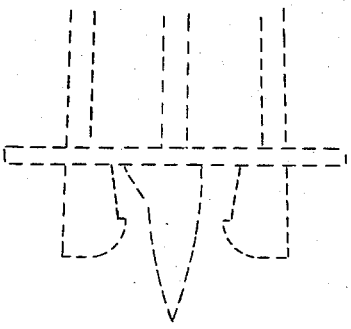



Fig. 4.

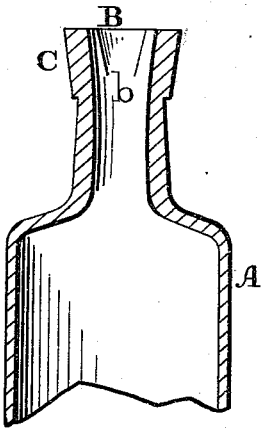
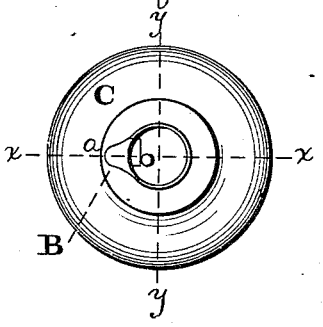



Fig. 2.

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Inventor:
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by John A. Siebenhaus
Atty.

# UNITED STATES PATENT OFFICE.

THOMAS W. SYNNOTT, OF WENONAH, NEW JERSEY.

## IMPROVEMENT IN BOTTLES.

Specification forming part of Letters Patent No. **162,117**, dated April 13, 1875; application filed March 20, 1875.

*To all whom it may concern:*

Be it known that I, THOMAS W. SYNNOTT, of Wenonah, in the county of Gloucester and State of New Jersey, have invented a new and useful Improvement in Bottles; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side elevation of the device embodying my invention. Fig. 2 is a top view thereof. Figs. 3 and 4 are vertical sections, respectively, in lines *x x* and *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

It is well known that glass-bottles are provided with "pour-outs" or spouts which project beyond the outer peripheries of the collars and are formed by drawing the heated glass outwardly, pinchers being employed therefor. Pour-outs or spouts thus constructed are objectionable, since their projection renders them liable to breakage, the uniformity of the circular shape of the collars cannot be preserved, and the extra manipulation of forming the pour-outs or spouts increases the expense of the bottles.

My invention consists in forming the pour-out on the inner face of the collar portion of the neck of the bottle, whereby the same will be readily produced, and is protected from breakage, and the periphery of the collar has a uniform, unbroken surface.

Referring to the drawings, A represents a bottle, which may of any desired form. B represents a channel, which extends from near the upper outer edge *a* of the collar C in a direction downwardly and inwardly, and terminates on the inner face *b* of the neck of the bottle, below the top edge thereof. This channel constitutes a pour-out or spout for directing or guiding the contents of the bottles while being discharged.

It will be seen that the periphery of the collar is unbroken, and while the bottle is provided with a pour-out there is no projection thereof beyond the surface of the collar, whereby danger of breakage thereof is avoided.

It is evident that the collars may be nicely rounded, so as to coincide one with another, the rotation of the bottle during the rounding operation not being obstructed, and subsequent formation of a pour-out is dispensed with, since such feature can be formed when the collar is being rounded. For this purpose the rounding-tool may carry a plug which is journaled to said tool, and formed with a shoulder or projection corresponding in shape to that of the pour-out to be formed. The plug will be forced into the neck of the heated bottle, so that its shoulder forms the pour-out, and said plug remains stationary in the neck, while the tool is rotated to round the collar.

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

The pour-out B, formed on the inner face of the collar portion of the neck of the bottle, and extending from near the upper outer edge *a* of the collar to the inner face *b* of the neck, thus leaving unbroken both the upper edge *a* and the outer periphery of the collar, substantially as and for the purpose set forth.

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