SYRINGE FILLING ATTACHMENT FOR BOTTLES

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To all whom it may concern:

Be it known that I, Glenn Owen Barnes, a citizen of the United States, residing at North English, in the county of Iowa and State of Iowa, have invented certain new and useful Improvements in Syringe-Filling Attachments for Bottles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in syringe filling attachments for bottles and more particularly to a means for determining when the filling tube is so positioned that all of the contents of the bottle may be withdrawn.

It is well-known that in conjunction with certain bottles, particularly bottles for holding certain substances such as vaccines and the like, the stopper of the bottle has extended there-through a tube the end of which is bent to incline to one corner of the bottom of the bottle so that all the contents may be withdrawn through this tube. However, such tubes are generally formed of light colored glass and accordingly are hardly visible when the bottle is held to the light.

An important object of this invention is to provide upon the tube exteriorly of the bottle an identification means showing the position of the bent portion of the tube with relation to the bottle.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:

Figure 1 is a sectional view through a bottle having a syringe filling attachment constructed in accordance with my invention; and

Figure 2 is a perspective view of the attachment removed.

Referring now more particularly to the drawings, the numeral 10 designates a bottle the mouth of which is closed by a cork 11 having a tube 12 extending there-through.

The lower end of this tube is bent, as at 13, so that its entrance end 14 is disposed adjacent the juncture of the wall and bottom of the bottle in which position it will withdraw all of the contents of the bottle if the bottle be inclined in the proper direction. The upper end of the tube is formed, as at 15, for engagement with a syringe 16 which is to be filled.

In accordance with my invention I provide upon that side of the tube remote from the bend 13 and upon that portion of the tube lying exteriorly of the bottle at teat flange 17. This teat discloses by its position the position of the lowermost portion of the tube and determines the direction in which the bottle must be tilted to insure the positioning thereof so that all of its contents may be withdrawn. The position of the teat or flange is immaterial but the position above referred to is preferred in that when so positioned this teat is disposed upwardly when the bottle is inclined and accordingly may be readily viewed to determine the proper inclination of the bottle.

While the invention is primarily intended for use with that type of bottle above described, in which the material from which the bottle is constructed is dark glass or similar opaque or non-transparent material, it will be obvious that tubes of this construction can be employed to advantage with bottles formed of clear glass, as it is often desired to employ the bottle either in the dark or in some ill-lighted place where it would be difficult to determine even with a clear glass bottle what the position of the tube might be, at which time the proper position could be determined by the engagement of the flange with the fingers.

I claim:

1. The combination with a bottle having a cork and a tube extending through the cork and having a flared upper end a bent lower end portion adapted to extend to a point adjacent the juncture of the side wall with the bottom of the bottle, of means upon the tube exteriorly of the bottle for determining the position of such bent end portion.

2. The combination with a bottle having a cork and a tube extending through the cork and having a flared upper end a bent lower end portion adapted to extend to a point adjacent the juncture of the side wall with the bottom of the bottle, of a flange upon the tube exteriorly of the bottle for determining the position of such bent end portion.

3. The combination with a bottle having
a cork and a tube extending through the cork and having a flared upper end a bent lower end portion adapted to extend to a point adjacent the juncture of the side wall with the bottom of the bottle, of a flange upon the tube exteriorly of the bottle for determining the position of such bent end portion disposed at that side of the tube remote from the bent end portion thereof and immediately below the flared upper end thereof.

In testimony I hereunto affix my signature.

GLENN OWEN BANES.