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NURSING BOTTLE

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Fig. 1.

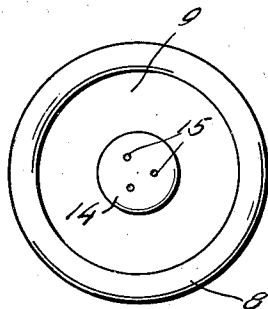
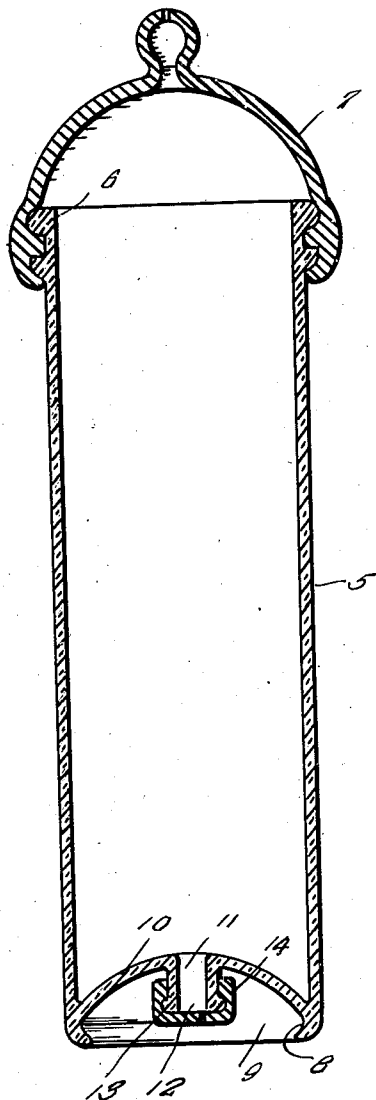


Fig. 2.

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NURSING BOTTLE

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1 Claim. (Cl. 215-11)

This invention relates to nursing bottles and the object of the invention is to improve upon that type of nursing bottle having associated therewith means for venting the bottle.

As is well known in the art bottles of the last named type have been proposed for the purpose of permitting air to enter the bottle in a manner to cause an easy flow of liquid food from the bottle through the nursing nipple; to prevent the child from sucking air through the nipple; and to otherwise overcome various difficulties attendant to the use of nursing bottles not otherwise equipped.

In accordance with the present invention, a nursing bottle of the type above mentioned is provided which will not only overcome the above mentioned difficulties but will insure positively against a collapse of the nursing nipple, and which will also provide against leakage of the liquid food contents regardless of whether the bottle is in use or not.

The invention together with its numerous objects and advantages will be best understood from a study of the following description, taken in connection with the accompanying drawing wherein:

Figure 1 is a longitudinal sectional view through a nursing bottle embodying the features of the present invention.

Figure 2 is a bottom plan view thereof.

Referring to the drawing by reference numerals it will be seen that 5 indicates generally a nursing bottle of conventional size and shape; the same being provided with the beaded neck 6 to receive the nursing nipple 7.

In carrying out the present invention, the wall of the bottle 5 at the bottom thereof is directed inwardly to provide a bead 8 disposed at the outer side of a concavity 9 formed at the bottom of the bottle by having the bottom wall 10 of the bottle of concavo-convex formation with the convex side of the wall disposed inwardly of the bottle in a manner clearly shown in Figure 1.

At its apex the bottom wall 10 is provided with a vent opening 11 and formed integral with the bottom wall 10 is a neck 12 that extends from the concave side of the bottom wall 10 and terminates at its free end a material distance inwardly from the open side of the concavity 9 so as not to interfere with the placing of the bottle in an

upright or perpendicular position relative to a table or similar support.

At its free end the neck 12 which is preferably formed of the same material as the bottle 5, namely glass, is provided with an external bead 13. For the free end of the neck 12 there is provided a cap 14, the same being formed of a suitable elastic material, preferably translucent rubber. In applying the cap 14 to the neck, the same is snapped over the bead 13 in a manner to secure the cap on the neck. At the crown or closed end thereof the cap 14 is provided with a plurality, preferably three, of relatively small apertures 15, and due to the resiliency of the material from which the cap 14 is made these apertures 15 are normally closed, it being apparent, that when the cap 14 is in an unexpanded or contracted condition the material of the cap about the apertures 15 contracts.

In actual practice, when the cap 14 is in its final position on the neck 12, the cap will be expanded in a manner to expand the apertures 15 to permit the passage of air therethrough and into the bottle 5 as the contents are drawn from the bottle thereby preventing collapse of the nursing nipple 7.

When desired the bottle 5 may be filled with liquid food, and when the bottle is not in actual service the cap 14 may be but partially applied to the neck 12 in a manner not to expand the cap sufficiently for expanding the material of the cap about the openings 15 and thus positively preclude leakage of the liquid food contents when the bottle is in a vertical position. When the bottle is to be used the cap 14 may then be pushed or otherwise manipulated to its final position on the neck 12 to expand the openings 15 for venting purposes.

Even though I have herein shown and described the preferred embodiment of the invention, it is to be understood that the same is susceptible of further changes, modifications and improvements coming within the scope of the appended claim.

Having thus described my invention, what I claim as new is:

A nursing bottle in addition to its usual flexible nipple engaging outlet having a concavo-convex bottom wall, the concave face of which is presented toward the bottom of the bottle and defining an outwardly opening recess in the bottom

of the bottle, said concavo-convex bottom wall being provided with a vent neck of relatively smaller diameter than, and concentric with the said usual nipple engaging outlet of the bottle; 5 said vent neck terminating at its free end inwardly of said recess and provided at said free end with an external bead, and a flexible cap provided with a relatively flat head and a skirt integral with the head, the skirt of the cap being 10 engaged with the vent neck and contractible about the neck behind the bead, and cooperating

with the bead of the vent neck to expand the head of the cap when the said head is in intimate engagement with the bead equipped end of the vent neck, said cap head having minute vent apertures therein that are normally closed by the inherent resiliency of the material of the cap when the latter is partially applied to the vent neck, and open for vent purposes upon a complete application of the cap to said neck.

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