Dec. 26, 1944. H. H. GANSON 2,365,947

NURSING BOTTLE

Filed Aug. 26, 1941

Fig. 1.

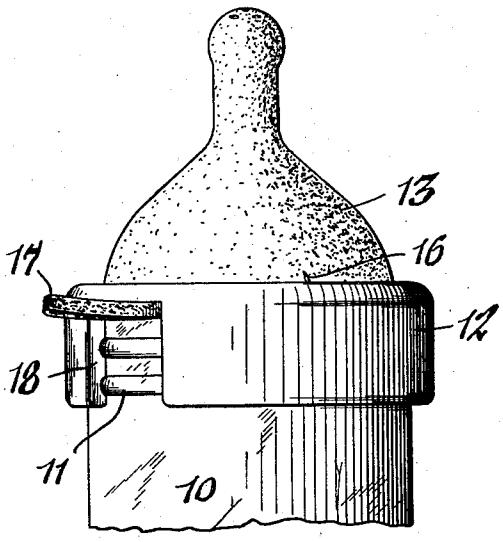


Fig. 2.

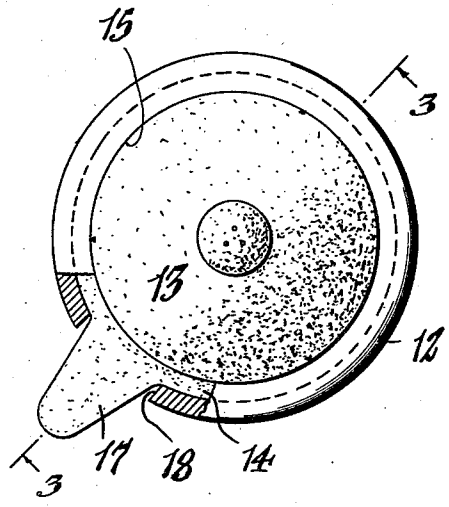


Fig. 3.

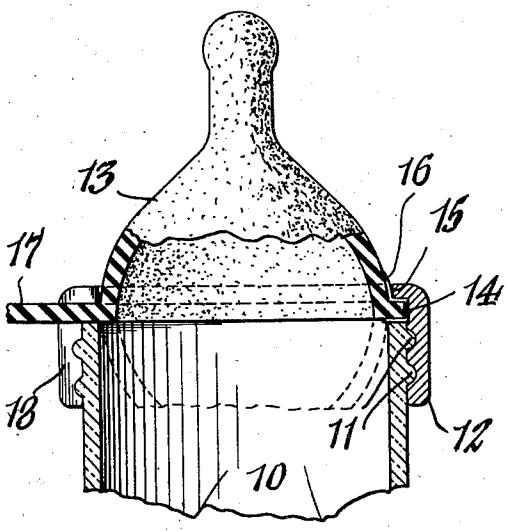
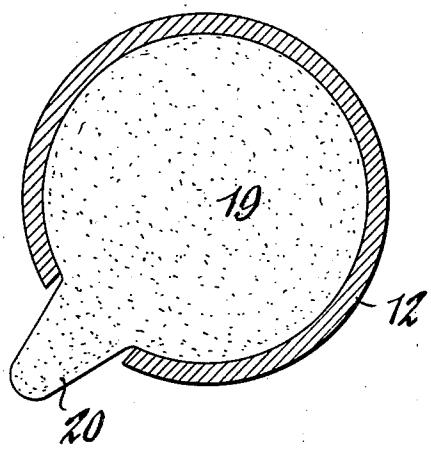


Fig. 4.



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Patented Dec. 26, 1944 2,365,947

UNITED STATES PATENT OFFICE

2,365,947

NURSING BOTTLE

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Application August 26, 1941, Serial No. 408,358

4 Claims. (Cl. 215—11)

This invention relates to certain new and useful improvements in nursing bottles and more particularly to an infant feeding cell wherein the nipple is retained in place by a detachable cap or cover.

It has for one of its objects to so design the nipple and retaining cap as to insure the ready and convenient application of the nipple to and from the bottle without the user having to touch the bulbous or mouth-receiving portion of the nipple while so doing, all to the end of preventing contamination of the nipple by contact with the user's hands and assuring maximum sanitation in the handling of the nipple particularly when applying it to the bottle immediately before feeding.

Other features of the invention reside in the construction and arrangement of parts hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawing:

Figure 1 is a fragmentary side elevation of my improved nursing bottle. Figure 2 is a top plan view thereof, partly in section. Figure 3 is a cross section thereof taken substantially in the plane of line 3—3, Figure 2. Figure 4 is a horizontal section showing the invention in connection with a sealing disk.

Similar characters of reference indicate corresponding parts throughout the several views.

By way of example, my invention has been shown in connection with a neckless, wide-mouthed food cell or bottle 10 provided at its upper end with thread-forming ribs or beads 11 with which the mating portions of a detachable cap or cover 12 are engageable for removably clamping a nipple 13 in place on the bottle. This nipple is of the breast type and terminates at its lower end in an outwardly-facing base-flange 14, while the cap is provided in its top with a central opening 15 through which the nipple projects, in the manner shown in Figure 1. In this position, it will be further noted, that the base-flange of the nipple is effectually clamped between the top of the bottle and the opposing portion of the cap surrounding its opening 15, whereby to effectually seal and prevent leakage of the bottle contents during feeding. Venting of the bottle during feeding may be accomplished by providing the nipple with a bead 16 or the like which extends around the base-flange 14 of the nipple, as shown in Figure 3, to provide resulting air passages between the nipple, the bottle and the cap.

Projecting outwardly from the nipple-flange 14 and substantially radially thereof is a tab or finger piece 17 for facilitating the ready and convenient application of the nipple to and from the bottle without the user having to touch the bulbous portion of the nipple while so doing. The nipple-retaining cap has an opening 18 in the side thereof with which the nipple-tab registers and through which it normally projects in the manner shown in Figures 1 and 2. This opening is preferably in the form of a downwardly opening notch with its upper or closed end flush with the bottom face of the top side of the cap, whereby in the applied position of the latter it bears firmly against the nipple-flange 14 and against the inner end of the tab, as shown in Figure 3. When not in use, the nipple may be inverted, as shown by dotted lines in Figure 3, to seal the contents of the bottle. If desired, however, a separate sealing disk 19, shown in Figure 4, having a tab 20 may be provided with each bottle to seal its contents, this disk being clamped in place by the cap 12, in the same manner as the nipple, with its tab projecting through the cap-notch 18.

By this construction, a sanitary nursing bottle is provided which effectually facilitates the application and removal of the nipple to and from the bottle with a minimum of effort, the unit being designed to eliminate any stretching of the nipple over the bottle. In applying the nipple, the user grasps the same by the tab 17, places it with the base-flange 14 thereof over the top edge of the bottle, and then applies the cap 12 with the notch 18 thereof registering with such tab, after which the cap is screwed tightly in place to clamp the nipple in sealing engagement with the bottle. The removal of the nipple is effected by a reversal of these steps and at no time is it necessary for the user to touch the bulbous portion of the nipple, thereby preventing its contamination and assuring maximum sanitation in the feeding of the infant.

I claim as my invention:

1. In combination, a nursing bottle having a cap detachably connected to the open end thereof, and a nipple disposed to be retained on the bottle by said cap and having a tab projecting radially therefrom, the cap having an opening therein through which the nipple-tab normally projects and against the top side of which tab the bottom edge of such cap-opening bears in the assembled position of the parts.

2. In combination with a nursing bottle and a nipple having an attaching base flange and a tab projecting outwardly from the base flange, of a cap detachably applied to the bottle for engagement with the base flange for clamping the nipple thereto, and having a downwardly-opening

notch therein for registering engagement with said nipple-tab.

3. In combination, a nursing bottle having thread-like means at the open end thereof, a cap for detachable connection thereto having an opening in the top thereof and a downwardly-opening notch in the side thereof, and a nipple adapted to protrude through said cap-opening and having a base-flange adapted to be clamped between the open end of the bottle and that portion of the cap surrounding its opening, said nipple having a tab projecting outwardly from the base-flange thereof for register with the notch of said cap, the top edge of said notch bearing against the top side of the nipple-tab in the assembled position of the tab.

4. In combination, a nursing bottle having a cap detachably connected to the open end thereof, said cap having an opening in its top centrally thereof and a notch in the side, and a flanged member having a nipple formed thereon adapted to be reversably clamped between the bottle and the cap in a bottle-sealing or nipple-feed position and having a tab projecting therefrom for registering engagement with said cap-notch.

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