

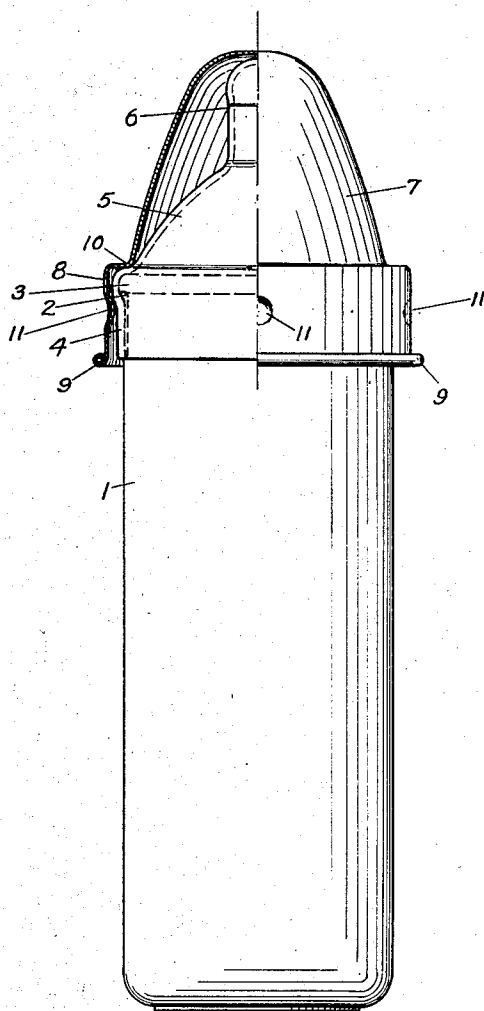
March 4, 1930.

R. BURTCHAELL

1,749,313

SANITARY NURSING BOTTLE CAP

Filed Jan. 8, 1929



INVENTOR

ROY BURTCHAELL

BY

A. D. T. Libby

ATTORNEY

UNITED STATES PATENT OFFICE

ROY BURTCHAELL, OF NEWARK, NEW JERSEY

SANITARY NURSING-BOTTLE CAP

Application filed January 8, 1929. Serial No. 331,117.

This invention relates to a sanitary cap for nursing bottles and has for its principal object the provision of a cap which can be placed over the nipple and securely held in position on the neck of the bottle so as to provide a seal at the junction of the two portions of the cap and the bead around the bottle, whereby dust, dirt, etc., are prevented from coming in contact with the projecting portion of the nipple, and so keeping the same clean and ready for use.

Another object of my invention is to provide a sanitary cap which is simple and cheap to make, yet one that is efficient in operation and one that is easy to keep clean.

My invention will be readily understood by reference to the drawing, in which—

Figure 1 shows a bottle with the nipple attached thereto and cap in position, a quarter-section of the cap being removed to more clearly show the construction.

In this figure, 1 illustrates a bottle having a neck 2 and a bead 3 which is closely adjacent the mouth of the bottle. Fitting over the bead 3 and downwardly over the neck 2 of the bottle, is an enlarged portion 4 of a nipple 5, having a projecting part 6.

The protecting shield or cap 7 is preferably made of metal, aluminum being preferred. The cap 7 has an annular base portion 8, the side wall of which is substantially straight, extending downwardly over the neck 2 of the bottle. The lower edge of the portion 8 is upset, forming an annular flange 9 which acts to stiffen the base 8 and to limit the amount which the base portion 8 may be spread during the action of pushing the cap over the bead 3 of the bottle.

The upper edge of the base portion 8 is drawn inwardly, forming an annular shoulder 10 and above this point the cap 7 is conical in shape. The base portion 8 is provided with a plurality of indentations 11, four being illustrated in the drawing, which indentations act to press the portion 4 of the nipple 5 against the neck of the bottle below the bead 3, thereby locking the cap 7 in position over the bead 3 and drawing the shoulder 10 against the nipple 5 approximately at the upper edge of the bead 3, thus sealing that

portion of the nipple above the shoulder 10 within the conical part of the cap 7.

By providing the base portion 8 of the cap with the annular flange 9 which is substantially nonspreadable, I have obtained a construction by which the cap can be very securely held in position. I have found from tests that caps made with spring fingers or slitted edges, do not retain their hold on the top of bottles even though the bottles are provided with special necks, and are very easily knocked or pulled off the bottle accidentally by getting caught on objects around an infant's carriage, where my improved form of protecting cap is particularly adapted for use.

The indentations 11 in the base of the cap are positioned above the stiffening flange 9, so that they can be sprung over the nipple and the bead 3, but the flange 9 being non-expanding, holds these indentations securely under the bead 3 as described.

Having thus described my invention, what I claim is:

1. In combination with a nursing bottle having a bead on the bottle neck adjacent its mouth and a nipple fitting on the neck over said bead; a cap for protecting the nipple having; a one-piece part for enclosing the projecting part of the nipple, and also having an annular base portion terminating in an integral annular stiffening flange around the neck of the bottle below said bead, said base portion at its junction with said nipple enclosing part resting against said bead, forming with the nipple at that point a seal, and means on said base portion for securely holding the cap in position to maintain said seal.

2. In combination with a nursing bottle having a bead on the bottle neck adjacent its mouth and a nipple fitting on the neck over said bead; a cap for protecting the nipple having; a conically-shaped one-piece part for enclosing the projecting part of the nipple, and an unbroken annular base portion extending from the conical part downward over the bead and neck of the bottle and terminating in an integral annular stiffening flange, said base portion having indentations

therein to snap over said bead to securely draw the junction of the base and conical parts tightly against the nipple over the bead.

3. A one-piece nursing bottle cap for protecting a nipple to be placed on the bottle, said cap having an unbroken annular base portion with substantially straight sides, said base having a strengthening substantially non-spreadable flange around its outer periphery and an annular shoulder at its inner periphery, and a conical part extending from said annular shoulder, said base having indentations to snap over a bead on the bottle for the purposes described.

4. A one-piece cap, for protecting a nipple of a nursing bottle which has a bead near its mouth to receive the enlarged portion of a nipple, having a conical part to fit over the projecting part of the nipple, and a bottle engaging portion joined to the base of the conical part by an annular shoulder, said bottle engaging part extending downward throughout its whole periphery to encompass the neck of the bottle and terminating in an annular substantially non-spreadable flange, and having indentations to be forcibly snapped over the nipple and bead to draw the shoulder of the cap against the nipple and the bead.

In testimony whereof, I affix my signature.
ROY BURTCHAELL.