

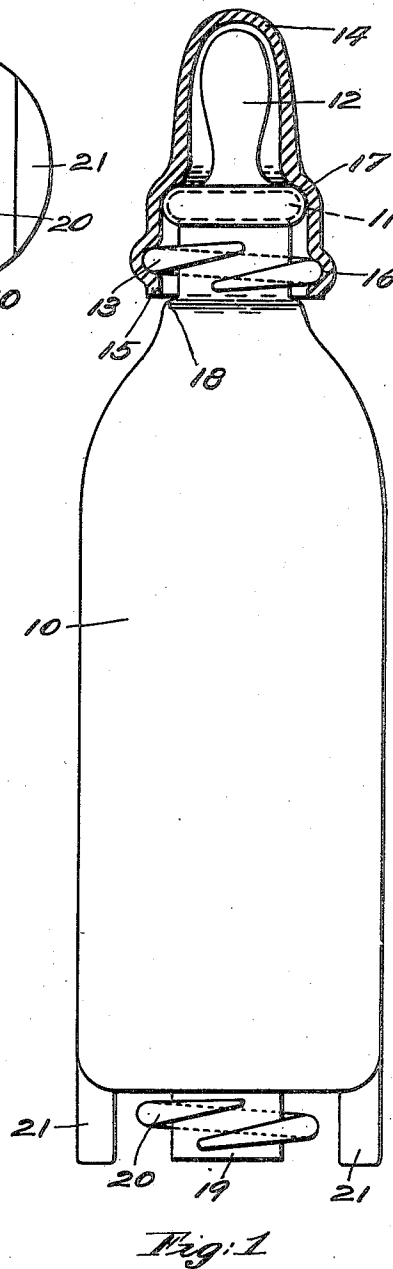
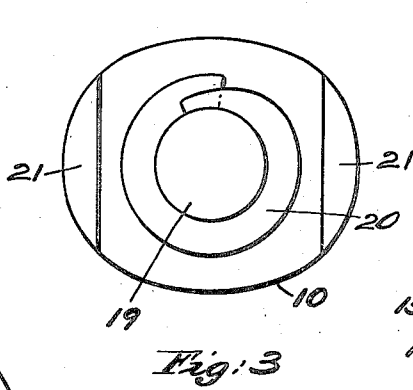
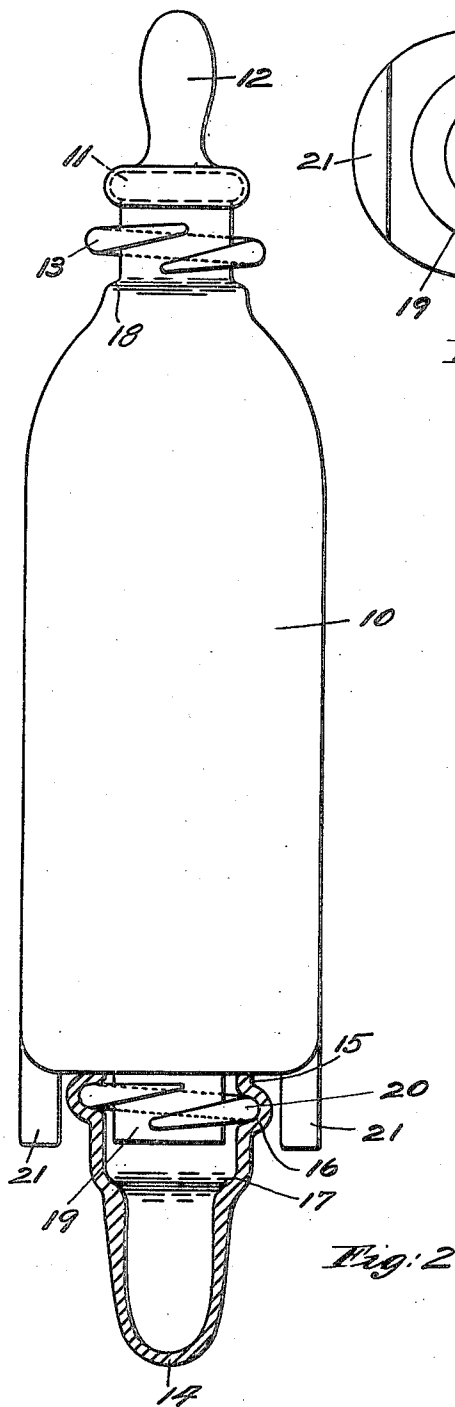
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R. J. HAGERTY

NURSING BOTTLE

Filed April 27, 1921



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NURSING BOTTLE.

Application filed April 27, 1921. Serial No. 464,830.

To all whom it may concern:

Be it known that I, ROBERT J. HAGERTY, a citizen of the United States, residing at the city of Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Nursing Bottles, of which the following is a specification.

The leading object of the present invention may be said to reside in the provision of a novel form of nursing bottle in which the neck thereof is provided with a closure for and cooperating with the nipple of the bottle for positively preventing leakage of the bottle contents.

A further object of the present invention resides in the provision of means for hermetically sealing the bottle contents thereby maintaining the same free from the attack of germs and other exterior matter, flies, insects and the like.

A still further object is to provide a novel form of nursing bottle which may be positioned upon its base, in a vertical position, yet is provided with means for temporarily retaining the nipple closure when the bottle is being filled or otherwise used.

Other and further objects relate to the provision of general arrangements, connections and combinations of parts for attaining the results set forth in the foregoing objects.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features and scope of the invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, and in which:

Fig. 1, is a view in elevation, partly in section, of a nursing bottle embodying features of the invention and illustrating the nipple closure in normal position.

Fig. 2, is a similar view illustrating the nipple closure in temporary position, and

Fig. 3, is a view of the underside of the nursing bottle.

For the purpose of illustrating my in-

vention, I have shown in the accompanying drawings one form thereof which is at present preferred by me, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

In the drawings 10 designates a nursing bottle, formed of glass, the neck of which is provided with an annular bead 11 adapted to be fitted over which is the lower end of a conventional nipple 12 of elastic material as rubber. At the time of manufacture of bottle 10, I form integral with the neck thereof a relatively coarse, exterior screw-threaded portion 13. The outer dimension of the screw-threaded portion is in excess of that of the bead 11 so that a nipple closure, cover or protector may be caused to co-operatively engage with the screw-threads of the bottle neck. In practice the nipple closure is also preferably made of glass and comprises an imperforate dome-like top 14 terminating in a depending portion or skirt 15 interiorly screw-threaded as at 16. At the juncture of the top and skirt there is formed interiorly a shoulder 17 for impinging against that part of the nipple which overlies bead 11. Thus when the nipple closure is screwed to place the nursing bottle is hermetically sealed so that the bottle contents cannot leak therefrom, and germs, dust, dirt, flies, insects and the like are prevented from attacking the bottle contents. Since the nipple closure is made of glass it may be sterilized along with the bottle so that the entire outfit may be maintained in a sanitary condition. Immediately below the screw-threaded portion of the bottle neck I prefer to form an outstanding, annular portion 18 of a diameter slightly in excess of the bottle neck but smaller than the diameter of skirt 15. Such annular portion in effect forms the juncture of the neck with the tapering portion of the bot-

the body and as the rim of the skirt 15 slightly covers said annular portion 18 a good appearance is provided. In order to provide a safe place in which to retain the nipple closure when the bottle is in use I form integral with the bottle bottom a central, annular depending portion 19 exteriorly screw-threaded as at 20. Thus when the closure is removed from the bottle neck it may be 10 screwed to place upon the bottle bottom for safe keeping. In order that the bottle may stand in upright position without tilting, it is necessary that the bottle be provided with supporting means. In the drawings I have shown integral with the bottle a pair of lugs 15 21 disposed opposite to one another. By this construction, the above described bottle bottom may be more readily molded than if instead of lugs an annular rim or skirt portion 20 was provided for the bottle to rest upon.

It will now be apparent that I have devised a novel and useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description and while 25 I have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of 30 modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

35 What I claim is:

1. In an article of the character stated a bottle having a neck formed with an external screw-thread and with a bead, a nipple the lower end of which engages over said bead 40 and a nipple closure of rigid material comprising an imperforate dome and a skirt formed with an internal screw-thread arranged to engage the screw-thread of said neck said closure being provided with an internal shoulder at the juncture of said dome 45 and skirt for impinging upon that portion of the nipple expanded over said bead whereby the bottle contents may be hermetically sealed.

50 2. In an article of the character stated a bottle the bottom of which is permanently closed and is provided with an annular, depending extension formed with an external screw-thread to receive a nipple closure when 55 not in use and means depending from said bottle bottom upon which the bottle may stand when such nipple closure is in use.

3. A construction as described in claim 1, 60 characterized by means carried by the bottle bottom to receive said nipple closure when not in use said bottle bottom being permanently closed and being further provided with means upon which the bottle may stand when said nipple closure is in use.

4. A construction as described in claim 2, 65 characterized by said bottle having a neck formed with an external screw-thread and with a bead, a nipple the lower end of which is expanded over said bead and a nipple closure comprising an imperforate dome and 70 a skirt formed with an internal screw-thread arranged to engage the screw thread of said neck said closure being provided with an internal shoulder for impinging upon that portion of the nipple expanded over said 75 bead.

5. In an article of the character stated a bottle the mouth of which is provided with a bead to receive a nipple, a nipple the skirt of which is expanded over said bead, and a 80 closure of rigid material consisting of an imperforate dome for inclosing the nipple and a skirt for inclosing the mouth part of the bottle, the juncture of said dome and skirt forming an annular, internal shoulder 85 for seating upon that portion of the nipple expanded over said bead, means being present for drawing said skirt toward the bottle to increase the impinging relation of 90 said parts.

6. In an article of the character stated a bottle the bottom of which is permanently closed and which is shaped and proportioned to receive a nipple closure when the latter 95 is not in use.

7. In an article of the character stated a bottle the bottom of which is permanently closed and which is externally screw-threaded to receive a nipple closure when the latter 100 is not in use.

8. In an article of the character stated a bottle the bottom of which is permanently closed and which is shaped and proportioned to receive a nipple closure when the latter 105 is not in use but so arranged that the bottle may stand upon its bottom when the nipple closure is fitted to the bottle top.

9. In an article of the character stated a bottle the mouth of which is provided with a bead to receive a nipple, a nipple the skirt of which is expanded over said bead, a substantially conical closure of rigid material consisting of an imperforate dome for inclosing the nipple and a skirt for inclosing 110 the mouth part of the bottle, the juncture of said dome and skirt forming an annular internal shoulder for seating upon that portion of the nipple expanded over said bead, means 115 for drawing said skirt toward the bottle to increase the impinging relation of said parts and means upon the bottle bottom to receive said closure when not in use. 120

10. A construction as described in claim 9, characterized by the bottle being shaped to permit it to stand upon its bottom when the closure is in use at the bottle top. 125

11. In an article of the character stated a bottle the mouth of which is provided with a

head to receive a nipple, a nipple the skirt of which is expanded over said bead, a closure of rigid material consisting of an imperforate dome inclosing the nipple and
5 extending over the mouth part of the bottle, said dome having an annular, internal shoulder for seating upon that portion of the nipple expanded over said bead and means for drawing said dome toward the bottle to increase the impinging relation of said 10 shoulder and nipple.

In testimony whereof, I have hereunto signed my name.

ROBERT J. HAGERTY.