

No. 805,641.

PATENTED NOV. 28, 1905.

H. F. GALLAGHER.
NURSING BOTTLE.

APPLICATION FILED DEC. 17, 1904.

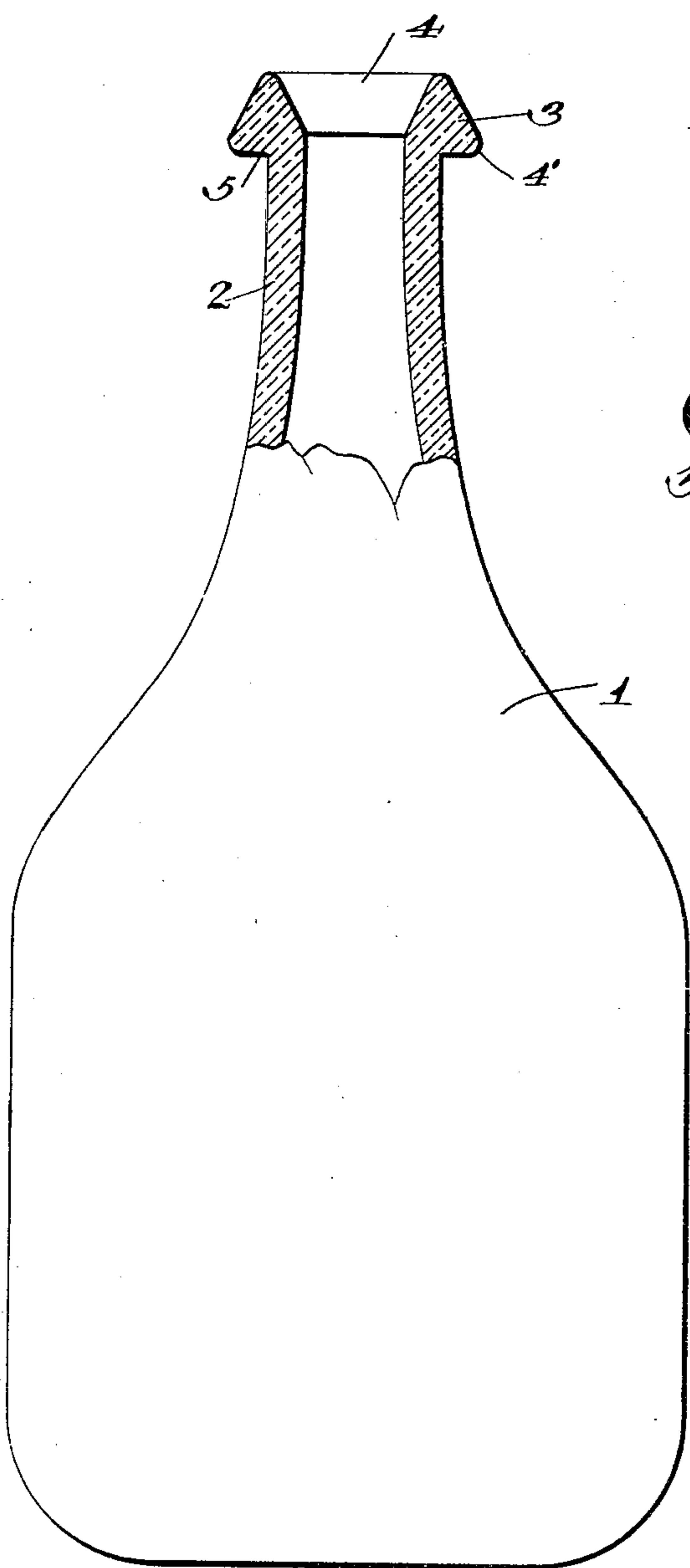


Fig. 1.

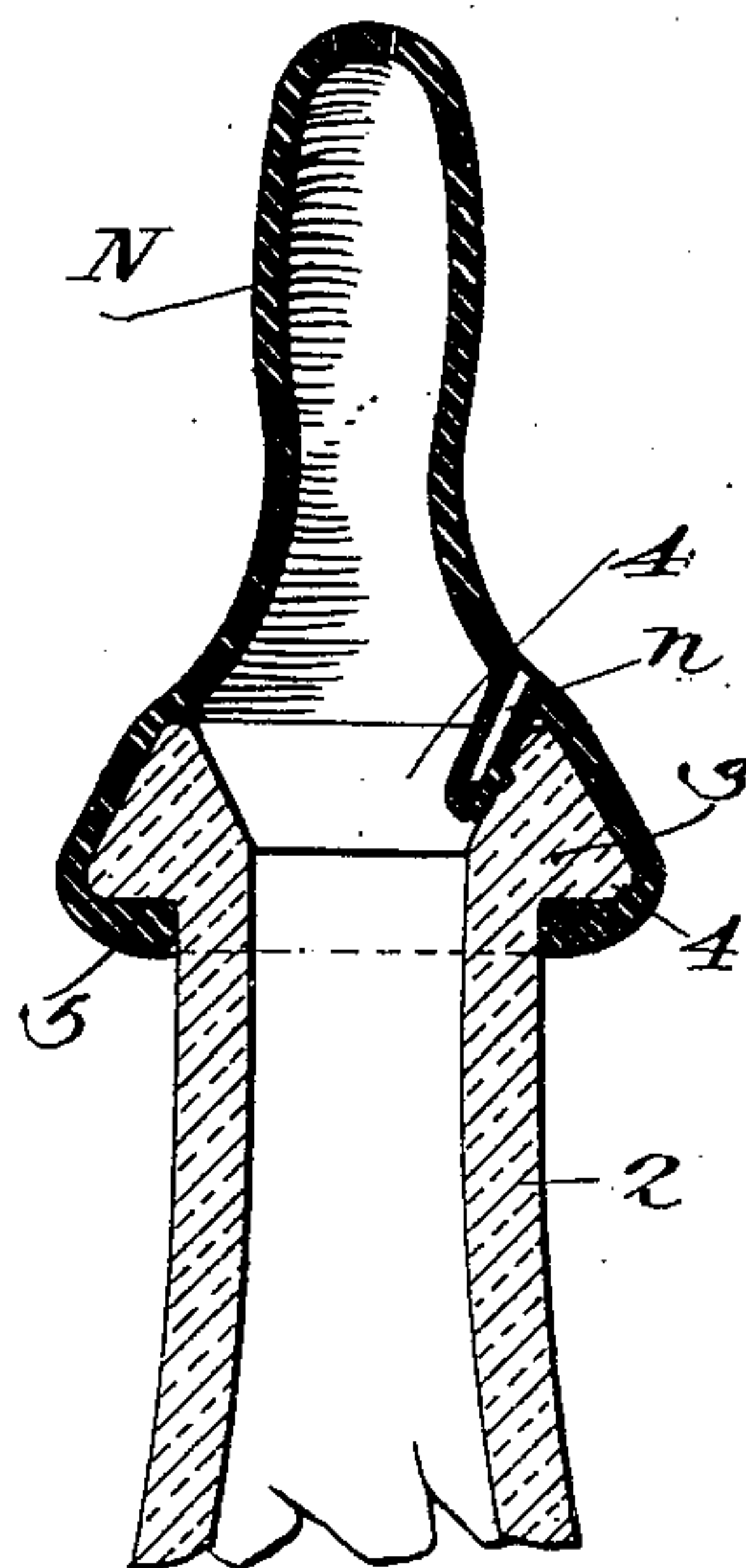


Fig. 2.

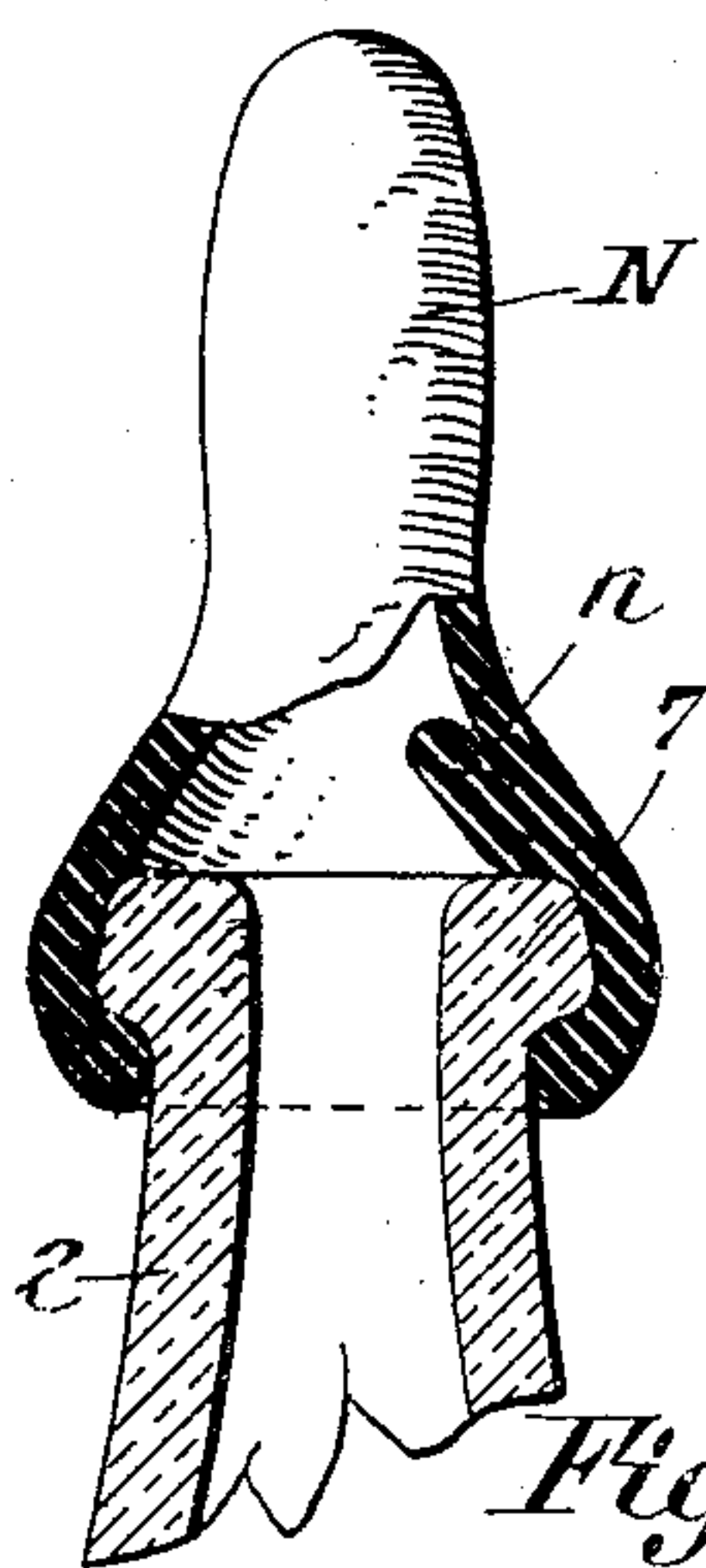


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

HUGH F. GALLAGHER, OF SALTSBURG, PENNSYLVANIA.

NURSING-BOTTLE.

No. 805,641.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed December 17, 1904. Serial No. 237,291.

To all whom it may concern:

Be it known that I, HUGH F. GALLAGHER, a citizen of the United States, residing at Saltsburg, in the county of Indiana and State of Pennsylvania, have invented a new and useful Nursing-Bottle, of which the following is a specification.

This invention relates to nursing-bottles.

Nursing-bottles in general use all have a straight bore and rounded rim. The objections to this construction are that the air-valve that is combined with most nipples now in use is mashed or bent by contact with the upper edge or inner wall of the rim and is thus rendered inoperative, that considerable difficulty is encountered in positioning the nipple upon the rim, and that owing to the rounded contour of the rim the connection or engagement between it and the nipple is not a secure and positive one, so that disconnection between the parts frequently ensues in use which results in the loss of the contents of the bottle and other objectionable features.

The objects of the present invention are to improve the neck portion of a bottle in such manner as to facilitate the application of the nipple thereto, to render the connection between the bottle and the nipple more stable and tenacious in character, to obviate any interference between the neck of the bottle and the air-valve now generally combined with nipples, and generally to improve and render more efficient bottles of the character described.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction of a bottle-neck, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof.

In the drawings, Figure 1 is a view in elevation, partly in section, of a bottle constructed in accordance with the present invention, exhibiting the construction of the mouth and the rim. Fig. 2 is a fragmentary detail view in section, exhibiting the neck portion of the bottle shown in Fig. 1 with the nipple ap-

plied thereto and displaying the manner in which the air-vent valve is disposed within the mouth of the rim. Fig. 3 is a view similar to Fig. 2, exhibiting the ordinary bottle-neck and showing wherein the valve by contact with the mouth of the rim is deflected, and thus rendered inoperative.

Referring to the drawings, and to Figs. 1 and 2 thereof, 1 designates the body of the bottle; 2, the neck; 3, the rim; and 4 the mouth. The neck and body of the bottle may be of the usual or any preferred construction, the form herein shown being exhibitiv of one style that may be employed.

The gist of the present invention resides in the novel manner of constructing the rim 3 and mouth 4, whereby the connection between the nipple N and the neck will be of more positive character and whereby, further, the vent-valve *n* of the nipple will not be deflected or bent upon itself and thus rendered inoperative. The first function is secured by making the periphery or outer wall of the rim a truncated cone with its periphery slightly rounded, as at 4, to avoid sharp corners and any danger of cutting the nipple, and its under side or shoulder 5 being square or approximately at right angles to the longitudinal axis of the neck, whereby, as clearly shown in Fig. 2, the mouth of the nipple will be firmly held in position against accidental separation, the pitch of the sides of the cone being such as to cause the nipple to cling tenaciously to the rim under any strain to which it may be subjected in use. By having the outer walls of the neck straight and on the lines of a true cone the same will act as a wedge when the nipple is applied thereto, and thereby facilitate its positioning. The second function is secured by making the mouth concaved or an inverted truncated cone, presenting thereby deflecting-surfaces against which the nipple-valve N may lie and which will preclude the possibility of the valve being mashed or bent upon itself, as shown in Fig. 3, which exhibits the form of bottle neck and rim in common use.

It will be seen from the foregoing description that although the improvements of this invention are simple in character they secure the results designed in a thoroughly feasible and practical manner, and, further, that no added cost attends the manufacture of the bottle which would militate against its introduction.

While the improvements herein defined are

described as used in connection with nursing-bottles, it is to be understood that they may be employed in connection with any other kind of bottle where their use would be of value, and as this will be readily understood further illustration of any preferred adaptation to use is deemed unnecessary. Furthermore, while the nipple herein shown is of the kind embodying a valve, it is to be understood that the invention is equally adaptable for use in connection with ordinary plain or valveless nipples, and as this will be apparent detailed illustration of such adaptation of the invention to other uses is thought to be unnecessary.

Having thus described the invention, what is claimed is—

A bottle having a rim triangular in cross-section, the pitch of both sides of which is the same, and with a base disposed at right angles to the long diameter of the neck, the periphery of the base being rounded.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HUGH F. GALLAGHER.

Witnesses:

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