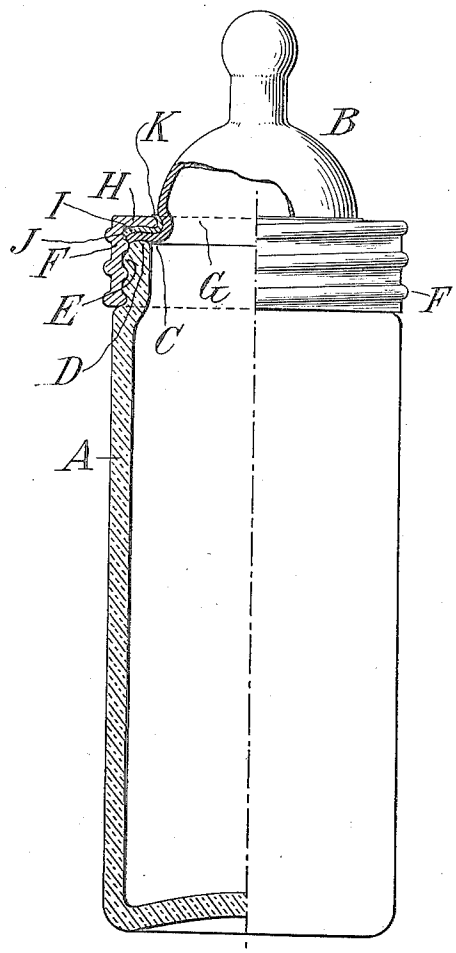
H. P. KRAFT.

NURSING BOTTLE OR THE LIKE.

APPLICATION FILED MAR. 21, 1916.

1,202,740.

Patented Oct. 24, 1916.



WITNESSES:

René Pruine

L. L. Wallace

INVENTOR

Henry P. Kraft

By Attorneys,

Fraser, Hirst & Rogers

UNITED STATES PATENT OFFICE.

HENRY P. KRAFT, OF RIDGEWOOD, NEW JERSEY.

NURSING-BOTTLE OR THE LIKE.

1,202,740. Specification of Letters Patent. Patented Oct. 24, 1916.

Application filed March 21, 1916. Serial No. 85,636.

To all whom it may concern:

Be it known that I, HENRY P. KRAFT, a citizen of the United States of America, residing in Ridgewood, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Nursing-Bottles or the like, of which the following is a specification.

This invention relates to nursing bottles or the like, and aims to provide certain improvements therein.

The invention is particularly directed to that class of nursing bottles which have a wide mouth, the body of the nipple used in connection with such bottles being of large diameter and adapted to fit over the mouth of the bottle. Such bottles have come into use because of the ease with which they can be cleaned. There is difficulty encountered in providing an adequate joint between the nipple and the mouth of the bottle, it being customary to spring the nipple over a ridge or flange on the exterior of the bottle mouth. According to the present invention the nipple is constructed so that its margin lies on top of the bottle mouth and a cap is provided which is formed with a central perforation through which the nipple extends. The cap is adapted to screw on the mouth of the bottle and this exerts a distortive action upon the marginal portion of the nipple, so that the latter is subject to excessive wear. The invention includes means for preventing this distortion and strain which comprises a ring preferably formed of metal which is inserted between the top of the cap and the margin of the nipple, such ring being free to move relatively to the cap, so that when the cap is screwed down it swivels on the ring.

The invention includes other features of improvement which will be hereinafter more fully described.

Referring to the drawings which illustrate one form of the invention, let A indicate the bottle which as shown is usually provided with a wide mouth approaching in diameter the diameter of the body of the bottle. B is the nipple which is usually formed of rubber and is constructed with a marginal portion or flange C which is adapted to lie across the top D of the bottle mouth, the latter being preferably rounded to avoid cutting of the nipple. The outer portion of the bottle mouth is preferably cast with screw-threads E which are adapted to receive a cap F formed with similar screw-threads, the threads being usually rolled in the metal of the cap. The cap is perforated at its center as shown at G to permit the body of the nipple to pass through it, this perforation resulting in the provision of a flange H which is adapted to bear upon the upper side of the marginal portion C of the nipple and clamp the same against the top D of the bottle mouth when the cap is screwed down. Between the marginal portion C and the under side of the flange H I provide a ring I which is preferably made of metal, or it may be of glass or other smooth material. The ring I being interposed between the flange and marginal portion constitutes an anti-friction member upon which the flange H rides when the cap is screwed down, so that distortion of the marginal portion is prevented. Preferably the ring I is turned downwardly as shown at J on its outer edge, so as to limit the outward expansion of the edge of the marginal portion and prevent it from coming in contact with the cap. Preferably also the ring is permanently swiveled to the cap which may be accomplished by turning a flange K on the ring which extends upwardly and slightly around the inner edge of the flange H. By the means thus described the body of the nipple is protected from distortion and a joint is made directly between the under side of its marginal flange and the top of the bottle mouth, so that the contents of the bottle are prevented from coming in contact with the metal cap or anti-friction ring. The device is thus sanitary and free from danger in use.

If desired the anti-friction ring may be molded or vulcanized to the upper surface of the nipple, so that it forms a part thereof, in which case it will not be permanently coupled to the cap, but will be removable with the nipple.

While I have shown and described one form of the invention, it will be understood that I do not wish to be limited thereto, since various changes may be made therein without departing from the spirit of the invention.

What I claim is:—

1. In a nursing bottle or the like, the combination of a cap having a central perforation, a flange surrounding said perforation, and an anti-friction ring beneath said flange.

2. In a nursing bottle or the like, the com-

bination of a cap having a central perforation, a flange surrounding said perforation, and an anti-friction ring beneath said flange, said anti-friction ring being permanently swiveled to said cap.

3. In a nursing bottle or the like, the combination of a cap having a central perforation, a flange surrounding said perforation, and an anti-friction ring beneath said flange, said anti-friction ring being formed with a flange overlying said cap flange whereby to permanently swivel the ring to the cap.

4. The combination in a nursing bottle or the like of a nipple having a marginal portion adapted to fit on the top of the bottle, a cap having a central perforation through which the body of the nipple extends, said cap having a flange extending over said marginal portion, and an anti-friction ring between said flange and said marginal portion.

5. The combination in a nursing bottle or the like of a nipple having a marginal portion adapted to fit on the top of the bottle, a cap having a central perforation through which the body of the nipple extends, said cap having a flange extending over said marginal portion, and an anti-friction ring between said flange and said marginal portion, said anti-friction ring being permanently swiveled to said cap.

6. The combination in a nursing bottle or the like of a nipple having a marginal portion adapted to fit on the top of the bottle, a cap having a central perforation through which the body of the nipple extends, said cap having a flange extending over said marginal portion, and an anti-friction ring between said flange and said marginal portion, said anti-friction ring being formed with a flange overlying said cap flange, whereby to permanently swivel the ring to the cap.

7. The combination in a nursing bottle or the like of a nipple having a marginal portion adapted to fit on the top of the bottle, a cap having a central perforation through which the body of the nipple extends, said cap having a flange extending over said marginal portion, and an anti-friction ring between said flange and said marginal portion, said anti-friction ring having a portion J adapted to prevent undue expansion of the edge of said marginal portion.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY P. KRAFT.

Witnesses:
GRACE GUNDERMAN,
THOMAS F. WALLACE.