M. A. AND H. M. SNYDER.
GUARD FOR NURSING BOTTLES.
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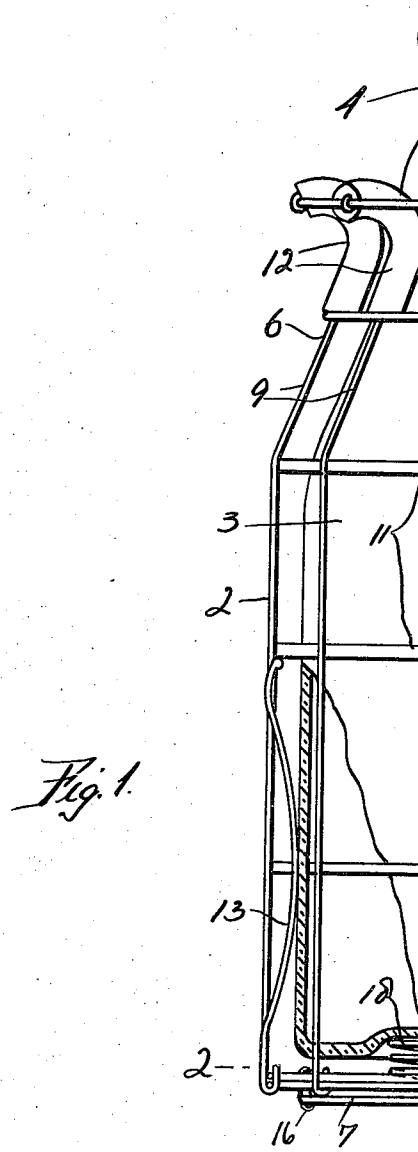


Fig. 1.

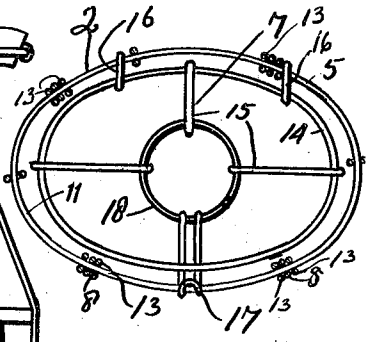


Fig. 2.

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UNITED STATES PATENT OFFICE.

MILTON A. SNYDER AND HORACE M. SNYDER, OF PHILADELPHIA, PENNSYLVANIA.

GUARD FOR NURSING BOTTLES.

Application filed December 21, 1921. Serial No. 523,871.

To all whom it may concern:

Be it known that we, MILTON A. SNYDER and HORACE M. SNYDER, citizens of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in a Guard for Nursing Bottles, of which the following is a specification.

Our invention relates to new and useful improvements in a guard for nursing bottles, and has for its object to provide an exceeding simple and effective device of this character which will protect all parts of the bottle and reduce to a minimum the likelihood of the same being broken when dropped.

Another object of the invention is to construct the upper end of the guard in such a way as to protect the neck and mouth of the bottle which will also prevent the neck of the bottle slipping into the mouth of the child, thereby eliminating the chance of the child being choked.

A further object of the invention is to provide resilient means for contacting with different portions of the bottle contained therein.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, we will describe its construction in detail, referring by numerals to the accompanying drawing forming a part of this application, in which:—

Fig. 1, is a side elevation of a guard for nursing bottles made in accordance with our invention showing it applied to a bottle, a portion of the guard and bottle being broken away to illustrate certain details of construction; and

Fig. 2, is a section at the line 2—2 of Fig. 1.

In carrying out our invention, 2 represents the guard, 3 a bottle contained therein and 4 the nipple on said bottle.

The guard consists of a body 5 having a restricted neck 6 and a closure 7 for the bottom end. The body is constructed of a number of vertical ribs 8 preferably formed from wire with their upper portions converging toward the vertical center of the guard for a short distance as at 9 and then projecting outward as at 10 to a shield which will contact with the child's face should there be a tendency for the bottle to slip into the child's mouth thereby preventing the child being choked or otherwise injured.

Stays 11 are secured in any suitable manner, as by soldering or welding, to the upper and lower ends and the points of convergence of the ribs as well as at suitable points therebetween, and on the ribs, between the two uppermost stays, are placed compressible members 12, such as sections of rubber tubing, for contact with the neck or mouth of the bottle and to provide cushion or soft elements on that part of the guard which is likely to strike the child's face.

To the lower portion of the body are fixed the bow springs 13 the upper ends of which engage and slide upon certain of the ribs during the time they are conforming to the size or contour of a bottle as the latter is being placed in the guard.

The closure 7 is also made of wire and comprises a rim 14, cross pieces 15, hinge elements 16, in the form of loops or eyes connected with the lowermost stay, and a catch 17 adapted to spring over and engage said lowermost stay to retain the closure in its closed position. On the inside of the closure is mounted a coiled spring 18 located in the axial center of said closure and adapted to engage the bottom of the bottle to exert sufficient pressure thereon for forcing the bottle into firm contact with the compressible members 12 and preventing movement of the bottle relative to the guard after it is in place.

In practice the bottle is inserted in the guard from the lower end and when properly positioned the closure is closed to prevent the accidental displacement of the bottle.

If the bottle, when fitted with such a guard, is dropped no part thereof can contact with the floor or other surface to which it has fallen and because of the springs and compressible members the shock incident to such a fall will be absorbed by such elements and prevent the bottle being broken.

Because of the wide shield produced by the outwardly projecting upper ends of the ribs no part of the bottle can enter the child's mouth which therefore cannot be choked or otherwise injured.

Of course we do not wish to be limited to the exact details of construction as herein shown as these may be varied within the limits of the appended claims without departing from the spirit of our invention.

Having thus fully described our invention, what we claim as new and useful is:—

1. A guard for nursing bottles comprising a body having a restricted upper portion and an outwardly flared shield beyond said restricted portion, compressible members located at the upper end of the body in the region of said shield, means to close the lower end of the guard, a spring carried by said means to engage the bottom of a bottle and bow springs having their lower ends fixed to the lower end of the guard and projecting upwardly into the guard.

2. A guard for nursing bottles consisting of spaced vertical ribs having their upper portions converging toward a common center with the ends projecting outward, stays fixed to said ribs at convenient points, compressible members on the upper ends of said ribs, bow springs having their lower ends fixed to the lowermost stay with their upper free ends in sliding contact with certain of the ribs, a closure, hinge elements carried thereby and connected to said lowermost stay, a catch also carried by the closure for engagement with said stay and a coiled spring carried by the closure.

In testimony whereof, we have hereunto affixed our signatures.

MILTON A. SNYDER.
HORACE M. SNYDER.