Oct. 2, 1945. M. E. ELZEER 2,386,042

NURSING BOTTLE HOLDER

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Fig. 1.

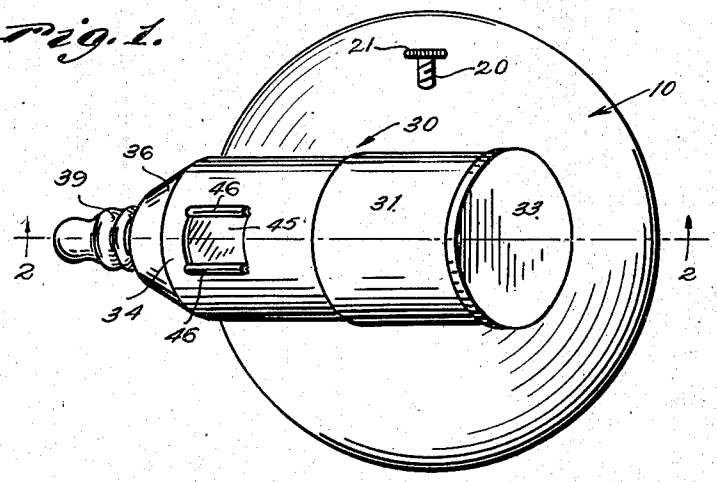


Fig. 2.

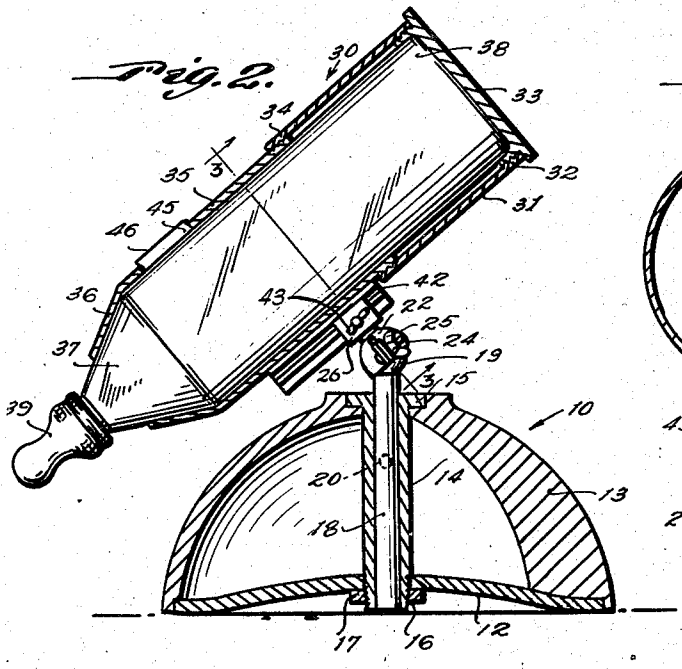


Fig. 3.

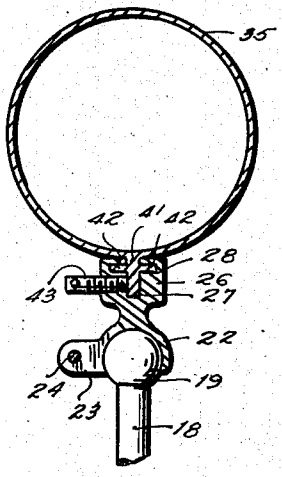
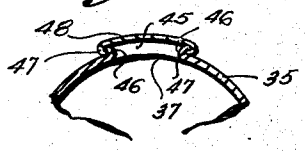


Fig. 4.



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NURSING BOTTLE HOLDER

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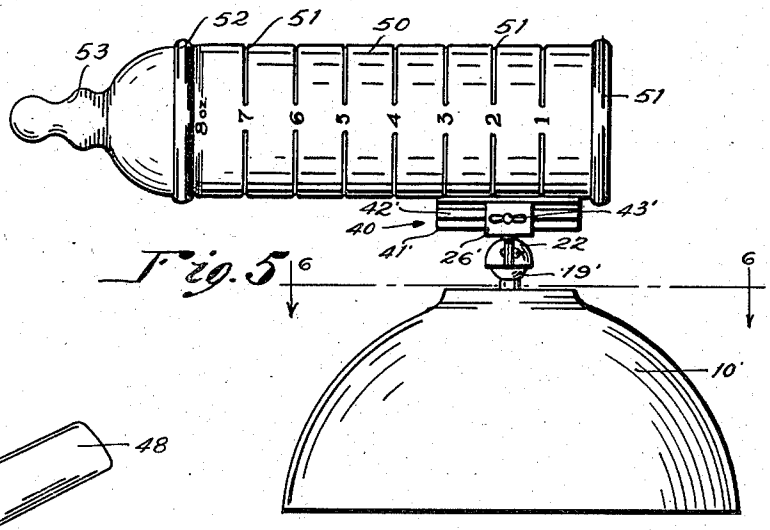


Fig. 5

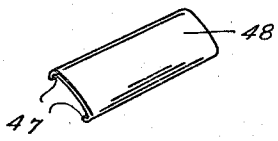


Fig. 7.

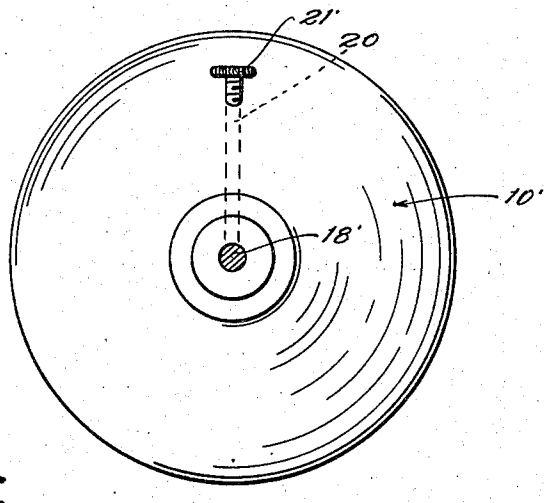


Fig. 6.

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NURSING BOTTLE HOLDER

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Application March 28, 1945, Serial No. 585,324

2 Claims. (Cl. 248—106)

This invention relates to a nursing bottle holder, and more particularly to such a device adapted to hold the bottle while the baby is nursing therefrom.

The primary object of this invention is the provision of an improved nursing bottle holder characterized by a relatively heavy base, whereby the infant will have difficulty in upsetting or tilting the bottle out of nursing position.

An additional object of the invention is the provision of such a device having a holder associated therewith adapted to contain and confine a nursing bottle, and means whereby the relative position of the holder with respect to the base may be readily varied as conditions dictate.

Still another object of the invention is the provision of such a device comprised of a plurality of readily separable parts, whereby the device may be cleaned and sterilized when necessary with a minimum of difficulty and effort.

Still another object of the invention resides in the provision of improved means, whereby the bottle holder may be adjusted as to height, or transversely, in a horizontal position with respect to the supporting base.

A further and more specific object of the invention is the provision of a device including a base, as set forth in the foregoing objects, and adjusting means therefor, comprising an integral unit adapted to obviate the necessity of utilizing a nursing bottle completely, the holder serving as a receptacle for milk.

Still another object of the invention is the provision of such a device which will be sturdy and durable in construction, reliable and efficient in operation and relatively simple and inexpensive to manufacture and assemble, as well as being comparatively easy to maintain in clean and sterile condition.

Other objects will in part be obvious and in part be pointed out as the description of the invention proceeds and shown in the accompanying drawings, wherein there is disclosed a preferred embodiment of this inventive concept.

In the drawings:

Figure 1 is a top plan view of one form of the device embodying features of the instant inventive concept.

Figure 2 is a sectional view taken substantially along the line 2—2 of Figure 1 as viewed in the direction indicated by the arrows.

Figure 3 is a sectional view taken substantially along the line 3—3 of Figure 2 as viewed in the direction indicated by the arrows.

Figure 4 is a fragmentary view of a constructional detail.

Figure 5 is a side elevational view of a modified form of construction.

Figure 6 is a sectional view taken substantially along the line 6—6 of Figure 5.

Figure 7 is a perspective view of a constructional detail.

Similar reference characters refer to similar parts throughout the several views of the drawings.

Having reference now to the drawings, there is generally indicated at 10 a base, preferably of hemispherical form, and provided with a hollow interior 11 closed, as by a concave bottom 12. One side of the base is adapted to be weighted, as at 13, such weight taking the form of either an integral portion of the member 10, or may, if desired, take the form of a separately added weight. The base 10 is provided with a centrally disposed aperture extending through the top and bottom thereof, in which is positioned a sleeve 14 provided with a flange 15 adapted to seat in a suitable recess in the upper portion of the base. The lower extremity of the sleeve 14 is threaded, as at 16, and extends beneath the bottom 12, a nut 17 being provided to hold the parts in related assembly.

A shaft 18 is slidably positioned within the sleeve 14 and terminates at its upper extremity in a ball 19, a set screw 20 being provided extending through the outer surface of the base 10, and the wall of the sleeve 14, and adapted to engage the shaft 18 to hold the same in suitable vertical adjusted position. The set screw 20 is provided with an operating knob 21, which may be readily rotated in order that the position of the shaft 18 may be varied for a purpose and in a manner to be more fully described hereinafter.

The ball 19 is adapted to be surrounded by a separable clamp 22 provided with lugs 23 adapted to be secured together, as by means of a screw 24 provided with a wing nut 25. The clamp 22 carries an upright 26 provided with a longitudinally extending channel 27, from the sides of which extend transverse horizontal grooves 28, the assembly thus being cruciform in cross section.

A bottle holder, generally indicated at 30, is comprised of a rear section 31, internally threaded, as at 32, to accommodate corresponding external threads on a flanged end cap 33, and correspondingly internally threaded, as at 34, to engage external threads on a front member 35, the extremity of which is frusto-conical in form, as indicated at 36, and provided with an aperture

through which the neck 37 of a conventional nursing bottle is adapted to extend. The bottle 33 is provided with a nipple 39 of conventional construction.

Fixedly secured to the under side of the front section 35 is a depending member generally indicated at 40, which extends longitudinally of the section 35 and includes a depending vertical portion 41 dimensioned to engage in the channel 27, from which extend lateral flanges 42 adapted to coact with the groove 28, the arrangement being such that the member 40 is adapted to slide within the channel and grooves, being secured in desired position, as by means of a set screw 43 extending through a suitable threaded aperture in the side of the member 26 and engaging with the flange 41.

As best shown in Figure 4, the side of the section 34 opposite the member 40 has a cut-away portion or aperture 45 therein, the edges of which are outwardly rolled, as at 46, to form guides for the inwardly rolled edges 47 of a cover plate 48. Thus, it will be seen that the aperture 45 provides a window through which the contents of the bottle 37 may be examined as desired, in order to determine the quantity of milk consumed, and to be consumed, by the infant.

From the foregoing, the operation of the device should now be readily understandable. When it is desired to use the same, the bottle 37 is first filled and heated to the proper degree, and the sections 31 and 35 separated by unscrewing the same. The bottle is then positioned in the section 35, the frusto-conical portion 36 precluding displacement thereof, and the rear section 31, or alternatively, the end cap 33 only, replaced on the device. The positioning of the bottle holder 30 with respect to the base 10 in so far as height is concerned may be governed by the movement of the member 40 within the channel 27, and the position fixed by adjustment of the set screw 43. Correspondingly, the relative angle of the holder to the base may be determined by the position of the clamp or socket 22 relative to the ball 19, and once the angle has been satisfactorily adjusted, locking of the wing nut 25 will serve to hold the device at the desired angle. Further adjustment is provided by means of the set screw 20, whereby vertical adjustment of the shaft 18 to a desired height is permitted.

After the device has been suitably adjusted and positioned as desired with relation to the infant, the same may be left unattended until the infant has completely finished the contents of the bottle. The weight 13 is adapted to be positioned on the side of the base opposite the direction in which the nipple of the bottle is pointing to counteract the possibility of the infant overturning the same by undue pulling on the nipple 39.

Having reference now to the modification shown in Figures 5 and 6, there is generally indicated at 10' a base substantially identical to the base 10, and which may be interchanged therebeneath, including a vertical shaft 18' terminating in a ball 19', and provided with a set screw 20' terminating in a head 21'. A clamp 22' substantially identical to the clamp 22 terminates in a member 26' provided with a set screw 43'.

Adapted to be utilized in place of the bottle holder 30 is a receptacle 50 including a base 51, and open at its opposite end and provided with a flange adapted to be surrounded by the base 52 of a nipple 53, of the type normally adapted to be utilized with wide neck bottles. The container 50 is provided with a series of graduations 51, and associated indicia indicating the quantity of milk or formula initially placed in the receptacle.

Formed integrally with the receptacle 50 is a depending flange member generally indicated at 40' and including a flange 41' and horizontal lateral ribs 42', substantially identical to the previously described member 42, the arrangement being such that the container of Figures 1 and 2 may be readily interchanged with the receptacle of Figure 5, utilizing the same base if desired.

Obviously, the method of adjusting the device disclosed in Figure 5 is identical with that of the previously discussed modification.

From the foregoing, it will now be seen that there is herein provided an improved nursing bottle holder accomplishing all the objects of this invention, and others, including many advantages of practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiments hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

1. In a device of the character described, a hemispherical base, a sleeve centrally positioned in said base, a weight on one side of said base, a shaft in said sleeve, a ball on the extremity of said shaft, a clamp engaging said ball, a member carried by said clamp having a channel therein, a receptacle, a flange on said receptacle slidable in said channel, and a set screw in said member adapted to engage said flange to secure the receptacle and base in related assembly.

2. In a device of the character described, a hemispherical base, a sleeve centrally positioned in said base, a weight on one side of said base, a shaft in said sleeve, a ball on the extremity of said shaft, a clamp engaging said ball, a member carried by said clamp having a channel therein, a receptacle, a flange on said receptacle slidable in said channel, and a set screw in said member adapted to engage said flange to secure the receptacle and base in related assembly, said channel having aligned horizontal grooves extending thereinto, and said flange having laterally extending portions engageable in said grooves.

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