June 20, 1961 A. HYMAN 2,989,278

NURSING BOTTLE HOLDER

Filed Oct. 10, 1960

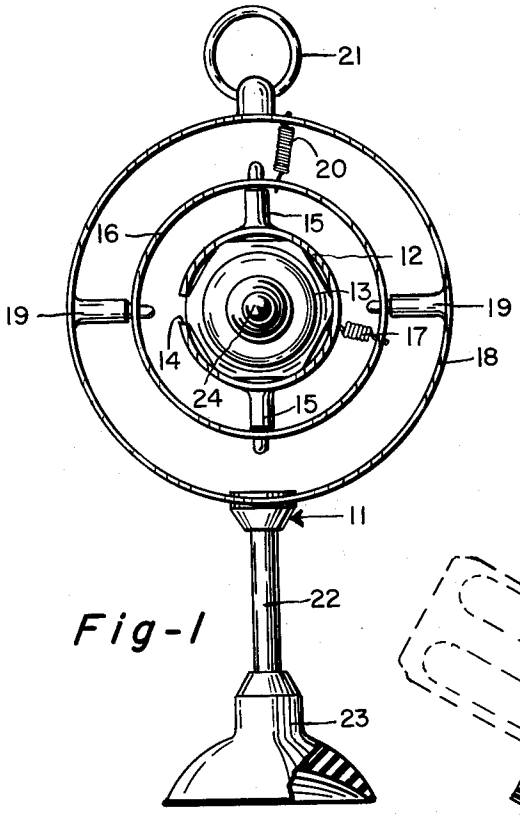

Fig-1

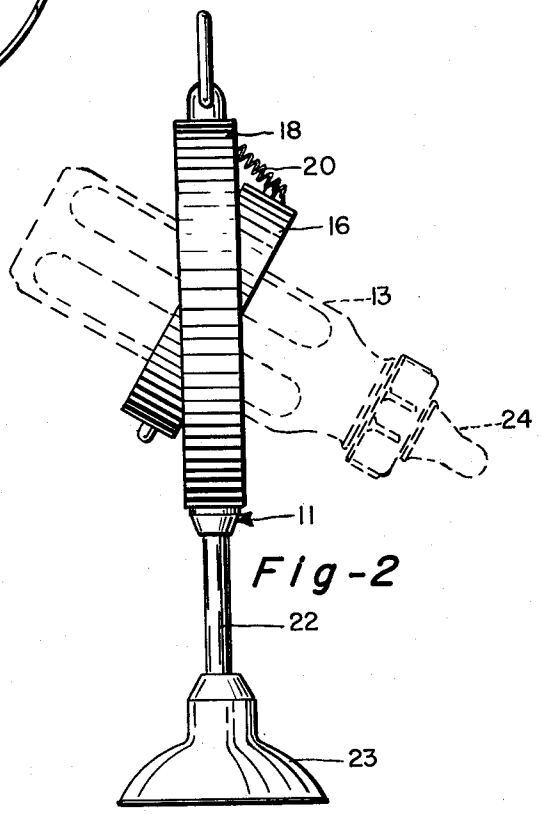

Fig-2

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United States Patent Office 2,989,278 Patented June 20, 1961

2,989,278

NURSING BOTTLE HOLDER

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Filed Oct. 10, 1960, Ser. No. 61,659
5 Claims. (Cl. 248—106)

My invention relates generally to nursing bottle holders, and specifically to nursing bottle holders that return to a chosen normal position although deflected repeatedly from that position.

It is among the objects of my invention to provide a nursing bottle holder which invariably directs the nipple of a nursing bottle toward an infant's lips.

It is another object of my invention to provide a nursing bottle holder that returns to a chosen normal position however it may be deflected.

It is another object of my invention to provide a nursing bottle holder that may be firmly anchored against an accidental fall which might destroy the bottle.

It is among the further objects of my invention to eliminate fatigue arising from hand-holding of nursing bottles.

Yet another object of my invention is to constantly and conveniently provide a nursing bottle available to an infant after momentary fatigue, or momentary lapse of desire for food, makes the infant relinquish the nursing bottle.

These objects and advantages as well as other objects and advantages may be achieved by the device shown by way of illustration in the drawings in which:

FIGURE 1 is a front elevational view of my nursing bottle holder in normal position; and

FIGURE 2 is a side elevational view of my nursing bottle holder with the first ring and holder pivoted in response to the tilting of the nursing bottle.

Referring now to the drawings in detail, my nursing bottle holder provides a mounting that can be attached to the tray of a high chair and will constantly maintain a nursing bottle within easy reach of the lips of an infant in the chair, and will also maintain the nipple on the bottle directed toward the normal position of the infant in the chair.

The nursing bottle holder **11** has a central resilient holder **12** for a bottle **13** in the shape of a ring, preferably, or of some other shape adapted to resiliently grip and hold a nursing bottle. The holder **12** may be made of plastic material, or metal. It may also be provided with an inner lining of soft compressible material having a relatively high coefficient of friction. The holder may be elastically deformable to accommodate a bottle **13** so as to frictionally engage it, or the holder **12** may have a gap **14**, so that its diameter may be less than the diameter of a bottle, and it may be resiliently expanded in diameter so as to grip the bottle **13**. Radial vertical axles **15** disposed on the same diameter with respect to the holder **12** may be attached to the holder **12**, either rigidly or pivotally.

The holder **12** is surrounded by a first open member **16** which may be a ring or of any other desired shape as long as the holder **12** may freely pivot within it. The axles **15** are attached to the first ring **16**, either rigidly or pivotally. Each axle **15** must have at least one pivotal connection to either the holder **12** or the first ring **16**. A spring **17** is connected at its ends to the first ring **16**, and to the holder **12**.

The first open member **16** or ring is surrounded by a second open member **18**; like the first open member **16** this second open member **18** may also be either ring-shaped or of some other shape such as square, as long as the first open member **16** may freely pivot within it. Axles **19** extend radially from the first ring **16** to the second ring **18** in generally opposition to each other on the same diameter with respect to the second ring **18**. These axles **19** are attached to the first and second rings **16, 18** either rigidly or pivotally, but at least one end of each axle **19** must be pivotally attached to one of the rings **16, 18** so that, like the first ring **16** and the holder **12**, the first ring **16** and the second ring **18** may also pivot with respect to each other.

A spring **20** is attached to the first and second open members or rings **16, 18**, and normally maintains the first and second rings **16, 18** in the same plane with respect to each other. The spring **17** maintains the first ring **16** and the holder **12** in the same plane with each other, which plane is the same plane in which the first and second open members **16, 18** are maintained.

Attached to the top of the first open member or ring, there is a holder ring **21**, which may be used to suspend the bottle holder **11** from over-head to insure against it being dashed to the floor and broken. The bottom of the second ring **18** is rigidly attached to the top of a rod **22**. This rod **22**, if desired, can be of the adjustable or telescoping variety so that the height of the holder can be adjusted. The bottom of the rod **22** is attached to a suction cup **23** so that the bottle holder **11** can be anchored securely upright to the tray of a high chair and the gimbals will at all times maintain the direction of the nipple on the nursing bottle toward the infant and within easy reach of its lips.

An optional feature that may be added to the nursing bottle holder is a thermostatically controlled warming jacket to surround the nursing bottle and act as a casing for it, in order that the contents of the bottle may be continuously maintained at the optimum temperature in spite of the infant's dalliance with the contents.

The foregoing is intended merely as an illustration of the invention, for many changes in the construction, selection and arrangement of the parts can be made within the scope of the appended claims without departing from the spirit of the invention.

What is claimed is:

1. A nursing bottle holder comprising a resilient holder dimensioned to frictionally engage a nursing bottle, a first open member surrounding the holder, opposed radial axles pivotally connecting the holder and first open member together, a second open member surrounding the first open member, opposed radial axles connecting the first and second open members together, a spring connected to the holder and first open member, a spring connected to the first and second open members and normally urging the holder and open members into coplanar relationship, and a means to support the second open member.

2. A nursing bottle holder comprising a generally circular resilient holder dimensioned to frictionally engage a nursing bottle, a first generally circular open member surrounding the holder, opposed radial axles pivotally connecting the holder and first open member together, a second generally circular open member surrounding the first open member, opposed radial axles connecting the first and second open members together, a spring connected to the holder and first open member, a spring connected to the first and second open members and normally urging the holder and open members into coplanar relationship, and a means to support the second open member.

3. A nursing bottle holder comprising a resilient holder dimensioned to frictionally engage a nursing bottle, a first open member surrounding the holder, opposed radial axles pivotally connecting the holder and first open member together, a second open member surrounding the first open member, opposed radial axles connecting the first and second open members together, a spring connected to the holder and first open member, a spring connected to the first and second open members and normally urging the

holder and open members into coplanar relationship, and a rod connected to the second open member.

4. A nursing bottle holder comprising a resilient holder dimensioned to frictionally engage a nursing bottle, a first open member surrounding the holder, opposed radial axles pivotally connecting the holder and first open member together, a second open member surrounding the first open member, opposed radial axles connecting the first and second open members together, a spring connected to the holder and first open member, a spring connected to the first and second open members and normally urging the holder and open members into coplanar relationship, a rod connected to the second open member and a suction cup attached to the end of the rod.

5. A nursing bottle holder comprising a resilient generally circular holder having a gap therein and dimensioned to frictionally engage a nursing bottle, a first ring surrounding the holder, opposed radial axles rigidly connected to the holder and pivotally connected to the first ring, a second ring surrounding the first ring, opposed radial axles rigidly connected to the second ring and pivotally connected to the first ring, a first spring connected to the holder and first ring, a second spring connected to the first and second rings, and normally urging the holder and rings into coplanar relation to each other, and a rod rigidly connected at one end to the bottom of the first ring, a suction cup attached to the other end of the rod.

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