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NURSING BOTTLE HOLDER

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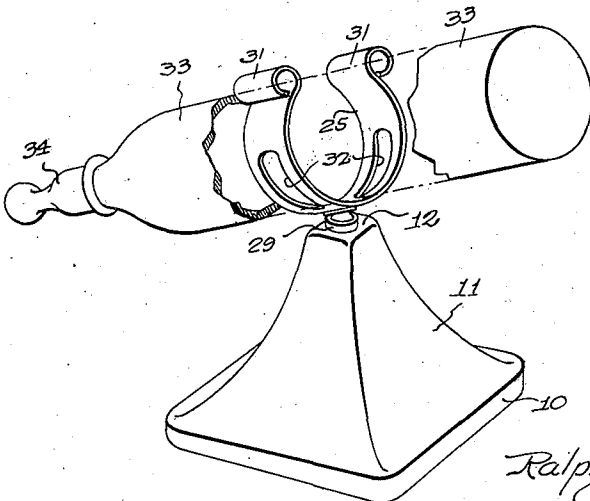
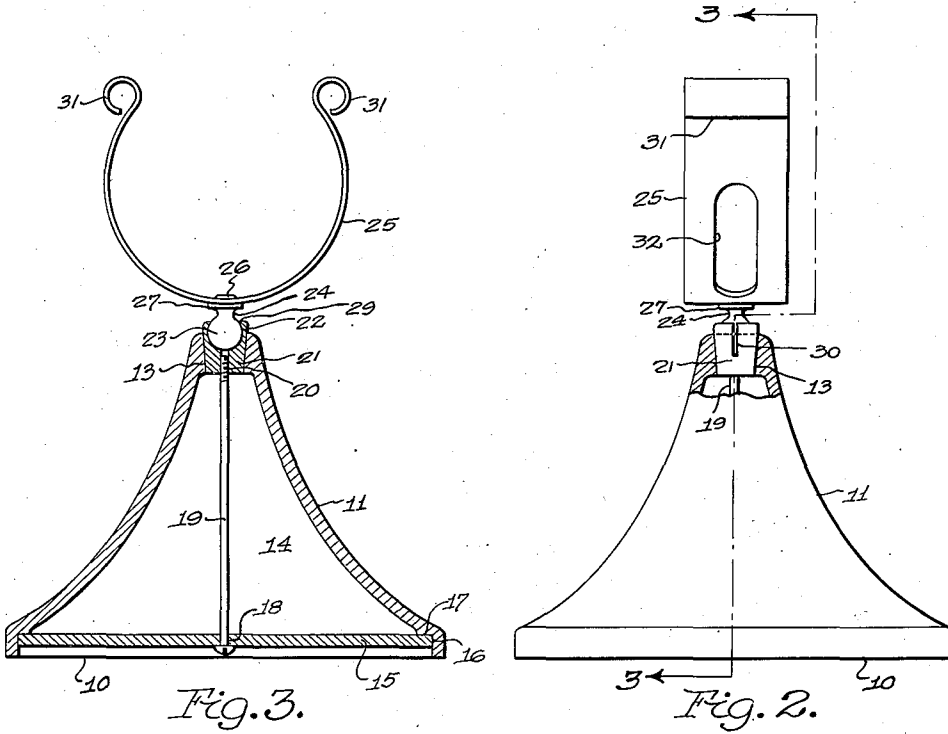


Fig. 1.

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# UNITED STATES PATENT OFFICE

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## NURSING BOTTLE HOLDER

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2 Claims. (Cl. 248-105)

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This invention relates to supports, and in particular, to nursing bottle holders.

One object of this invention is to provide a nursing bottle holder wherein the bottle is held by a spring clip on a ball and socket joint connection with a base.

Another object is to provide a nursing bottle holder as set forth in the preceding object wherein the base has a relatively broad bottom portion with upwardly tapering side walls so as to prevent accidental tipping over.

Another object is to provide a nursing bottle holder as set forth in the preceding objects, wherein the base is additionally provided with a relatively heavy bottom portion to lower the center of gravity and still further prevent accidental tipping over.

Another object is to provide a nursing bottle holder as set forth in the preceding objects wherein the ball socket is in a tapering member having slots therein so that the gripping action upon the ball may be adjusted by turning a threaded member connected thereto.

Other objects and advantages of the invention will become apparent during the course of the following description of the accompanying drawing, wherein:

Figure 1 is a perspective view of a preferred embodiment of the nursing bottle according to this invention, with the bottle broken away to disclose the construction more clearly;

Figure 2 is a side elevation of the nursing bottle holder shown in Figure 1; and

Figure 3 is a vertical section partly in side elevation taken along the line 3-3 in Figure 2.

Referring to the drawings in detail, Figures 1 and 2 show the nursing bottle holder of this invention as consisting of a base 10, preferably of plastic, wood or metal, and having upwardly tapering sides 11 terminating at a relatively small top 12 having a conically tapered bore 13 therein. The side walls 11 are preferably hollow so as to provide an internal cavity 14. The cavity 14 is closed by a bottom plate 15 of relatively heavy material such as steel or iron, and seated in a recess 16 having a shoulder 17 against which the bottom plate 15 seats. The bottom plate 15 is provided with a hole 18 through which a screw 19 passes. The upper end of the screw 19 is threaded into a bore 20 in a conically tapered plug 21 similar in configuration to and mating with the conically-tapered bore 13. The plug 21 is adapted to receive a ball 23 having a connection, as by a stem or rivet 24 or the like, to an approxi-

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mately U-shaped spring clip 25. The stem 24 is enlarged as at 26 and preferably also as at 27 to hold the spring clip 25 firmly.

The top of the plug 21 is spun or turned over as at 29 so as to retain the ball 23 within the socket 22. A slot 30 is optionally formed in the top 28 of the plug 21 to provide an adjustment of the gripping power of the plug 21 upon the ball 23. This gripping action can be lessened or increased by turning the screw 19 in the threaded bore 20 so as to move the tapered plug 21 inwardly and outwardly in the tapered bore 13.

The spring clip 25 is provided at its upper ends with turned over portions 31 so as to prevent injury to the infant as well as strengthen these portions. The spring clip 25 is also provided with elongated apertures 32 in the side walls thereof, these apertures by their relative size controlling the spring action of the spring clip 25 for a given spring material. With relatively small apertures 32, the spring clip 25 has a stiffer spring action than with larger apertures.

Optionally, the base 10 may be made of heavy material and from its approximately pyramidal or conical shape, its weight will be concentrated near the bottom and the center of gravity will be low. Accordingly, this optional construction will also tend to prevent accidental tipping over of the device.

In the operation of the invention, the nursing bottle 33 (Figure 1) is pressed downwardly into the spring clip 25, the end portions 31 springing apart to admit the bottle and by their resilience, closing upon it. In this manner, the bottle is held firmly yet releasably within the clip. At the same time, however, it can be instantly removed with a firm pull which, however, requires more strength than is possessed by an infant.

The device is then placed within convenient reach of the infant's head and the bottle lifted until the nipple 34 can be reached by the infant's mouth. The relatively broad base 10, especially in connection with the heavy bottom portion 15, substantially prevents the infant from tipping the device over. At the same time, moreover, the device is free from projecting thumbscrews, sharp corners, or any parts which might injure the infant.

If the infant is not hungry at the moment and permits the bottle and its contents to cool, the bottle may be instantly removed by a quick tug with one hand, the other hand being placed on the base 10. The bottle can then be reheated and quickly snapped back into the spring clip 25 with-

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out the necessity of loosening any screws or clamps, or opening up any receptacles.

While I have shown and described my invention in detail, it is to be understood that the same is to be limited only by the appended claims, for many changes may be made without departing from the spirit and scope of my invention.

What I claim is:

1. In a nursing bottle holder, a base having an upwardly extending portion with a tapered bore in the upper part thereof, a tapered plug disposed in and mating with said bore and having relatively movable gripping portions with a socket therein, a pivot member with a curved portion secured in said socket, a bottle carrier connected to said pivot member, said plug having a slot therein adjacent said socket whereby to provide a resilient gripping action upon said pivot member, and a pulling device on said base connected to said tapered plug and urging said plug downwardly into said tapered bore whereby to anchor said plug to said base and adjust the gripping action of said socket.

2. In a nursing bottle holder, a base having a bottom portion and an upwardly extending portion with a tapered bore in the upper part there-

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of, a tapered slotted plug disposed in and mating with said bore and having relatively movable gripping portions with a socket and a threaded hole therein, a pivot member with a curved portion secured in said socket, a bottle carrier connected to said pivot member, and a threaded member secured to said bottom portion of said base and threaded into said threaded hole in said plug whereby to anchor said plug to said base and adjust the gripping action of said socket.

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