

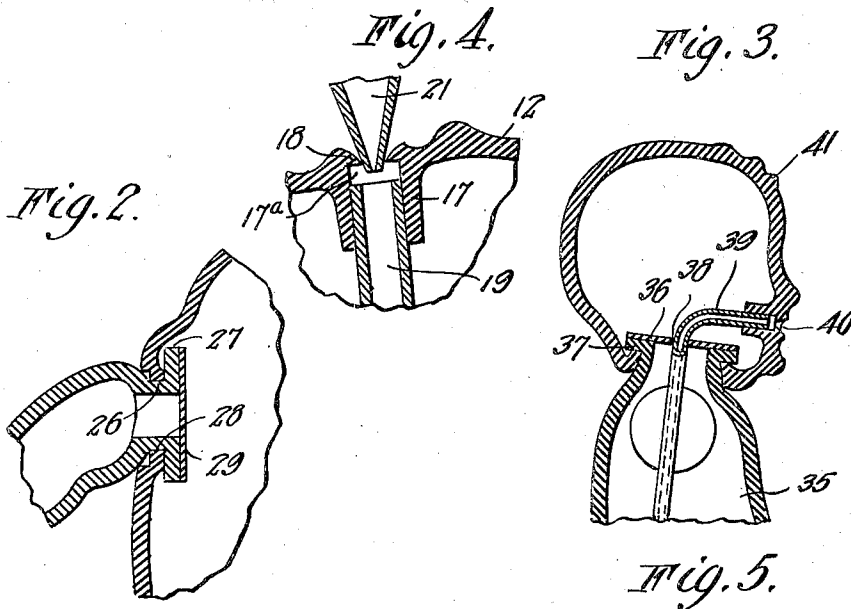
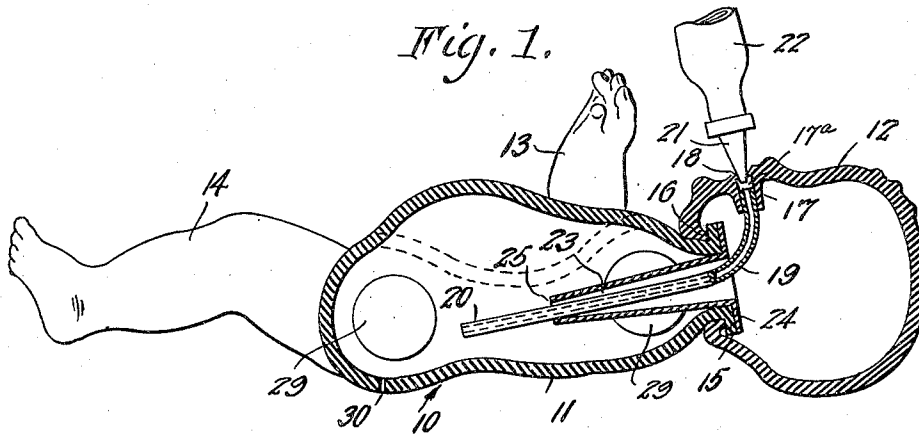
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NURSING DOLL

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NURSING DOLL

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5 Claims. (Cl. 46—141)

This invention relates to dolls and has particular reference to an improved doll structure which is capable of simulating the operation of drinking from a nursing bottle.

5 The invention comprehends a doll including a hollow body having a mouth opening so contoured as to receive the nipple of a nursing bottle therein and the gravitational discharge therein of the liquid from the nipple of the nursing bottle, while permitting of the escape of the air from the body of the doll and the displacement of the air by the liquid.

10 The invention further provides a doll having a hollow body constructed of resilient material and having arms and legs so constructed and connected therewith as to render the joints air and water tight in order that the body may also serve as means for producing a suction for drawing liquid from a nursing bottle inserted in the mouth of the doll and as a receptacle for receiving the liquid.

15 The improved doll also includes a conduit connected with the mouth of the doll and extending into the hollow body thereof for conveying liquid into the hollow body and with means carried by the upper portion of the body for preventing the liquid received by the body from entering the head of the doll.

20 The invention also includes an improved nursing bottle having a nipple fitting over the open end thereof and with a vent in the neck of the bottle through which air may freely enter the bottle to relieve the partial vacuum therein to thereby allow the gravitational flow of the liquid through the nipple and which vent is so located that it may be closed by the thumb or finger to thereby shut off the flow of the liquid from the nipple.

25 With the foregoing and other objects in view, reference is now made to the following specification and accompanying drawing in which there is disclosed the preferred embodiments of the invention, while the claims cover variations and modifications thereof which fall within the scope of the invention.

30 In the drawing:

Fig. 1 is a longitudinal sectional view through a doll constructed in accordance with the invention and illustrating a nursing bottle associated therewith.

35 Fig. 2 is an enlarged fragmentary sectional view illustrating the connection between the body and one of the articulated limb members.

Fig. 3 is a fragmentary longitudinal sectional view of a doll illustrating a modified form of the invention.

40 Fig. 4 is an enlarged fragmentary sectional view through the head in the region of the mouth opening and illustrating the bottle nipple in place.

Fig. 5 is a fragmentary face view of the doll head illustrating a section of the nipple positioned in the mouth opening.

Fig. 6 is a vertical sectional view through the nursing bottle.

Referring to the drawing by characters of reference and more particularly to the form of the invention illustrated in Figs. 1 and 2 thereof, the doll 10 comprises a body 11, a head 12 and arm and leg members 13 and 14 respectively, each of which parts is of hollow formation and is constructed of rubber or other compressible resilient material. The body 11 is provided with an annular flange 15 extending outwardly from the upper end of the neck portion thereof and in surrounding relation to the neck opening extending into the hollow interior of the body. The head 12 of the doll is formed with an opening for receiving the neck portion of the body 11 and is provided with an inwardly extending annular bead 16 defining the inner periphery of the neck opening which is engaged by the lower annular face of the flange 15 for securing the head in position on the body 11.

25 A tubular boss 17 formed on the inner surface of the head 12 in surrounding relation with the mouth opening 18 has secured therein the upper end of a flexible conduit 19 which conduit extends downwardly through the neck opening with its open free end 20 located in the hollow interior of the body 11 for conveying the liquid received in the mouth opening into the body. The mouth opening 18 is of elliptical configuration so as to receive centrally therein the end of a nipple 21 of a nursing bottle 22 and to admit of the gravitational flow therein of the liquid from the nipple and the escape of the air from the body through the corners 18a of the mouth opening when the nipple is inserted therein and the doll laid upon its back. The upper end of the conduit 19 is fixedly secured within the tubular boss 17 in spaced relation to the mouth opening to thereby form an enlarged intake chamber 17a within the boss 17 and between the mouth opening and the end of the conduit 19 so that when the nipple is inserted in the mouth opening the discharge end thereof is spaced from the open end of the conduit 19 thereby allowing the free egress of the air from the body through the conduit 19 and through the corners 18a of the mouth opening.

35 The walls of the body 11 are normally distended as shown in full lines in Fig. 1 and are adapted to be depressed to the dotted line position shown therein for producing a suction in the conduit 19 and at the mouth opening 18 to thereby draw liquid from the nursing bottle 22 into the body 11 when the nipple 21 is inserted in the mouth opening 18. Thus the doll may be positioned so as to receive the gravitational dis-

charge of the liquid from the nursing bottle or the doll may be manipulated to create a suction within the body to draw the liquid therein from the nursing bottle.

5 For the purpose of preventing the liquid received in the body from entering the head of the doll, the body 11 is provided with an inwardly extending, inwardly tapered tubular member 23
10 having a flanged upper end 24 cemented or otherwise sealed to the upper surface of the flange 15 with the remaining portion thereof disposed in spaced relation with the inner surface of the body 11 and through which tubular member the conduit 19 extends with the open free end 20
15 thereof projecting beyond the open free end 25 of the tubular member 23. The conduit 19 substantially closes the opening in the free end 25 of the tubular member 23 and thereby entraps the liquid received in the body from entering the head of the doll.

20 The arm and leg members 13 and 14 are each provided with a reduced neck portion 26 and an outturned annular flange 27 defining an annular groove, which neck is snugly fitted within an opening 28 in the body 11 to provide a swivelled air and water tight connection between the limb member and the body. The inner ends of the arm and leg members 13 and 14 are each sealed with a rubber covering 29 cemented or
25 otherwise secured to the inner face of the flange 27 which extends over and closes the opening into the interior of the limb member to thereby prevent the liquid in the body 11 from entering the same. The body 11 thus forms a substantially water and air tight receptacle for receiving the liquid drawn in through the mouth opening by suction created when the body is compressed. The body 11 is provided with a small outlet 30
30 through the rear wall thereof which permits the slow escape of the liquid received in the body.

The nursing bottle 22 is formed with an elongated neck 31 having a vent 32 through which air may enter the bottle to relieve the partial vacuum created therein when the bottle is filled
35 with the liquid so as to allow the liquid in the bottle to flow through the outlet 33 in the free end of the nipple 21 secured over the flanged open end 34 of the bottle. The vent 32 is so located that it may be closed by engaging thereover the thumb or finger to thereby prevent air entering into the bottle so as to shut off the flow of the liquid through the nipple.

In the form of the invention illustrated in Fig. 3, the opening extending into the body 35 through the neck thereof, is closed by a covering 36 of rubber which is cemented or otherwise secured to the upper surface of the annular flange 37
40 extending outwardly from the upper end of the neck portion and surrounding the opening into the body 35. The covering 36 is formed with a restricted opening 38 for snugly receiving therethrough the conduit 39 extending from the mouth opening 40 of the head 41 with its free end extending downwardly into the interior of the body 35. The covering 36 functions to prevent the liquid received in the body 35 from entering the head of the doll.

What is claimed is:

1. In a doll, a hollow body, a head having a
70 mouth opening, a tubular boss formed on the

inner surface of the head in surrounding relation with the mouth opening and a conduit extending into the body and having one end secured within the said boss in spaced relation to the mouth opening to thereby form a chamber within the said boss between the mouth opening and the end of the conduit, said mouth opening being adapted to receive the nipple of a nursing bottle to gravitationally discharge the liquid therefrom into the body of the doll and said
5 mouth opening being so contoured as to permit of the escape of the air from the body through the said conduit and through the corners of the mouth opening when the nipple is positioned in the mouth opening.

2. In a doll, a hollow body, a head having a mouth opening and a conduit connected to the head in surrounding relation to the mouth opening and extending into the body, said mouth opening being adapted to receive the nipple of a nursing bottle to gravitationally discharge the liquid therefrom into the body of the doll through the mouth opening and said mouth opening being so contoured as to permit of the escape of the air from the body through the corners of the mouth opening when the nipple is positioned therein and the liquid is gravitationally discharged into the body through the mouth opening.

3. In a doll, a hollow body, a head having a mouth opening, a conduit connected to the head in surrounding relation to the mouth opening and extending into the body, means sealed around the open end of the body through which means the conduit extends for preventing liquid received by the body from entering the head and said mouth opening being adapted to receive the nipple of a nursing bottle and so contoured as to permit of the escape of the air from within the body as the liquid gravitationally enters the same through the mouth opening.

4. In a doll, a compressible resilient body, an inwardly extending tubular member sealed around its upper end to the neck of the body and with its remaining portion disposed in spaced relation with the inner surface of the body, a head having a mouth opening, a conduit connected to the head in surrounding relation to the mouth opening and extending through the tubular member into the body of the doll, the body when compressed providing a suction in the conduit to draw liquid through the mouth opening into the body and said tubular member cooperating with the conduit to prevent the liquid received in the body from entering the head of the doll.

5. In a doll, a body, an inwardly extending inwardly tapered tubular member sealed around its upper end to the upper portion of the body and with its remaining portion disposed in spaced relation with the inner surface thereof, a head having a mouth opening, a conduit connected to the head in communication with the mouth opening and extending through the tubular member into the body of the doll and said tubular member cooperating with the conduit to prevent liquid received in the body through the mouth opening from entering the head of the doll.

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