

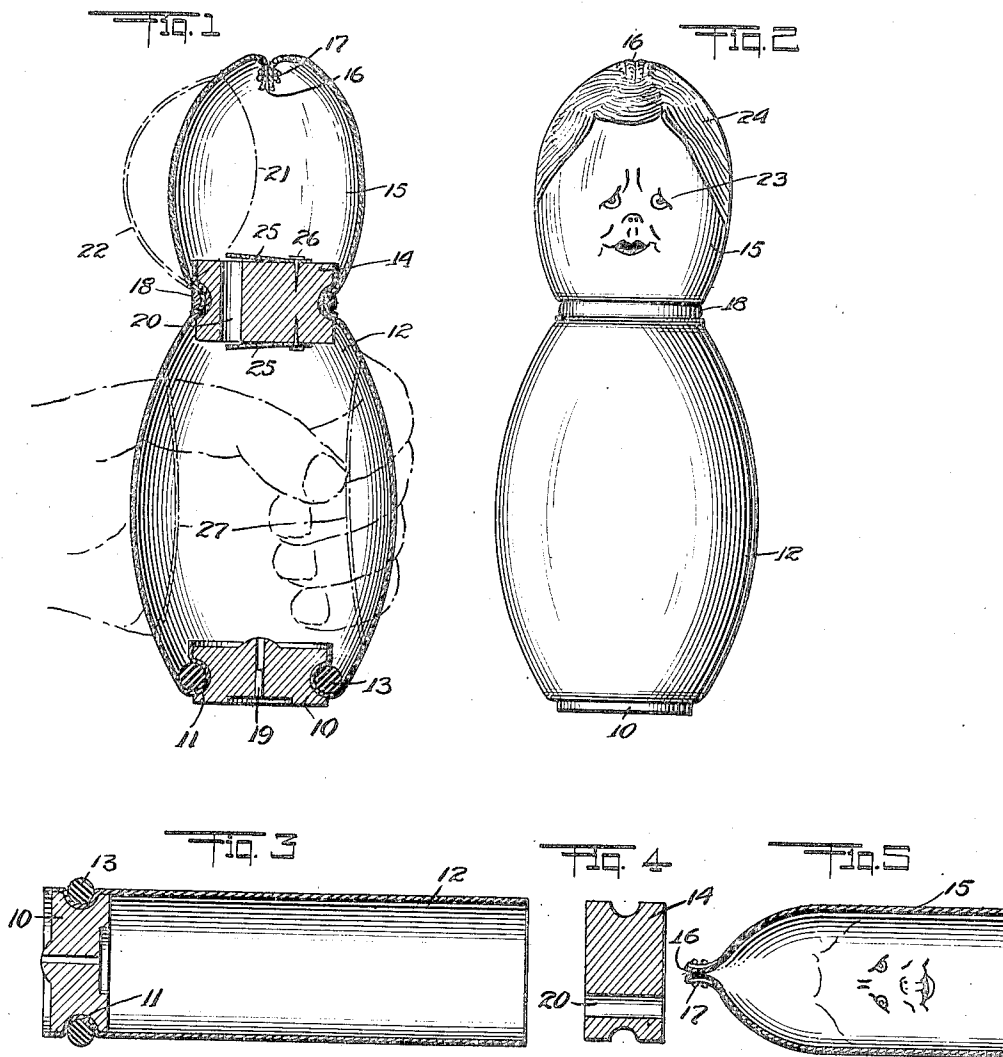
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TOY

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UNITED STATES PATENT OFFICE.

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TOY.

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To all whom it may concern:

Be it known that I, THOMAS W. PEDERSEN, a citizen of Denmark, and a resident of New York city, in the county and State of New York, have invented certain new and useful Improvements in a Toy, of which the following is a full, clear, and exact description.

This invention relates to toys, and in particular to the doll type that can be manipulated to produce sounds in imitation of a baby's cry.

An object of the invention is to produce a toy of this character which can be used by a small child without danger of breaking, and which cannot get out of order when handled roughly.

Another object is to provide a toy wherein the passage of air from one portion thereof to another will cause the vibrations of certain elements to produce a whining sound.

Drawings.

Figure 1 is a sectional elevation of the toy showing the construction and method of manipulating the same.

Figure 2 is an elevational face view of the toy, in this instance represented as a doll.

Figure 3 is a detail shown in section illustrating the method used in joining the body portion of the doll to the base to form an air-tight joint.

Figure 4 is a sectional view of a detail which forms the neck of the doll.

Figure 5 is a longitudinal section of the head forming portion of the doll, and illustrates the method used in closing one end thereof to form an air-tight joint.

Description.

Referring to the drawings in detail wherein my invention is applied to a toy having the configuration of a doll, 10 denotes a cylindrical base formed preferably of soft rubber and having formed in the periphery thereof, an annular groove 11.

The body portion of the doll is made from a piece of seamless rubber tubing 12 whose diameter may be slightly smaller than the diameter of the base member 10. The base member is inserted into one end of the tubing 12 and a rubber ring 13 similar to those used in keeping an umbrella closed, is placed around the tubing to force the latter into contact with the groove 11 in the base member. This forcing of the rubber tubing

into the groove provides an air-tight joint at the base of the doll.

The tubing 12 is then turned inside out, thus covering the ring 13. A neck piece 14 of wood and substantially the same shape as the base 10 is inserted in the open end of the tube 11.

The head of the doll is formed of a like piece of relatively shorter rubber tubing 15 than that which forms the body portion. One end of the tubing 15 is gathered as at 16 and bound with a piece of string 17 to prevent escape of air when the doll is inflated. The tubing 15 is then turned inside out, and the open end is passed over the neck piece 14 and end of the tubing 11. A rubber band 18 is then passed around the neck piece 14 and forces both ends of the tubing 11 and 15 into a groove provided in said neckpiece. This band 18 holds the body portion and head portion together and also prevents the passage of air between the two portions at the periphery of the neck-piece 14.

The base 10 is provided with a small longitudinal bore at the center thereof through which air may be introduced to inflate the doll slightly. A suitable rubber plug 19 prevents egress of air from the doll and being rubber will yield with any bending movement of the base.

A bore 20 in the neck piece 14 permits the inflation of the head simultaneously with the body of the doll. The both portions, i. e., the head and body are composed of rubber having the same elasticity so that both will assume a bulbous shape and the body portion being the largest will swell slightly larger than the head.

An area of the head, one half of which is indicated by the line 21, is treated with a chemical agent such as ether, chloroform and naphtha, which renders that portion relatively softer than the remainder of the doll, so that upon further compression of the air in the head, this area will swell out as at 22, thus contorting the face markings 23 inscribed thereon.

The head is spherically formed by the gathering of the tube end and is painted as at 24 to represent hair.

Vibrators 25 formed of paper-thin strips of steel are fastened as by tacks 26 at one end to the opposite sides of the neck-piece 14, their other ends being positioned to

register with the bore 20 therein. These vibrators are bent slightly so as not to be capable of closing the mouths of the bore, to prevent passage of air therethrough.

5 When the body portion is gripped by the hand and compressed as shown by the lines 27, the air will be further compressed in the head portion and the face will bulge as at 22. When the body is released, the air passing
10 through the bore 20 will cause the vibrators 25 to give forth a whining sound.

While I have shown my invention embodied in a doll, it is to be understood that the principle of construction could readily
15 be applied to any other form of toy such as a dog or bird.

Claims.

1. As an article of manufacture, a toy
20 comprising an inflatable tubular member; a circular base fitted into one end of said member and having a peripheral groove formed therewith, and a ring adapted to
25 seat in the groove of said base to maintain said member in engagement with the base, said ring being disposed in the interior of said tubular member when the toy is completed.

2. As an article of manufacture, a toy
30 comprising head and body portions having the configuration of a doll, a neckpiece joining said portions and formed to provide an

air passage therethrough; a base for the lower end of said body portion having an opening therein for the inflation of both of
35 said portions; a closure for the head portion; means for closing the opening in the base when the toy has been inflated; means providing for the lateral distortion of a part of said head portion when said body
40 portion is squeezed; and means associated with said neckpiece for producing a sound when said body is released subsequently to being squeezed.

3. In a toy as characterized, an elastic
45 tubular member formed to provide a body portion and a head portion having the configuration of a doll, a circular neck piece within said member and having an opening therein communicating with the interiors of
50 said portions, a circular base portion secured in the lower open end of the body portion of said member and having an opening therein through which the inflation of both the body
55 and head portions thereof may be effected, and a resilient plug removably closing the opening in said base when both portions of said member have been properly inflated, the facial area of the head portion of said member being adapted for relatively greater
60 expansion than the remainder of the area thereof when the head portion is inflated to a greater degree than normal.

THOMAS W. PEDERSEN.