

[54] **TOY KISSING DOLL**

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[56] **References Cited**

UNITED STATES PATENTS

1,547,354	7/1925	Baum	46/117
1,805,231	5/1931	Blaustein	46/118
3,287,847	11/1966	Gardel et al.	46/118

FOREIGN PATENTS OR APPLICATIONS

665,367	6/1964	Italy	46/135 R
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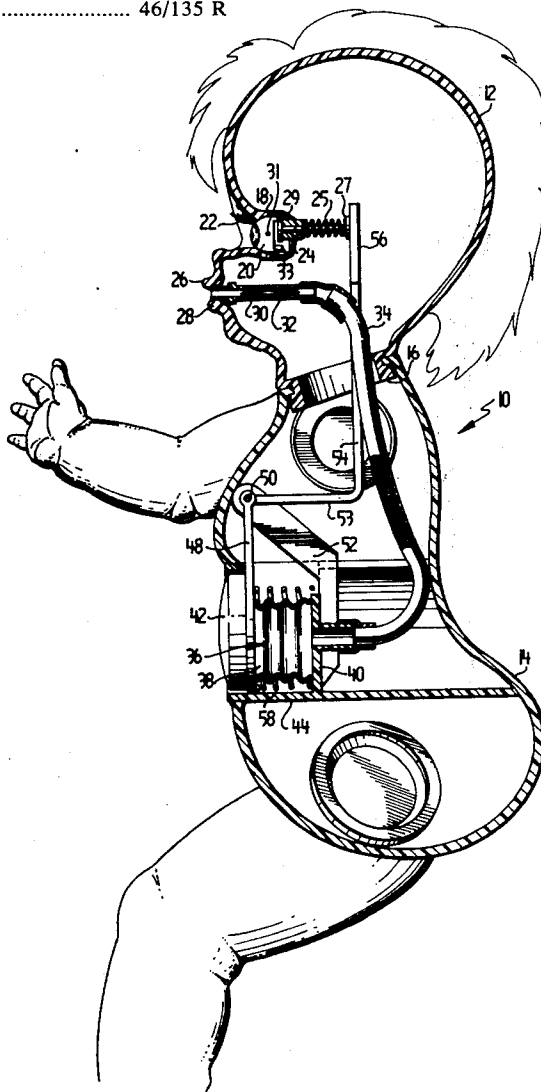
Attorney, Agent, or Firm—Staas & Halsey

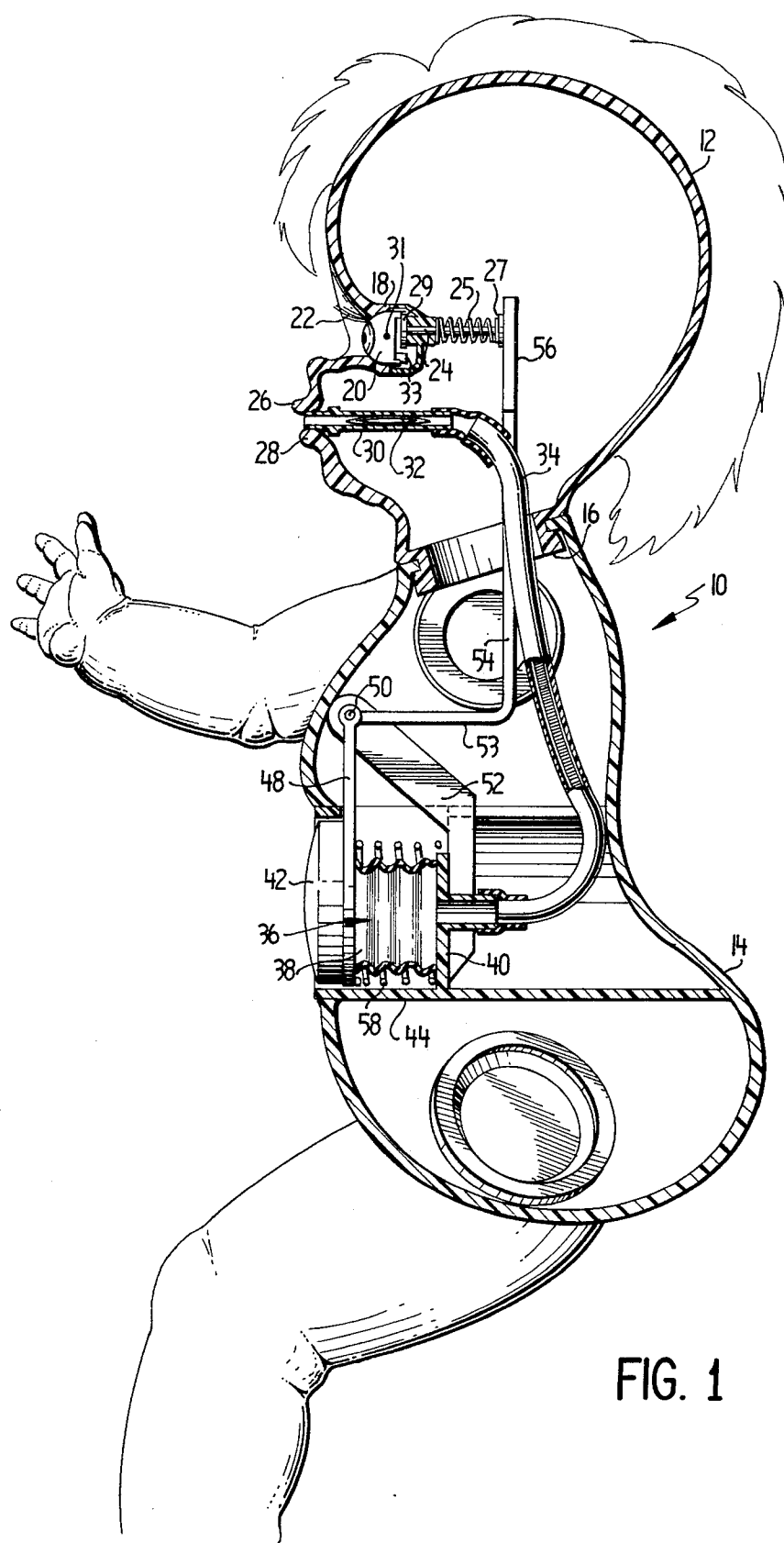
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ABSTRACT

A toy doll consisting of a head provided with sockets within which eyes are mounted for rotation, and open lips forming a mouth; a torso provided with a flexible bellows which is contracted upon the depression of a button located centrally of the torso to expel air outwardly therefrom, and a spring normally urging the bellows to assume its expanded position; a conduit operatively connecting the lips of the head to the interior of the bellows and a sound producing mechanism located in the conduit in the vicinity of the lips so as to produce a kissing sound as air is permitted to pass inwardly through the lips after the button is released; and a rotatably mounted arm actuated by the inward movement of the button for rotating the eyes within their associated sockets.

4 Claims, 2 Drawing Figures





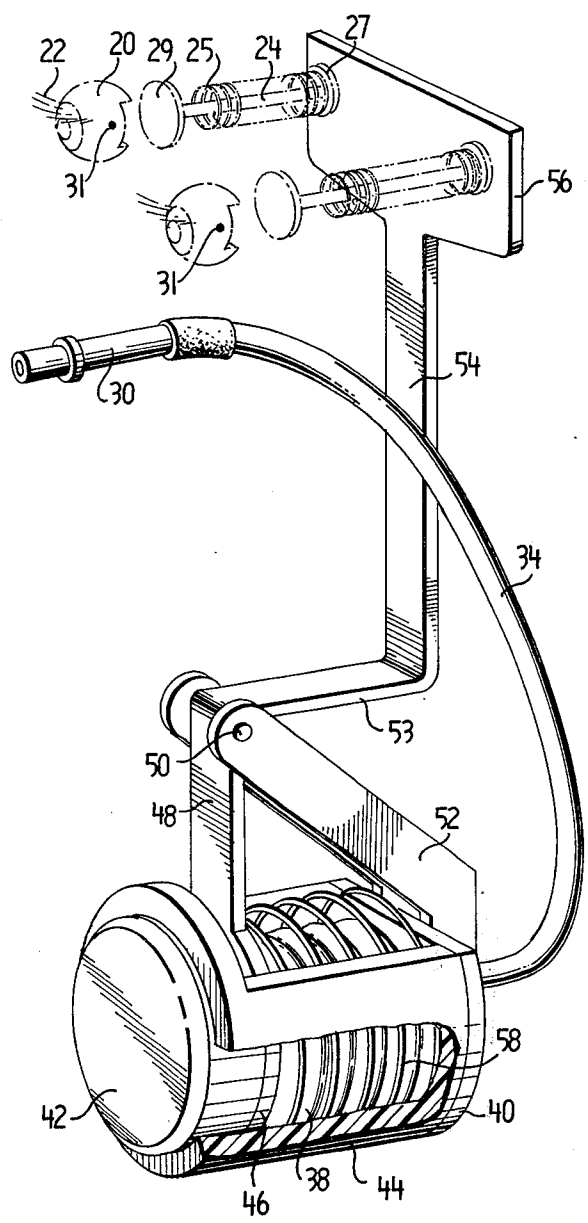


FIG. 2

TOY KISSING DOLL

BACKGROUND AND SUMMARY OF THE INVENTION

The present invention relates to a toy doll capable of both producing a kissing sound and opening and closing its eyes. It has long been known to build into the body of a toy dolls mechanisms for opening and closing the eyes, and for producing a wide variety of sounds. Such prior sound producing and eye movement mechanisms have not for the most part been correlated with, nor produced by, realistic interaction with the child. In the present invention the kissing sound emanating from the doll results from realistic interaction with the lips, cheek, or other surface of the child's body. Moreover, the doll's eyes open and close in appropriate coordination with the kissing sound.

To accomplish the foregoing, the child depresses a button located centrally of the doll in turn compressing a bellows construction. Compression of the bellows construction expels air outwardly through a conduit terminating in the vicinity of the doll's lips. A mechanical linkage acting in conjunction with the bellows closes both of the doll's eyes. The child then positions the doll's lips in contact with the lips, cheek or other surface of the child's body in such manner as to simulate kissing, at which time the opening between the doll's lips is closed by the surface of the child's body in engagement therewith precluding the inward passage of air through the doll's mouth. Thereafter, as the child moves its lips or cheek ever so slightly simulating kissing, the obstruction to air moving inwardly through the doll's lips is removed, in correspondence to the outward expansion of the bellows, permitting air to pass inwardly through the doll's lips into the aforementioned conduit. Within the conduit is located a mechanism capable of producing the kissing sound as air passes inwardly therethrough.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a sectional view of the head and torso of the doll illustrating the eye moving and sound producing mechanism; and

FIG. 2 is a perspective view of the eye moving and sound producing mechanism.

DESCRIPTION OF THE PREFERRED EMBODIMENT

In FIG. 1 the doll is designated generally by the reference numeral 10 and comprises a head 12 releasably secured to the torso 14 by the flange construction 16. The sockets 18 formed as an integral part of the head 12 accommodate generally semi-spherical eyes 20 to which exaggerated lashes 22 are secured. Extending backwardly from each of the eyes 20 is a rod 24, the purpose of which will be explained hereinafter.

Positioned between the opposed lips 26 and 28 of the doll is a sound producing mechanism designated by the reference numeral 30 and which is capable of producing a sound resembling kissing when air passes inwardly through the lips 26 and 28 and through the mechanism 30. Such sound producing mechanisms are well known in the prior art and need no further explanation, it being sufficient to note herein that a metallic element 32 consisting of opposed reed-like surfaces capable of producing the desired noise is positioned within the mechanism. The sound producing mechanism 30 is

connected by way of flexible conduit 34 to the bellows mechanism generally designated by the reference numeral 36.

An expandable and contractable plastic cover or bag 38 is secured at one end thereof to the wall 40 of the frame of the bellows mechanism 36 to which the conduit 34 is attached, thus placing the interior of the cover 38 in communication with the conduit 34. The opposite side of the flexible, plastic cover 38 is secured to a button 42 which is mounted for reciprocating movement within the side wall 44 of the frame of the bellows mechanism 36. Mounted immediately behind the button 42, and surrounding the cover 38, is a support 46 terminating upwardly in an arm 48 which, in turn, is mounted for rotation about a pin 50 affixed to a support 52 extending upwardly from the rear wall 40 of the bellows mechanism 36. The arm 48 makes a right angular turn defining a further section 53 and thereafter makes a further right angular turn defining an upstanding section 54 which terminates upwardly in a support 56 which is normally positioned adjacent the rods 24 to which the eyes 20 are connected.

Thus, as the child depresses the button 42 against the action of the spring 58 so as to compress the cover or bag 38, the arm 48, including sections 53 and 54 thereof, and the support 56, are rotated counterclockwise as illustrated in FIGS. 1 and 2. The rotation of the support 56 exerts pressure on the end 27 of each of the rods 24 moving the rods 24 toward the edges 20 against the force of the springs 25 causing the other ends 29 of the rods 25 to push against the upper sections of the eyes 20 causing the eyes 20 to rotate about the pins 31 which mount the eyes 20 for rotation within the sockets 18. Simultaneously therewith, the contraction of the cover or bag 38 of the bellows mechanism 36 forces air outwardly thereof and through the conduit 34, sound producing mechanism 30 and lips 26 and 28 of the doll. It is to be noted that the aforementioned metallic element 32 is disposed such that the desired noise is only produced as air passes inwardly through the doll's lips 26 and 28 and the mechanism 30. It is at this time that the child positions its lips, cheek or other surface of its body into engagement with the lips 26 and 28 of the doll. This action effectively seals off the opening of the sound producing mechanism 30 preventing air from passing inwardly therethrough which, of course, will prevent the cover or bag 38 of the bellows 36 from expanding. The button 42 may then be released. The child then manipulates its lips, cheek or other body surface so as to release slightly the seal of the doll's lips 26 and 28, the result of which is to permit an amount of air that may be regulated to pass inwardly through the doll's lips 26 and 28 and enter the mechanism 30 so as to produce the kissing noise. The child may reseal the engagement between its lips or cheek and the doll's lips 26 and 28, at which time the kissing noise terminates. As the kissing action continues, the air passing through the sound producing mechanism 30 is transported to the cover or bag 38 of the bellows construction 36 which gradually expands under the influence of the spring 58 to its original position, which causes the doll's eyes to gradually open as the arm 48, including sections 53 and 54 thereof, and the support 56, are rotated about pin 50 clockwise to their original position illustrated in FIG. 1. During this time, the spring 25 exerts pressure on the end 27 of each of the rods 24 retracting the rods 24. The balance weight 33 ensures that the eyes 20 rotate about the pins 31 so as to return to their

original position.

Realism is accomplished with the present invention wherein the interaction between the child and the doll is responsible for producing the kissing noise and wherein the opening and closing of the eyes of the doll is coordinated with the kissing noise.

I claim:

1. A toy doll that interacts with body contact with the child to produce a kissing sound and eye movement, comprising a head, sockets provided within said head, eyes, means mounting said eyes to rotate within said sockets between open and closed positions, and lips defining an opening therebetween, a torso provided with a flexible, enclosed bag therein, means normally urging said bag to its expanded position, a conduit provided with sound producing means operatively connecting said opening between said lips of said head and the interior of said bag, said sound producing means only producing a sound on the intake of air through said opening between said lips into said conduit, a button positioned along the surface of said torso for operation by the child, means operatively connecting said button to said bag and said eyes such that as the child depresses said button said eyes are rotated from said open to said closed position simultaneously with said bag being compressed to expel air therefrom at which time the child engages said lips of said doll closing said opening therebetween and thereafter gradually releases the engagement with said lips permitting air to move inwardly through said lips at which time said eyes rotate from said closed to said open position simultaneously with the operation of said sound producing means.

2. A toy doll as in claim 1, wherein said means operatively connecting said button to said bag and said eyes comprises an arm, means mounting said arm for rotation within said torso about an axis, said arm having a lower extremity below said axis a portion of which is positioned between one end of said bag and said button, said arm also having an upper extremity above said axis and terminating at a position spaced rearwardly of

said sockets, rods, means mounting said rods for reciprocating movement through portions of said sockets, each of said rods having one end portion engaging said upper extremity of said arm and another end portion engaging the upper portion of one of said eyes such that upon rotation about said axis said upper extremity of said arm moves said rods inwardly rotating said eyes to said closed position.

3. A toy doll as in claim 2, wherein said means mounting said eyes to rotate within said sockets between open and closed positions comprises pins mounted within said sockets, said eyes being mounted for rotation about said pins, and wherein weights are attached to the lower portions of said eyes inwardly of said pins.

4. A toy doll, comprising a head, sockets within said head, eyes mounted for rotation within said sockets, rods attached to said eyes and extending into said head, and lips defining an opening therebetween, a torso connected to said head and provided with a frame therein, a flexible enclosed bag mounted within said frame, a button having one side positioned along the surface of said torso and the other side thereof located at one end of said frame such that as said button is depressed said bag is contracted expelling air therefrom, a spring interposed between said button and said frame normally urging said bag to its expanded position, a conduit operatively connecting said opening between said lips of said head and the interior of said bag, a sound producing mechanism located within said conduit, a member attached to said frame and extending outwardly therefrom, an arm mounted for rotation about a point on said member, said arm operatively connected to said button, the upper extremity of said arm terminating adjacent said rods when said bag is fully expanded such that as said button is depressed said arm rotates so as to move said rods rotating said eyes, said arm rotating in the opposite direction as said bag expands.

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