



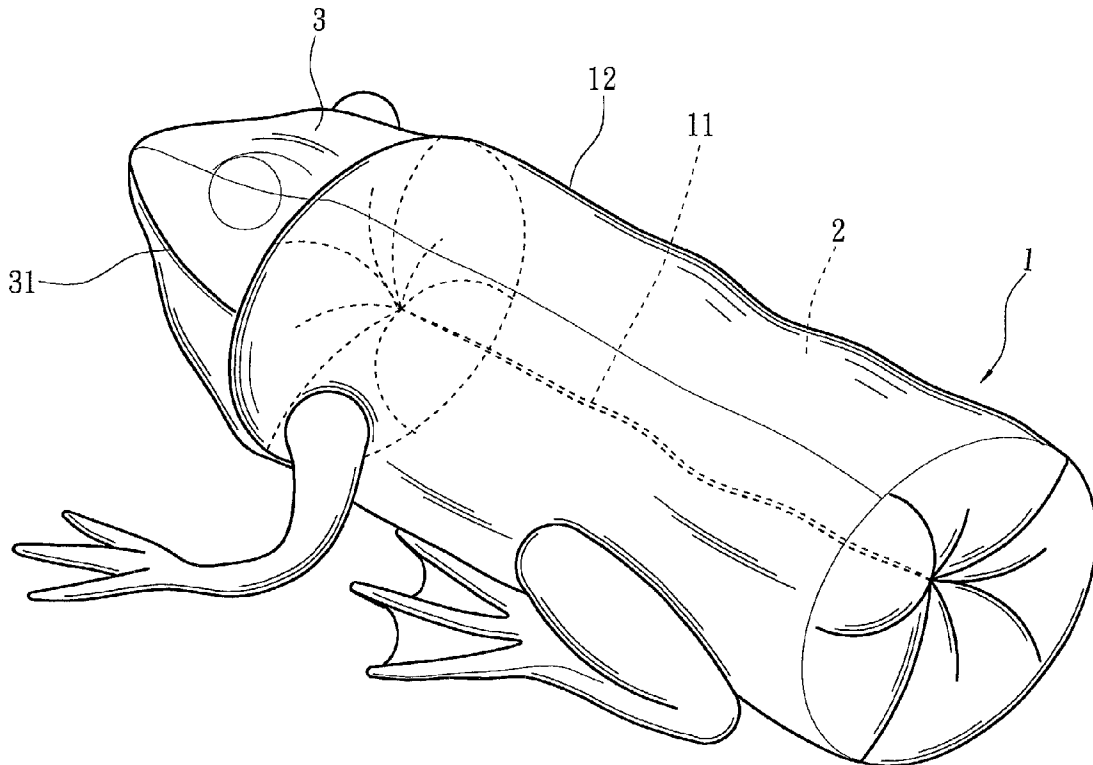
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(19) **United States**(12) **Patent Application Publication****Liao**(10) **Pub. No.: US 2002/0009947 A1**(43) **Pub. Date: Jan. 24, 2002**(54) **SQUEEZING DEFORMABLE TOY
STRUCTURE**(52) **U.S. Cl. 446/320**(76) **Inventor: Chu-Yuan Liao, Taipei (TW)**(57) **ABSTRACT**

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Dougherty & Troxell**5205 Leesburg Pike****Suite 1404****Falls Church, VA 22041 (US)**(*) **Notice:** This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).(21) **Appl. No.: 09/534,391**(22) **Filed: Mar. 24, 2000****Publication Classification**(51) **Int. Cl.⁷ A63H 3/36**

Squeezing deformable toy structure made of one single soft transparent or semitransparent plastic tubular body. The tubular body is turned inside out and fitted into itself to form a main body having an inner tube post and an outer tube post. A fluid is filled between the inner and outer tubes to expand the main body for a player's hand to hold and squeeze. An outer side of the main body is formed with a pattern having a desired form so as to form the squeezing deformable toy. When a player's hand holds the main body and axially shakes the main body back and forth, the fluid contained in the main body will displace toward one end of the main body. Therefore, the inner tube will deform and protrude or retract toward one end of the outer tube to create a funny feeling. The appearance of the main body cooperates with the deformed pattern for achieving an entertaining effect in addition to the squeezing effect.



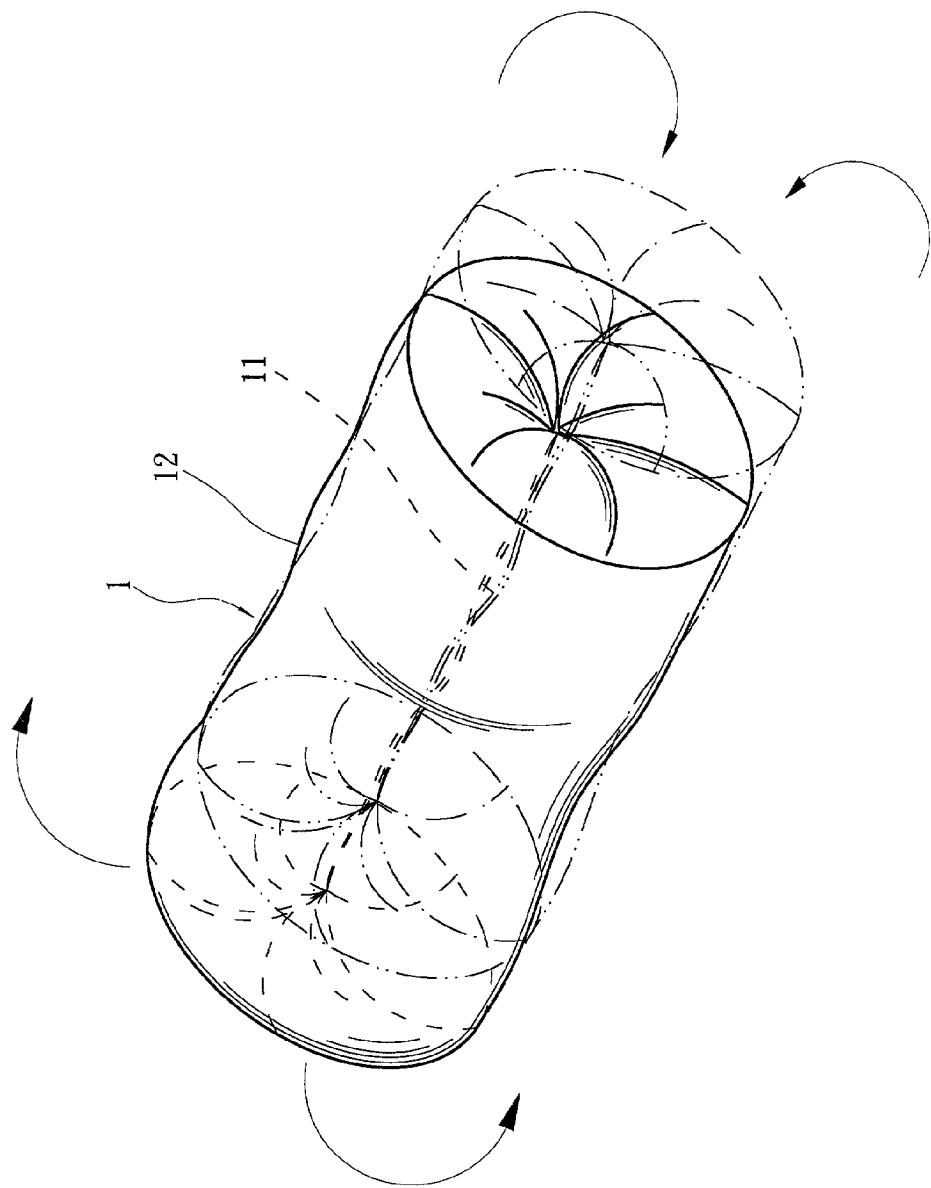


FIG. 1

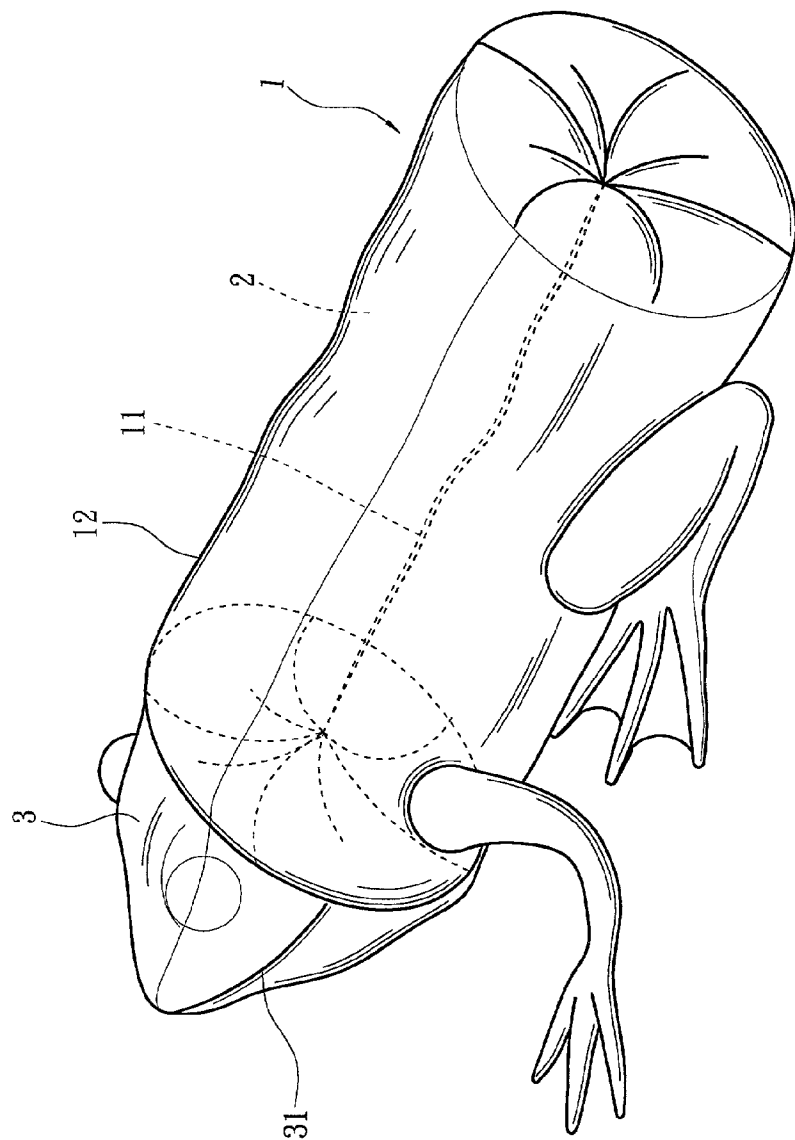


FIG. 2

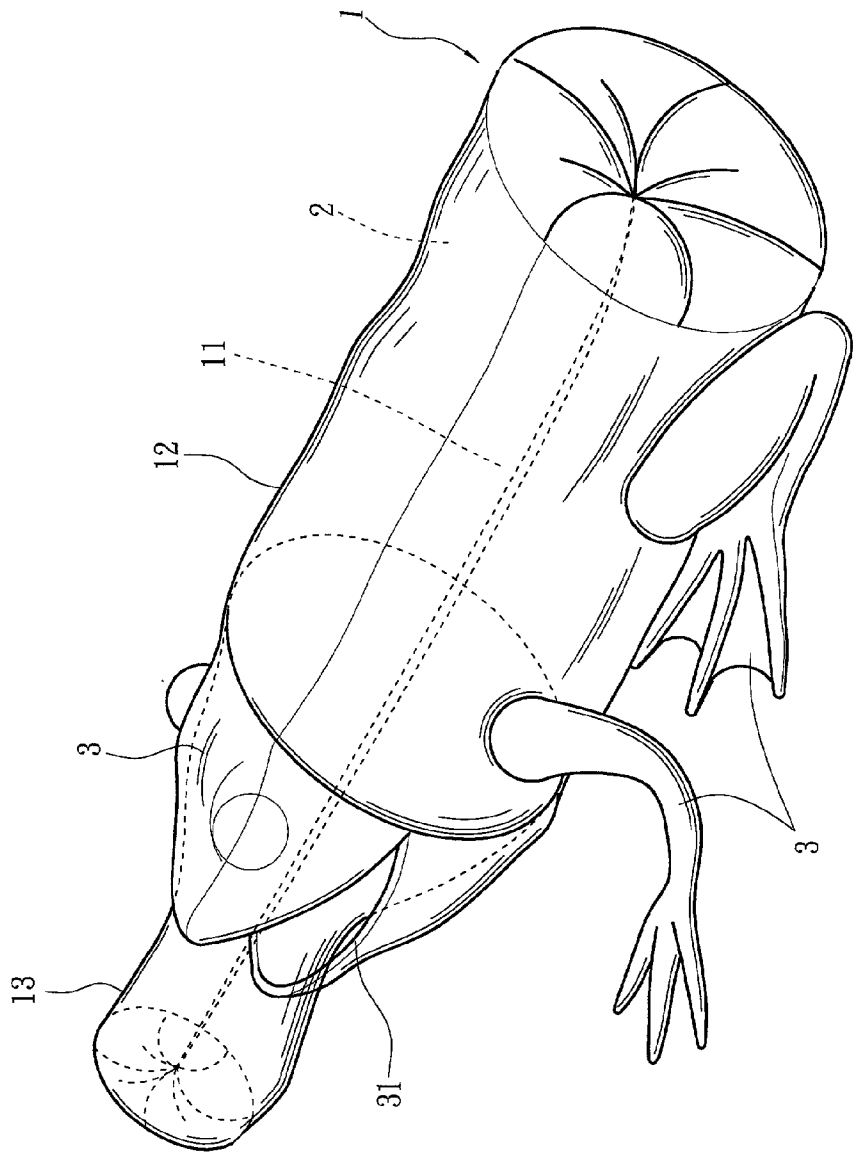


FIG. 3

SQUEEZING DEFORMABLE TOY STRUCTURE

BACKGROUND OF THE INVENTION

[0001] The present invention relates to a squeezing deformable toy structure which is made of one single soft transparent or semitransparent plastic tubular main body. The tubular main body is turned inside out and fitted into itself to form an inner tube and an outer tube. A fluid is filled between the inner and outer tubes and the outer side of the main body is formed with a pattern having a desired form. When a player's hand holds the main body and axially shakes the main body back and forth, the fluid will flow to make the inner tube deform and axially protrude or retract toward one end of the outer tube to create a more funny entertaining effect.

[0002] FIG. 1 shows a conventional squeezing deformable toy which is made of transparent or semitransparent plastic tube. The plastic tube is first turned and folded. Then two ends of the plastic tube are adhered and sealed to form a close tube body. The tube body is filled with a fluid to form a squeezing deformable toy. When playing the squeezing deformable toy with a hand and the toy is shaken left and right, the internal fluid will flow and make the squeezing deformable toy deform by way of extrusion or retraction. Therefore, the squeezing deformable toy can achieve a holding and playing entertaining effect. However, such squeezing deformable toy can only provide monotonous squeezing and deforming effect and can hardly satisfy the requirement of a player.

SUMMARY OF THE INVENTION

[0003] It is therefore a primary object of the present invention to provide a squeezing deformable toy structure which is made of one single soft transparent or semitransparent plastic tubular body. The tubular body is turned inside out and fitted into itself to form a close main body having an inner tube and an outer tube. A fluid is filled between the inner and outer tubes and the outer side of the main body is formed with a pattern having a desired form cooperating with the main body. When a player's hand holds and squeezes the squeezing deformable toy, the fluid contained in the main body will axially flow, rush and displace to make the inner tube deform and axially protrude or retract toward one end of the outer tube to create an enhanced entertaining effect.

[0004] The present invention can be best understood through the following description and accompanying drawings wherein:

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] FIG. 1 is a perspective view of a conventional squeezing deformable toy;

[0006] FIG. 2 is a perspective view of the squeezing deformable toy of the present invention; and

[0007] FIG. 3 is a perspective view showing the operation of the squeezing deformable toy of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0008] Please refer to FIGS. 2 and 3. The squeezing deformable toy of the present invention is made of a soft transparent or semitransparent plastic tubular body. One single tube is turned inside out and fitted into itself to form a main body 1 having an inner tube post 11 and an outer tube post 12. The inner and outer tube posts 11, 12 are filled with a fluid 2 or other visual decorative articles. The outer side is formed with a pattern 3 having a desired form such as a frog as shown in FIG. 2. The pattern 3 cooperates with the main body 1 to form the squeezing deformable toy. When playing and squeezing or shaking the squeezing deformable toy, the fluid 2 contained in the main body 1 will axially rush to at least one end. The rushing force will make the inner tube 11 axially slide relative to the outer tube 12. Therefore, the inner tube 11 will axially protrude or retract toward at least one end. Such deformation can cooperative with the outer pattern 3 and make the pattern 3 partially convex or concave. For example, a deformed section 13 can be protruded from the open mouth 31 of the frog pattern 3 as shown in FIG. 3 so as to achieve a cooperative variable visual effect and a funny appearance.

[0009] The above embodiment is only used to illustrate the present invention, not intended to limit the scope thereof. Many modifications of the above embodiment can be made without departing from the spirit of the present invention.

What is claimed is:

1. Squeezing deformable toy structure made of one single soft transparent or semitransparent plastic tubular body, the tubular body being turned inside out and fitted into itself to form a main body having an inner tube and an outer tube, a fluid or other visual decorative articles being filled between the inner and outer tubes, an outer side being formed with a pattern having a desired form so as to form the squeezing deformable toy.

2. Squeezing deformable toy structure as claimed in claim 1, wherein the pattern has a form of a frog and the mouth of the frog is positioned at one end of the main body.

3. Squeezing deformable toy structure as claimed in claim 2, wherein the mouth of the frog is outward open.

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