June 1, 1926. 1,587,215

A. COHN

DOLL AND THE LIKE

Filed May 1, 1925

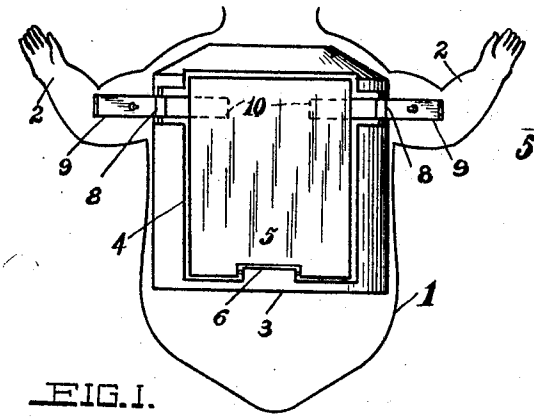


FIG. 1.

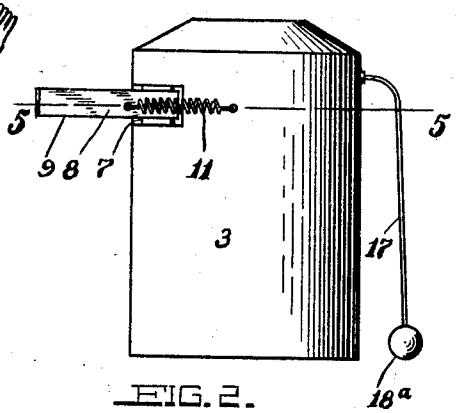


FIG. 2.

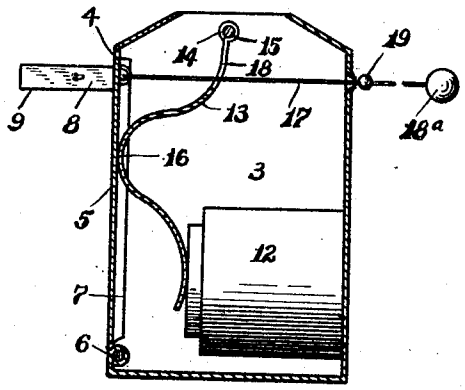


FIG. 3.

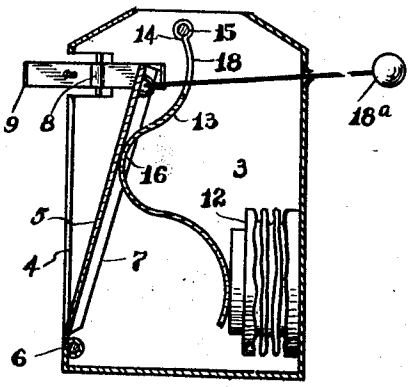


FIG. 4.

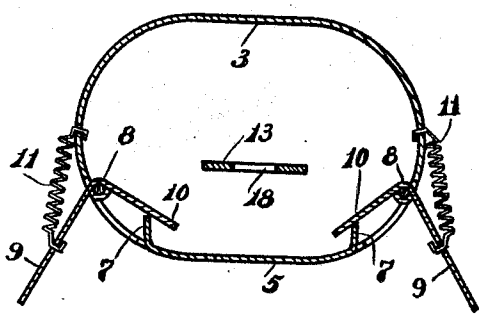


FIG. 5.

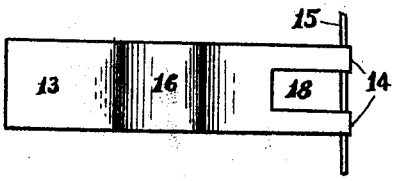


FIG. 6.

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UNITED STATES PATENT OFFICE.

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DOLL AND THE LIKE.

Application filed May 1, 1925. Serial No. 27,203.

The invention relates to improvements in dolls and the like as described in the present specification and shown in the accompanying drawings which form part of the same.

The invention consists of a figure-body having mechanism so arranged that upon alternately squeezing and relaxing a yieldable part of this body the figure's arms are successively brought together and reverted back again, simultaneously with the working of a sound producing device; in this manner the object of the invention is to produce preferably a doll, which, in simulation of an infant, claps its hands as it emits a sound of merriment.

Whilst in the description of the invention, the preferred form is being shown in its application to a doll, it will be readily understood that without in any way departing from the invention's natural scope, it may equally usefully be employed in connection with other configurations, particularly where an upright figure is conventional to the toy, such as, say for instance, a toy monkey.

The structure of the invention takes the form of a doll-body provided with a yieldable portion and mechanism connecting the same with the doll's arms so that upon depressing the yieldable portion the arms will be actuated and a sound-producing device simultaneously operated.

Referring to the drawings: Figure 1 is an outline of a body of a doll showing the arms outstretched and a shell or casing mounted in the body containing a mechanism for actuating the arms.

Figure 2 is a side elevation of the shell or casing depicting a cord extended from its rear.

Figure 3 is a vertical sectional view of Figure 2 showing the mechanism in its normal position.

Figure 4 is a similar view illustrating the yieldable plate depressed.

Figure 5 is a transverse sectional view taken on the line 5—5 of Figure 2.

Figure 6 is a detail of a spacer that is positioned between the yieldable member and the sound producing device.

Like numerals of reference indicate corresponding parts in each figure throughout the drawings.

In the drawings, the reference numeral 1 indicates the body of the conventional stuffed type of doll. 2 are the jointed arms, which are pivoted or hinged to swing in a transverse plane, which pivot or hinge may be of any convenient form.

3 is a substantial shell or casing positioned in the body and forming a chamber therein. This casing is of such length that it extends well down into the region of the stomach and is cut-away, as at 4, to provide a comparatively large opening at the front of the doll-body.

5 is a plate positioned in such opening and is hingedly connected, as at 6, to the lower end thereof. The side edges of such plate are inwardly turned in order to form flanges as at 7. Pivoted in each side of this shell or casing is an actuator 8 comprising a rigid member 9 having a further member 10 extended approximately at a right angle therewith, the last mentioned member engaging the adjacent flange of the plate 5.

The pivotal axis of said actuator is preferably positioned coaxially with the hinge of the adjacent arm and has its rigid member 9 firmly embedded in such arm in order that the arms of the doll will be worked simultaneously with the movement of the actuators.

11 are a pair of coil springs, one positioned at each side of the shell 3 and connected to the respective members 9 of the actuators so as to urge them to their outermost position.

It will be manifest that other means for resiliently urging the said actuators may be employed than those shown and it is not intended, of course, to restrict the invention to any particular form.

12 is a sound-producing device located within the shell 3, preferably of the bellows type. This sound device is urged outwardly by a spring therein contained. 13 is a spacer pivotally suspended, as at 14, by a rod 15. This spacer is curved intermediate of its length, as at 16, to engage the inner face of the yieldable plate 5, and the lower end thereof is likewise curved to encounter the sound producing device 12.

17 is a cord attached to the free end of the yieldable plate 5 extended rearwardly therefrom through an aperture 18 in the spacer 13, and thence through a further opening in the rear of the shell for a comparatively short distance. The free end of this cord is provided with a button or ball 18a.

It will be manifest that while this invention has been described in its application to a stuffed character embodying a

shell or casing to hold the actuating mechanism, that where the body is molded with a hollow interior, this shell or casing can be dispensed with.

In order to limit the outward movement of the yieldable plate, an enlargement 19 is provided on the cord 17: however, in practice it will be found that there are many other means by which this object can be achieved and hence it is not desired to limit the invention to any particular form of stop.

In the operation of this invention, upon depressing the plate 5 either through squeezing the body or pulling upon the cord 17, the actuators 8 will swing the arms inwardly upon their pivotal axis, and the spacer 13 will simultaneously compress the sound producing device 12. Upon releasing the pressure, the springs 11 will revert the arms of the yieldable plate 5 to their normal positions and coincidentally the sound producing device 12 will emit sound. Thus, in its application to a doll, this alternate depression and relaxation of the yieldable plate may be utilized for the simulation of the doll's hands being clapped with an audible expression of its pleasure.

What I claim is:—

1. In a doll or the like, arms constructed and arranged for movement to and away from each other, a rigid plate hingedly mounted in the front of the body, actuators rigidly extending from the arms into the path of said plate, springs urging said arms and plate to their normal positions, a sound-producing device, and a spacer interposed between the same and said plate.

2. In a doll or the like, a shell forming a chamber within the body, arms pivotally connected thereto, a rigid plate hingedly mounted in an opening provided in said shell, actuators rigidly extending from said arms into the path of said plate, springs urging said arms to their outstretched positions, a sound-producing device attached interiorly of the shell, and a spacer interposed between the same and said plate for simultaneous operation of the sound-producing device with the aforesaid arms.

3. In a doll or the like, arms constructed and arranged for movement to and away from each other, an inwardly yieldable plate mounted in the front of the body, actuators rigidly extending from the arms into the path of said plate, springs urging said arms and plate to their normal positions, a sound producing device, and a spacer interposed between the same and said plate.

4. In a doll or the like, a shell forming a chamber within the body, arms constructed and arranged for movement to and away from each other, a rigid plate hingedly mounted in an opening provided in said shell, actuators rigidly extending from said arms into the path of said plate, springs urging said arms to their outstretched positions, a sound-producing device attached interiorly of the shell, and a spacer interposed between the same and said plate for simultaneous operation of the sound-producing device with the aforesaid arms.

5. In a doll or the like, a shell forming a chamber within the body, arms pivotally connected thereto, an inwardly yieldable plate mounted in an opening provided in said shell, actuators rigidly extending from said arms into the path of said plate, springs urging said arms to their outstretched positions, a sound-producing device attached interiorly of the shell, and a spacer interposed between the same and said plate for simultaneous operation of the sound-producing device with the aforesaid arms.

6. In a doll or the like, a shell forming a chamber within the body, arms pivotally connected thereto, a rigid plate hingedly mounted in an opening provided in said shell, actuators rigidly extending from said arms into the path of said plate, springs urging said arms to their outstretched positions, a sound-producing device attached interiorly of the shell, and means associating said sound producing device with the aforesaid plate for its concurrent operation with the aforesaid arms.

7. In a doll or the like, a shell, arms pivotally mounted therein, an inwardly yieldable plate situated in an opening provided in said shell, means operably associating the arms with said yieldable plate, a sound-producing device also associated with said yieldable plate for concurrent operation with said arms, said sound-producing device being located interiorly of the shell, and resilient means urging said yieldable plate to a normal position.

8. In a doll or the like, a chambered body provided with an opening communicating with its chamber, an inwardly yieldable plate closing the body-opening, arms constructed and arranged for movement to and away from each other, actuators pivoted within said body-chamber and arranged to project into the path of said yieldable plate, springs urging said arms to their outstretched positions, a sound-producing device, and means associating the same with said yieldable plate.

Signed at Toronto, Ontario, Canada, the 24th day of April, 1925.

AARON COHN.