

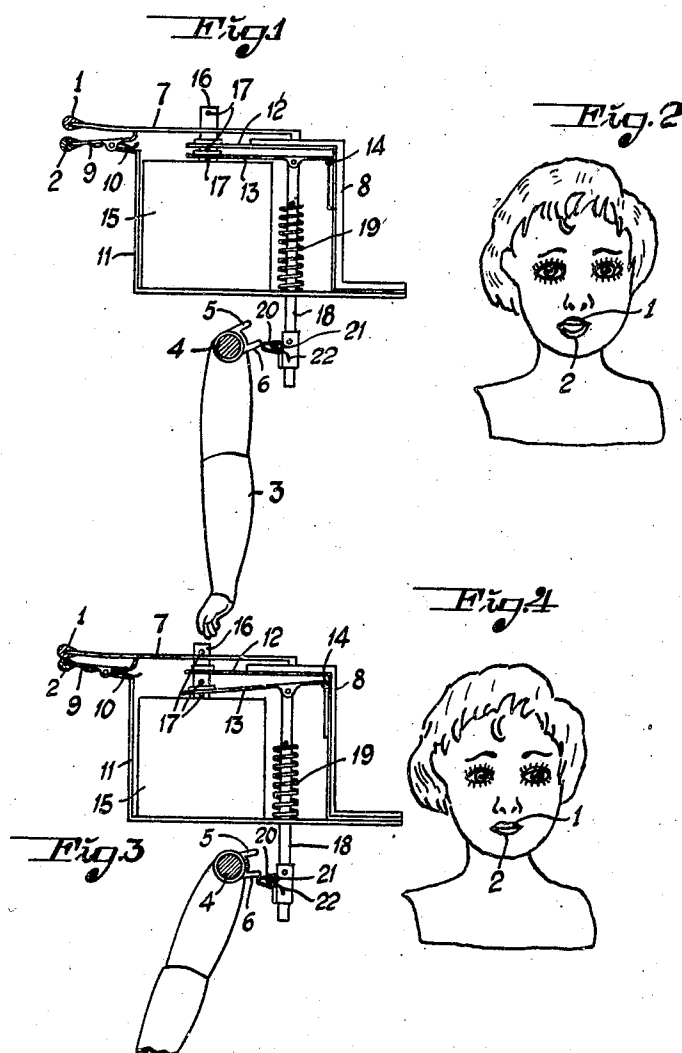
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TOY DOLL

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TOY DOLL

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5 Claims. (Cl. 46—118)

The present invention relates to a toy doll, the lips of which are movable by means of one or both arms of the doll.

An embodiment of the invention is illustrated in the accompanying drawing. Fig. 1 illustrates a diagrammatic side elevation of the construction of the mechanism situated inside the doll. Fig. 2 shows the doll head by a front view and illustrates the mutual position of the lips when the mechanism takes the position shown in Fig. 1. Figs. 3 and 4 illustrate corresponding views of the mechanism and the lips of the doll respectively in a different position.

The upper lip 1 of the doll is carried at one end of a yieldable member or arm 7, the other end of which is secured to a frame 3. The lower lip 2 is carried at one end of another member or double-armed lever 9, which is pivoted to the frame portion 11, and which, at its inner end, has an upstanding or angular projection which engages the yieldable arm 7 by way of a leaf spring 10. When the arm 7 is being depressed, this mechanism causes the lower lip 2 to move upwards, and simultaneously the upper lip 1 is lowered. The frame carries a vertical reciprocable bar 13 which is surrounded and actuated by a spring 19 which has a tendency of setting the bar in an upper end position. The upper end of the bar 13 is coupled to a single-armed lever 13, one end of which is connected with the frame 3 by means of a hinge 14, the other end carrying an annulus through which a bar 16 cooperating with a sound bellows 15 is extended. The bar 16 has three pins 17 two of which are situated close to the bottom and top surfaces of the annulus of the lever 13 so that the bar 16 is displaced positively on movements of the bar 13. The third pin 17 is provided at the upper end of the bar 16. The upward movement of the bar is limited by an arm 12 secured to the frame and carrying an annulus surrounding the bar, the middle one of the pins 17 abutting at the upward movement of the bar.

Attached to the lower end of the spring-actuated bar 18 is a sleeve which carries a pawl 20 which is held in its operative position by a spring 22 and which can be turned upwards from said position (illustrated in the drawing) around the bolt 21 against the action of the spring 22 but is prevented from being turned downwards. One or both arms 3 of the doll are rotatable on the axle 4 and are connected with two projections 5, 6 extending from the axle and being engaged successively with the pawl 20 on turning the arm 3 of the doll.

The mouth of the doll is open, when the doll arm takes the position shown in Fig. 1. On swinging the arm forwardly from this position the projection 6 will engage the pawl 20, the bar 18 and also the bar 16 being pulled downwards, and the upper pin 17 of the latter depressing the

yielding arm 7 so as to close the mouth. On swinging the arm 3 further the projection 6 is disengaged from the pawl 20 so that the bar 18 is returned to its upper position by the spring 19, the mouth being opened. Simultaneously the sound bellows is operated by the upward movement of the bar 16. On swinging the arm 3 of the doll further forwardly the projection 5 will engage the pawl 20 so as to close the mouth again and then close it simultaneously with operating the bellows again. The movements effected by the lips in talking a bisyllable is thus imitated by the lips of the doll when swinging the arms forward, and further the sound bellows is operated simultaneously with opening the lips.

The invention is not limited to the constructional details illustrated, further embodiments being possible without departing from the spirit of the invention.

What I claim is:

1. In a doll a mechanism for moving the mouth on moving the arm of the doll, comprising a member carrying one lip and another member carrying the other lip, a displaceable spring-actuated bar for moving one of said members to move the lip carried thereby, a movable pawl on said bar and projections on the arm of the doll for cooperation with said pawl to displace said bar by way of the pawl on swinging the arm in one direction.

2. In a doll a mechanism as claimed in claim 1 and further characterized by the provision of a double-armed lever carrying the second lip at one end thereof, and of an angular projection on the other end of said lever for engagement by the member carrying the first lip to move also the double-armed lever as the result of swinging said first lip carrying member.

3. In a doll a mechanism as claimed in claim 1 and further characterized by the fact that the displaceable bar is connected by a rotatable bar to a further bar connected to a sound bellows to actuate said bellows on movements thereof.

4. In a doll a mechanism as claimed in claim 1 and further characterized by a sound bellows and a bar to actuate said bellows upon displacement of the displaceable bar, and a projection on said bellows actuating bar adapted to operate the lip carrying member on its displacement in one direction, said member being yieldable in such a manner as to return to its original state by itself.

5. In a doll a mechanism as claimed in claim 1 and further characterized by the fact that the arm of the doll has two projections in such spaced relation to one another that said projections engage the pawl successively, whereby the movements of the lips are repeated during one and the same swinging operation of the doll arm.

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