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EYES OF DOLLS, TOY ANIMALS, AND THE LIKE.
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Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Inventor:

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To all whom it may concern:

Be it known that I, Thomas Mathews, subject of the King of Great Britain, residing at Leicester, in the county of Leicester, England, have invented certain new and useful Improvements Relating to the Eyes of Dolls, Toy Animals, and the like, of which the following is a specification, reference being had thereto to the accompanying drawing.

This invention relates to toys and principally concerns those made of cardboard or like material, such as for example as cut out dolls, toy figures, puppets, animals and the like.

The invention has reference to toys or figures of the above mentioned kind provided with movable eyes, its object being an improvement in construction whereby the eyes can be caused to automatically change their position, as will be hereinafter explained, upon slight movement being imparted to the toy.

The invention consists of a toy of the kind referred to characterized by the feature that the eyes thereof are mounted in a freely movable manner and capable of movement in a lateral direction and a vertical direction.

It is an important feature of the invention that the eyes in addition to being movable sideways, such as to vary the expression, are movable vertically and have combined with them lids whereby the effect of closed eyes can be produced.

According to a convenient construction the eyes of the toy are carried upon a member such as a piece of cardboard, arranged to rock or oscillate from side to side upon a pivot and also to move vertically to bring a different part of its face into view behind eye openings in the figures.

In further describing the invention reference will be made to the accompanying drawing wherein two embodiments of the invention are illustrated, as applied to a cardboard doll.

In the drawing:

Figure 1 is a face view of the head of a doll showing one form of the invention applied thereto.

Figure 2 is a section taken on the line a—b of Figure 1.

Figure 3 is a view with the face portion of the doll removed to expose the movable eye member, and

Figure 4 is a similar view to Figure 3 showing a modified form of the invention.

Like parts are designated by the same reference characters in all the figures of the drawing.

Referring to the drawing, the toy consists of a doll or other figure having a face portion 1 cut out of cardboard and having cut out eye openings 2 therein. Attached by adhesive and other suitable means to the rear of the figure is a frame 3 of cardboard having formed therein an opening 4 of triangular shape with one corner 5 lowermost. This corner constitutes a socket or pivot point for the corner of a similarly shaped but smaller member 6 consisting of a piece of cardboard and situated within the opening 4 in the frame 3. As shown in Figures 1 and 3 the size and shape of the member 6 is such that by using the corner 5 as a pivot and oscillating the same, it can move from one side to the other of the opening 4. Further the member 6 can move vertically as will be hereinafter described.

The member 6 is enclosed and kept in place in the opening 4 of the frame 3 by means of a cover 7 made of a piece of cardboard or like and fixed to the rear of the frame by adhesive or in any other suitable manner.

The eyes 8 of the toy are printed or otherwise formed or marked on the upper portion of the face of the member 6 and this normally occupies a position with its pivot corner 9 engaging the lower corner 5 of the opening 4, (see Figures 1 and 3) so that the eyes 8 are positioned centrally in and exposed behind the eye openings or sockets 2 in the face portion 1. A tilting movement of the doll or figure in one direction or the other causes the corner 9 of the member 6 to oscillate upon the corner 5 so that said member takes up a position on one side or the other of the opening 4 for example as shown by dot and dash lines 10 and 11 respectively (see Figure 3). It thus follows that the eyes are moved in a corresponding direction, i.e., to one corner or the other of the eye openings or sockets 2. The sideways movements of the member 6 are restricted by the sides 12 and 13 thereof of making contact with the corresponding sides 14 and 15 of the opening.

Below the representation of the eyes 8 on the member 6 is a flesh coloured strip or portion 16 printed or otherwise marked thereon.
When by a partial inversion of the figure, the member 6 is caused to move to the position shown by dot and dash lines 17 (see Figure 3), the portion 16 comes into position 5 behind the eye openings 2 and is exposed therein thus imparting to the figure the appearance of having closed eyes. Upon the figure being again raised to an upright position the member falls, the angular sides 14 and 15 of the opening 4 in the frame 3 directing the pivot corner 9 of the member 6 into the socket 5, so that the eyeballs 8 assume their proper position behind the eye openings. The amount of upward movement 15 is limited by the upper edge 18 of the member 6 making contact with the top edge 19 of the opening 4.

In a modified form of the invention as illustrated in Figure 4; a movable member 20 of rectangular form having eyes 8 thereon is enclosed in a correspondingly shaped opening 21 in the frame 3 and moves to and fro and vertically therein.

The lower edge 23 of the member 20 normally rests midway on the lower edge 25 of the opening 21 and when the figure is tilted for the purpose of moving the eyes as aforesaid, the member 20 slides therealong in one direction or the other endwise movement being restricted by the contact of the edges 24 and 26 or 25 and 27, respectively of the member 20 and opening 21. A flesh coloured part 28 imparts to the figure the appearance of having closed eyes when the figure is partially inverted and vertical movement of the member 20 takes place, this being restricted by the contact of the respective edges 29 and 30 one with the other. A cover 31 fixed to the frame 3 as aforesaid keeps the member 20 in place in the opening 21.

The movable eye member being wholly obscured behind the face portion 1 of the figure with the exception of eye or coloured portions thereof which are exposed behind the sockets 2, when the movements hereinbefore described are effected the figure has imparted thereto the appearance of having varying expressions or of having closed eyes as the case may be.

Claims:
1. A cardboard doll, figure or like toy, consisting of a cut out body having eye openings therein, a flat cardboard frame attached to the rear of said body and having an opening therein, and a flat cardboard member having eyes and a flesh coloured portion thereon and capable of a free limited movement in two opposite directions in the opening of the frame, to expose the eyes and flesh coloured portion behind the eye openings in the body, substantially as described.

2. A cardboard doll, figure or like toy, consisting of a cut out body having eye openings therein, a flat cardboard frame attached to the rear of said body and having an opening therein, a flat cardboard member having eyes and a flesh coloured portion thereon and capable of a free limited sliding movement in two opposite directions in the opening of the frame to expose the eyes and flesh coloured portions behind the eye openings in the body, and a cover fixed to the rear of the frame to keep said member in place in the opening, substantially as described.

3. A cardboard doll, figure or like toy, consisting of a cut out body having eye openings therein, a flat cardboard frame attached to the rear of said body and having a rectangular opening therein, a rectangular flat member having eyes and a flesh coloured portion thereon said member being located within the opening in the frame and of smaller size than said opening and capable of free sliding movement in two opposite directions therein, and a cover fixed to the rear of the frame to keep said member in place in the opening, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS MATHEWS.

Witnesses:
A. W. C. TAYLOR,
GEORGE LESTER.