

Feb. 4, 1930.

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1,746,112

MOVABLE EYE FOR DOLLS

Original Filed June 20, 1924

Fig. 1.

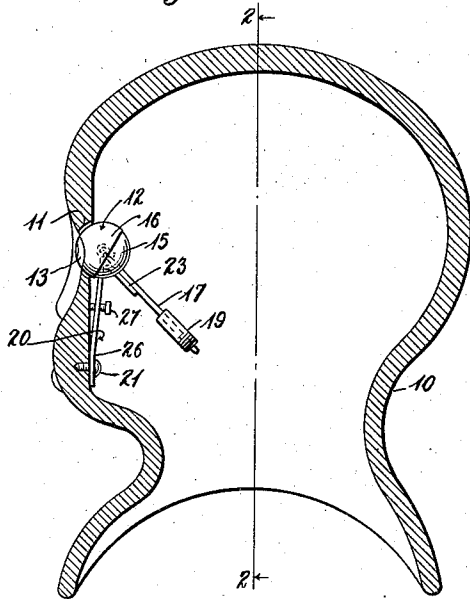


Fig. 2.

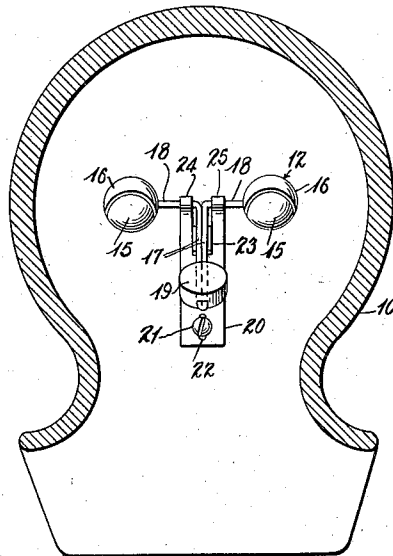


Fig. 3.

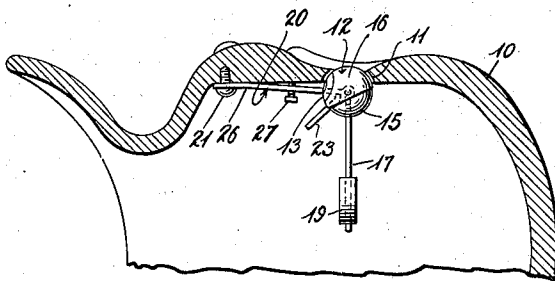


Fig. 4.

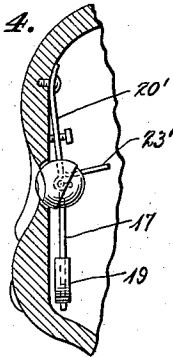
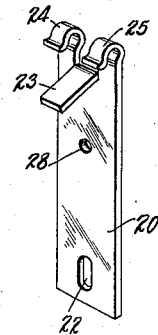


Fig. 5.



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MOVABLE EYE FOR DOLLS

Substitute for application Serial No. 721,204, filed June 20, 1924. This application filed February 1, 1929.
Serial No. 336,821.

The invention relates to dolls, and has as an object the provision of a moving eye which may simulate sleep when the doll, in the head of which the eye is mounted, is laid upon its back.

An object of the invention is to improve upon the known forms of moving eyes for dolls.

A further object of the invention is to provide an adjustment for the joint between the eye and the opening in the doll's head.

A further object of the invention is the provision of a device of the character described which shall be exceedingly cheap to produce and still be efficient in use.

Further objects of the invention will appear from the following description when read in connection with the accompanying drawings showing an illustrative embodiment of the invention, and wherein:—

Fig. 1 is a vertical longitudinal section of a doll's head showing the eye mechanism in elevation, the section being taken on line 1—1 of Fig. 2;

Fig. 2 is a vertical transverse section on line 2—2 of Fig. 1;

Fig. 3 is a section corresponding to that of Fig. 1 showing position of the eye mechanism when the doll is laid upon its back;

Fig. 4 is a section corresponding to Fig. 1, of a modified form; and

Fig. 5 is a perspective view of the mounting bracket.

As shown, the device is mounted in the head 10 of a doll, which head is shown as provided with openings 11 through which the eye balls 12 partially protrude and are visible from the exterior. The eye ball is shown as provided with an iris 13 painted upon its front portion, and may comprise a wooden ball 15 having a shell 16 secured thereto, the portion except the iris and surrounding "white" being plain, so that when the said iris and its surrounding portion are revolved so as to not show through the openings 11, the doll will appear to be asleep.

To revolvably support the eye balls 12 a wire is shown doubled upon itself to provide parallel portions 17 and having its extremities 18 turned at right angles and extending

in opposite directions in substantial alignment.

The wooden balls 15 are secured upon the ends of the portions 18 by a driven or forced fit. By this expedient it is possible to adjust the eyes for rotation so as to be properly centered when the eye is open without the use of screw threads or the like.

To cause movement of the eyes by the force of gravitation, a weight 19 is shown mounted upon the bight of the doubled portions 17 of the mounting wire. The weight may desirably be formed by merely slipping on an ordinary lead seal and compressing the same.

To support the mounting wire with the eyes carried thereon, there is shown a bracket 20, shown in perspective in Fig. 5, secured upon the interior of the doll's head, as by means of a screw 21 passing through a slot 22 in the bracket. The slot 22 is shown as elongated for purposes of convenient and accurate adjustment of the eyes concentric with the openings 11.

As shown, the bracket may be formed from a single piece of material by forming parallel slits at one end, thereby producing the tongue 23, which is turned downwardly and which acts as a stop for the portion 17 of the mounting wire. The thus formed stop may readily be bent to a position to allow the eyes to revolve to the exact degree required, so that the iris and white of the eyes may be concentric with the openings, in the form of Figs. 1, 2, and 3.

A journal bearing for the portions 18 of the mounting wire is formed by bending the strips 24, 25, left when the slits already mentioned are formed, into the loop portions shown in Fig. 5. The portions 18 of the wire may be slipped into the loops and they may then be closed down sufficiently to prevent escape of the wire. The wire will then be found to be efficiently mounted for revolution.

For a ready adjustment of the mounted eyes to and from the eye openings 11 so as to control the amount of joint showing about the eye, the upper portion of the bracket 20 is shown as bent rearwardly at about the point 26 and standing in spaced relation to

the interior of the doll from this point. The adjustment referred to may suitably be provided by means of a screw 27 passing through an opening 28 in the bracket, which screw by
5 being turned in or out may overcome the resilience of the bracket 20 and draw the eyes nearer to the openings, or allow the resiliency of the bracket to withdraw the eyes from the opening.

10 The form of Fig. 4 is adapted for attachment to the interior of the doll's head at a point above the eye openings and the stop 23' is bent at the desirable angle to arrest the movement of the portions 17 of the mounting wire when the doll equipped with this
15 form of device is laid upon its back, instead of when the head is vertical. As shown in this form of the device, the movement of the weight 19 when the doll's head is vertical is checked by contact of the weight with the
20 interior of the doll's head, instead of by means of the stop, as in the form of the device of Figs. 1 to 3 inclusive.

The form of the bracket 20', shown in Fig. 4 is, except for the angle at which the bracket 23' extends, entirely similar to that illustrated in Figs. 1 to 3 inclusive.

The operation of the device will be obvious from the above description, and due to its
30 simplicity will be very cheap to manufacture and yet efficient for use and little likely to get out of order. Minor changes may be made in the physical embodiment of the invention without departing from its spirit.

35 This application is a substitute for abandoned application No. 721,204, filed June 20, 1924.

I claim:

40 A bracket for supporting moving eyes for dolls comprising a strip of resilient material having a slot for adjustably attaching the bracket to the interior of a doll's head, and an opening intermediate the length of the bracket for reception of an adjusting screw,
45 tongues formed integral with an end of the bracket, two of said tongues bent to provide journal bearings for the mounting of the movable eyes of a doll, and a third tongue bent to form an adjustable stop for motion
50 of such mounting.

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