Dec. 19, 1933. N. PAGANELLO 1,940,504

DOLL'S EYES

Filed March 26, 1932

Fig. 1.

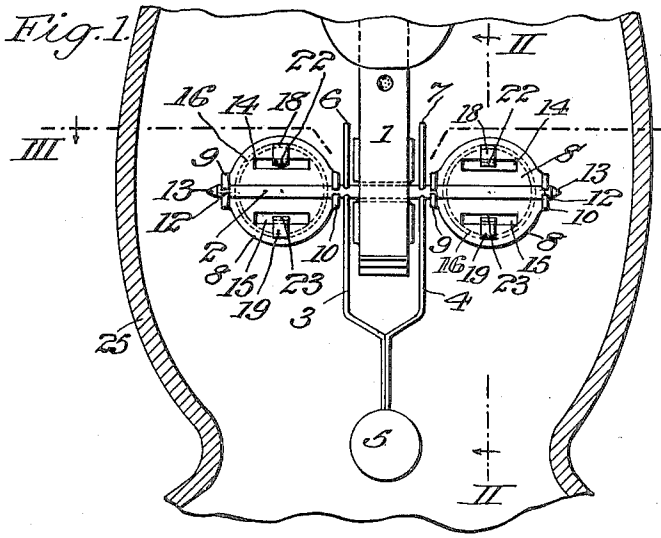


Fig. 2.

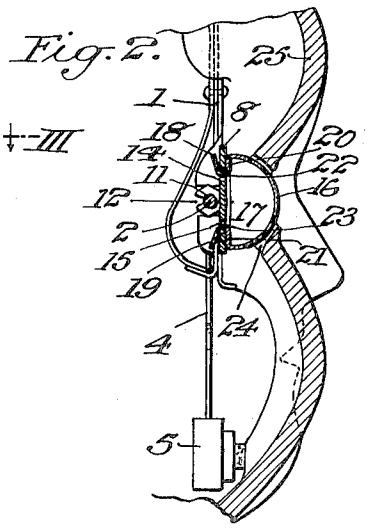


Fig. 3.

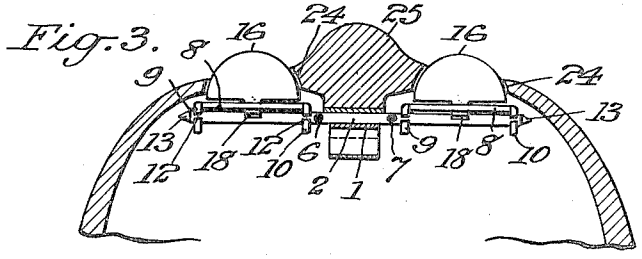


Fig. 4.

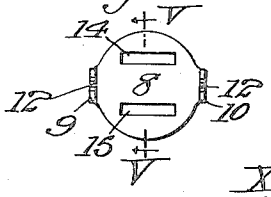


Fig. 5.

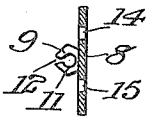


Fig. 6.

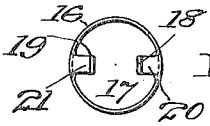


Fig. 7.

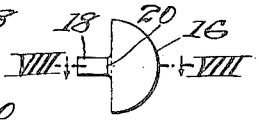


Fig. 8.

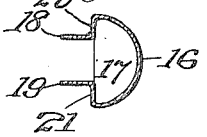
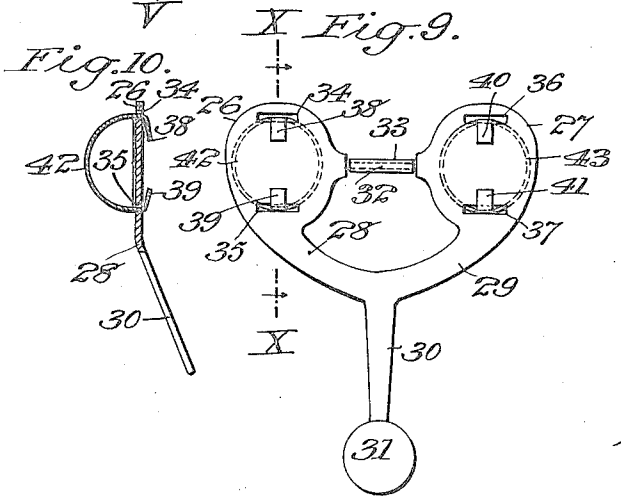


Fig. 9.

Fig. 10.



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UNITED STATES PATENT OFFICE

1,940,504

DOLL'S EYES

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Application March 26, 1932. Serial No. 601,365

5 Claims. (Cl. 46—40)

This invention relates to an improvement in dolls' eyes, and more particularly to the construction and manner of attaching the semispherical eye shells to the supporting means.

One object of the invention is to provide a structure that will permit each eye a sufficiently free longitudinal movement on its support, so that it will automatically find its center of oscillation in the eye socket of the doll's head.

Another object is to provide a structure which is simple in construction, inexpensive to manufacture, and capable of being assembled by unskilled labor with the least expenditure of time.

Another object is to provide a structure which consists of a minimum number of parts and still be efficient in operation.

Another object is to provide certain improvements in the form, construction and arrangement of the parts, whereby the above named and other objects may effectively be attained.

A practical embodiment of my invention is represented in the accompanying drawing, in which

Fig. 1 represents a detail vertical section of a doll's head looking toward the front and showing my improved eye supporting means applied thereto.

Fig. 2 represents a vertical section taken in the plane of the line II—II of Fig. 1, looking in the direction of the arrows.

Fig. 3 represents a horizontal section taken in the plane of the line III—III of Fig. 1, looking in the direction of the arrows.

Fig. 4 represents a rear elevation of the eye supporting plate.

Fig. 5 represents a vertical section taken in the plane of the line V—V of Fig. 4, looking in the direction of the arrows.

Fig. 6 represents a rear elevation of the semispherical eye shell.

Fig. 7 represents a plan view of the semispherical eye shell.

Fig. 8 represents a central section taken in the plane of the line VIII—VIII of Fig. 7, looking in the direction of the arrows.

Fig. 9 represents a rear elevation of modified form of eye supporting means, and

Fig. 10 represents a vertical section taken in the plane of the line X—X of Fig. 9, looking in the direction of the arrows.

The mounting, to which my improved eye supporting means is applied is shown in Figs. 1 to 3 inclusive of the drawing, is described and claimed in my United States Patent No. 1,789,019 dated January 13, 1931. This mounting is denoted as a whole by 1, and I do not deem it necessary to incorporate herein a detailed description of the same, since it is only shown to illustrate the application of the eye supporting means to the doll's head.

The supporting means comprises a cross rod 2 having fixed thereto depending arms 3, 4 arranged to straddle the mounting 1, so that the portion of the rod 2 interposed therebetween will be journaled in the mounting. The lower ends of the arms 3, 4 are brought together and a counterbalance 5 fixed thereto. Stops 6, 7 extend upwardly from the rod 2 and are arranged to engage the inner walls of the doll's head to limit the rocking movement of the cross rod in the mounting 1 in the usual manner.

A flat plate 8 is secured in position to be oscillated on each end of the rod 2 by means of lugs 9, 10 extending rearwardly from diametrically opposite edges of the plate 8, each of which lugs has an opening 11 therein arranged to snugly and tightly engage the rod 2. Each lug is also cut away at 12 outwardly from the opening 11, so that the walls of the opening are rendered suitably resilient to provide a strong spring frictional engagement with the walls against the surface of the rod 2. By making the openings 11 slightly smaller than the diameter of the rod, sufficient frictional grip is afforded when the rod is forced into the openings during the assembly of the support. The ends of the rod are tapered at 13 to facilitate the entry of the rod in the openings 11 in the lugs 9, 10.

Each plate has disposed therein elongated slots 14, 15 spaced apart and disposed above and below the horizontal center of the plate 8, the purpose of which slots will be hereinafter explained. The eyes 16 are formed of relatively thin sheet metal, celluloid, or other suitable material, and each eye comprises a semispherical shell 17 open at its rear sides and provided with relatively wide bendable tongues 18, 19 formed integral therewith. The tongues are bent inwardly toward each other for a short distance to provide shoulders 20, 21 and thence rearwardly in position to enter the slots 14, 15 with the shoulders 20, 21 resting on the plate 8.

To secure the eye shell in suitable engagement with the plate 8, the ends of the tongues 18, 19 projecting beyond the plate 8 are bent upwardly and downwardly respectively to form bights 22, 23 arranged to freely slide in the slots 14, 15 of the plate.

The means of attaching the eye shells to the plate, and the plate to the cross rod 2, as above

described, is obviously a simple and durable arrangement, whereby the semispherical eye shells when being placed in position within the doll's head will be free to automatically slide toward and away from each other on their respective plates to enable the eyes to seat within the sockets 24 of the doll's head 25.

In order to position the eye shells with respect to their horizontal axes transversely to the cross rod 2, the plates 8 may be manually oscillated on the cross rod either before or after the rod 2 is disposed in the mounting 1.

In the form shown in Fig. 9, the eye shell retaining plates are denoted by 26, 27 and are connected by branches 28, 29 which terminate in a depending portion 30 arranged to receive a counterbalance 31. The cross rod 32 is disposed between the plates 26, 27 and a loose sleeve 33 is located thereon and adapted to be inserted in the mounting in the usual manner. The plates 26, 27 are provided with elongated slots 34, 35, 36, 37 and disposed to receive the tongues 38, 39, 40, 41 respectively of the semispherical eye shells 42, 43. The pair of tongues on each eye shell is formed to extend rearwardly in line with the sides of the shell, and when the tongues are disposed in their respective slots in the plate, the ends may be turned inwardly toward each other.

It is evident that various changes may be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention, and hence I do not intend to be limited to the details herein shown and described, except as they may be included in the claims.

What I claim is:

1. In an eye mounting for dolls, eye members comprising, semi-spherical eye shells provided with rearwardly extended portions, and a pivoted support having elongated slots therein, said portions being disposed to project through said slots in position to slide therein and bent toward said support for maintaining said eye shells on the support.

2. In an eye mounting for dolls, eye members comprising, semi-spherical eye shells provided with rearwardly extended tongues, and a pivoted support having elongated slots therein, said tongues being disposed to project through said slots in position to slide therein and having their ends bent toward said support for maintaining said eye shells on the support.

3. In an eye mounting for dolls, eye members comprising, semi-spherical eye shells provided with rearwardly extended tongues, and a support adapted to be oscillated in the doll's head, said support including a cross rod and spaced plates mounted thereon, said plates having elongated slots therein, said tongues being disposed to project through said slots in position to slide therein and having their ends bent toward the plate for maintaining said eye shells on the plate.

4. In an eye mounting for dolls, eye members comprising, semi-spherical eye shells provided with rearwardly extended tongues, and a support adapted to be oscillated in the doll's head, said support including a cross rod and spaced plates provided with means for frictionally engaging said cross rod for adjustment thereon, said plates having elongated slots therein, said tongues being disposed to project through said slots in position to slide therein and having their ends bent toward the plate for maintaining said eye shells on the plate.

5. In an eye mounting for dolls, eye members comprising, semi-spherical eye shells provided with rearwardly extended tongues, and a support adapted to be oscillated in the doll's head, said support including a cross rod and spaced plates frictionally secured thereon in position to be longitudinally and oscillatably adjusted on said cross rod, said plates having elongated slots therein, said tongues being disposed to project through said slots in position to slide therein and having their ends bent toward the plate for maintaining said eye shells on the plate.

NUNZIO PAGANELLO.