Sept. 18, 1928. 1,685,000

O. RESCH

DEVICE FOR MOVING THE EYES OF DOLLS

Filed March 16, 1927

Fig. 1

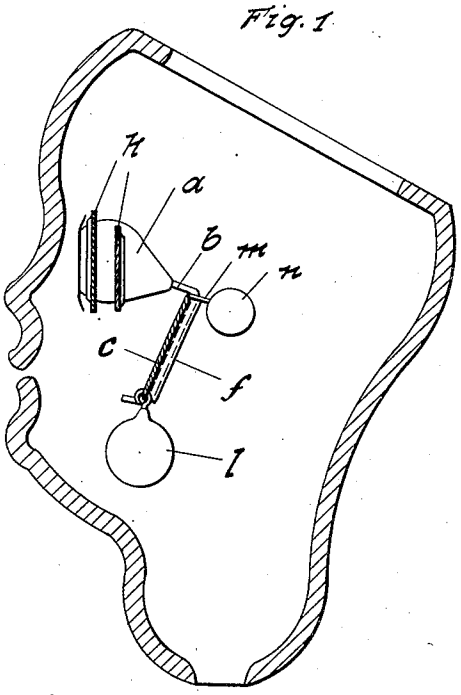


Fig. 3

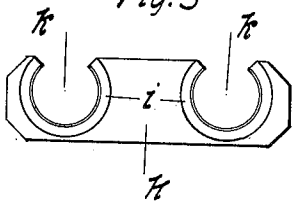


Fig. 4

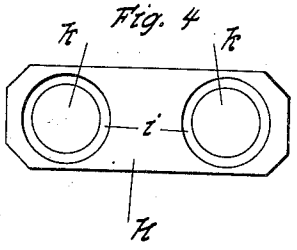


Fig. 2

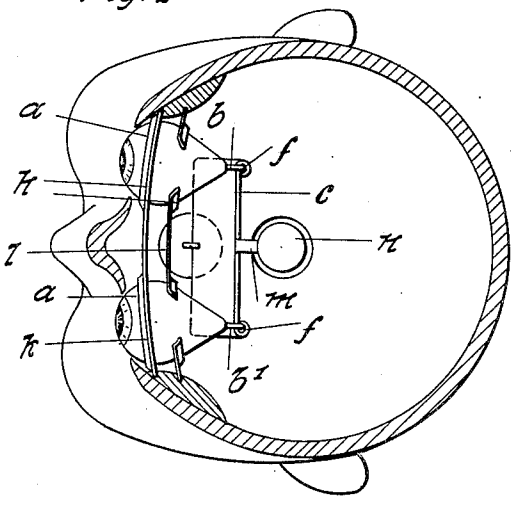
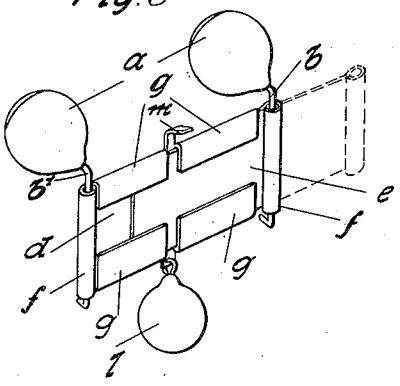


Fig. 5



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Patented Sept. 18, 1928. 1,685,000

UNITED STATES PATENT OFFICE.

OSKAR RESCH, OF NEUSTADT, NEAR COBURG, GERMANY.

DEVICE FOR MOVING THE EYES OF DOLLS.

Application filed March 16, 1927, Serial No. 175,759½, and in Germany December 20, 1926.

The present invention has for its object a doll's head provided with eyes moving in all directions. It is a special feature of this invention, that it allows an easy and perfect movability of the eyes. The devices known up to now for moving the eyes have the drawback, that the arrangement of the eyes within the head is made in a circumstantial manner causing great friction, whereby the movability is greatly reduced. It is furthermore necessary to fasten the device for moving the eyes by means of a connecting member to the skull cover, whereby the movability of the eyes is still further reduced.

According to the present invention the said drawbacks are obviated and the suspension of the device on the skull cover is avoided. The easy movability of the eyes is secured by guiding members, between which the eye balls are journalled. By providing furthermore a weight on a projecting lever, the displacement of the centre of gravity caused by the slightest inclination of the head is transmitted to an oscillating bridge member connecting the eye balls, said bridge member allowing an alteration of its width so that it can be used without difficulty for any distance of the eyes required for dolls of various size.

The annexed drawings show by way of example the present invention, in which Fig. 1 is a longitudinal section and Fig. 2 a cross section of a doll's head. Figs. 3, 4 and 5 illustrate different parts of the device in side elevation.

According to the present invention the device for moving the eyes is arranged in the interior of the doll's head and consists of the eyes *a* provided with horizontal pins *b*, which are bent to form vertical projections *b'*. The two pins *b* of the eyes are connected with each other by means of an oscillating bridge member *c* consisting of two parts *d* and *e*. Each of these parts is provided on its outer end with a loop *f*, which engages with the vertically bent pin *b*. The bridge member *c* is adjustable in its longitudinal direction in such a manner, that the one part *d* carries on its upper and lower edge an overlapping projection *g*, while the other part *e* slides beneath these projections *g*, whereby both parts of the bridge member can be moved with reference to each other and the bridge member can be adjusted for any required distance of the eyes. The eyes are supported by means of guiding members consisting of blades *h*, which are fixed within the head at a certain distance from each other and provided with circular holes *k* having on their peripheries vaulted rims *i* registering with the roundness of eye balls. Between the space formed by the blades *h* the eye balls *a* are journalled. The oscillating bridge member *c* carries on its lower edge a weight *l* serving as an abutment against a buffer secured in the inside of the head for the bridge member during its movement whilst on the upper edge of the bridge member a lever *m* projecting in a vertical direction to the longitudinal axis of the bridge member is provided. On the outer end of this lever *m* a weight *n* is attached.

By the method of supporting the eyes between the guiding blade members and by the arrangement of the weights on the oscillating bridge member it is attained that the centre of gravity is displaced at the slightest inclination of the head and that an uniform movement of the eyes takes place immediately without hindrance.

What I claim is:

A device for moving the eyes of dolls in all directions, comprising in combination eye balls having horizontal pins bent to form vertical projections; an oscillating bridge member consisting of two parts adapted to slide in each other; overlapping projections provided on the lower and the upper edge of one of the said two parts, beneath which the other is slidably received; loops arranged on the one end of each of the said two parts and engaged with the said vertical projections; two guiding blades extending rearwardly from the front wall of the doll head and provided with eye apertures aligned with the eye sockets; eye balls mounted movably in said apertures and sockets; vaulted rims provided on the peripheries of said apertures register with the roundness of the eye balls and weights arranged on said bridge member.

In testimony whereof I affix my signature.

OSKAR RESCH.