E. J. FRAENKELL.

TOY.

APPLICATION FILED MAY 23, 1912.

1,073,111. Patented Sept. 16, 1913.

Fig. 1.

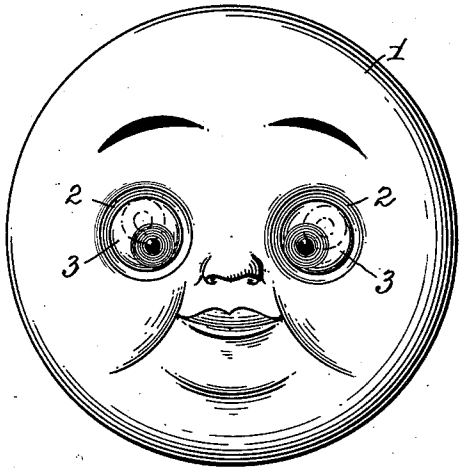



Fig. 2.

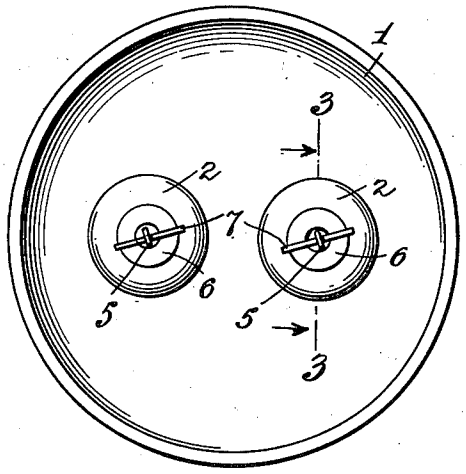



Fig. 3.

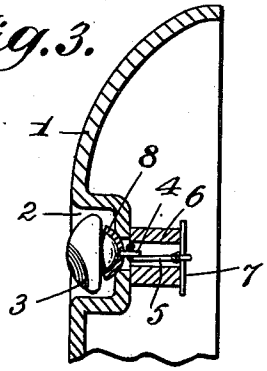
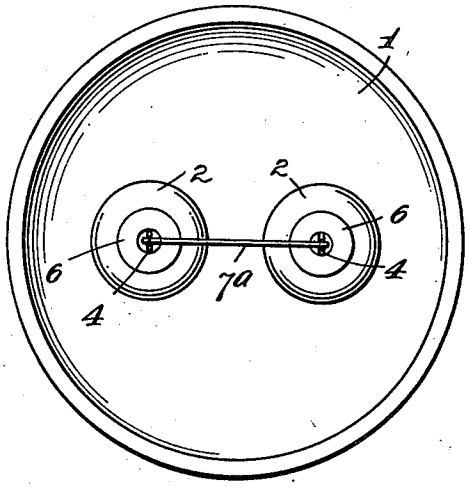



Fig. 4.




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# UNITED STATES PATENT OFFICE.

EUGEN J. FRAENKELL, OF NEW YORK, N. Y.

## TOY.

1,073,111. Specification of Letters Patent. Patented Sept. 16, 1913.

Application filed May 23, 1912. Serial No. 699,090.

*To all whom it may concern:*

Be it known that I, EUGEN J. FRAENKELL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Toys, of which the following is a specification.

My present invention relates to improvements in dolls having movable eyes, especially eyes that are rotatable, and its advantages will be apparent to those skilled in the art from the following description in connection with the drawings.

In these, Figure 1 is a front elevation of the face of a doll or toy within my invention; Fig. 2 is a rear view of Fig. 1; Fig. 3 is a vertical section on an enlarged scale on the line 3—3 in Fig. 2 looking in the direction of the arrows; and Fig. 4 is a rear view corresponding to Fig. 2 but illustrating a modification.

Describing now the specific devices of the drawings, 1 is a doll's head having eye sockets 2. The eyes 3—3 of suitable material such as china or glass suitably colored have a wire loop 4 projecting from the back of each eye.

In Fig. 3, 5 is a rubber cord or band or equivalent elastic member which is attached at one end to the wire loop 4 of the given eye, thence extends through a hole drilled from the bottom of the eye sockets 2 through the face of the doll, and thence preferably passes through a sleeve 6 at whose other end the elastic member is attached to a cross piece of wire 7. The sleeve 6 is preferably provided so as to permit a greater range of elasticity by giving greater length to the elastic member 5. 8 is a leather washer on the shank of each wire loop 4 at the back of the eye and is preferably provided so as to make the eye turn or rotate more smoothly, easily and snugly in its socket.

The result of the foregoing construction is that the child can rotate the eyes of the doll to produce a great variety of expressions of countenance. The elastics 5 have the special advantages that they permit the eyes to be easily rotated but at the same time hold them snugly against the bottoms of their sockets and thereby prevent them from accidentally shifting from their adjusted positions. Finally, as the plaster or composition of the doll's face contracts or expands due to drying out or changes in the weather and temperature, the attaching member 5 can never bind the eyes so as to lock them immovably in their sockets, because these members 5 are elastic and therefore automatically shorten and lengthen to suit the changing conditions.

Fig. 4 shows a modification wherein the cross wires 7 are done away with and wherein the elastic members 5 are connected by another piece $7^a$ of the same material. In fact, in the construction shown, the members 5, 5 and $7^a$ are all one piece of rubber cord with its ends attached to the wire loops 4 of the respective eyes.

The operation and advantages are the same as those already pointed out. Perhaps the modification is advantageous over the first described construction because the sleeves 6 can be omitted.

What I claim is:

1. A toy having a face with holes through it at the eyes, rotatable eye-balls, and elastic means connected with the eye-balls through said holes in the face and having the rear portions secured against being pulled through the holes.

2. A toy having a face with holes through it at the eyes, rotatable eye-balls, elastic means located in said holes in the face having ends connected with said eye-balls and having rear portions secured against being pulled through the holes.

3. A toy having a face with holes through it at the eyes, rotatable eye-balls, elastic means located in said holes in the face and having front ends connected with said eye-balls and having rear portions secured against being pulled through the holes, and sleeves on the elastic members between their rear ends and the back of the face.

4. A toy having a face with holes through it at the eyes, rotatable eye-balls, and elastic means connecting the eye-balls through said holes in the face.

5. A toy having a face provided with inset eye sockets and openings in rear thereof, eyes in the sockets, and yielding means secured to the eyes and passing through the socket-holes, said means yieldingly maintaining the eyes in the sockets and permitting the same being moved.

6. A toy having a face provided with inset eye sockets and openings in rear thereof,

eyes in the sockets, yielding means secured to the eyes and passing through the socket-holes, said means yieldingly maintaining the eyes in the sockets and permitting the same being moved, and cushioning pads interposed between the eyes and the rear walls of the sockets.

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

EUGEN J. FRAENKELL.

Witnesses:
ALAN C. McDONNELL,
EDNA A. MORELAND.