

E. GLEASON.

DOLL.

APPLICATION FILED JULY 15, 1911.

1,044,163.

Patented Nov. 12, 1912.

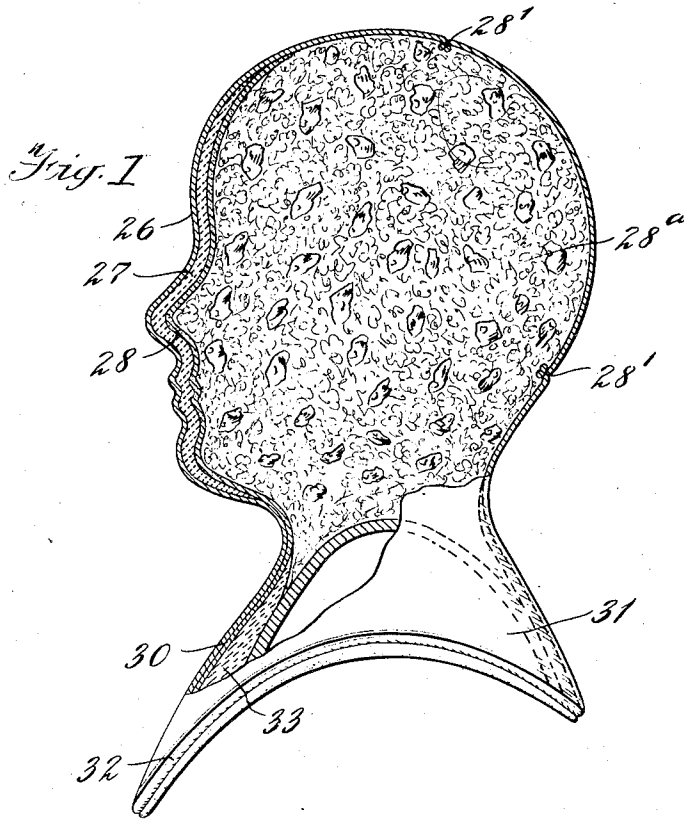


Fig. 2.

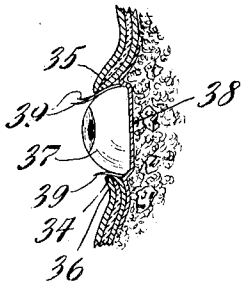
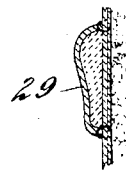


Fig. 3.



Witnesses:
Geo. Cheney
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UNITED STATES PATENT OFFICE.

EMMA GLEASON, OF JERSEY CITY, NEW JERSEY.

DOLL.

1,044,163.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed July 15, 1911. Serial No. 638,672.

To all whom it may concern:

Be it known that I, EMMA GLEASON, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Dolls, of which the following is a specification.

My invention relates to new and useful improvements in dolls, and the object is to provide a doll which will closely simulate the appearance of a human being, and in which the surface texture will approximate the human flesh.

A further and important object of the invention is to provide a doll which will be substantially unbreakable and indestructible under the ordinary uses to which dolls are put.

The invention consists in the improvements to be fully described hereinafter and the novelty of which will be particularly pointed out and distinctly claimed.

I have fully and clearly illustrated my invention in the accompanying drawings to be taken as a part of this specification and wherein:

Figure 1 is a vertical section taken from front to rear through the head. Fig. 2 is a detail sectional view through the face portion of the head showing the manner of mounting the eyes. Fig. 3 is a detail sectional view showing the construction of the ear.

I will now proceed to describe the construction of the head which constitutes one of the important features of my invention in that I provide a head closely approximating the appearance of a human face and at the same time which is substantially indestructible under ordinary usage. This head consists of a face portion of leather which, in its process of formation, is placed in a suitable mold having the desired facial configuration, and the leather is shaped under pressure so as to take to the configuration of the mold. I then place over the interior of the face portion a layer of wet plaster of Paris, and over this a layer of felt 28 which is saturated with liquid glue, shellac or similar substance capable of hardening. The whole laminated structure is then submitted to pressure and, when dry, the face will retain the configuration given it by the mold, the plaster of Paris and felt saturated with shellac insuring this. A face so formed, while hard enough to retain its

configuration under continued usage, is nevertheless soft and tough enough so as not to be fractured under blows and to simulate, to some degree, in texture and appearance, the human skin. The rear of the head is closed by leather cut to a suitable pattern and united to the side edges of the leather blank from which the face portion has been formed, as indicated at 28', but the rear portion of the head is not lined or stiffened by the use of the plaster of Paris and saturated felt so that, when the head is completed and stuffed with a suitable stuffing, such as intermingled cork and hair 28^a, the rear portion of the head will be left soft and therefore unbreakable.

The ears 29 are preferably molded in a suitable mold and stiffened by the use of plaster of Paris and sewed onto the sides of the head portion.

The blank from which the face portion is formed may be extended downwardly to form a neck and chest portion 30, as may likewise the back of the head portion be extended downwardly to form the back of the neck and the shoulder portion 31, the parts being held in the proper relation to simulate the chest and shoulder portion by a transverse sheet of felt 32, the face portion of which is coated with shellac so as to adhere to the leather covering, a coating of plaster of Paris 33 being applied to the back of the felt to stiffen the same. By placing the felt next to the outer covering of leather on the neck and shoulder portions the outer covering of the neck and shoulder is rendered soft and pliable to the touch so as to approximate the texture and softness of human flesh, due to the fact that there is a soft layer of felt between the plaster of Paris coating and the outer leather covering.

In Fig. 2 I have shown an arrangement for securing the eyes in place in the face which gives the face a natural appearance. This is accomplished by cutting slits 34 at the proper points in the outer covering of the face and spreading the edges of the slits so as to take the natural lines of the upper and lower eyelids 35, 36, and between the outer covering and the stuffing of the head is placed a glass eyeball 37 in such position that the iris is properly located between the upper and lower lids, the eye being held in position by a piece of suitable fabric 38 placed over the rear face of the

glass eye and having its edges secured to the interior surface of the felt lining by any suitable means. In order to add to the natural appearance of the eye, short hairs 5 39 are inserted between the surface of the eyeball and the under surface of the lids and there held by any suitable adhesive, to simulate the natural lashes, all substantially as shown in Fig. 2.

10 After the face and head are completed the face, neck, shoulder and chest portions can be suitably painted so as to simulate the tints of the human flesh and the head may be supplied with a suitable wig not shown.

15 Any disclosure in this application relating to a limb construction for dolls and the like is not of my invention, but forms the subject-matter of an application of Albert J. Gleason, filed December 9, 1911, Serial No. 20 664,701.

What I claim and desire to secure by Letters Patent of the United States is:—

1. A doll head consisting of an outer covering of flexible material molded to form a face portion, means within the head for 25 stiffening the face portion to retain its molded configuration, the part of the flexible material forming the head or crown portion being left soft and flexible, a stuffing within the head, lower extensions of the flexible material forming neck and shoulder portions, means for stiffening the neck and shoulder portion, and a soft material between the outer covering and said last named stiffen- 30 ing means.

2. A doll head consisting of a flexible outer covering shaped to form a face portion, a slit in the flexible material forming an eye opening, an eyeball located within the head 40 and protruding through said slit, and lash hairs held between the edges of the slit and the eyeball.

3. A doll head consisting of a flexible outer covering shaped to form a face portion, a slit in the flexible material forming an eye-opening, an eye-ball located within 45 the head and said opening, and lash simu-

lating means held between an edge of the slit and the eye-ball.

4. A doll head consisting of a flexible 50 outer covering shaped to form a face portion, a slit in the flexible material forming an eye opening, an eye ball located within the head and said opening, and a retaining member in rear of the eye ball engaging the 55 head forming material.

5. A doll head consisting of a flexible outer covering shaped to form a face portion, an eye opening in the flexible material, an eye ball located within the head and protruding through said opening, and a retaining member in rear of the eye ball 60 secured to the head.

6. A doll head consisting of a flexible outer covering shaped to form a face portion, an eye opening in the flexible material, an eye ball located within the head and protruding through said opening, and a retaining member extending across the rear portion of the eye ball in engagement there- 70 with and having portions secured to the head forming material.

7. A doll head consisting of a flexible outer covering shaped to form a face portion, an eye opening in the flexible material, an eye ball located within the head 75 and protruding through said opening, and a retaining member extending across the rear portion of the eye ball having its end portions secured to the head forming material. 80

8. Means for forming part of a doll body consisting of an outer flexible covering and inner stiffening material, and a soft filling between the stiffening material and the 85 covering.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

EMMA GLEASON.

Witnesses:

W. DELANEY,
C. V. REDMOND.