A. J. GLEASON.

DOLL.

APPLICATION FILED DEC. 9, 1911.

1,044,162. Patented Nov. 12, 1912.

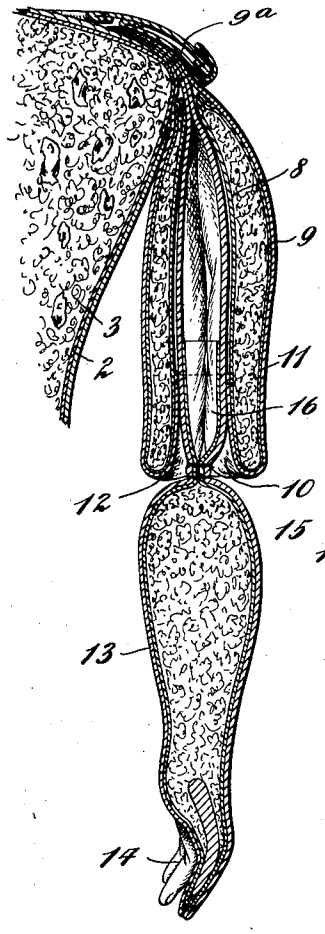

Fig. 2.

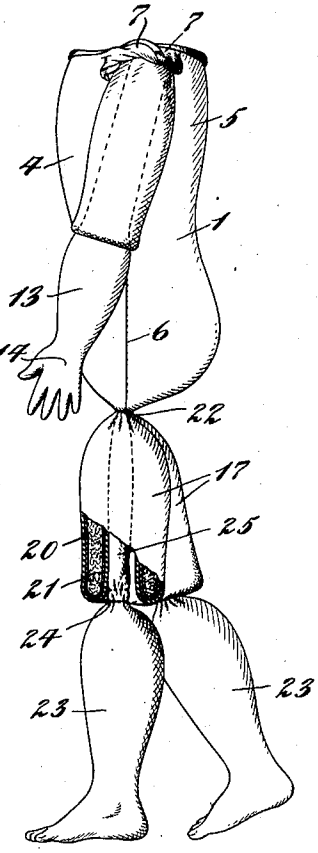

Fig. 1.

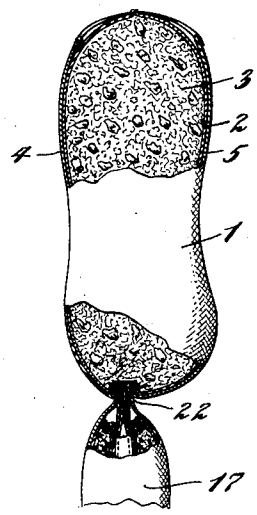

Fig. 3.

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UNITED STATES PATENT OFFICE.

ALBERT J. GLEASON, OF JERSEY CITY, NEW JERSEY.

DOLL.

1,044,162. Specification of Letters Patent. Patented Nov. 12, 1912.

Application filed December 9, 1911. Serial No. 664,701.

To all whom it may concern:

Be it known that I, ALBERT J. 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 an improved limb construction for a doll.

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 view in side elevation, partly in section, of a doll constructed in accordance with my invention; Fig. 2 is an enlarged detail view, in section, of a part of the torso or body and one of the arms; Fig. 3 is a detail view in side elevation, partly in section, of a part of the body and one of the limbs showing the manner of connecting the latter to the body.

Referring to the drawings by characters of reference, 1 designates the body portion, which may be made of any size desired, and which as shown, is shaped to conform to the figure of a child. The body preferably consists of a containing covering 2 of a suitable fabric, and is stuffed with any suitable material 3 which will make a solid and substantial body such, for instance, as a combination of cork and felt. The body may be covered with a covering of light, thin leather, such as kid, so as to simulate the texture of human skin, preferably consisting of front and rear blanks 4, 5, joined at the side seams 6, and which may be held within the side seams of the cloth covering. At the shoulder portions these front and rear blanks 4, 5, are provided with shoulder tabs or straps 7 which serve a purpose to be presently described. At its base the body portion is joined along a seamed line and at which seamed line are connected the upper portions of the lower limbs, as will be hereinafter described.

The limb construction constituting my invention is devised in order to provide a soft flexible limb, the upper and lower portions of which are capable of movement relative to each other, on a hinge joint, and which are also capable of limited rotation relative to each other on their longitudinal axes so that they may be adjusted to simulate the positions of the human limb. It will be understood that the same general principle of construction embodying my invention is applicable either to an arm or leg. I will now proceed to described this limb construction as applied to an arm: The upper limb portion consists of a tubular shell formed of inner and outer layers 8, 9, of suitable fabric spaced from each other and closed at the lower ends, and, at their upper ends, made to approach each other. The hollow space between the layers 8, 9, of the tubular limb portion is stuffed with a soft material, such as a combination of felt and hair, the central longitudinal portion 10 of the limb being left free and open for a purpose to be presently described. This limb portion is covered with a soft leather, or fabric covering 11, the lower portion 12 of which is turned up within the tubular portion 10 and stitched to the covering 8 within the hollow portion of the limb, and the upper outer edge portion of which covering 11 is secured to the body at the joint 9^a, above mentioned, whereby the limb is secured to the body. 13 designates the lower limb or forearm portion carrying the hand 14, said limb and hand portion being cut on a pattern from front and rear blanks, so that, when distended and stuffed, the lower limb will simulate the general contour of the human forearm. This limb portion is filled or stuffed with a suitable material or in such a manner, which will render the same more rigid, or harder than the upper limb portion, so that said forearm portion will retain the proper form.

At its upper end the shell of the forearm is closed by lines of stitches 15 above the stuffing, so as to leave a reduced extended flexible part 16 of the forearm shell which is preferably unstuffed, said stitched lines 15 preferably being located at approximately the position of the elbow. This extended reduced portion 16 passes up through the hollow central portion of the upper limb, and the upper end of the same is secured to the body portion at the joint between the upper limb portion and the body portion at the shoulder thereof, the said reduced portion being preferably free and in no way

attached to the upper limb portion except at the point mentioned. By this arrangement it will be seen that the lower limb or forearm portion is capable of rotary movement relative to the upper limb portion and is also free for a hinged or swinging movement relative to said upper limb portion. After the end of the extension of the forearm and the upper part of the upper arm have been secured to the shoulder portion of the body, the tabs or straps 7, heretofore referred to, on the covering of the body are lapped over and joined by stitches over the joint between the shoulder and the upper arm so as to give the point of union a finished appearance.

Substantially the same limb construction, above described for the arm, is adapted for the construction of the legs, of which construction the upper leg portion is shown at 17 consisting of a hollow double wall shell 20 stuffed with felt and hair, as at 21, the walls of which shell may be of any suitable fabric covered by leather, if desired, the upper ends of which are secured to the base portion of the body on a hinge joint 22 which permits swinging movement of the leg from front to rear. The lower leg portion is designated at 23 preferably made of leather and formed with a foot in which the toes are delineated in shape so as to simulate as closely as possible a human foot. At the upper portion of the lower leg the stuffing is retained by means of transverse lines of stitches 24 so as to form an elongated reduced extension 25, which is preferably unstuffed, and is adapted to be passed through the hollow tubular portion of the upper limb and connected at its upper end, along with the upper portion of the lower limb, to the base portion of the body at said joint 22. By this arrangement the lower limb is capable of rotary and hinge movement relative to the upper limb.

By the above construction I provide a limb for dolls, manikins, and the like, which will retain the proper form, in which the parts are freely movable relative to each other to simulate positions taken by the human limb, and which is unbreakable under ordinary conditions of use.

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

1. A limb construction for dolls and the like comprising upper and lower portions, the upper portion consisting of a flexible tubular member, and the lower portion consisting of a stuffed member having a flexible reduced extension located and secured in said tubular portion.

2. A limb construction for dolls and the like comprising upper and lower portions, the upper portion consisting of a stuffed tubular member, and the lower portion consisting of a stuffed member having an unstuffed extension located and secured in said tubular member portion.

3. In a doll or the like, a body, a limb comprising upper and lower portions, the upper portion consisting of a stuffed tubular member, and a lower portion consisting of a stuffed portion having an unstuffed extension extending through said upper portion and secured to the body.

4. In a doll or the like, a body, a limb comprising upper and lower portions, the upper portion consisting of a tubular member of flexible material, and the lower portion consisting of a stuffed part of flexible material having an unstuffed extension extending through said upper portion, and secured, together with said upper portion, to the body.

5. In a doll or the like, a body, a limb comprising upper and lower portions, the upper portion consisting of a tubular member of flexible material, and the lower portion consisting of a stuffed part of flexible material having an unstuffed extension extending through said upper portion, and secured, together with said upper portion, to the body, a leather covering for said body, and tabs on said covering overlying the joint between the limb and the body.

6. In a doll or the like, a body, a limb comprising upper and lower portions, the upper portion consisting of inner and outer shells with filling between the same, and the lower portion consisting of a stuffed part having a flexible reduced extension extending through said upper portion and secured to the body.

7. In a doll or the like, a body, a limb comprising upper and lower portions, the upper portion consisting of a flexible tubular member, and the lower portion consisting of a stuffed member of flexible material having an unstuffed extension extending longitudinally through the upper limb portion and secured to the body, the stuffed and unstuffed portions of the lower limb being defined by transverse lines of stitches through the material composing the lower limb.

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

ALBERT J. GLEASON.

Witnesses:
EMMA GLEASON,
A. MAYPOTHER.