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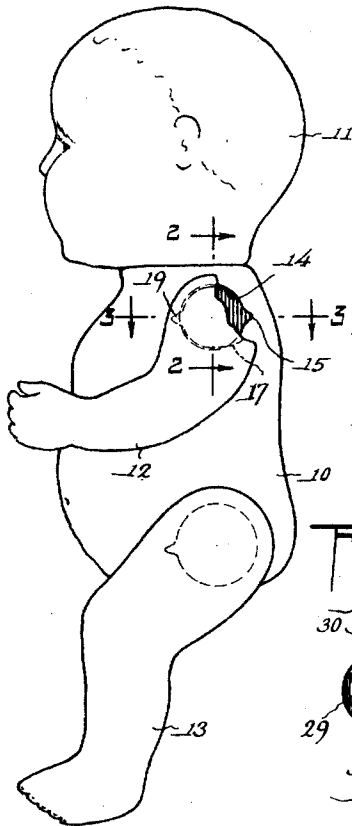
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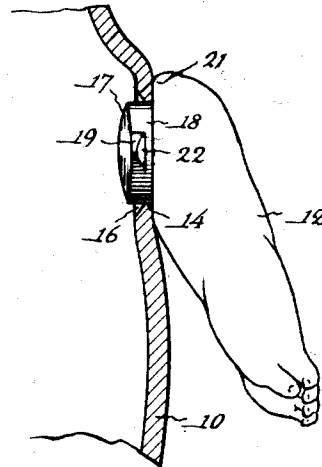
DOLL CONSTRUCTION

Filed Oct. 1, 1927

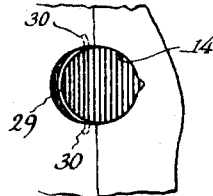
F19.1-



F19.2.



F19.6.



F19.3.

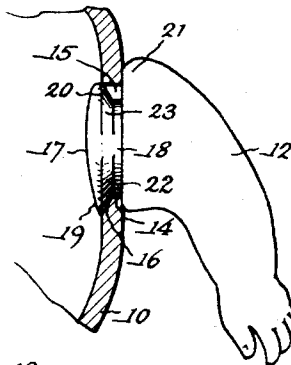


Fig. 4.

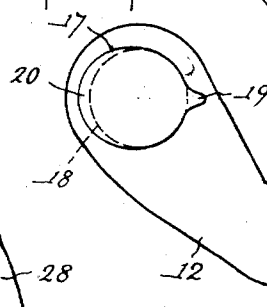
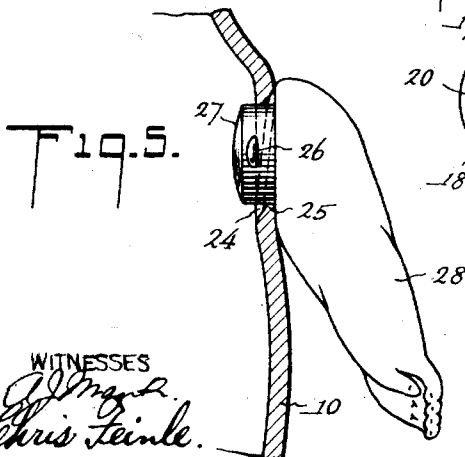


Fig. 5.



WITNESSES
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UNITED STATES PATENT OFFICE.

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DOLL CONSTRUCTION.

Application filed October 1, 1927. Serial No. 223,376.

This invention relates to the class of dolls, and has especial reference to the joints which connect the appendages, such as the legs, arms and head, with the body of the doll.

5 The principal object of the present invention is to connect the arms, legs and head to the body of a doll in a novel manner so as to obviate the use of divers parts such as springs, wires and other fastening elements.

10 Another object of the invention is to provide a simplified and inexpensive connection or joint between the body of a doll and the arm, leg and head appendages thereof, so that the appendages may have movement with respect to the body, and so that they may be readily attached and detached, and so that they may be readily replaced when necessary.

The nature of the invention and its distinguishing features and advantages will appear when the following specification is read in connection with the accompanying drawing, in which—

Figure 1 is a side view of a doll embodying the features of the present invention.

25 Fig. 2 is an enlarged sectional view taken on the line 2—2 of Fig. 1 and looking in the direction indicated by the arrows.

Fig. 3 is an enlarged sectional view taken on the line 3—3 of Fig. 1 and looking in the direction indicated by the arrows.

30 Fig. 4 is an inside elevation of one of the appendages or one of the arms of the doll.

Fig. 5 is a view similar to Fig. 2 and showing a modification of the present invention.

35 Fig. 6 is a view of a modification.

In the illustrated embodiment there is shown a doll which consists of a trunk or body 10 having appendages consisting of a head 11, arms 12, and legs 13. The present invention resides in providing a novel connection or joint between the appendages and the body of the doll, and it is to be understood that the connection or joint may be applied to the arm appendages alone, or the leg appendages, as well as the head appendage. In the illustrated embodiment the arms, legs and head are similarly connected by the features which are illustrated most clearly in connection with one of the arms. Generally stated, 40 the joint or connection consists of integral means on the body 10 which coacts with integral means on the appendage or arm connecting the appendage or arm with the body so as to be readily detached and also allowing rotatory movement of the arm.

55 More specifically the connection or joint of

the present invention resides in providing the body 10, which is of hollow construction, with an opening 14, and a notch 15 communicating with the opening. The portion of the body 10 surrounding the opening 14 is beveled on the inside as at 16. The arm 12 has a terminal or end 17, a portion 18 of which is cross sectionally similar in shape and of substantially the same size of the shape and size of the opening 14, and said terminal also has a laterally projecting portion or bill 19, and a laterally projecting arcuate portion 20 diametrically opposite the bill 19. The arm 12 also embodies a shoulder 21 which cooperates with the terminal 17 and particularly with the beveled surfaces 22 and 23 respectively of the laterally projecting portions 19 and 20. The bevel of the surfaces 22 and 23 conform to the bevel 16 of the portion of the body 10 surrounding the opening 14 to provide a snug fit and to facilitate the intentional detachment of the arm 12.

To attach the arm 12 the bill 19 is brought into registration with the notch 15 and by canting or rocking the arm the portion 20 may be brought to the inside of the body. The arm 12 may then be turned to a position, which will be the normal position of the arm in which the bill 19 will be diametrically opposite the notch 15, as shown most clearly in Fig. 1. In this way the arm 12 will be connected with the body 10 for rotatory movement and will be prevented from becoming detached itself, although it may be intentionally detached by bringing the bill 19 into registration with the notch 15 and exerting on the arm the necessary outward pull on and canting movement of the arm.

In Fig. 5 there is shown a modified form of connection or joint which consists of an opening 24 in the body, the wall of which has formed thereon a spiral ridge 25 which coacts with a lateral projection 26 on the end 27 of the arm appendage 28. The end 27 is substantially of the same cross sectional size and shape of the diameter of the ridge 25. To attach the arm 28 it is only necessary to impart rotatory movement to the arm substantially one complete revolution which brings the projection 26 to the inside of the body as shown in the drawing. The arm 28 will be prevented from detaching itself although by applying the proper outward pull on and turning movement to the arm 28 it may be detached.

The body of the doll is made of two parts

which are glued together and not infrequently it is found that the openings for the arm and leg appendages are oversize. To overcome this there is arranged in the opening 14
5 a suitable flexible member 29 of spring metal having the opposite ends thereof respectively disposed in holes in the wall of the opening as at 30. The flexible member 29 coacts with
10 properly retain the same in place for turning movement.

We claim:

1. A doll having a hollow body, said hollow body having an opening therein and a
15 notch communicating with said opening, an appendage having a terminal portion cross sectionally similar in shape and substantially equal in size to the shape and size of said opening, said terminal portion having lateral
20 projections one of which is adapted to pass through said notch after the other projection has been brought to the inside of said body to detachably connect the appendage with

the body with said lateral portions in engagement with the body portion surrounding 25 said opening.

2. A doll having a hollow body, said hollow body having an opening therein and a notch communicating with said opening, an appendage for the hollow body, said appendage having a relatively reduced terminal provided with lateral portions one of which is adapted to pass through said notch after the other portion has been brought to the inside of said body, to thus associate said
35 appendage with said hollow body for rotatory movement with respect thereto, and a substantially semi-circular spring member secured to the hollow body in place in said opening and acting on said terminal. 40

Signed at Brooklyn, N. Y., in the county of Kings and State of New York, this 29 day of September, A. D. 1927.

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