

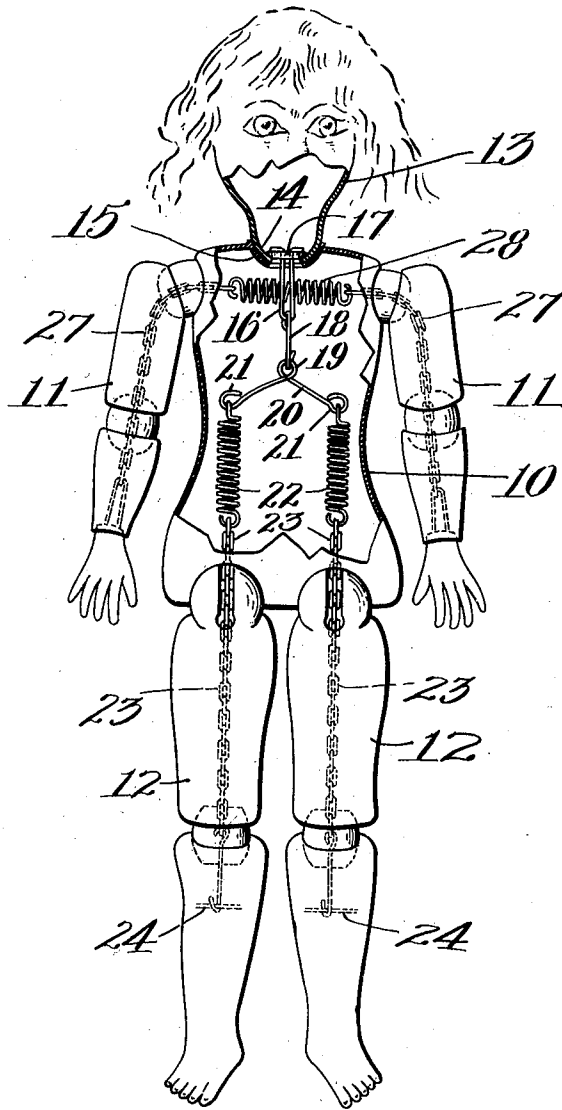
C. DE W. BEEDLE.

DOLL.

APPLICATION FILED MAY 13, 1912.

1,050,793.

Patented Jan. 21, 1913.



Witnesses:

C. F. Mason

E. M. Allen

Inventor:
C. D. Beedle

By Attorneys

Southgate & Southgate

UNITED STATES PATENT OFFICE.

CLAUDE DE WITT BEEDLE, OF LEOMINSTER, MASSACHUSETTS.

DOLL.

1,050,793.

Specification of Letters Patent.

Patented Jan. 21, 1913.

Application filed May 13, 1912. Serial No. 696,882.

To all whom it may concern:

Be it known that I, CLAUDE D. BEEDLE, a citizen of the United States, residing at Leominster, in the county of Worcester and State of Massachusetts, have invented a new and useful Doll, of which the following is a specification.

This invention relates particularly to the stringing arrangement.

The principal objects thereof are to provide a mechanism of this kind which can be applied very readily, which shall be very durable, and particularly to provide a construction in which the tension on a pair of limbs is equalized automatically, whereby if the yielding means holding one of the limbs loses a part of its resiliency, this will be equalized by the tension produced by the means for holding the other one; and to provide a construction in which a single set of yielding connections is employed for holding the legs and head.

The invention also involves an exceedingly simple and inexpensive construction and other features as will appear hereinafter.

Reference is to be had to the accompanying drawing which shows a preferred embodiment of the invention partly in section to show interior construction.

The invention is shown as applied to a doll of well known type having a hollow body 10, articulated limbs 11 and 12, and a hollow head 13 provided with a hemispherical lower end 14 adapted to turn in a similar shaped socket 15 at the top of the body. The lower end of the head and this socket are provided with wide perforations for permitting a wire connection 16 to pass through even when the head is turned forward or back, or to one side. This member 16 is connected with a button 17 or the like fitting in the bottom of the head so as to permit this motion also. The member 16 is connected by a link or the like 18 with an eye 19 at the center of a cross-bar 20. This cross-bar has eyes 21 at its ends with which are connected springs 22 which in turn are connected inside the hollow body with the free ends of a pair of flexible non-extensible connections 23 shown as chains. These chains extend through the first joints of the articulated legs 12 and are connected with the second joints thereof, as for example, by means of pins 24. It will be seen, therefore, that there is a single

connection between the head and the two springs 22, so that if one of them gets weakened the head will still be held centrally. Although in the drawing the lower limbs only are shown as connected up in this way, it is to be understood that the invention is not limited to the lower limbs, but can be applied to the arms as shown. These are shown simply as provided with non-extensible chains 27 connected with the hand sections and extending along the arms into the body where they are joined by a single spring 28. In both cases the chains extend well into the hollow body so that the springs can be connected with them readily and can be located entirely in the body so as to be out of contact with the joints.

By stringing a doll according to this principle, an exceedingly durable and effective arrangement is provided, and at the same time the operation of stringing is considerably simplified, although carried out in a general way as is usually done when elastics are employed for connecting the elements. It is to be observed particularly that the tension on the limbs is equalized in the case of the legs because the two springs 22 are connected by an equalizing bar 20 which if one of the springs is weaker than the other, or one of the chains 23 longer than the other, will tilt enough to bring the same degree of tension to bear upon both legs. At the same time these springs hold the head yieldingly in position so that the number of yielding parts is materially reduced.

Although I have illustrated and described a preferred embodiment of the invention, I am aware that many modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore, I do not wish to be limited to all the details of construction herein shown and described, but.

What I do claim is:—

1. As an article of manufacture, a doll having articulated legs, a hollow body and a head, and provided with non-extensible connections extending along the legs into the body, springs connected with the ends of said connections inside the body, and means for connecting said springs inside the body to equalize the tension.

2. As an article of manufacture, a doll having articulated limbs, a hollow body and a head, and provided with non-extensible

flexible connections extending along the limbs into the body, springs connected with the ends of said connections inside the body, means for connecting said springs inside the body to equalize the tension, and a single connection between said equalizing connecting means and the head.

3. In a doll, the combination with articulated limbs, a hollow body and a hollow head rotatably mounted on the body, of non-extensible flexible connections secured to the limbs and extending therethrough into the body, springs connected with the ends of said connections in the body, equalizing means in the body connected with the ends of said springs, a button in the lower part of the head adapted to permit the head to swing on the body, and means for connecting said button with said equalizing means.

4. In a doll, the combination with articulated legs, a hollow body and a head adapted to turn on the body, of a pair of non-extensible flexible connections secured to the lower parts of the legs and extending through them into the body, a pair of springs in the body connected separately with the ends of said connections, a bar in

the body to which the ends of the springs are connected, and means connected with the center of said bar for holding the head in position and putting the springs under tension.

5. In a doll, the combination with articulated limbs, a hollow body and a head adapted to turn on the body, a pair of non-extensible flexible connections secured to the outer parts of the limbs and extending through them into the body, a pair of springs in the body connected with the ends of said connections, a bar in the body to which the ends of the springs are connected, a link connected with the center of said bar, and a button in the head connected with said link, whereby the head is held in position by the tension of the springs and permitted to turn on the body.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

CLAUDE DE WITT BEEDLE.

Witnesses:

AMALIE M. URBAN,
BLANCHE M. JOBES.