Jan. 6, 1942. E. BOCCHINO 2,269,334

ANIMATED DOLL

Filed March 15, 1941

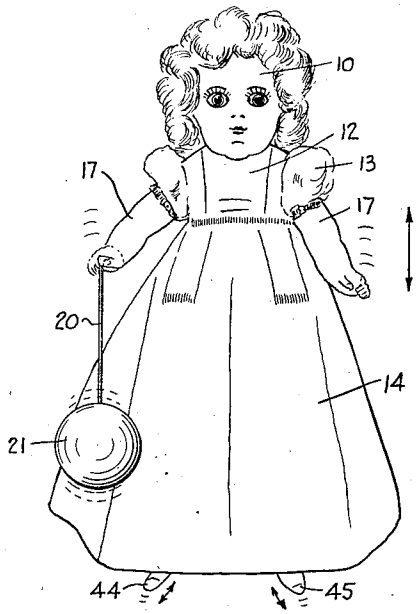


Fig. 1.

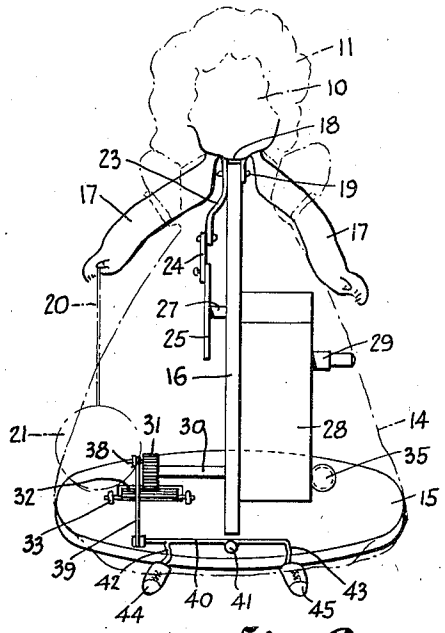


Fig. 2.

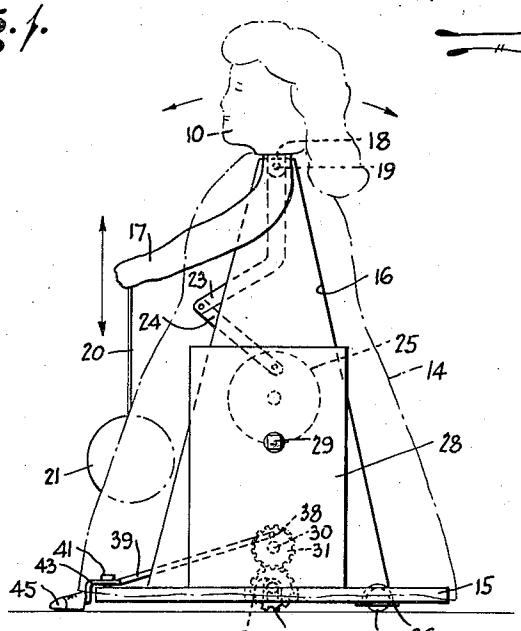


Fig. 3.

INVENTOR.

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ANIMATED DOLL

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3 Claims. (Cl. 46—105)

This invention relates to toys and more particularly to a type in which a figure, representing a person or animal, is caused to move its limbs in a manner simulative of a natural being.

An object of the invention is to provide a toy in the form of a clothed doll, containing a concealed motor and having connections whereby the arms and head are caused to move in a life like manner.

A further feature is in the provision of means, actuated by the motor, to move the feet simultaneously, with the arms, but in alternate relation, so that the figure is caused to advance on a level surface.

Another purpose is to produce an animated toy, in the form of doll provided with long skirts, its arms moving in unison and its feet at independent but related intervals.

These and other aims of analogous nature, are accomplished by the novel and practical construction, combination and arrangement of few and simple parts, hereinafter described and delineated in the accompanying drawing, forming a material component of this disclosure, and in which:

Figure 1 is a front elevational view of a complete embodiment of the invention.

Figure 2 is a perspective, but skeletonized, view of the same, the doll and clothing being indicated by broken lines.

Figure 3 is a side elevational view of the parts shown in Figure 2.

Referring in detail to the drawing, the head of a conventional doll is designated by the numeral 10, provided with hair 11; the doll is clothed in a garment consisting of a waist 12 having sleeves 13, and a long skirt 14.

The skirt is preferably attached at its bottom hem to the periphery of a circular platform 15, on which is secured the base of a triangular upright 16 extending to the head 10 of the figure, which it is adapted to indirectly support.

The arms 17 of the figure reach outwardly from the sleeves 13 and, together with the head 10, are fixed on a bracket 18 connected by a pivot 19 passing through the upper end of the upright 16 to oscillate thereover.

One of the arms may have attached to it an elastic cord 20 supporting a ball 21 or like object.

Extending downwardly from the support 18 is an arm 23, offset outwardly and bent forwardly at its lower portion, which is pivotally connected by a link 24, in turn pivotally attached to a disc 25, mounted on a spindle 27 extending from a spring motor 28 provided with a winding means 29.

Another spindle 30, driven by the motor, has fixed upon it a spur gear 31 in meshed engagement with a longer gear 32, mounted in bearings 33 on the platform 15 in a manner to extend therethrough and constitute one of its supports.

One or more spherical anti-friction supports 35 are rotatably mounted in the platforms, being held in adjusted position by clips 36.

Set in the outer face of the gear 31 is a crank pin 38 having attached a connecting rod 39, its opposite end engaged with a bar 40, pivoted midway its length on a pin 41 set in the platform 15.

Extending from the bar 40, at equal distances from the pin 41, at each side thereof, in a manner to reach over the front edge of the platform, are branches 42 and 43 on which are fixed feet 44 and 45, respectively right and left.

From the foregoing it will be apparent that upon actuation of the motor 28 the head 10 will tilt forward and back, in the manner of bowing; the arms rise and fall in a fashion simulative of natural motion, and such movement will obviously cause the ball 21 to bounce into various positions.

Coincidently, the lower spindle 30, acting through the gears and bar 40, cause the feet to alternately move forward and backward, such reciprocations drawing the platform and figure forward in a swaying manner which action is augmented by the gear 32, thereby constituting a truly animated figure toy.

Having thus described the invention, and set forth the manner of its construction and operation, what is claimed as new and sought to secure by Letters Patent, is:

1. In an animated figure toy representing a doll having a skirt, a circular platform inclosed by the lower edge of said skirt, an upright fixed centrally on said platform, a spring motor carried on said upright having an extending spindle, a gear fixed on said spindle, a second gear meshed with the first named gear and mounted in said platform to extend therethrough, an antifriction support set in said platform, a bar pivoted midway its length on the platform, a crank pin fixed in the first named gear, a rod connecting said pin and bar to cause the latter to oscillate on its pivot, branches on said bar to extend at equal distances on each side of its pivot, and feet carried by said branches to extend outwardly beyond said platform.

2. In an animated figure representing a doll,

a base platform having a raised support, a motor on said support, said motor having two spindles, a gear on one of said spindles, means on the other of said spindles adapted to mesh with said gear, means actuated by one of said spindles to actuate the head and arms of said doll coincidently, and means actuated by the other of said spindles to actuate the feet of said doll alternately and to propel said platform.

3. In an animated figure toy representing a doll, having a skirt, a platform enclosed by the lower edge of said skirt, an upright fixed on said platform, a motor carried on said upright having an extending spindle, a gear fixed on said spindle, means meshed with said gear and mounted in said platform to extend therethrough, an anti-friction support set in said platform, a bar pivoted on the platform, a crank pin fixed in said gear, a rod connecting said pin and bar to cause the latter to oscillate on its pivot, branches on said bar to extend at equal distances on each side of the pivot, and feet carried by said branches to extend outwardly beyond said platform.

ERNEST BOCCHINO.