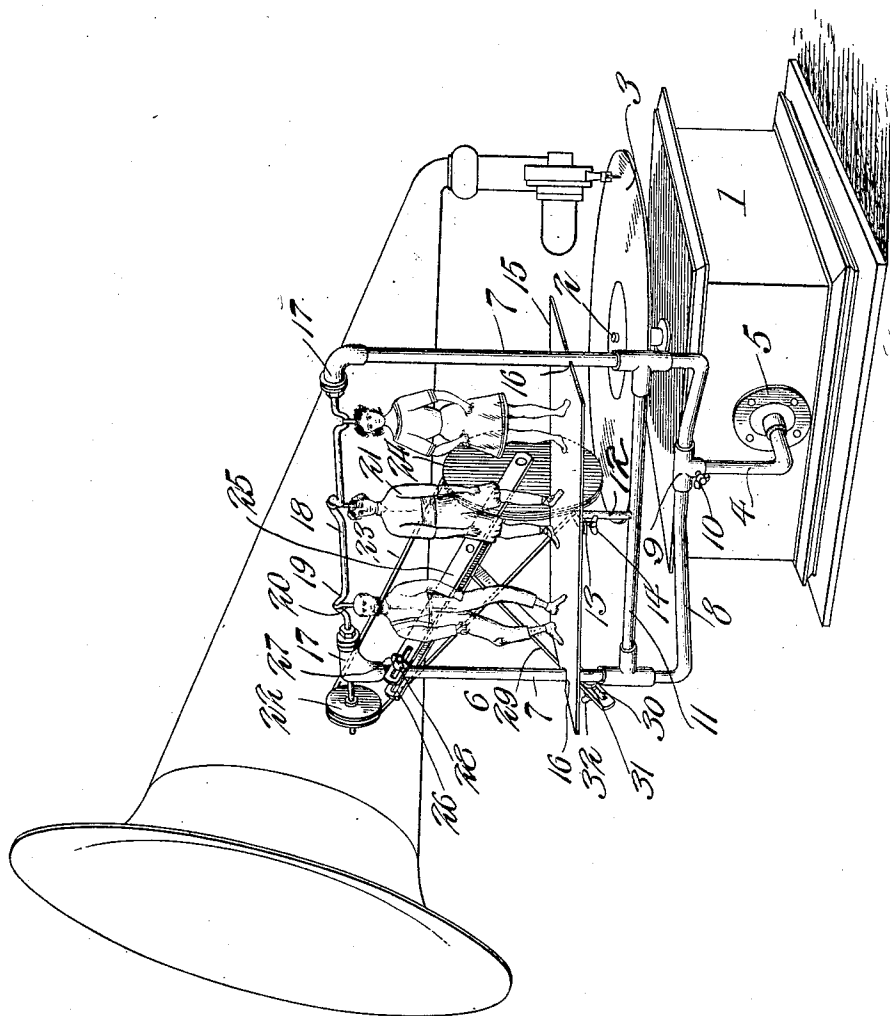


G. T. HALL.
FIGURE TOY.
APPLICATION FILED AUG. 18, 1908.

938,318.

Patented Oct. 26, 1909.



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FIGURE TOY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE T. HALL, a citizen of the United States, residing at Weatherford, in the county of Parker and State of Texas, have invented new and useful Improvements in Figure Toys, of which the following is a specification.

This invention relates to figure toys of the dancing or eccentric-movement type, the object of the invention being to provide a toy of novel construction which may be driven by a suitable motor or mounted upon a phonograph or other like motor-driven machine so as to be operated by the mechanism of such machine when the latter is in action, and by means of which one or more figures may be set into motion simulating a dance, acrobatic feats or eccentric performances of any desired kind.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawing, showing in perspective the application of the device to a phonograph.

Referring to the drawing, 1 designates the casing of a phonograph of a known type, within which is arranged spring motor mechanism for driving a vertical shaft 2, provided with a turn table, disk or platform 3 to receive the ordinary phonographic record disk, not shown, which is secured in the usual manner to the upper end of the shaft.

In accordance with my invention, an elbow bracket 4 is provided upon one of its arms with an attaching plate 5 secured in any suitable manner to one of the sides of the casing, the other arm of said bracket being vertically arranged to support a substantially U-shaped frame 6, comprising parallel vertical side bars 7 and a lower connecting cross bar 8, the latter being provided with a coupling socket 9 adapted to slip down upon the upper end of the vertical bracket arm and to be secured thereto by a set screw 10, whereby the frame is detachably mounted upon the phonograph casing. Above the cross bar 8 the side rods of the frame are further connected by a cross bar or rod 11, from which extends a supporting standard 12 having at its upper end a horizontal arm 13 carrying an adjusting screw 14 working in a threaded opening therein. A plate or platform 15 is supported by said standard between the frame bars 7 and is of suitable size and shape and formed at its ends with

notches or recesses 16 to receive and slidably engage said bars. Normally the plate or platform rests upon the horizontal arm of the standard, but by means of the screw 14 it may be adjusted vertically to suit the length of the dolls or figures, the feet of which contact with said plate or platform during the movement of said figures.

The upper ends of the frame bars 7 are provided with bearings 17, which may be of the antifriction type, for a transverse shaft 18 provided with one or more cranks 19 from which are pivotally suspended by link rods 20 one or more figures 21, which may be formed and dressed to represent dancing dolls, acrobats, animals or movable figures of any desired type. As the shaft rotates these figures are caused by the action of the cranks and their pivotal connection therewith to move up and down and to form various interesting, amusing or eccentric actions, thus simulating a dance or other performance during the playing of an accompaniment by the phonograph.

The mechanism herein shown for actuating the shaft 18 comprises a grooved pulley 22 mounted upon one end of said shaft and connected by a belt or cord 23 with a grooved driving pulley 24, which latter is adapted to peripherally contact with the rotating platform 3 of the phonograph or the record supported thereon and to receive rotary motion therefrom, which motion is transmitted by the belt to the shaft to operate the figures as the machine rotates the record and plays the tune represented thereby. The pulley 24 is journaled upon one end of a supporting arm 25 preferably formed of a pair of spaced bars or strips, the opposite ends of which are longitudinally slotted, as at 26 for engagement with the screws 27 mounted upon one of the frame bars 7, which screws are adapted for the reception of clamping nuts 28 whereby the bars are pivotally and adjustably mounted on said bars 7. The arm 25 is stayed and reinforced by a brace 29 pivotally connected at its inner end therewith and slotted at its outer end, as at 30, to receive a screw 31 on the bar 7 by which it is pivotally and adjustably mounted on said bar, said screw being adapted to receive a clamping nut 32 by which the brace may be fixed in adjusted position. By this mode of mounting the supporting arm and brace the driving pulley 25 may be vertically and hori-

zontally adjusted to compensate for variations in the height of the table 3 above the top of the casing and to adapt said pulley to be engaged with and driven by either the 5 table or the record supported thereon.

From the foregoing description, the construction and mode of operation of my improved toy will be readily understood, and it will be seen that it provides a device 10 which may be readily applied to any ordinary phonograph and driven by the mechanism thereof so as to be actuated while the composition is being rendered. I do not, however, limit my invention strictly to 15 its use as an attachment for phonographs, as it may be independently employed and driven in any other suitable manner.

Having thus fully described the invention what is claimed as new is:

20 1. The combination with a frame or casing, and a motor driven rotary disk supported thereby, of a bracket mounted on said frame or casing, a movable figure carried by said bracket, gearing for operating 25 said figure, and a friction drive mechanism for actuating said gearing, said mechanism including a friction wheel in contact with said disk.

2. The combination with a frame or casing, and a motor driven rotary disk supported thereby, of a bracket mounted on 30 said frame or casing, a platform supported by said bracket, a shaft journaled on the bracket, a movable figure operated by the shaft and contacting with the platform, and 35 friction gearing for driving said shaft including a friction wheel in contact with said disk.

3. In a figure toy, the combination of a 40 frame or casing, a motor driven rotary disk supported thereby, a bracket carried by the frame or casing, a shaft journaled on said bracket, a movable figure actuated by said shaft, a pivotally mounted arm, a friction 45 wheel carried by the arm and driven by the

disk, a brace pivoted to the arm and adjustably connected with the bracket, and a driving connection between said friction wheel and the shaft.

4. In a figure toy, the combination of a 50 frame or casing, a motor driven rotary disk supported thereby, an elbow support mounted on the frame, a U-shaped bracket carried by said support, a crank shaft at the upper end of the bracket, a platform mounted on 55 the arm of the bracket below said shaft, a movable figure supported from and actuated by the shaft, a pulley upon the shaft, a drive pulley, an adjustable, pivoted support for said drive pulley, the latter being driven 60 from said disk, and a belt connecting said pulleys.

5. In a figure toy, the combination of a frame or casing, a motor driven rotary disk supported thereby, a bracket carried by the 65 frame or casing, a shaft journaled on said bracket, a movable figure actuated by said shaft, an arm adjustably connected with the bracket, a friction wheel carried by the arm and driven by the disk, and a driving con- 70 nection between said friction wheel and the shaft.

6. In a figure toy, the combination of a frame or casing, a motor driven rotary disk carried thereby, a bracket supported by the 75 casing, a shaft journaled on the bracket, a movable figure actuated by the shaft, a supporting arm pivotally and slidably connected with the bracket, a friction wheel carried by the arm and driven by contact 80 with the disk, means for supporting the arm in adjusted position, and a driving connection between said wheel and the shaft.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE T. HALL.

Witnesses:

T. F. SAMPLE,
J. G. SMITH.