Jan 6, 1931. M. J. HAND 1,787,745

DANCING FIGURE

Filed Jan. 30, 1929

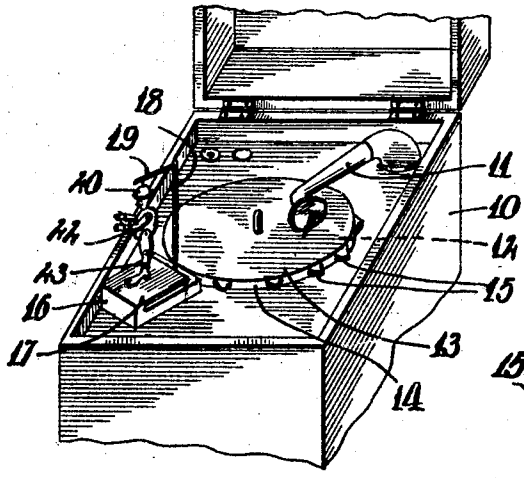


FIG. 1

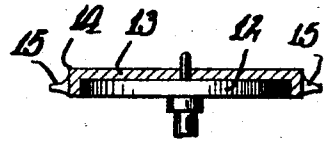


FIG. 2

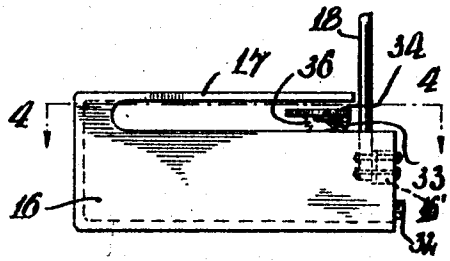


FIG. 3

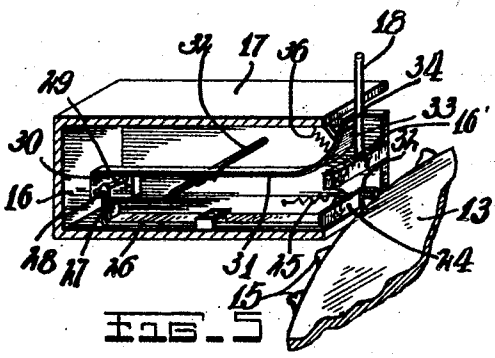


FIG. 5

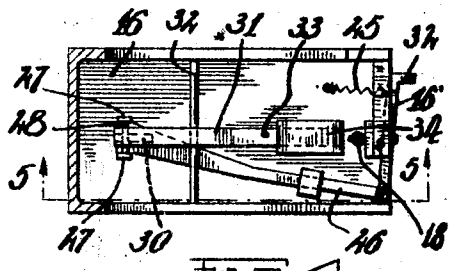


FIG. 4

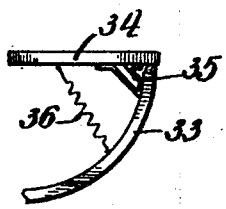


FIG. 6

INVENTOR.
Michael J. Hand
BY
ATTORNEY

Patented Jan. 6, 1931 1,787,745

UNITED STATES PATENT OFFICE

MICHAEL J. HAND, OF NEW YORK, N. Y.

DANCING FIGURE

Application filed January 30, 1929. Serial No. 336,136.

This invention relates generally to dancing figures, and has more particular reference to a novel automatic dancing figure for phonographs.

The invention has for an object the provision of a device of the class mentioned which is of simple durable construction, desirable and efficient in action, and which can be manufactured and sold at a reasonable cost.

The invention proposes the use of a circular cover adapted for engaging upon the record carrying disc of a phonograph, and provided with edge projections engaging as the record carrying disc turns, against a spring pressed lever arranged for transmitting a periodic blow against a vibratable member in contact with the feet of a suspended figure for moving them to simulate dancing. The figure may be that of a man or a woman and has joints at the thighs, knees and ankles and at the arms for simultaneously dancing as it receives vibrations from the said vibration member.

For further comprehension of the invention, and of the object and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth,

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a perspective view of a phonograph provided with a dancing figure according to this invention.

Fig. 2 is a side elevational view of the record carrying disc of the phonograph, with a cover shown in sectional view engaged thereon.

Fig. 3 is a side elevational view of the vibration portion of the device.

Fig. 4 is a horizontal, sectional view, taken on the line 4—4 of Fig. 3.

Fig. 5 is a vertical sectional view, taken on the line 5—5 of Fig. 4.

Fig. 6 is a fragmentary side elevational view of the top portion of the abutting lever of the device.

The reference numeral 10 indicates generally a phonograph of any design or construction having a tone arm 11 restable upon the record support disc 12. A cover consisting of a flat top 13 and vertical sides 14 is engaged upon the disc 12 and arranged for rotating with the disc as one unit. A plurality of teeth 15 project from the sides 14.

A small casing 16 is attached on the top of the phonograph in proximity of the disc 12 and has an integral top vibration board 17 adapted to vibrate when its free end is struck. A vertical rod 18 is attached to a cross piece 16′ of the casing 16 and has a bent horizontal top 19 from which a figure arranged for dancing depends. This figure comprises a head 20, a body 21 attached thereto, arms 22 pivotally attached on the body, and legs 23 also pivotally attached on the body and formed with feet resting upon the vibration board 17. The legs are provided with joints at the knees and ankles.

A lever 24 is pivoted intermediate of its ends onto the base of the casing 16 and has one of its ends bent forward and urged into engagement with the cover sides 14 by an expansion spring 25. The other end of the lever 24 is attached with a bar 26 slidably mounted on the base of the casing 16 and having at its free ends upwardly projecting lugs 27. A pin 28 is attached between these lugs and passes thru an inclined elongated opening 29 formed in a lug 30 projecting downwards from one end of an arm 31 pivoted as at 32 to the sides of the casing, and having an upwardly bent front end 33.

An abutting lever 34 is hingedly mounted on the end 33 and has a projecting stop 35 limiting its motion to a horizontal position, and a spring 36 urges the lever 34 into this position. The spring 36 is of the tension type and acts between the end 33 and the lever 34.

In operation of the device, the lever 24 is moved back and forth by reason of the expansion spring 25 and the projections 15 on the cover sides 14, during the rotation of the disc 12. The motion is transmitted to the pin 28 which moves to rock the arm 31. On the upward motion of the arm end 33, the abutting lever 34 strikes the board 17 for setting up vibrations to vibrate the feet of

the figure depending from the rod portion 19, and simulating a dancing figure. On the downstroke of the arm end 33, the abutting lever idles past the board 17 due to its turning about its hinge and against the action of the spring 36.

While I have shown and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention what I claim as new and desire to secure by United States Letters Patent is:

1. An automatic dancing figure for phonographs, comprising a casing for attachment on a phonograph adjacent the turntable and formed with a top vibration board, projections on said turntable, a dancer figure suspended on a rod attached on the casing and having its feet engaging said vibration board, a spring urged lever for engaging said projections on the turntable of the phonograph for receiving periodic motion and pivotally mounted in said casing, an arm with an upward bent front end and pivotally mounted in the casing and connected with said lever for periodic pivoting, an abutting lever hinged on the front end of said arm for striking the vibration board, a stop for normally holding the abutting lever horizontally, and a spring urging the abutting lever against the stop.

2. An automatic dancing figure for phonographs, comprising a casing for attachment on a phonograph adjacent the turntable and formed with a top vibration board, projections on said turntable, a dancer figure suspended on a rod attached on the casing and having its feet engaging said vibration board, a spring urged lever for engaging said projections on the turntable of the phonograph for receiving periodic motion and pivotally mounted in said casing, an arm with an upward bent front end and pivotally mounted in the casing, a lug with an inclined slot projecting from the rear of said arm, a pin extended into said inclined slot and attached on a bar slidably mounted on the base of said casing, the inner end of the spring urged lever being attached on said bar, an abutting lever hinged on the front end of said arm for striking the vibration board, a stop for normally holding the abutting lever horizontally, and means for urging the abutting lever against the stop.

In testimony whereof I have affixed my signature.

MICHAEL J. HAND.