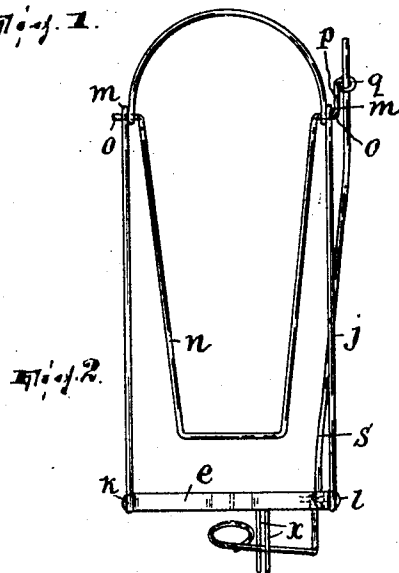


1,324,068.

Ex. 1.



WITNESS

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MECHANICAL TOY.

1,324,068.

Specification of Letters Patent.

Patented Dec. 9, 1919.

Application filed March 8, 1919. Serial No. 281,456.

To all whom it may concern:

Be it known that I, LAMBERTUS ROSENBAUM, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Mechanical Toys, of which the following is a specification.

This invention relates to mechanical toys and particularly to toys which are adapted to be operated by some motor-driven element, as the record-centering spindle on the rotating disk or platen of a phonograph machine, the object being to provide a toy which will be simple and durable in construction and may be composed principally of wire so as to be inexpensive.

Figure 1 of the accompanying drawing shows the invention in side elevation;

Fig. 2 shows it in front elevation; and

Fig. 3 is a plan of the basal member, certain parts appearing in section.

a is the phonograph machine having the usual motor-driven rotary disk *b*, provided with the spindle *c* for centering the record *d*.

The device constituting my invention includes a basal member *e*, in the form of a suitably shaped plate of wood, with a bent-wire extension *f* at one end which is turned down to form a support for said member and to that end preferably has a weight *g* to rest flat upon the top of the fixed structure of the phonograph. Another support for the member *e* consists of a boss *h* which is journaled on a vertical axis in the member *e* by means of a pin *i*, said support depending from the basal member. The boss *h* is suitably socketed at its lower end to receive the spindle *c* and snugly fit the same so as to rotate with it.

Upstanding from the member *e* is a support in the form of an arch of wire *j*, the two legs of which may be formed with loops *k* at their lower ends to receive screws *l*, driven into the sides of the member *e* for securing the support rigidly in an upright position. At a suitable height above the member *e* the legs of said support are bent into the form of loops or coils *m* which are horizontally opposed to each other and form bearings.

A swinging carrier *n* in the form of a U-shaped piece of wire has its free ends *o* bent off in opposite directions and received in the bearings *m*. One of these free ends terminates in a crank *p* having a laterally

extending loop *q*. *r* designates a doll or other figure suitably attached to the carrier *n*.

A bell-crank lever *s* formed of wire, having a loop *t* formed therein to serve as a bearing, is fulcrumed on a pin *u* in the member *e*; preferably a hole *v* is formed in member *e* to receive the loop *t*, and the pin is driven into the member *e* at the edge thereof so as to pass through the loop. One arm of the bell-crank lever extends upwardly and passes freely through the loop *q*; the other arm has a cam-engagement with the boss *h*. This cam-engagement is preferably formed by extending the end of the said other arm of the bell-crank lever into a loop embracing and formed as a spiral around the boss, the boss having a projecting pin *w*. Preferably a pair of pins *x* project down from the member *e* and form a guide for the horizontal arm of the bell-crank lever.

When the parts are at rest the spiral loop embracing the boss *h* occupies such a position that if the boss be rotated its pin will depress the horizontal arm of the bell-crank lever by wiping over the cam formed by the spiral loop on the end of said arm. It will be obvious in view of this that when the phonograph is operating and the spindle *c* is consequently rotating the boss *h* and the action of gravity on the parts *n—r* and *s* will alternately act to cause the carrier and the figure *r* supported therein to swing back and forth.

The device may be readily detached by simply withdrawing the boss *h* from the spindle.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In combination, with a basal member having spaced depending supporting portions, one being adapted to rest on the fixed structure of a phonograph machine and the other being rotary and adapted to be fixed on the rotating record-centering spindle of such machine, a support upstanding from said member, a figure-carrier fulcrumed in said support and having a crank, and a bell-crank lever fulcrumed in said member and having one arm projecting upwardly and having a sliding connection with the crank and its other arm projecting toward said rotary supporting portion and having a cam-engagement therewith.

2. In combination, with a basal member

having spaced depending supporting portions, one being adapted to rest on the fixed structure of a phonograph machine and the other being rotary and adapted to be fixed
5 on the rotating record-centering spindle of such machine, a support upstanding from said member, a figure-carrier fulcrumed in said support and having a crank, and a bell-crank lever fulcrumed in said member and
10 having one arm projecting upwardly and having a sliding connection with the crank and its other arm projecting toward and including a spiral extending around the rotary supporting portion, the latter having a
15 projection engaging the spiral.

3. In combination, with a basal member having spaced depending supporting portions, one being adapted to rest on the fixed structure of a phonograph machine and the
20 other being rotary and adapted to be fixed on the rotating record-centering spindle of such machine, a support upstanding from said member, a bent-wire figure-carrier fulcrumed in said support and having one end

of the wire forming a crank and said crank 25 including a loop, and a bent-wire bell-crank lever fulcrumed in said member and having one arm projecting upwardly and sliding freely in said loop and its other arm projecting toward the rotary supporting portion 30 and having a cam-engagement therewith.

4. In combination, supporting means having an upright support and also having depending supporting portions, one being adapted to rest on the fixed structure of a 35 phonograph machine and the other being rotary and adapted to be fixed on the rotating record-centering spindle of such machine, a figure carrier fulcrumed in the upright support and having a crank, and a bell- 40 crank lever fulcrumed in said supporting means and having one arm projecting upwardly and having a sliding connection with the crank and its other arm projecting toward said rotary supporting portion and 45 having a cam-engagement therewith.

In testimony whereof I affix my signature,
LAMBERTUS ROSENBAUM.