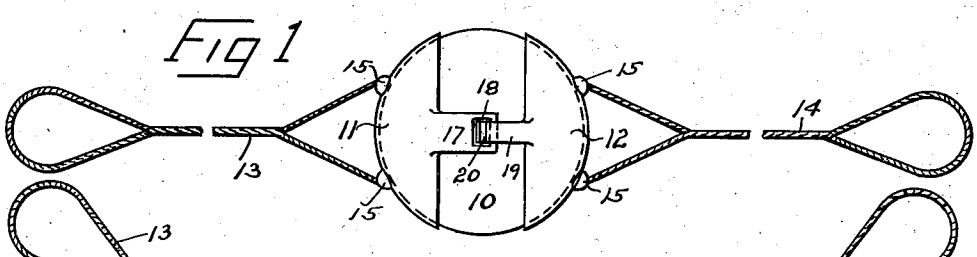
Sept. 21, 1937. A. C. PISACANO 2,093,479

DEVICE FOR IMPARTING ROTARY MOTION TO TOYS AND THE LIKE

Filed July 16, 1936

Fig 1



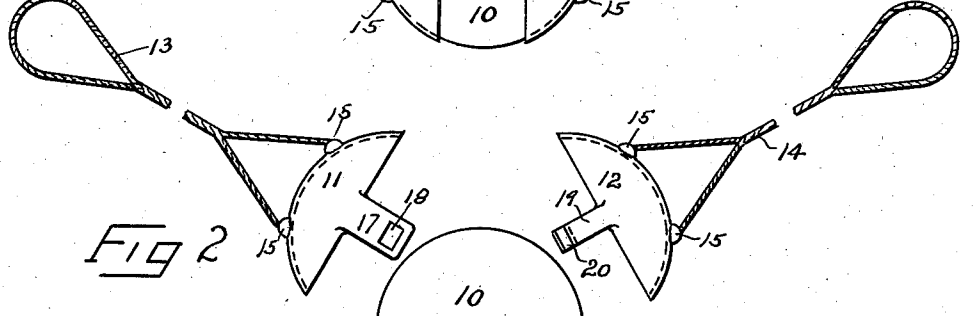


Fig 2

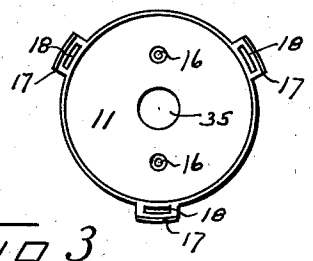


Fig 3

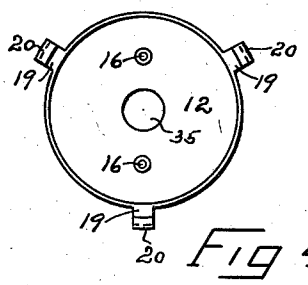


Fig 4

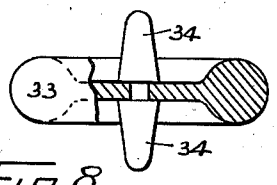


Fig 8

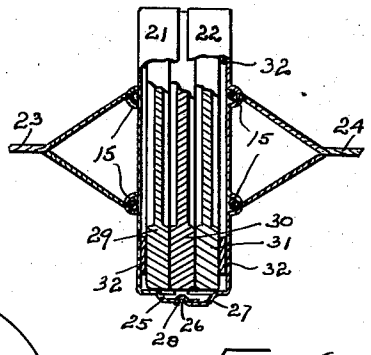


Fig 6

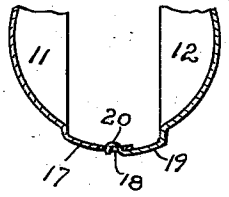


Fig 5

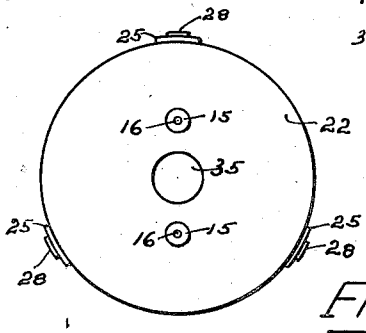


Fig 7

INVENTOR.
Albert C. Pisacano
BY Henrik J. Schmidt
ATTORNEYS.

Patented Sept. 21, 1937 2,093,479

UNITED STATES PATENT OFFICE

2,093,479

DEVICE FOR IMPARTING ROTARY MOTION TO TOYS AND THE LIKE

Albert C. Pisacano, Yonkers, N. Y.

Application July 16, 1936, Serial No. 90,834

4 Claims. (Cl. 46—47)

The invention relates to devices by means of which rolling, spinning or soaring toys may be rotated and from which the toys may be released so as to roll, spin or soar by themselves. It is a further improvement on my co-pending application, Serial No. 746,126, filed September 29, 1934.

It has for its main object to provide a device which can be used with various kinds of toys and from which the release is positively and practically instantaneously effected without slowing down the speed which has been imparted to the toy. Another object is to provide a device which is easy to manipulate. A further object is to provide a device which can be manufactured and sold at a comparatively low cost and which will be neat and attractive in appearance.

These and various other objects and advantages will be readily understood from the following description and from the accompanying drawing of preferred embodiments of the invention, in which, however, modifications may be made without departing from the scope of the appended claims. In the drawing

Fig. 1 shows the device applied to a ball or other spherical object,

Fig. 2 is a similar view showing the ball released,

Fig. 3 is an end view of one of the clamping members used in the device,

Fig. 4 is an end view of the other clamping member,

Fig. 5 is a fragmental view of the clamping members showing the release mechanism in detail,

Fig. 6 is a cross-sectional side view of a modified device,

Fig. 7 is an end view of one of the clamping members shown in Fig. 6, and

Fig. 8 is a cross-sectional side view of a spinning toy which may be used with the device.

Referring first to Figs. 1 to 5 inclusive, in the present instance a ball 10 is shown to illustrate the use of the device. The device itself consists of two semi-spherical clamping members 11 and 12 to which looped cords 13 and 14 are secured. While the looped cords may be secured to the clamping members in any suitable manner, I prefer to form cup-shaped protrusions 15 with central openings 16 on the clamping members and to thread the ends of the cord through these openings and then secure the cords by tying knots on their ends. This construction is plainly shown in Fig. 6. A plurality of arms 17 are formed integrally with the clamping member 11 and provided with openings 18 near their outer ends. Similarly a plurality of arms 19 are formed on the clamping member 12 and a latch 20 formed on the end of each of these arms. When the clamping members are placed on the ball, these latches engage in the openings 18 and securely clamp the ball between the members.

When it is desired to impart rotary motion to the ball, the operator inserts his fingers in the outer loops of the cords 13 and 14 and twirls the device. The cords will now twist, as shown in the drawing, and by alternately pulling on the cords and releasing the pull great speed may be imparted to the ball, in the manner well known to the art. When the required speed has been obtained, an additional pull on the cord will cause the latches 20 to disengage from the openings 18 and thus release the ball, as illustrated in Fig. 2. When released, the ball will fall to the floor and roll along with great speed.

Referring now to Figs. 6 and 7. In this instance the clamping members 21 and 22 are cup-shaped with flat end plates. The looped cords 23 and 24 are secured in the manner just described and the clamping and releasing mechanism each consists of an arm 25, having an opening 26, and an arm 27, having a latch 28. In this embodiment 3 discs 29, 30 and 31 are shown. They are clamped between the side members, as in the device previously described, but to assure that they are rigidly clamped in the device, I prefer to insert discs 32 of resilient material such as felt or the like. This device is operated similarly to the one just described and when the side members are pulled apart the three discs will fall to the floor and roll along with great speed. If the discs are made either slightly different in weight or slightly different in diameter, they will roll along at different speeds and thus provide a very interesting game.

While I have shown and described the device as being twirled while held in a horizontal position, it is evident that the device may also be used with spinning toys, such for example, as the top shown in Fig. 8. In that case the body member 33 of the top is clamped between the side members, while the spindle 34 extends through openings 35 formed in these members. The device is twirled in a vertical position and, when the clamping members are released, the top will land and rotate on the end of its spindle. Holes 35 are likewise provided in the clamping members 11 and 12, of the device first described, so that a top may likewise be used with this embodiment.

It is evident that a great many different kinds

of spinning, rolling or other toys may be used with this device and for this reason it is not the intention to limit the device to any particular kind of top or toy but to employ it with any device to which it may be found adaptable. It will also be seen that the clamping members might be made in various other shapes than those described and illustrated, and that a great many other types of clamping and releasing mechanisms might be employed. It will therefore be understood that nothing in the drawing or specification is meant to limit the device from the scope of the appended claims.

Having described the invention and its objects, what I claim is new and wish to protect by Letters Patent is:

1. A device of the class described comprising, a pair of cupped side plates adapted to enclose a toy; a looped cord secured to one side of each of said side plates; and means, formed integrally with the side plates and on their peripheries, for clamping said side plates around the toy; said clamping means being separable by a pull on the looped cords.

2. A device of the class described comprising a pair of cupped side plates adapted to enclose a plurality of discs; a looped cord secured to one side of each of said side plates; and means, formed integrally with the said plates and on their peripheries, for clamping said side plates around the discs; said clamping means being separable by a pull on the looped cords.

3. A device of the class described comprising a pair of cupped side plates adapted to enclose a top; concentric openings formed in said side plates through which the spindle of the top projects; a looped cord secured to one side of said side plates; and means, formed integrally with the side plates and on their peripheries, for clamping said side plates around the top; said clamping means being separable by a pull on the looped cords.

4. A device of the class described, comprising a pair of semi-spherical side members adapted to enclose a spherical toy; a looped cord secured to one side of each of said side members; and means, formed integrally with the side members and on their peripheries, for clamping said side members around the spherical toy; said clamping means being separable by a pull on the looped cords.

ALBERT C. PISACANO.